

Another quality product from
EURO-PRO

Instruction Manual
INSTRUCCION MANUAL

Model 7100

EURO-PRO CORPORATION, 178 West Service Rd., Champlain, New York 12919

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic safety precautions should always be followed, including the following:

Read all instructions before using this sewing machine.

DANGER

—To reduce the risk of electric shock:

1. An appliance should never be left unattended when plugged in.
2. Always unplug this appliance from the electric outlet immediately after using and before cleaning.
3. Always unplug before relamping. Replace bulb with same type rated 10 watts.

WARNING

—To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Do not allow to be used as a toy. Close attention is necessary when this appliance is used by or near children.
2. Use this appliance only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
3. Never operate this appliance if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the appliance to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
4. Never operate the appliance with any air openings block. Keep ventilation openings of the sewing machine and foot controller free from accumulation of lint, dust, and loose cloth.

5. Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
6. Always use the proper needle plate. The wrong plate can cause the needle to break.
7. Do not use bent needles.
8. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
9. Switch the sewing machine off ("0") when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, and the like.
10. Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
11. Never drop or insert any object into any opening.
12. Do not use outdoors.
13. Do not operate where aerosol (spray products are being used or where oxygen is being administered.
14. To disconnect, turn all controls to the off ("0") position, then remove plug from outlet.
15. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.

SAVE THESE INSTRUCTIONS

This sewing machine is intended for household use only.

Congratulations:

As the owner of a new **EURO-PRO** sewing machine, you will enjoy precision quality stitching on all types of fabrics, from multiple layers of denim to delicate silks.

Your **EURO-PRO** sewing machine offers the ultimate in simplicity and ease of operation. For your safety and to fully enjoy the many advantages and ease of operation of your sewing machine, we recommend that you read all the important safeguards and use and care instructions in this instruction book.

May we suggest that before you start to use your sewing machine, you discover the many features and advantages by going through this instruction book, step by step, while seated at your sewing machine.

Estimado Cliente:

Le felicitamos muy cordialmente por su nueva máquina de coser.

Vd. acaba de comprar un producto de calidad que ha sido fabricado con el máximo cuidado. Su máquina de coser es fácil de usar pero naturalmente hay que seguir las reglas. Y estas las hemos especificado en este manual de instrucciones. Si Vd. les presta atención entonces realizará sus trabajos perfectamente desde el comienzo.

Por supuesto que Vd. tendrá algunas preguntas que en este manual no hemos podido agotar del todo. En este caso el representante de nuestro estará siempre a su disposición, para cualquier pregunta que Vd. pueda tener.

Le deseamos buen divertimento con su hobby. De tienda suelta a su máquina de coser y a su fantasía.

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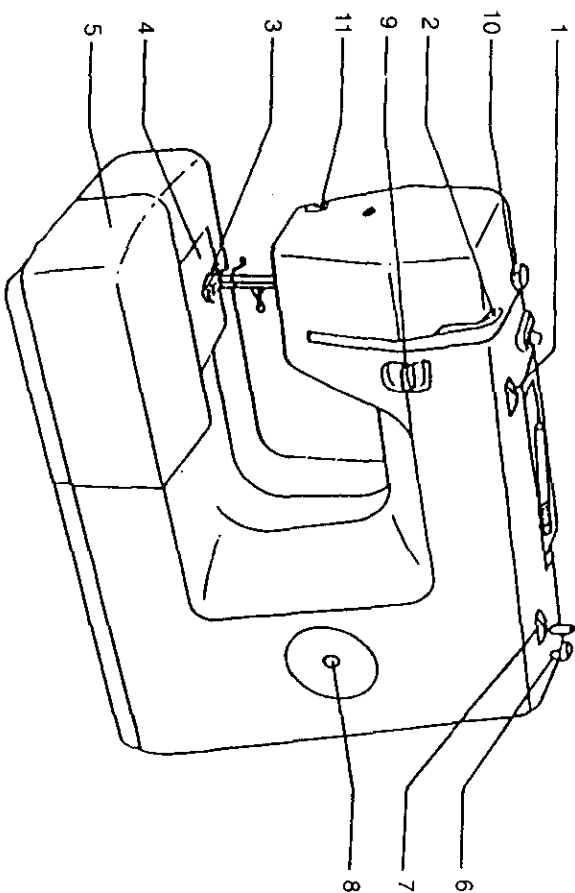
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□ **Principal parts / Detalles de la máquina**

- 1. Thread tension dial
- 2. Thread take-up lever
- 3. Presser foot
- 4. Needle plate
- 5. Sewing table
- 6. Bobbin stopper
- 7. Stitch length dial
- 8. Stitch display
- 9. Reverse sewing lever
- 10. Presser foot pressure
- 11. Thread cutting

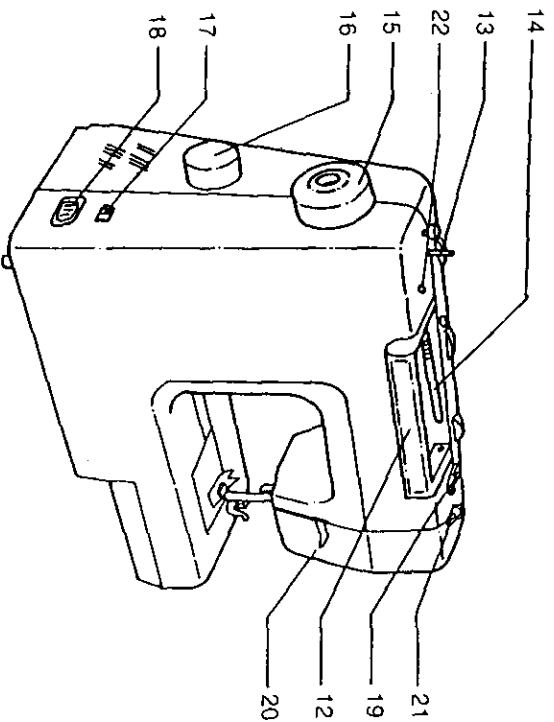
- 1. Tensión del hilo
- 2. Palanca tensora del hilo
- 3. Prensateja
- 4. Placa de la aguja
- 5. Mesa plana corrediza y coja de accesorios
- 6. Tapón de bobina
- 7. Disco de la longitud de puntada
- 8. Ventana de puntada
- 9. Control de retroceso
- 10. Presión de pie
- 11. Corta-hilos



□ Principal parts / Detalles de la máquina

- 12. Handle
- 13. Bobbin winder
- 14. Spool pin
- 15. Hand wheel
- 16. Patten selector dial
- 17. Power switch
- 18. Main plug socket
- 19. Bobbin thread guide
- 20. Presser foot lever
- 21. Upper thread guide
- 22. Hole to insert the extra spool pin

- 12. Asa de transporte
- 13. Devanadera
- 14. Portabobinas
- 15. Volante
- 16. Botón selector de puntos
- 17. Interruptor principal
- 18. Enchufe de conexión a la red
- 19. Guía hilo de bobin
- 20. Palanca alza-prensatejelas
- 21. Guía hilo inferior
- 22. Porta carretes extra



Accesorios/Accessories

Standard accessories

- a. All purpose foot
- b. Zipper foot
- c. Buttonhole foot
- d. Button sewing foot
- e. L-screwdriver
- f. Seam ripper/brush
- g. Oil bottle
- h. Pack of needles (3x)
- i. Bobbin (3x)
- j. Seam guide
- k. Darning plate
- l. Twin needle

Extra foot

(These 6 presser feet are not supplied with this machine; they are however available as special accessories from your local dealer.)

- l. Satin stitch foot
- m. Overcasting foot
- n. Hemmer foot
- o. Blind hem foot
- p. Cording foot
- q. Darning foot

Standard accessories

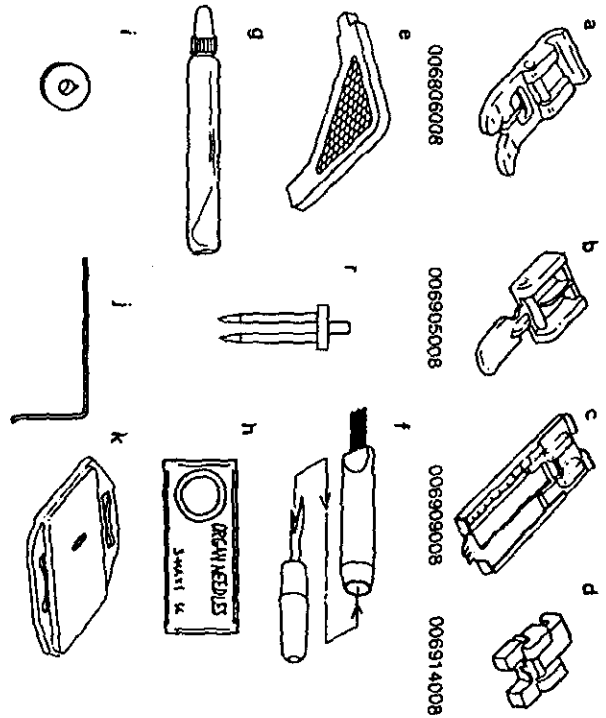
- a. Pie universal
- b. Pie para cremallera
- c. Pie para ojales
- d. Pie para coser botones
- e. Destornillador grande
- f. Pincel/Corta-ojales
- g. Aceitera
- h. Agujas (3x)
- i. Canillas (3x)
- j. Regla de borso
- k. Zurcida plancha
- l. Agujas grmeelas

Extra prensateela

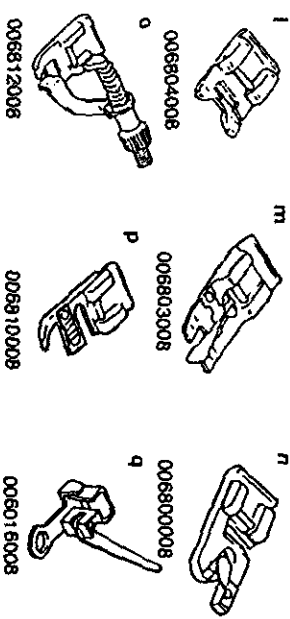
(Estos 6 pies no pertenecen al equipo standard de esta máquina. Pero se pueden comprar como accesorio adicional a través de su representante local.)

- l. Pie para bordar
- m. Pie overlock
- n. Pie dobladilloador
- o. Pie para punto invisible
- p. Pie para hilo de cordón
- q. Pie para zurcido

Standard accessories /Standard accesories



Optional feet available at extra cost

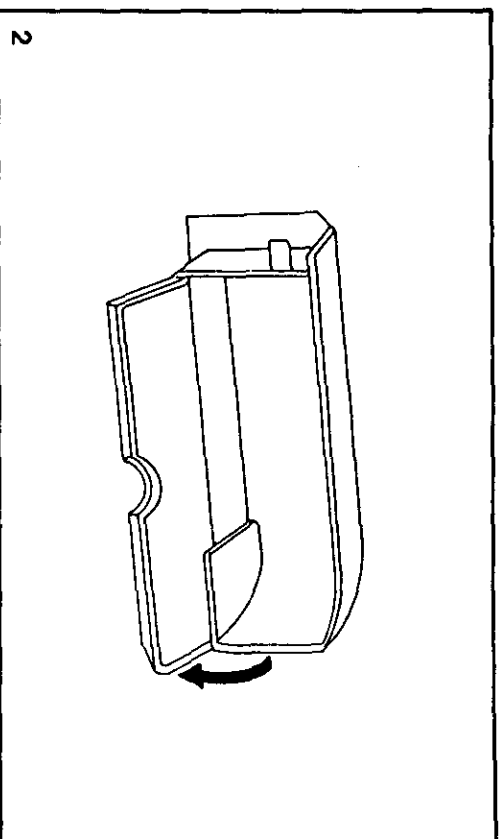
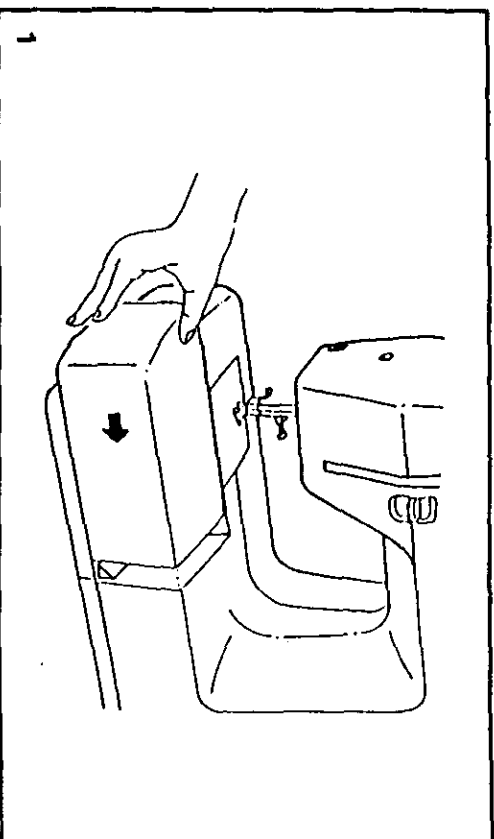


□ Fitting the snap-in sewing table / Ajusta la snap-in mesa plana corrediza

Hold the snap-in sewing table horizontal, and push it in the direction of the arrow. (1)

The inside of the snap-in sewing table can be used as an accessory box.

To open, Lift up at the point of the arrow as shown. (2)



Guarda la horizontalidad de la snap-in mesa plana corrediza y lo empuje a la dirección de la saeta. (1)
El interior de la snap-in puede utilizar como una caja accesoria.
Levante la tapa desde el punto de la saeta para abrir. (2)

□ Connecting machine to power source / Conecta la máquina al fuente eléctrico

CAUTION:

Always make sure that the machine is unplugged from power source and the main switch is on "off" when the machine is not in use and before inserting or removing parts.

- This machine is equipped with a polarized plug which must be used with an appropriate electrical outlet.
- Connect the machine to a power source as illustrated (Fig. 1).
- The power switch is located above the terminal box. Your machine will not operate unless this switch is "ON" (Fig. 1).
- Sewing light turns on automatically when the main switch is "ON".
- To start the machine, press on the foot control (Fig. 2). The speed of the machine is regulated by the amount of pressure exerted on the foot control.

Conecte la máquina a un fuente eléctrico según la ilustración. (1) Este dispositivo tiene un enchufe polarizado para lo que le instale el toma apropiado.

Atención:

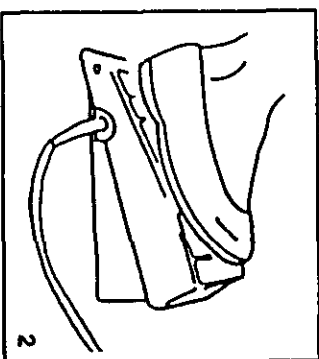
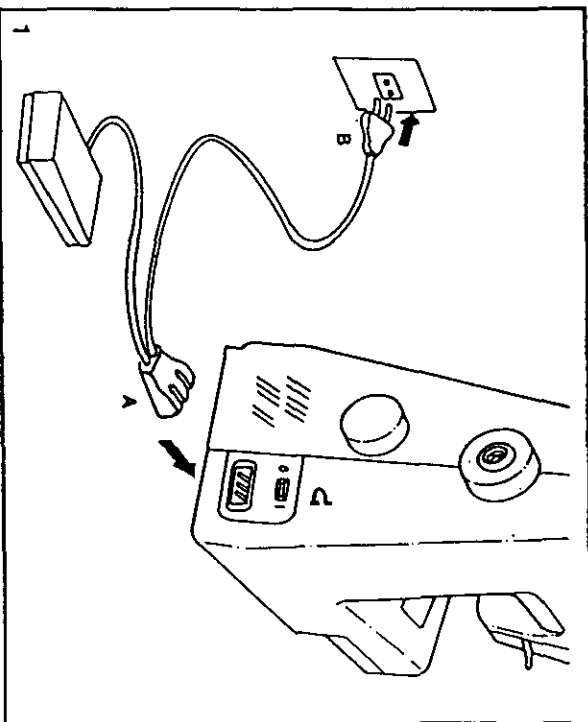
Desenchule la máquina del toma corriente cuando no la use.

Pedal de control

El pedal de control puede regular la velocidad de coser. (2)

Alumbrado del trabajo

Conectar el interruptor principal "C" para la eléctrica y la luz (1)



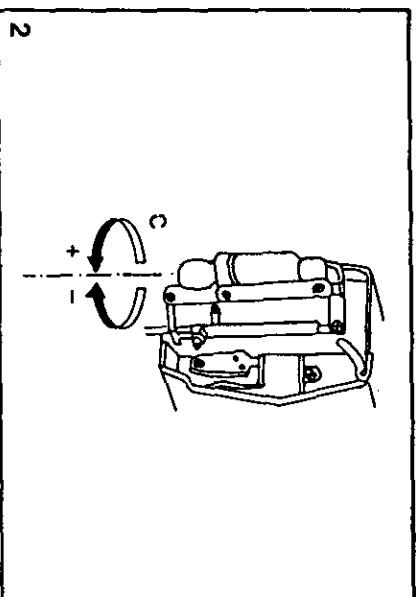
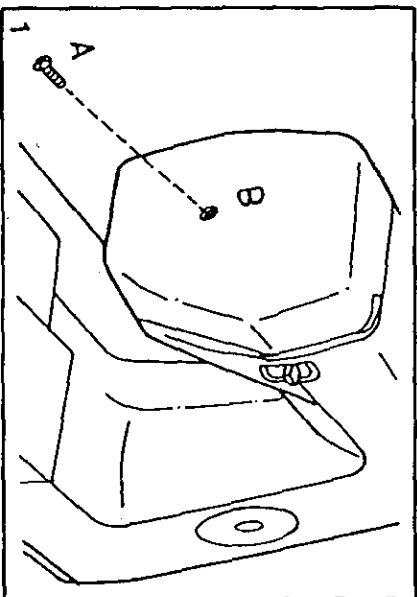
IMPORTANT NOTICE
This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not modify the plug in any way.

□ Changing the bulb / Cambio de la bombilla

CAUTION:

Make sure to disconnect the electrical supply plug from wall outlet before changing light bulb.

- Loosen screw "A" as illustrated (Fig. 1).
- Remove the cover "B".
- Unscrew light bulb and replace with new one "C" (Fig. 2).
- Replace the cover and tighten screw.



Desenchufar la máquina de la red eléctrica

- Destornillar el tornillo "A" de la parte posterior (1)
- Sacar la tapa frontal "B"
- Sacar la bombilla "C" y cambiarla por una nueva (2)
- Montar y atornillar la tapa frontal

En caso de confusión acuda a la próxima asistencia técnica.

□ Two-step presser foot lever / Palanca alza-prensatejas con dos escalones

When sewing several layers of thick fabric, the presser foot can be raised to a second higher level to facilitate the placement of the fabric "A":

Para coser ropas extremadamente gruesas se puede ensanchar el pasaje de la ropa debajo del pie subiéndolo la palanca del alza-prensatejas de un escalón. (A)

**□ Adjusting the presser foot pressure /
Ajuste de la presión del pie prensatela**

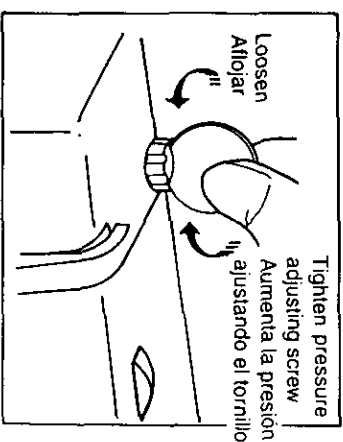
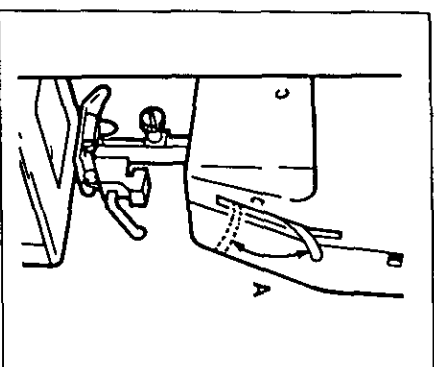
The presser foot pressure of the machine has been pre-set and normally does not require readjustment for different types of fabric (light or heavy weight).

However, if you need to adjust the presser foot pressure, turn the pressure adjusting screw with a coin.

For sewing very thin fabrics, loosen the pressure by turning the screw counter clockwise, and for heavy fabrics, increase the pressure by turning the screw clockwise.

La presión del pie prensateja de la máquina ha sido preseleccionada y no requiere especiales ajustes de acuerdo con el tipo de tejido (liviano o pesado).

Sin embargo, si se necesita ajustar la presión del pie prensateja gire el tornillo de ajuste de presión con una moneda. Para coser tela muy fina afloje la presión girando el tornillo en sentido antihorario y para telas pesadas aumente la presión girán dolo en sentido horario.



□ Attaching the presser foot holder / Montaje del porta-pie

Attention: Turn power switch to "off" before carrying out any of the operations below.

Raise the needle to its highest position and raise the presser foot lever. Attach the presser foot holder "b" to the presser foot bar "a" (Fig. 1).

Attaching the presser foot:

Lower the presser foot holder "a" until the groove "c" is directly above the pin "d" (Fig. 2).

Lower the presser foot holder "a" and the presser foot "f" will engage automatically.

Removing the presser foot:

Raise the presser foot.

Release the presser foot by raising lever "e" located at the back of the foot holder (Fig. 3).

Attaching the seam guide:

Attach the seam guide "g" in the slot as illustrated. Adjust the distance as required for hems, pleats, etc.... (Fig. 4).

Levantat la barra prensateles "a" (1) e introducir el porta-pie "b" com en la il·lustració.

Montaje del pie

Bajar la barra prensateles "a" hasta que la ranura "c" esté directamente sobre la espiga "d". (2)

Empujar ligeramente la palanca "e" hacia adelante. Bajar la barra prensateles "a" y el pie "f" se quedará enganchado al porta-pie.

Desmontaje del pie

Levantat el pie. (3)

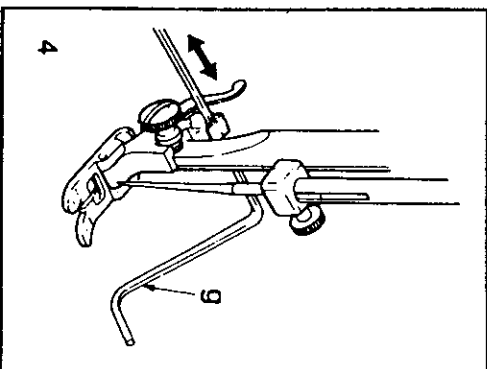
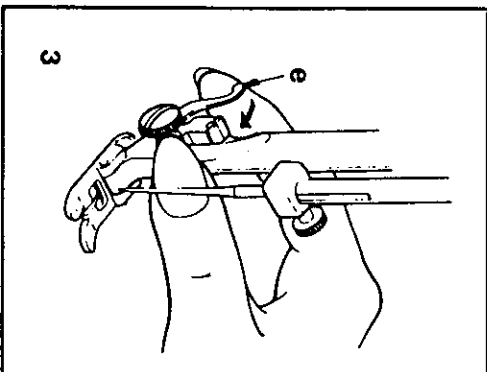
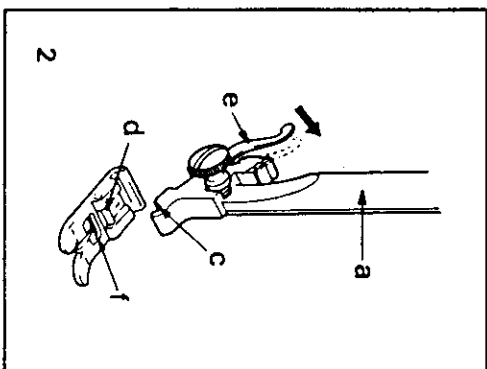
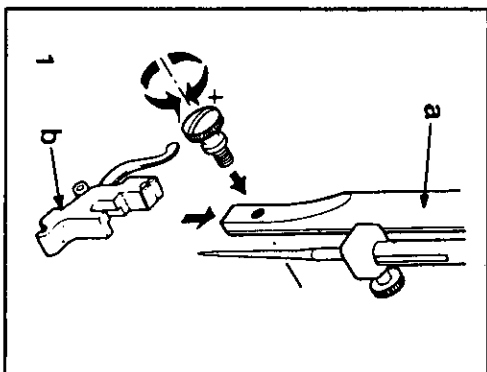
Apretar ligeramente la palanca "e" hacia adelante y entonces el pie quedará libre.

Montaje de la regla de borde

Montar la regla de borde "g" con cuidado, como en la ilustración. Para dcbladillos, pliegues, etc. (4)

Atención:

!Cualquier manipulación debe efectuarse con el interruptor principal a "off"!



□ Winding the bobbin / Embobinado del hilo inferior

Place an empty bobbin on the bobbin winder spindle.

Take the thread from the spool through the bobbin winder tension disc (Fig. 1+Fig. 2).

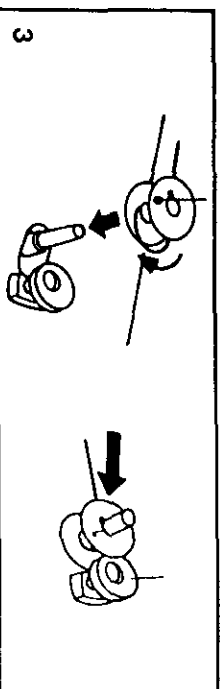
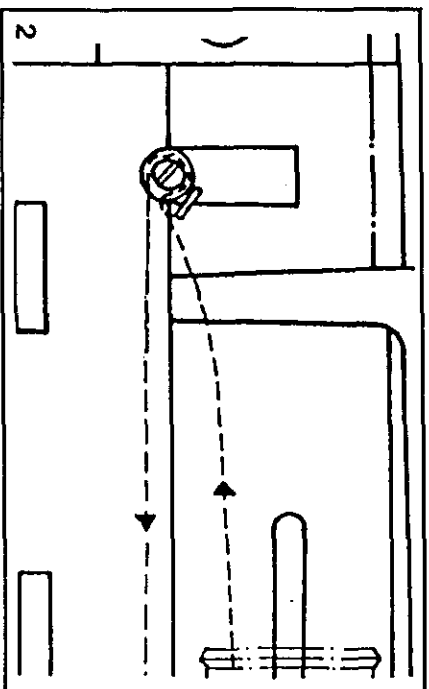
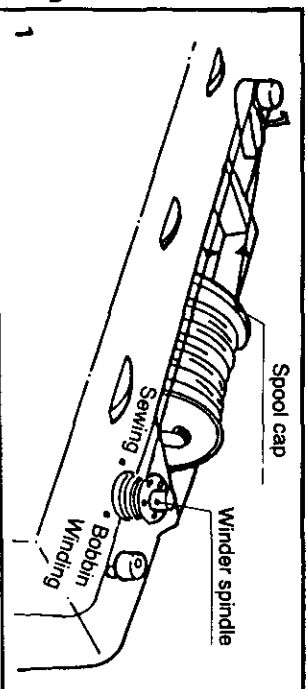
Wind the thread a few times by hand around the empty bobbin in a clockwise direction. Push the bobbin to the right towards the bobbin winding position (Fig. 3). Press the foot control gently. The bobbin will stop winding when it is full. Push the bobbin to the left to "sewing position" and remove it.

Please Note: When the bobbin winder spindle is in "bobbin winding" position, the machine will not sew-the hand wheel will not turn. To start sewing, push the bobbin winder spindle to the left (sewing position).

Poner la canilla vacía en el eje de la devanadera.

Tirar el hilo de la bobina y hacerlo pasar por las guías. (1/2)

Envolver el hilo a mano en la canilla en el sentido contrario de las agujas del reloj. Poner en marcha el motor pisando el pedal. Cuando la canilla está llena el embobinado se para automáticamente. Cortar el hilo y sacar la canilla llena. (3)

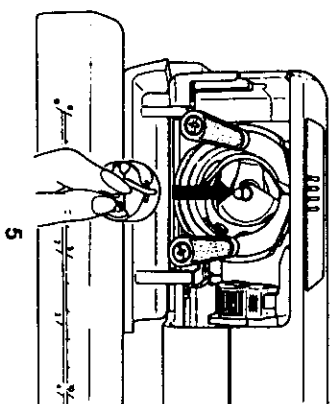
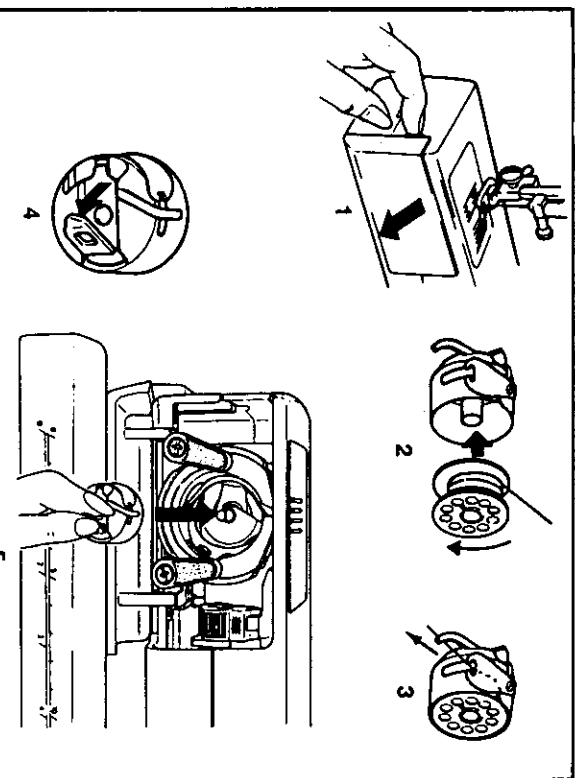


□ Inserting bobbin / Colocación de la canilla

Attention: Turn power switch to "off" before inserting or removing the bobbin.

When inserting or removing the bobbin, the needle must be raised to its highest position.

- Open the hinged cover (1).
- Hold the bobbin case with one hand. Insert the bobbin so that the thread runs in a clockwise direction (arrow) (2).
- Pull the thread through the slot, down and to the left until it enters the delivery eyelet (rectangular opening) under the tension spring (3).
- Hold the bobbin case by the hinged latch (4).
- Insert the bobbin case fully into the shuttle race and release the latch. Make sure that the metal finger fits into the notch at the top of the race cover (5).



La aguja tiene que estar siempre arriba del todo al poner y sacar la canilla.

Abrir la tapa con charnela. (1)
Sujetar el porta-canilla con una mano. Poner la canilla de manera que el hilo se devane en el sentido de las agujas del reloj (flecha). (2)
Pasarse el hilo por la ranura y por debajo del muelle. (3)
Introducir el porta-canilla en el carril de la lanzadera sujetando la charnela con el pulgar y el índice. (4/5)

Atención:

El interruptor principal tiene que estar a "off".

Changing the needle(System 130/705H)/Colocación de la aguja (Sistemas 130/705H)

Caution: Turn power switch to "off" before inserting or removing the needle.

Replace the needle at the first sign of thread breakage or skipped stitches.

Select the correct type and size of needle for the fabric to be sewn. Turn the balance wheel towards you until the needle is at its highest position.

Loosen the needle clamp screw "A" and tighten again after inserting the new needle (Fig. 1).

The flat side of the needle shaft should be facing away from you "B". Push the needle up "C" into the needle clamp as far as it will go "D".

Tighten the needle clamp screw firmly.

The sewing needle must always be straight and sharp for smooth sewing.

Replace the needle (Fig. 2) if it is bent "A", blunt "B" or the point is damaged "C".

Cambiar la aguja con frecuencia, sobre todo cuando aparezcan las primeras dificultades en el cosido.

Montar la aguja según la ilustración:

A Aflojar el tornillo del porta-aguja y después de haber colocado la aguja, apretarlo de nuevo. (1)

B El lado plano tiene que estar hacia atrás.

C/D Introducir la aguja hasta el tope.

Atención:

El interruptor principal tiene que estar a "off".

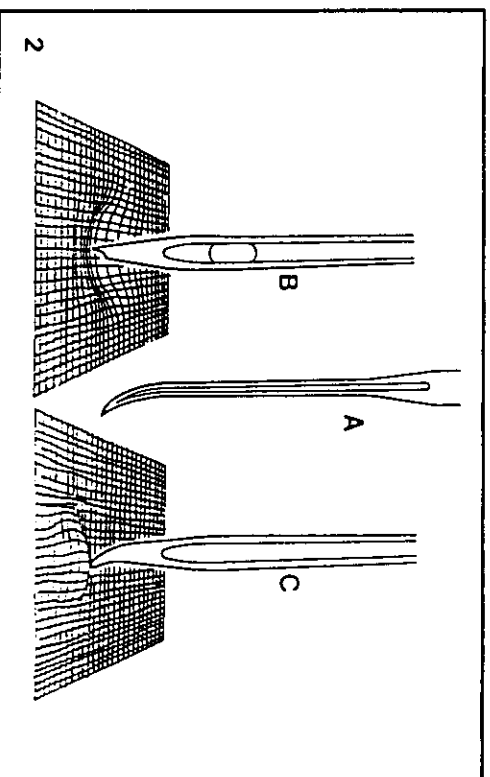
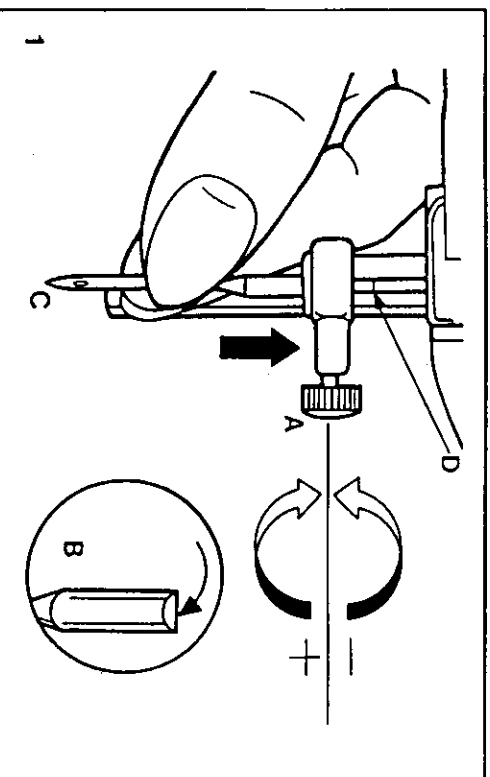
La aguja tiene que estar impecable. (2)

Problemas en el cosido se manifiestan si:

A la aguja está torcida

B la aguja está despuntada

C la punta tiene garfios



□ Threading the upper thread / Enhebrado del hilo superior

Caution: Before threading, turn power switch to "off"

Raise the needle bar to its highest position.

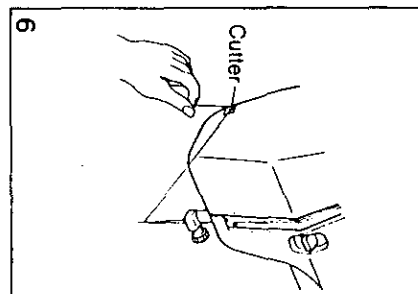
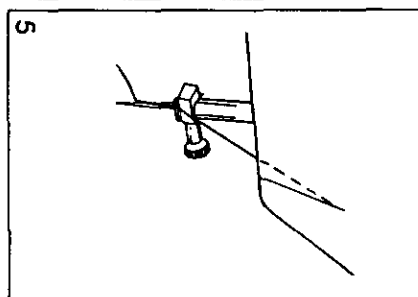
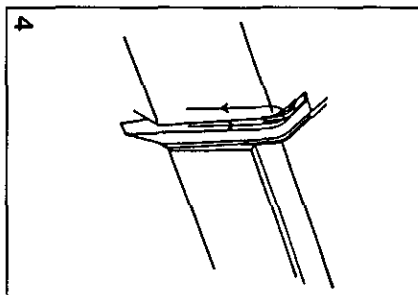
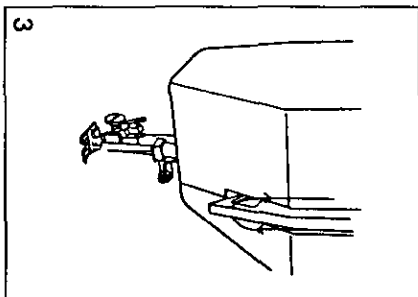
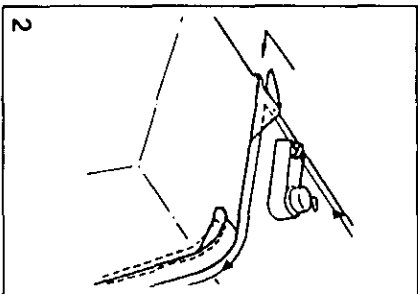
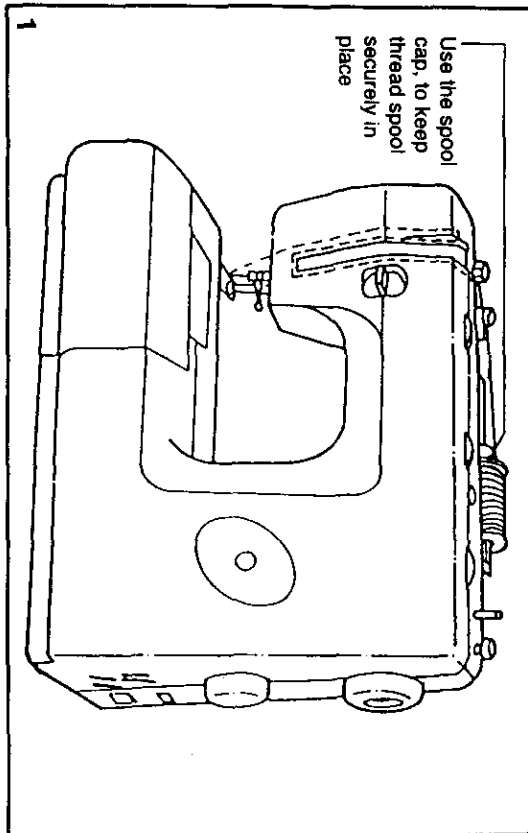
Follow exactly the numbered threading sequence illustrated below. If you skip a step or fail to properly engage the thread in any of the thread guides, the machine will not sew properly (Fig. 1-5).

Continue to draw the thread down and into the needle bar thread guide. Insert the thread through the eye of the needle from front to back. Leave about 10 cm. (4") of thread loose behind the needle (Fig. 5).

Atención:
El interruptor principal tiene que estar a "off" Subir la prensateja.

Enhebre la aguja por las siguientes posiciones: Guahillos de tapa superior, regulador de tensión, muelle de tirahilos, palanca tirahilos, guahillo del brazo, guahillo de la barra de aguja. (1-5)

Enhebre la aguja pasando el hilo desde el frente hacia el reverso por el ojo de la aguja y deje más o menos 10 cm (4 pulgadas) hilo. (5)



□ Thread tension / Tensión del hilo

Note: The bobbin thread tension has been adjusted at the factory and readjustment is usually not required.

Lower thread tension

To test the bobbin thread tension, remove the bobbin case and bobbin from the machine and hold the bobbin case suspended by the thread. Shake it once or twice. If the tension is correct, the thread will unwind by about an inch or two. If the tension is too tight, it will not unwind. If the tension is too loose, the thread will unwind for more than two inches. To adjust, turn the small screw on the side of the bobbin case (Fig. 1).

Upper thread tension

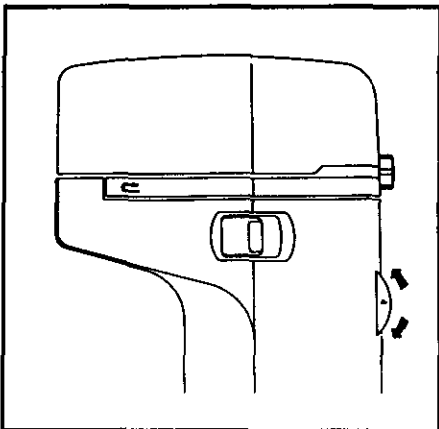
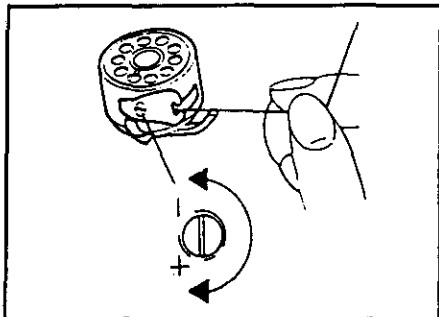
Basic thread tension setting: 4 (Fig. 2).

To increase the tension, turn the dial up to a higher number. To reduce the tension, turn the dial to a lower number.

"A" Normal thread tension.

"B" Thread tension too loose.

"C" Thread tension too tight.



Tensión del hilo interior

Para controlar la tensión del hilo interior coger el porta-canillas lleno por la punta del hilo y dejarlo colgado en el aire. Si la canilla no se desenrolla mientras el porta-canillas se oscila ligeramente, entonces la tensión es demasiado fuerte. Pero si en cambio se cae al suelo o se devana muy fácilmente, entonces la tensión es muy floja.

La tensión es correcta cuando el porta-canillas baja unos 10 cm y después se para colgado al hilo.

Atención:

Normalmente no es necesario cambiar la tensión del hilo interior.

Tensión del hilo superior

Regulación de base de la tensión del hilo: 4

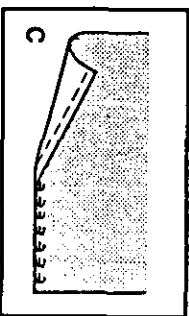
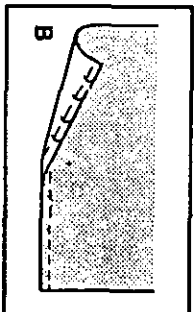
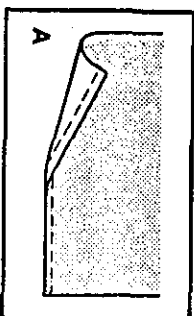
Para aumentar la tensión del hilo superior hay que girar el botón de regulación hacia un número más alto.

Para aflojar la tensión del hilo se gira dicho botón hacia un número más bajo.

A Tensión del hilo normal

B Tensión del hilo superior muy floja

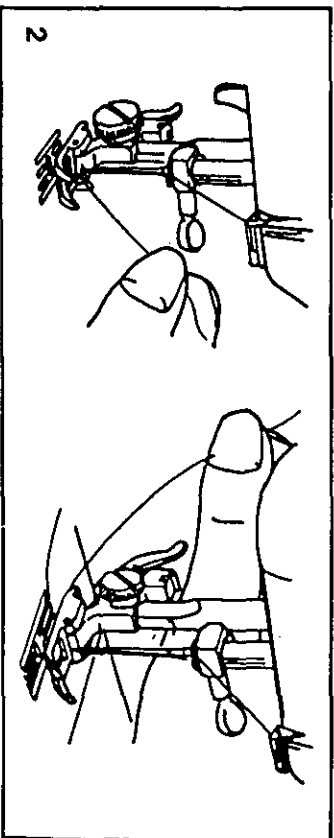
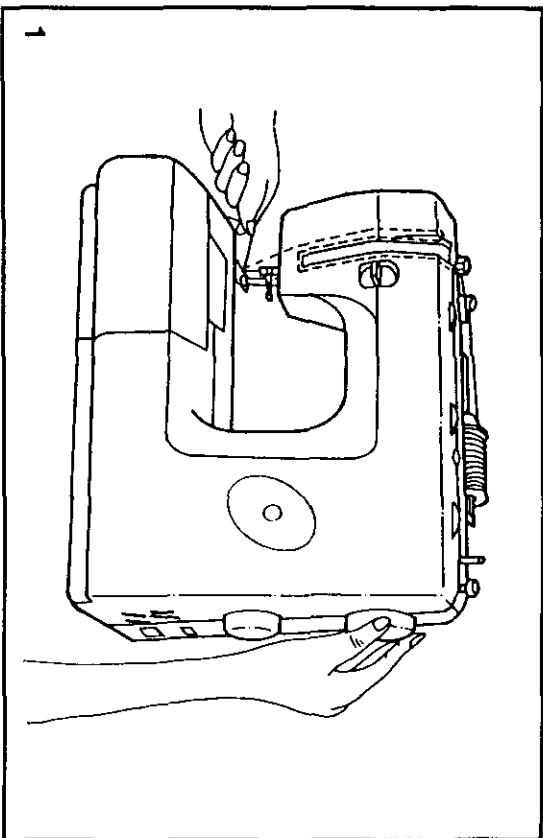
C Tensión del hilo superior demasiado fuerte



□ Bringing up the lower thread / Subir el hilo inferior

Hold the upper thread with your left hand. Turn the handwheel towards you with your right hand until the needle goes down and comes up again to its highest position (Fig. 1).

- Lightly draw up the needle thread forming a loop with the bobbin thread. The upper thread should have caught the lower thread in a loop.
- Pull the needle thread toward you and the lower thread will come up from the bobbin in a large loop (Fig. 2). Pull about 15 cm. (6") of both threads away from you under the presser foot.



Sujetar la punta del hilo superior con la mano. Girar el volante hacia adelante hasta que la aguja esté de nuevo en su posición más alta. (1)
Tirar del hilo superior con lo que se hace subir el hilo inferior a través del agujero de la placa de la aguja. Llevar los dos hilos hacia atrás, por debajo del pie. (2)

Reverse sewing / Coser hacia atrás

Reverse sewing is used for locking the end of seams and where reinforcement is needed.

At the end of a seam, press down the reverse sewing lever and touch the foot control lightly. Sew a few reverse stitches. Release lever and the machine will sew forward again "A".

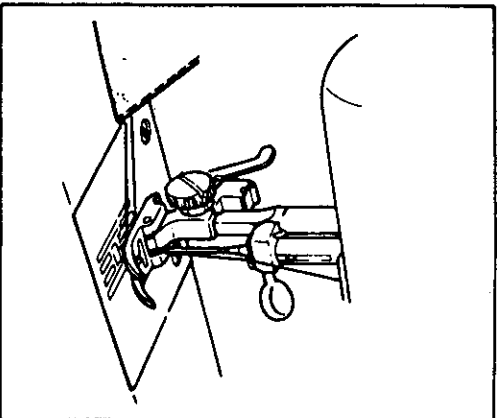
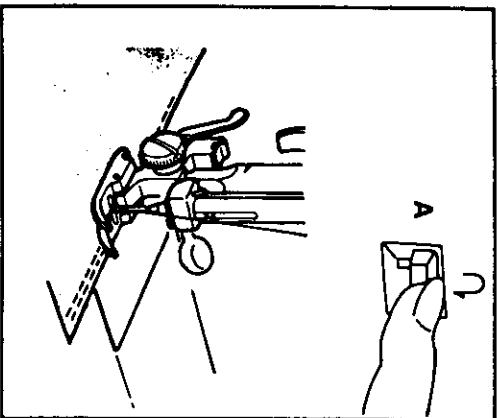
Al final de la costura apretar el botón de retroceso. Coser algunos puntos hacia atrás. Apenas se suelta el botón, la máquina cose de nuevo hacia adelante. (A)

**Removing the work/
Como sacar la labor de la máquina**

Turn the handwheel towards you to bring the thread take up lever to its highest position.

Raise the presser foot and draw the fabric away from you.

Colocar la palanca tensora del hilo en su posición más alta (girar el volante hacia adelante), levantar el pie y retirar la labor tirando hacia atrás.

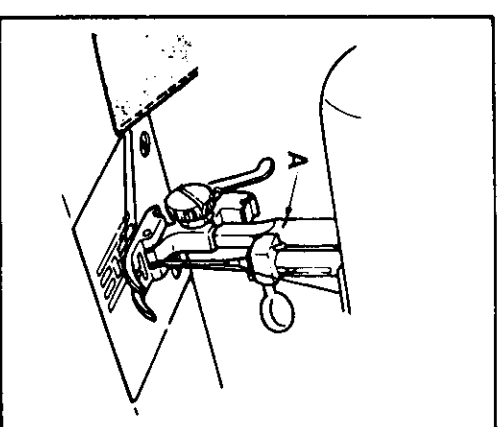


Cutting the thread / Cortar el hilo

Cutting the thread:

Hold the threads behind the presser foot. Using both hands, guide them to the slit "A" at the rear of the presser bar and press down to cut the thread. You can also use the thread cutter on the side of the machine (see page 13 Fig. 6).

Sujetar los hilos con las dos manos detrás de la prensatela. Hacerlos entrar en la ranura "A" de la barra prensatelas y tirar los hilos hacia abajo hasta que se corten.



Matching needle / fabric / thread

NEEDLE, FABRIC, THREAD SELECTION GUIDE

NEEDLE SIZE	FABRICS	THREAD
9-11 (65-75)	Lightweight fabrics—thin cottons, voile, serge, silk, muslin, Qiana, interlocks, cotton knits, tricois, jerseys, crepes, woven polyester, shirt & blouse fabrics.	Light-duty thread in cotton, nylon or polyester.
12 (80)	Medium weight fabrics—cotton, satin, kente cloth, sailcloth, double knits, lightweight woolsens.	Most threads sold are medium size and suitable for these fabrics and needle sizes. Use polyester threads on synthetic materials and cotton on natural woven fabrics for best results. Always use the same thread on top and bottom.
14 (90)	Medium weight fabrics—cotton duck, woolen, heavier knits, terycloth, denims.	
16 (100)	Heavyweight fabrics—canvas, woolsens, outdoor tent and quilted fabrics, denims, upholstery material (light to medium).	
18 (110)	Heavy woolsens, overcoat fabrics, upholstery fabrics, some leathers and vinyls.	Heavy duty thread, carpet thread. (Use heavy foot pressure—large numbers.)

IMPROTANT: Match needle size to thread size and weight of fabric.

NEEDLE, FABRIC SELECTION

NEEDLES	EXPLANATION	TYPE OF FABRIC
HAX1 15x1	Standard sharp needles. Sizes range thin to large. 9 (65) to 18 (110)	Natural woven fabrics—wool, cotton, silk, etc. Qiana. Not recommended for doubleknits.
15x1/705H	Semi-ball point needle, scarfed. 9 (65) to 18 (110)	Natural and synthetic woven fabrics, polyester blends. Knits—polyesters, interlocks, tricois, single and double knits. Can be used instead of 15x1 for sewing all fabrics.
15x1/705H (SUK)	Full ball point needle 9 (65) to 18 (110)	Sweater knits, Lycra, swimsuit fabric, elastic.
130 PCL	Leather needles. 12 (80) to 18 (110)	Leather, vinyl, upholstery. (Leaves smaller hole than standard large needle.)

NOTE:

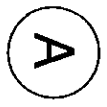
1. European needles show sizes 65, 70, 80 etc. American and Japanese needles show sizes 9, 11, 12 etc.
2. Replace needle often (approximately every other garment) and/or at first sign of thread breakage or skipped stitches.

□ Straight stitching center needle position / Punto recto en la posición central

Turn the pattern selector dial so that the "A" appears in the stitch display window.

Adjust the stitch length by turning the Stitch Length dial to the desired stitch length.

To get the reinforced triple straight stitch, turn the stitch length dial to position "S1"



S1
 I III
 I III
 I III
 I III
 I III

Straight stitch
 Center needle position

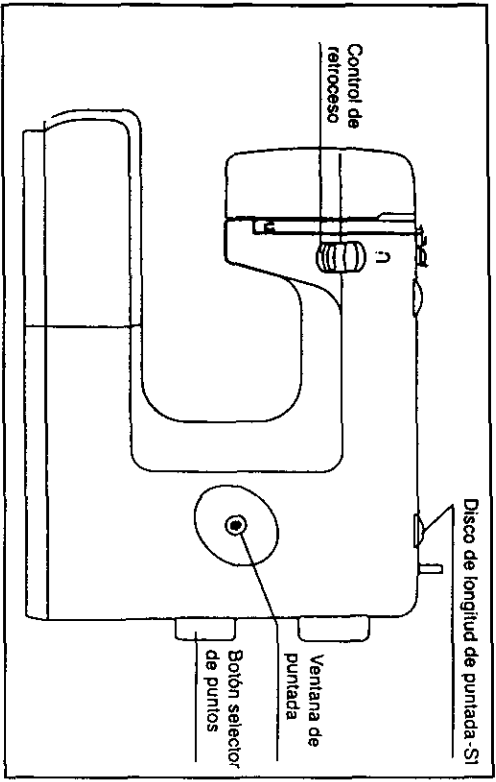
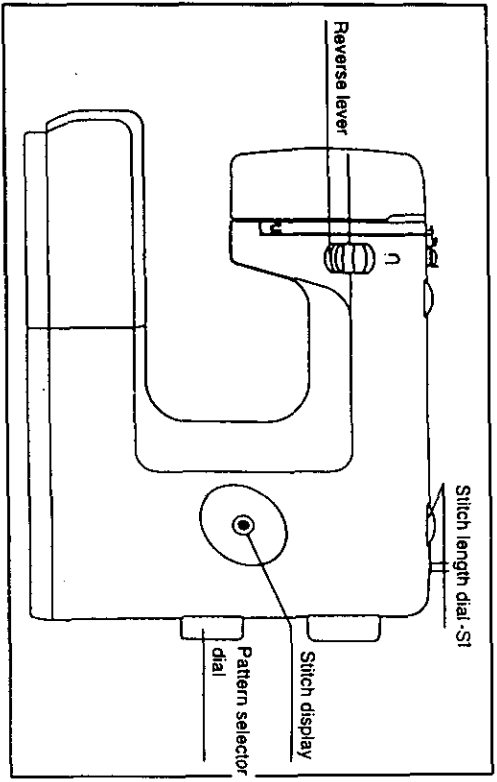
Girar el botón selector de puntos de manera que el indicador se haya fijado en la posición de la puntada recta.

Norma de orientación: Cuando más fuerte es el tejido tanto más grueso tiene que ser el hilo y la aguja y tanto más largo el punto.



S1
 I III
 I III
 I III
 I III
 I III

Punto recto
 Central position



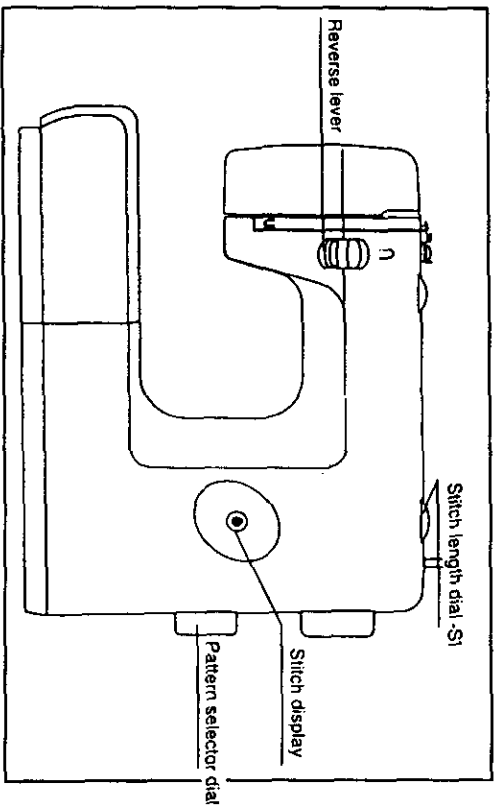
□ Straight stitching right needle position/ Punto derecha izquierda posición

Turn the pattern selector dial so that the "B" appears in the stitch display window.

Adjust the stitch length by turning the Stitch Length dial to the desired stitch length.

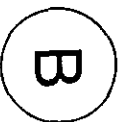


Straight stitch
Right needle position

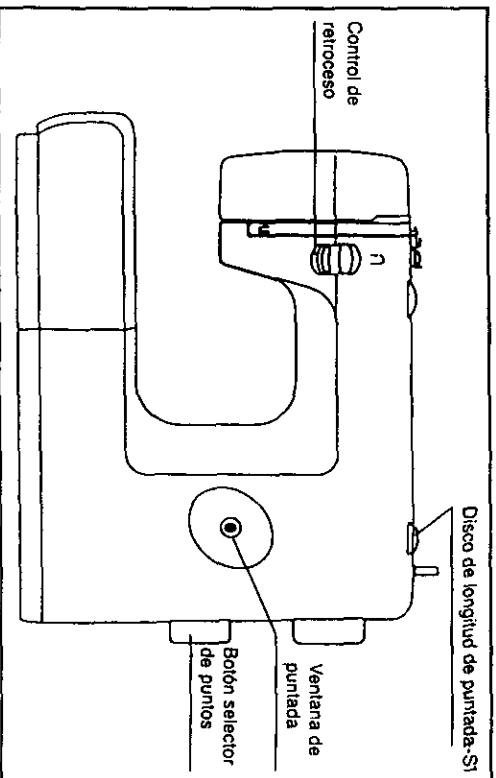


Girar el botón selector de puntos de manera que el indicador se haya fijado en la posición de la puntada recta.

Norma de orientación: Cuando más fuerte es el tejido tanto más grueso tiene que ser el hilo y la aguja y tanto más largo el punto.



Punto derecha
Izquierda posición



□ Zig zag sewing / Zig zag

Turn the pattern selector dial so that the stitch display shows "C"-zig-zag. Turning the pattern selector dial will increase or decrease the zig zag width (illustration 1)

Function of stitch length dial while zigzagging

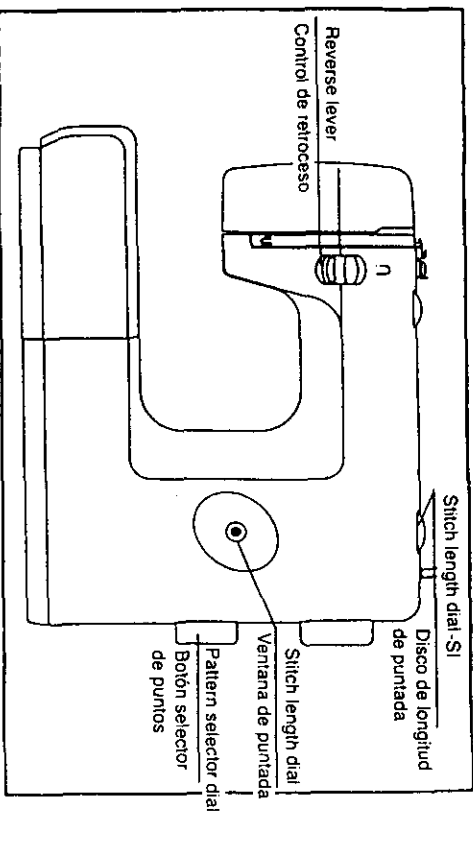
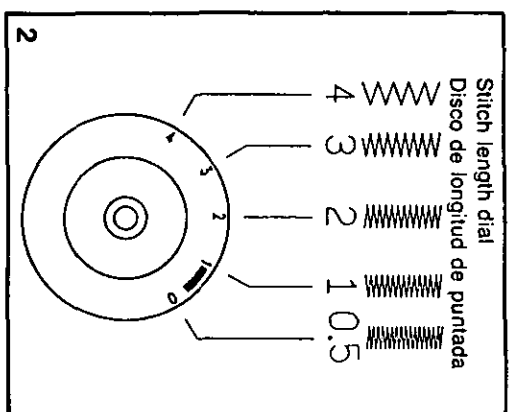
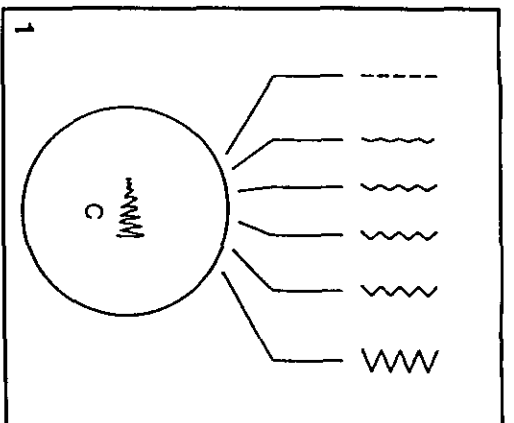
The density of zigzag stitches increases as the setting of stitch length dial approaches "0". (Illustration 2)
Neat zigzag stitches are usually achieved at "2.5" or below (2)

Satin stitch

When the stitch length is set between 0-1, the stitches are very close together producing the "satin stitch" which is used for making buttonholes and decorative stitches.

Cose la puntada de zigzag

Puntada de zigzag manual tienen tres postura diferentes, éstos envuelven la postura del disco del ancho de la costura y la longitud de la costura manual.



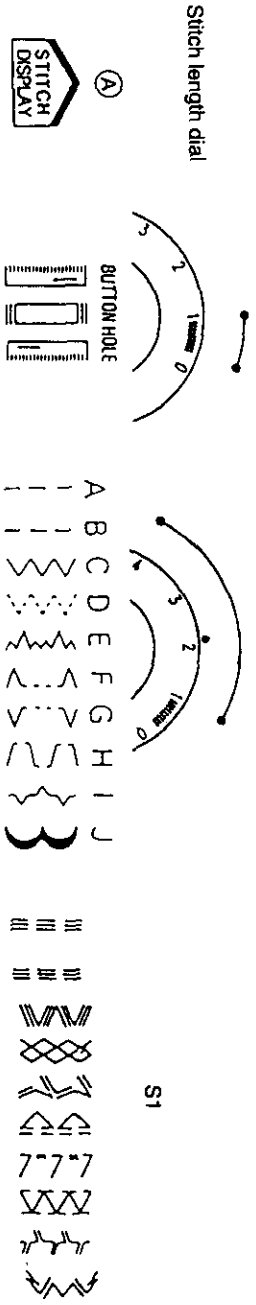
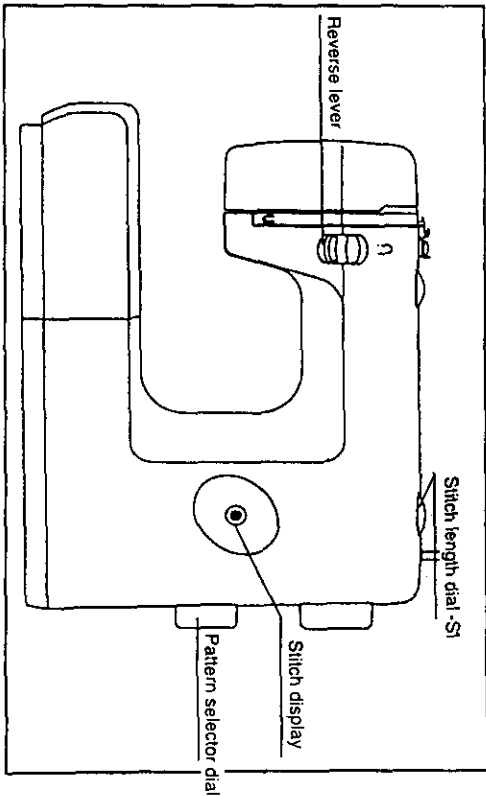
□ HOW TO CHOOSE YOUR PATTERNS

For straight stitch center position select pattern "A" with pattern selector dial. Adjust the stitch length with the stitch length dial. For straight stitch (right position) select pattern "B" with pattern selector dial.

For reinforced straight stitch, turn stitch length dial to position "S1".

To obtain any of the patterns shown as utility or decorative stitches on the stitch selection panel (color coded green and orange), select the corresponding letter with the pattern selector dial. Adjust the stitch length as required using the stitch length dial.

To obtain any of the stretch stitches (color coded red), turn the stitch length dial to "S1", select the desired pattern with the pattern selector dial.



□ Sewing on buttons / Coser botones

Install the darning plate as illustrated (Fig. 1).

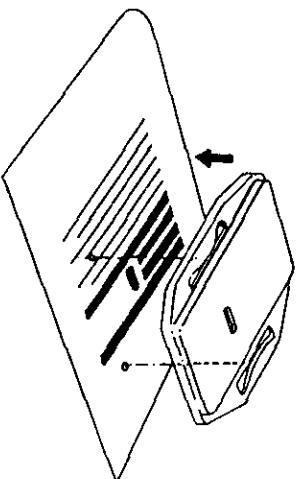
Position the work under the foot. Place the button on the marked position and lower the foot. Set the pattern selector knob on **B**, and sew a few securing stitches. Select the zig-zag stitch width according to the distance between the two holes of the button. Turn the handwheel to check if the needle goes into the right and the left hole of the button without any obstruction (adjust the stitch width according to the button). Slowly sew on the button with about 10 stitches. Select pattern **B** and sew a few securing stitches.

If a shank is required, place a darning needle on top of the button and sew (Fig. 3). For buttons with 4 holes, sew through the front two holes first (Fig. 2). Push work forward and then sew through the back two holes as described (Fig. 3).

Install the zurcida plancha (1).

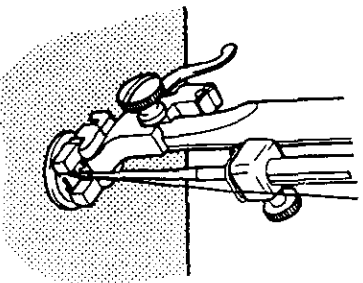
Poner la labor debajo del pie. Colocar el botón en el sitio marcado. Bajar el pie. Y coser primero unos puntos de remate. Regular el ancho de la puntada. Hacer un punto de prueba dándole al volante con la mano, hasta que la aguja entre exactamente en el agujero (según el botón puede variar el ancho de la puntada). Coser el botón. Y hacer algunos puntos de remate.

Para coser un botón que quede separado del tejido (con cuello), colocar una aguja sobre el botón y coser por encima de ella. (3) En caso de botones con 4 agujeros, empezar siempre con los dos anteriores (2), después correr el cosido hacia adelante y continuar el trabajo como indicado anteriormente. (3)

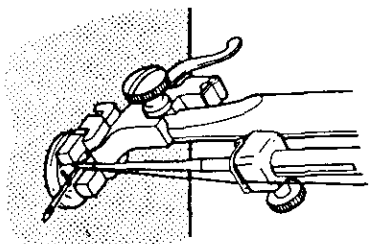


Button foot

1



2



3

□ How to sew buttonholes

Preparation:

Remove the zigzag foot and attach the buttonhole foot.
Adjust the stitch length dial between 0.5*1. The density of the stitch depends on thickness of the fabric.

Note: Always test sew a buttonhole.





To prepare the fabric:

Measure the diameter of the button and add 0.3 cm (1/8") for the bartacks. If you have a very thick button, and more to the diameter measurement. Mark the position and length of the buttonhole on the fabric.

Position the fabric so that the needle is on the mark that is furthest from you.

Pull the buttonhole foot towards you as far as it will go.

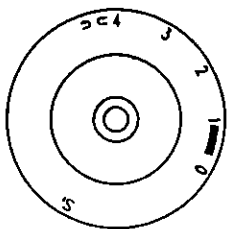
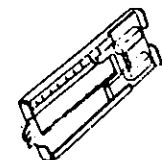
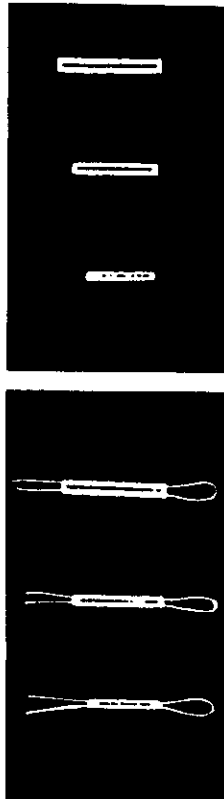
Lower the foot.

1. Turn the pattern selector dial to . Sew at moderate speed until you reach the end mark.
2. Turn the pattern selector dial to  and sew 5 - 6 bartack stitches.
3. Turn the pattern selector dial to  and sew the left side of the buttonhole to the mark at the end which is further from you.
4. Turn the pattern selector dial to  and sew bartack stitches.

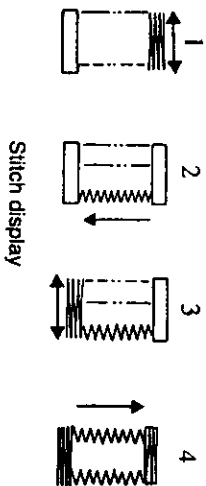
Remove the fabric from under the foot. Draw the upper thread through the backside of the fabric and knot upper and lower threads. Cut the center of the buttonhole with the seam ripper, being careful not to cut the stitches on either side.

Tips:

- Slightly reduce upper thread tension to produce better results.
- Use backing material for fine and stretchy fabrics.
- It is advisable to use a gimp cord for stretch or knit fabrics. The zigzag should sew over the gimp.



Stitch length dial



Zippers and piping / Colocación de cremalleras

Set the pattern selector dial to straight stitch center needle position as shown in Fig. 1.

Set stitch length control between 1-4 (according to thickness of fabric).

The zipper foot can be inserted to the right or left, depending on which side of the zipper you want to sew (Fig. 2).

To sew past the zipper pull, lower the needle into the fabric, raise the presser foot and push the zipper pull behind the presser foot. Lower the foot and continue to sew.

It is also possible to use the zipper foot to sew piping into a bias strip to form a welt (Fig. 3).

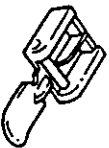
Regular la máquina según la ilustración. (1)

Con el pie para cremalleras se puede coser por la derecha o por la izquierda. (2)

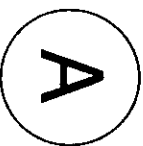
Para evitar el cursor de la cremallera, clavar la aguja en el tejido, levantar el pie y correr el cursor de la cremallera por debajo del pie. Bajar el pie y continuar a coser. (3)

La prensatela para cremallera también puede utilizar para coser el cierre de cuerda.

Zipper foot
Pie para crem alleras



Stitch display
Ventana de puntada



Stitch length dial
Disco de longitud de puntada

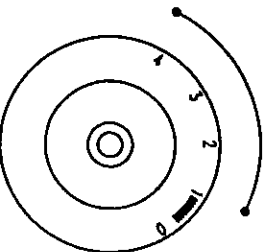
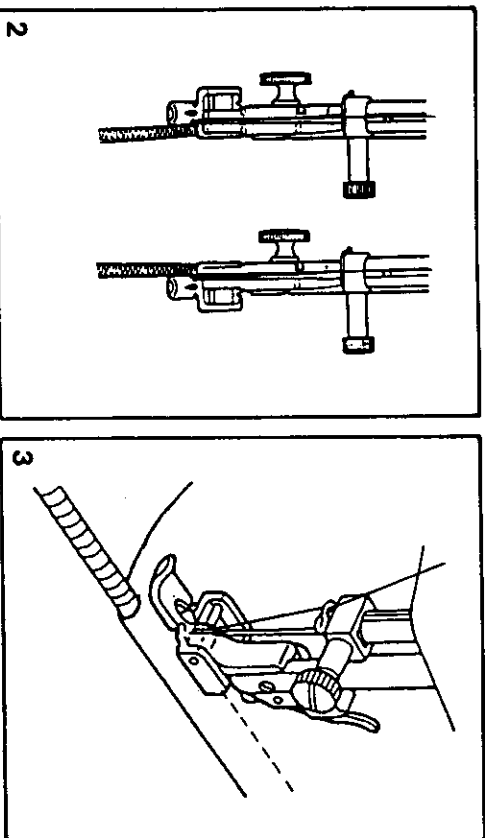
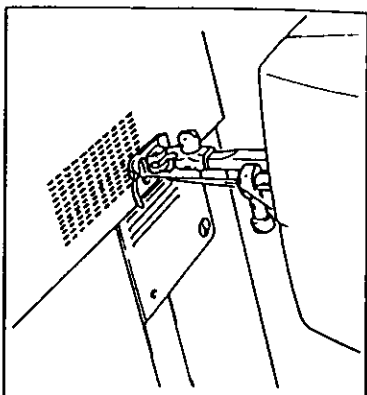


Fig. 1



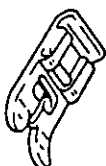
□ Darning / Remiendos



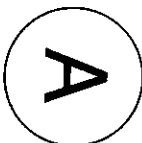
- Turn stitch length dial to the desired length.
- Turn stitch selector to straight stitch, center needle position.
- Position the fabric to be darned under the presser foot together with the under-laying fabric to be used.
- Lower the presser foot and alternately sew forward or reverse using the lever.
- Repeat this motion until the area to be darned is filled with rows of stitching.

For reverse sewing instructions, see page 16.

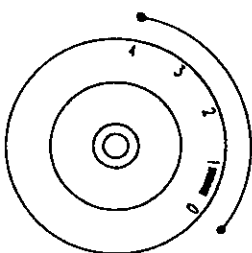
All purpose foot/
Pie universal



Stitch display
Ventana de puntada



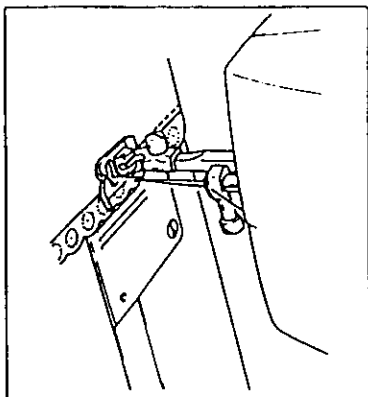
Stitch length dial/
Disco de longitud de puntada



- Regular la máquina según la ilustración.
 1. Coloque la parte que va a remendar bajo el pisacostura.
 2. Baje el pisacostura.
 3. Cosa alternadamente hacia adelante y hacia atrás presionando el botón para coser hacia atrás tal como se indica en la figura.
 4. Repita esta procedimiento hasta que la parte que va a zurcir esté llena de hileras de puntadas.

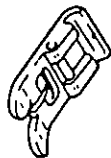
Para coser hacia atrás, vea página 16.

□ Attaching lace/Como pegar encajes

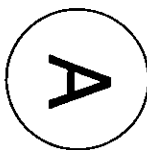


- Turn stitch length dial to the desired length.
- Turn the stitch selector to straight stitch, center needle position.
- Fold in the edge of the fabric (approximately 6 mm 1/4").
- Place the lace under the folded edge of the fabric allowing it to underlap the fabric slightly as required by the pattern of the lace.
- Sew on the edge of the fabric fold.
- You can add a decorative touch by using the satin stitch to sew the lace.

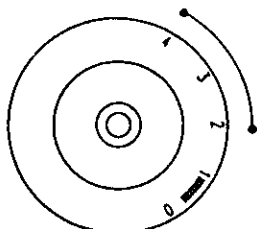
All purpose foot/
Pie universal



Stitch display
Ventana de puntada



Stitch length dial/
Disco de longitud de puntada



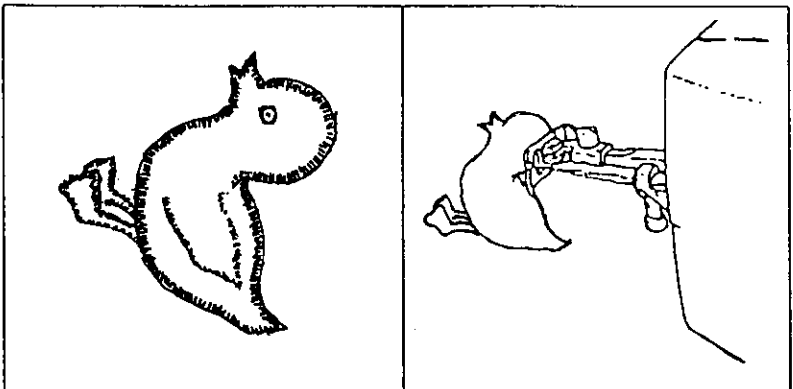
- Regular la máquina seeún la ilustración.

1. Ponga el encaje abajo de la tela dejando la sobrar 5 mm (1/5 pulgada).
2. Ponga abajo el pisacostura y emiece a coser.

NOTA:

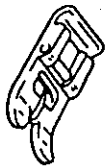
Si se usa puntada de realce para coser el encaje, será más atractivo.

□ Appliqué/ Aplicación

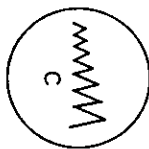


- Turn stitch length dial to the desired length.
- Turn pattern selector dial to small zig zag width.
- Cut out the appliqué design and baste it to the fabric.
- Sew slowly around the edge of the design.
- Trim excess material outside the stitching. Make sure not to cut any stitches.
- Remove the basting thread.
- Tie the top and bottom thread under the appliqué to avoid unraveling.

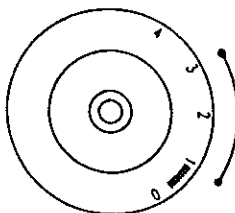
All purpose foot/
Pie universal



Stitch display
Ventana de puntada



Stitch length dial
Disco de longitud de puntada

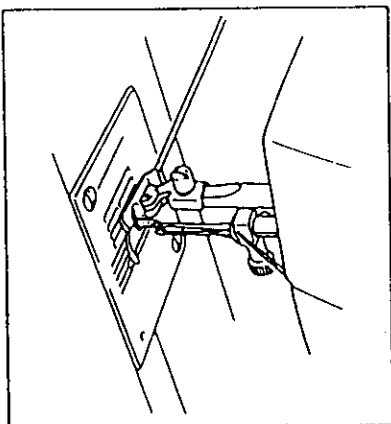


- Regular la máquina según la ilustración.
 - Estre char el amplitud de puntada de zig zag.
1. Hílvane el diseño sobre la superficie de la tela.
 2. Empezar a coser con cuidado según el diseño.
 3. Recorte la tela que rebasa la costura.
 4. Saque las puntadas de hílvana.

NOTA:

Vuelva a coser las puntadas finales e iniciales con puntada recta para reforzar.

□ Twin needle

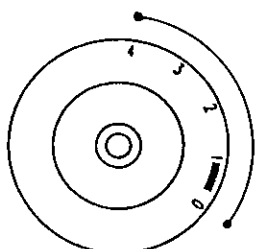


- Turn stitch length dial to the desired stitch length.
- Turn stitch selector to straight stitch, center needle position.
- For twin needle sewing, insert the extra spool pin (included with the accessories) into the hole on top of the machine. See pages 4 and 23.
- Make sure that the two threads used to thread the twin needle are of the same weight. You can use one or two colors.

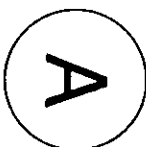
All purpose foot



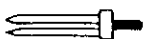
Stitch length dial



Stitch display



Twin needle



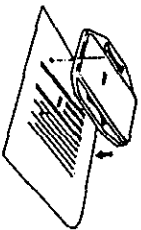
- Insert the twin needle in the same way as single needle. Flat side of needle should face away from you.
- Follow instructions for single needle threading (see page 13). Thread each needle separately.

please Note:

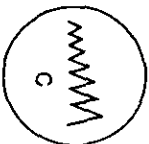
When sewing with twin needle, always proceed slowly, and make sure to maintain a low speed to insure quality stitching.

☐ Monogramming and embroidering with embroidery hoop*

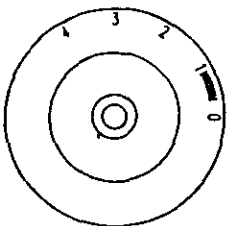
Darning plate



Stitch display



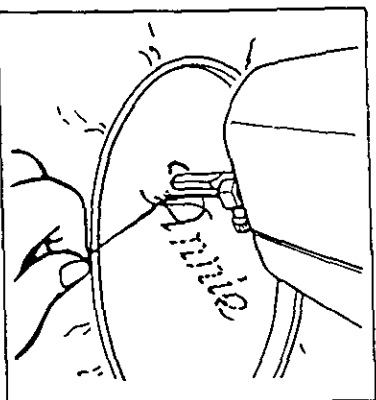
Stitch length dial



- Set the machine as illustrated above.
- Remove the presser foot and the presser foot holder.
- Attach the darning plate.
- Lower presser foot lever before starting to sew.
- Adjust the stitch width according to the size of lettering or design.

Preparation for Monogramming and Embroidering*

- Draw the desired lettering or design on the right side of the fabric.
- Stretch the fabric between embroidery hoop as firmly as possible.
- Place the fabric under the needle. Make sure the presser foot bar is down in its lowest position.
- Turn the balance wheel towards you to bring up the lower thread through the fabric. Sew a few securing stitches at the starting point.
- Hold the hoop with thumb and forefingers of both hands while pressing the material with the middle and third fingers and supporting the outside of hoop with smaller finger.

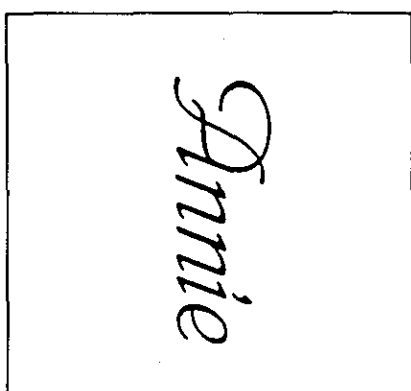
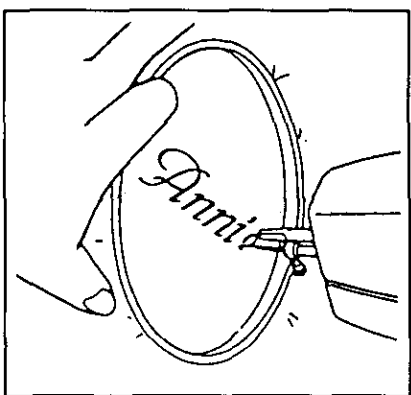


* Embroidery hoop not included with machine.

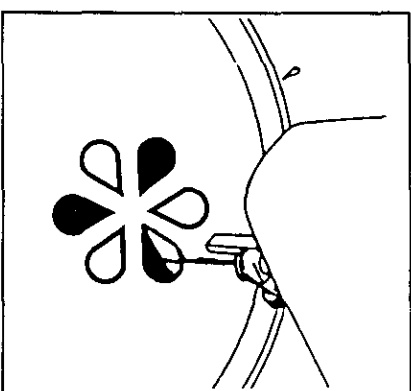
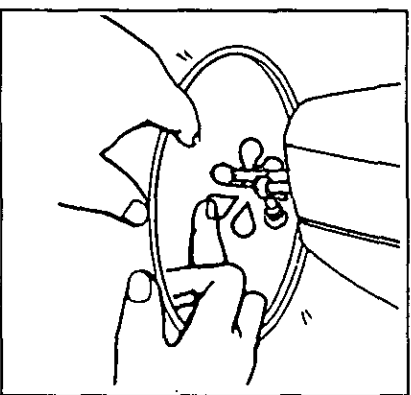
□ Monogramming and embroidering (continued)

Monogramming

- Sew, moving the hoop slowly along the lettering. Make sure you maintain a constant speed.
- When the letter is finished, secure the threads with a few straight stitches.



- ### Embroidering
- Stitch along the outline of the design by moving embroidery hoop. Make sure to maintain a constant speed.
 - Fill in the design working from the outline towards the inside. Keep the stitches close together. You will get longer stitches by moving the hoop faster and shorter stitches by moving the hoop more slowly.



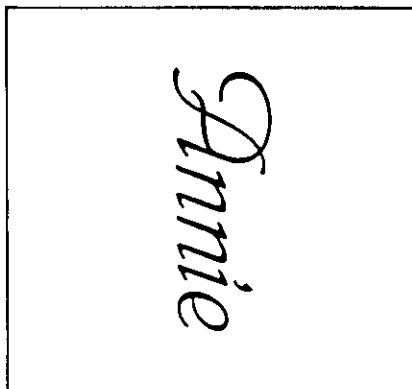
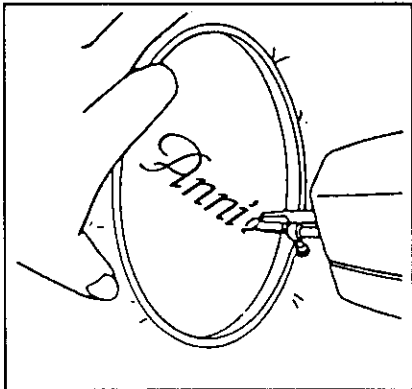
Monogramas y bordados (continúe)

MONOGRAMAS

1. Cosa, moviendo el aro despacio por las letras a una velocidad constante.
2. Asegúre con unas pocas puntadas rectas.

NOTA:

Estas instrucciones también se aplican para bordados.

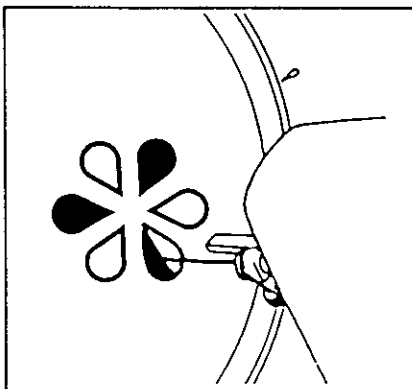
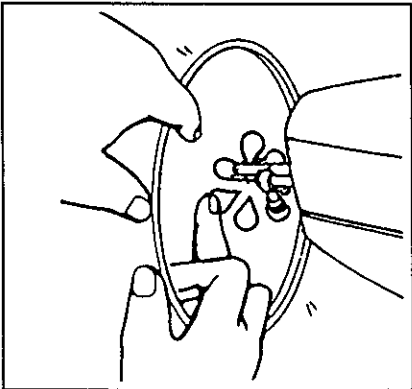


BORDADOS

1. Cosa unas puntadas en la orilla del diseño moviendo el bastidor de bordar.
2. Cosa de afuera hacia adentro y de adentro hacia afuera. Haga las puntadas bien unidas sin dejar espacios intermedios.

NOTA:




Para coser puntadas largas, mueva el bastidor de bordar rápidamente. Para coser puntadas cortas, muévelo lentamente.



Overlock stitches/Puntos overlock

Seams, neatening, visible hems.
Turn stitch length dial to "S1".

Stitch length dial
Disco de longitud de puntada

- Standard overlock**  Position "F" on selection dial.
For fine knits, jerseys, neck edges, ribbing.
 - Double overlock stitch**  Position "H" on selection dial.
For fine knits, handknits, seams.
 - Stretch overlock**  Position "G" on selection dial.
For fine knits, jerseys, neck edges, ribbing.
- All overlock stitches are suitable for sewing and neatening edges and visible seams in one operation.


When neatening, the needle should just go over the edge of the fabric.

Attention:
Use new needles or ball point needles! or stretch needle!

Todos los puntos overlock son adecuados para coser y sobrehilar bordes y dobladillos visibles en una sola fase de trabajo.

En el sobrehilado la aguja tiene que apenas sobrepasar el borde de la ropa.

Atención:
Usar una aguja nueva o una aguja con punta esférica!

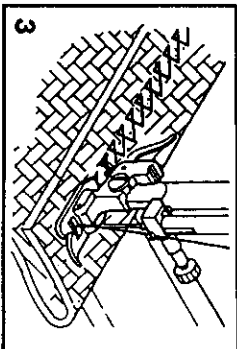
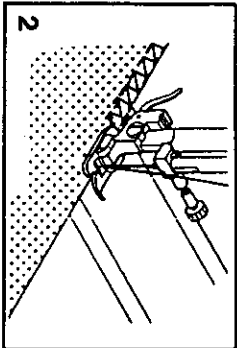
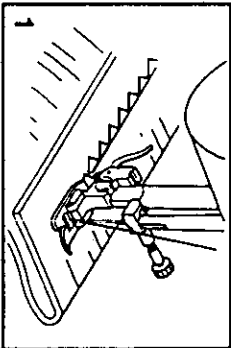
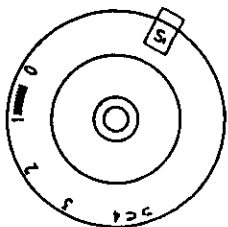
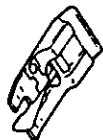
Overlock Standardizado  "F"
Para géneros de punto finos, partes de punto hechas a mano, costuras overlock.

Overlock doble  "H"

Para géneros de punto finos, escotes, puños.

Overlock elástico  "G"

Para terminar dobladillos, costuras decorativas. Adecuado para dobladillos y costuras decorativas en materiales elásticos.



Blind hem/fingerie stitch/Costura invisible/punto de lencería

For hems, curtains, trousers, skirts, etc.

~~~~~ Blind hem for stretch fabrics. position "E" on selection dial.

^...^ Blind hem/fingerie for firm fabrics. position "F" on selection dial.

Set the machine as illustrated: (1)

**Note:**

It takes practice to sew blind hems. Always make a sewing test first.

Fold the fabric as illustrated with the wrong side uppermost. (2)

Place the fabric under the foot. Turn the handwheel forwards by hand until the needle swings fully to the left. It should just pierce the fold of the fabric. If it does not, adjust the stitch width accordingly. (3)

Adjust the guide (4) by turning the knob (5) so that the guide just rests against the fold.

Sew slowly, guiding the fabric carefully along the edge of the guide.

Turn the speed control to Minimum!

Para dobladillos, cortinas, pantalones, faldas, etc.

~~~~~ Costura invisible para tejidos elásticos

^...^ Costura invisible/punto de lencería para tejidos fuertes

Regular la máquina según la ilustración. (1)

Atención:

Se necesita un poco de práctica para que la costura invisible salga bien. Lo mejor es hacer siempre antes una prueba.

Doblar la ropa como en la ilustración con el revés hacia arriba. (2)

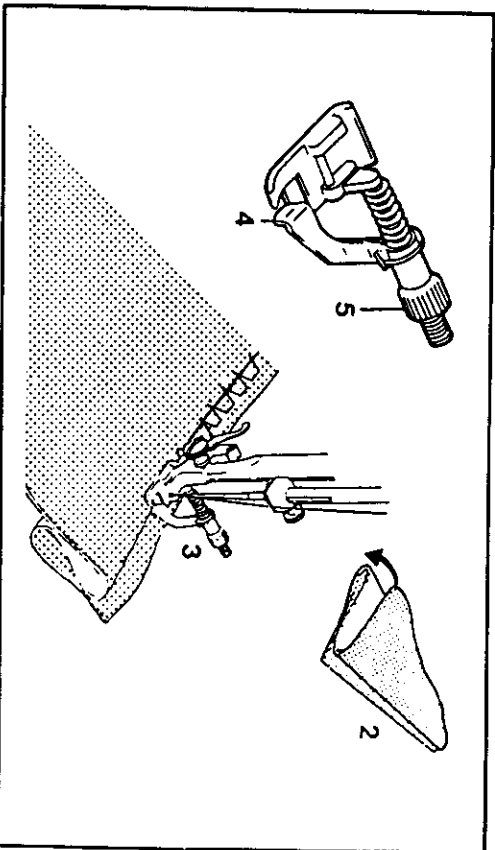
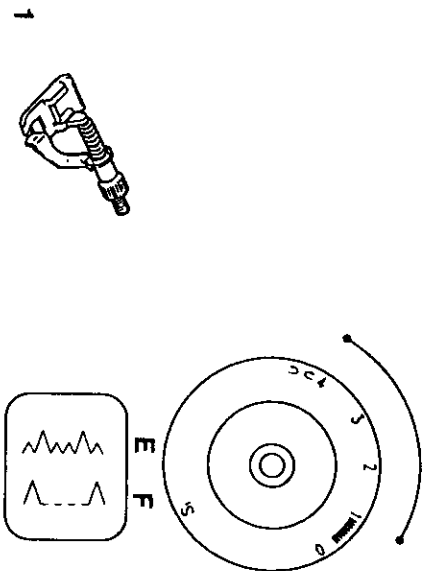
Poner la ropa doblada debajo del pie. Girar el volante a mano hacia adelante hasta que la aguja se encuentre al extremo izquierdo. La aguja tiene que picar sólo un poco en el pliegue de la ropa. Si no es el caso, entonces hay que corregir la anchura de la ropa. (3)

Poner la regla de borde (4) en el pliegue girando el botón. (5)

Coser lentamente y guiar la ropa cuidadosamente para que la regla de borde no cambie su posición.

Ajustar el botón regulador de la velocidad al mínimo.

Stitch length dial
Disco de longitud de puntada



3-step zig-zag/Zig-zag costido

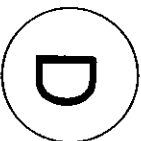
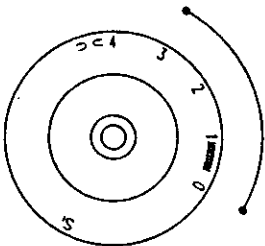
Sewing on lace and elastic, darning, mending, reinforcing edges.

Set the machine as illustrated. (1) Pattern selector on **D**

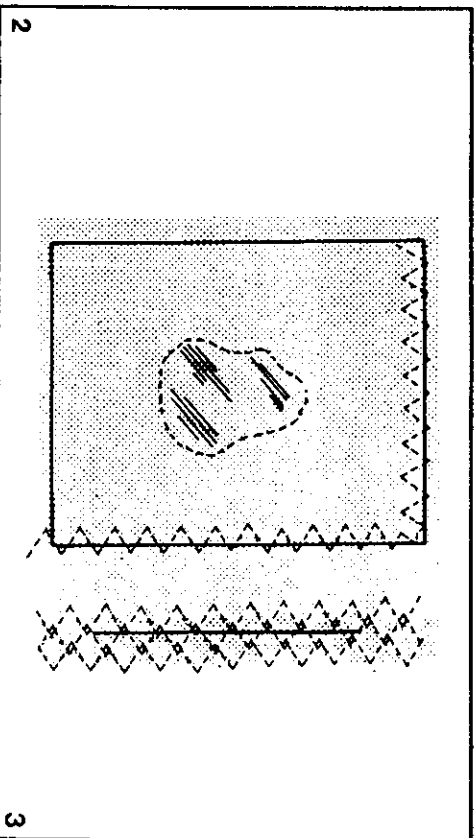
Place patch in position. The stitch length can be shortened to produce very close stitches. (2)

When mending tears, it is advisable to use a piece of backing fabric to reinforce. The stitch density can be varied by adjusting the stitch length. First sew over the centre and then overlap on both sides. Depending on the type of fabric and damage, sew between 3 and 5 rows. (3)

Stitch length dial
Disco de longitud de puntada



1



2

3

Para aplicar elásticos y puntillas, colocar remiendos, remendar rasgones, reforzar los bordes.

Regular la máquina según la ilustración. (1)

Aplicar el remiendo. El largo de la puntada puede reducirse hasta que los puntos estén bien juntos. (2)

Cuando se remendan rasgones es aconsejable poner debajo de la labor un tejido (refuerzo). El espesor de los puntos se puede variar cambiando el largo de la puntada. Primero coser en el centro y después sobrepasar un poco los dos lados. Según el tejido y el daño coser de 3 a 5 filas. (3)

Sewing with the Hemmer foot/Coser con el pie dobladillo

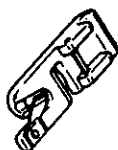
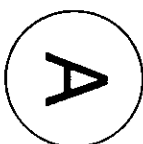
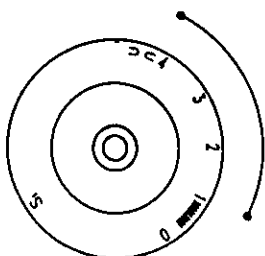
For hems in fine or sheer fabrics.

Set the machine as illustrated. (1) Pattern selector on "A"

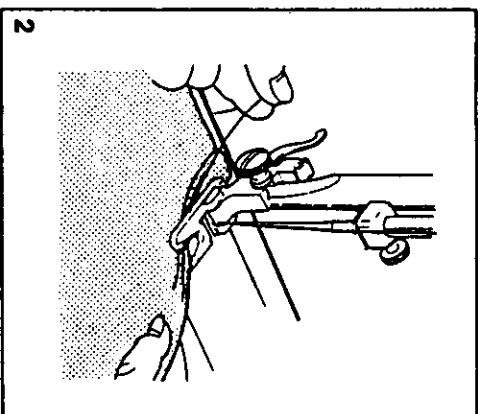
Neaten the edge of the fabric. At the beginning of the hem, turn under the edge twice by about 3 mm (1/8") and sew 4-5 stitches to secure. Pull the thread slightly towards the back. Insert the needle into the fabric, raise the presser foot and guide the fold into the scroll on the foot. (2)

Gently pull the fabric edge towards you and lower the presser foot. Begin sewing, guiding the fabric into the scroll by holding it upright and slightly to the left. (3)

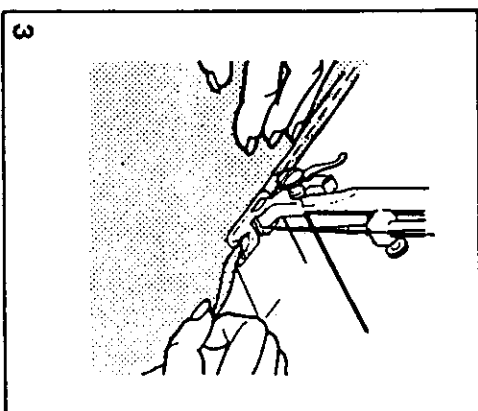
Stitch length dial
Disco de longitud de puntada



1



2



3

Para hacer dobladillos en tejidos finos y ligeros.

Regular la máquina según la ilustración. (1)

El borde que va a ser trabajado tiene que estar cortado exactamente recto. Primero pliegue dos veces el borde del tejido unos 3 mm y fíjalo con 4-5 puntos. Tire los hilos un poco hacia atrás. Clavar la aguja en el tejido y levantar el pie. Tire del canto del pliegue y dejarlo deslizar en la concha del dobladillo. (2)

Continuar a coser dejando entrar uniformemente el tejido en la concha del dobladillo. (3)

□ Stitch selection/Elección del punto

Triple straight stitch: (1/3) Pattern selector on (A) or (B)

For hardwearing seams.

Turn the stitch length dial to "S1"

The machine sews two stitches forwards and one stitch backwards. This gives triple reinforcement.

Triple zig-zag: (2/4) -Pattern selector on (C)

For hardwearing seams, hems and decorative seams.

Turn the stitch length dial to "S1"

Triple zig-zag is suitable for firm fabrics like denim, corduroy, etc.

Punto recto triple: (1/3)

Para costuras muy resistentes.

Ajustar el botón selector del largo de la puntada en la posición "S1"

La máquina cose dos puntos hacia adelante y un punto hacia atrás lo que por resultado un refuerzo triple.

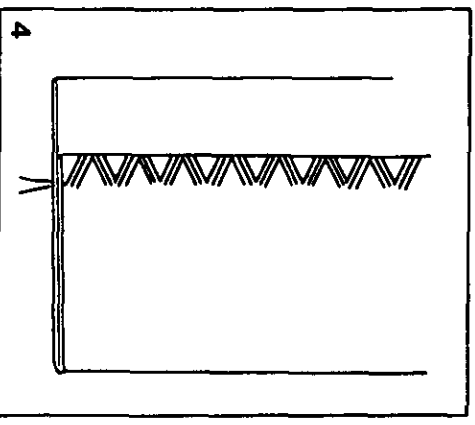
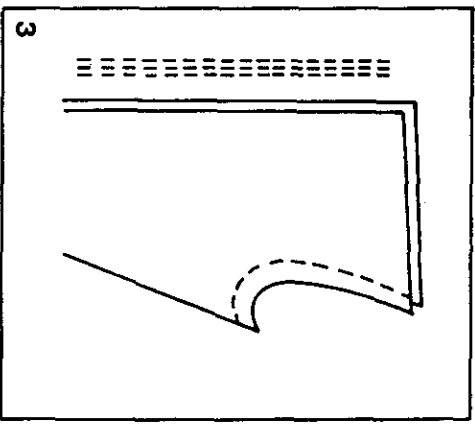
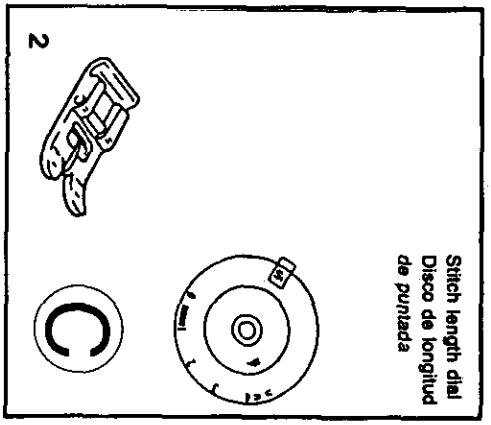
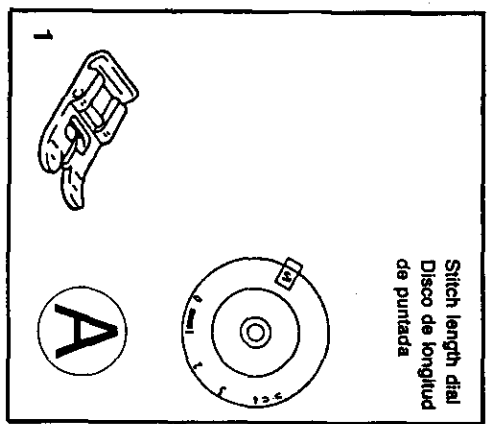
Zig-zag triple: (2/4)

Para costuras muy resistentes, dobladillos y costuras decorativas.

Ajustar el botón selector del largo de la puntada en la posición "S1"

Regular el botón selector del ancho de la puntada entre 3 y 5.

El zig-zag triple es adecuado para telas fuertes como tejados, pana, etc.



Smocking stitch/Punto de nido de abeja

Seams, hems, T-shirts, underwear, etc.

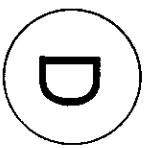
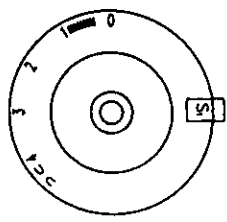
Set the machine as illustrated. (1)

This stitch can be used for all types of jersey as well as for woven fabrics. (2)

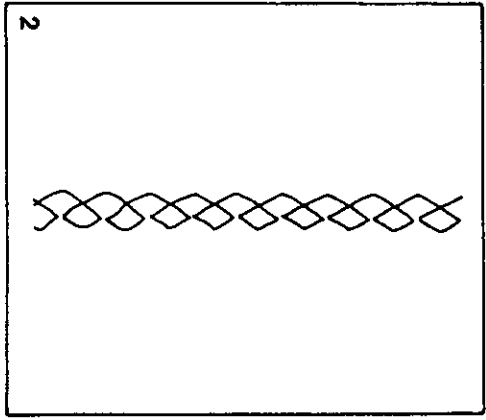
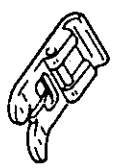
Sew at 1 cm (1/4") from the fabric edge and trim the surplus fabric. (3)

Pattern selector on **D** stitch length on S1

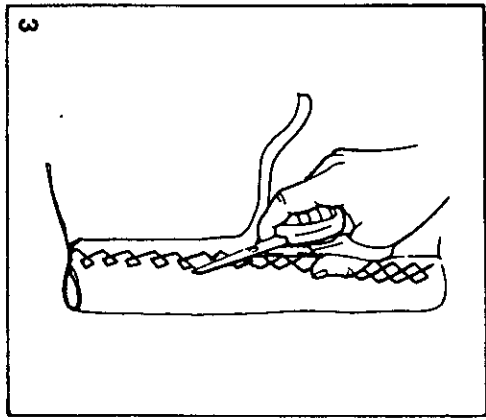
Stitch length dial
Disco de longitud de puntada



1



2



3

40

Costuras, dobladillos, T-shirts (jerseys), ropa interior, etc.

Regular la máquina según la ilustración (1). Este punto puede utilizarse para diversos tipos de jerseys (géneros de punto) como también en otros tejidos. (2)

Coser el dobladillo a 1 cm de distancia del borde y después cortar la ropa restante. (3)

Sewing with the Cording foot/Coser con el pie cordoncillo

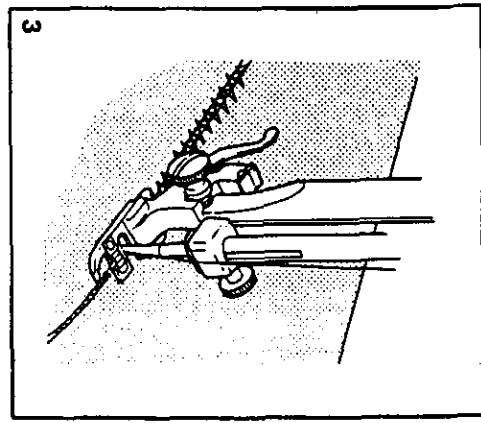
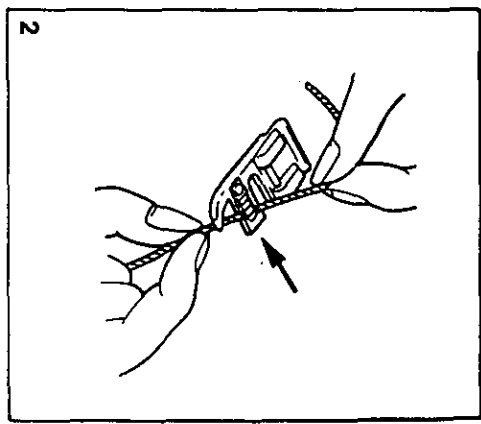
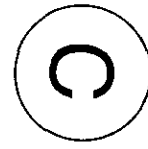
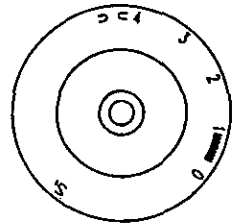
Decorative effects, cushions, tablecloths, etc.

Set the machine as illustrated. Various stitches are suitable for sewing on cord, e.g. Zig-zag, Triple zig-zag, decorative stitches. (1)

Insert the cord between the spring covering the cord groove and the foot. The cord should run in the groove. One, two or three cords can be sewn on. The stitch width is adjusted according to the number of cords and the stitch selected. (2/3)

Set pattern selector on **C**

Stitch length dial
Disco de longitud de puntada



Decoraciones, cojines, mantiles, etc. Regular la máquina según la ilustración. Se pueden utilizar diversos puntos para sobrecoser el cordoncillo, como por ejemplo el zig-zag, zig-zag triple, puntos decorativos, etc. (1)

Meter los hilos en el muelle de guía y hacerlos pasar por debajo del pie hacia atrás. Los hilos tienen que estar dentro de las ranuras prestar atención al grosor del cordoncillo. Se pueden coser uno, dos o tres hilos. El ancho de la puntada varía según el número de los hilos y del punto escogido. (2/3)

Darning/Zurcir

Set the machine as illustrated (1). Install the darning plate (2).

Remove the presser foot clamp. (3)

Attach the Darning foot to the presser foot holder. The lever "A" should be behind the needle clamp screw "B". Press the Darning foot on firmly from behind with your index finger and tighten the screw "C". (4)

First sew round the edge of the hole (to secure the threads). (5) First row: Always work from left to right. Turn work by 1/4 and oversew.

A darning ring is recommended for easier sewing and better results.

Set pattern selector on "A"

Regular la máquina según la ilustración (1). Instalar la zurcida plancha (2).

Quitar el porta-pie. (3)

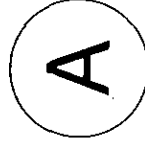
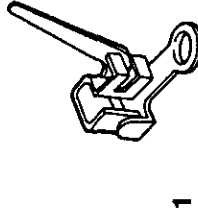
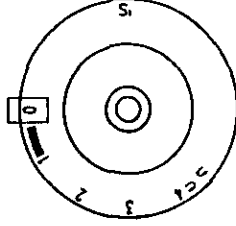
Fijar el pie para zurcir en la barra prensatelas. La plancha "A" tiene que estar detrás, sobre el tornillo del porta-agujas "B". Apretar enérgicamente con el índice contra la parte posterior del pie para zurcir y atornillar el tornillo "C". (4)

Primero coser alrededor del agujero (para asegurar los puntos). (5)

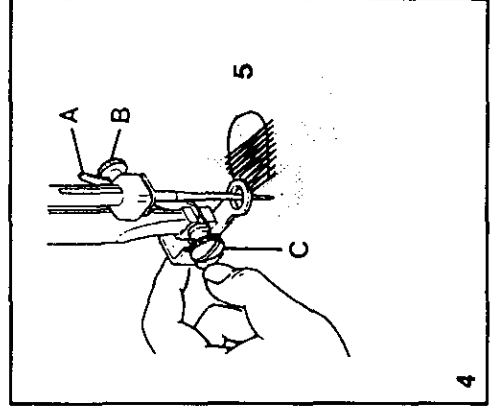
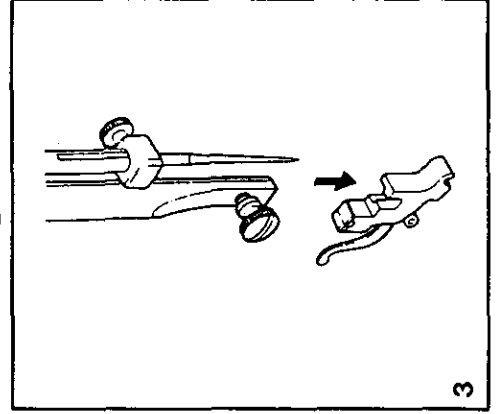
Primera serie: trabajar siempre de izquierda a derecha. Girar el trabajo de 1/4 y recubrir.

Para obtener un mejor resultado recomendamos un bastidor.

Sitch length dial
Disco de longitud de puntada



2



4

3

□ **Practical stitches/Puntos útiles**

Set the machine as illustrated.

Turn the switch width dial and stitch length dial to the same colour code and adjust to suit the fabric.

Shell hem "A" Pattern selector on "G"

For decorative edges.

Suitable for edges on sheer, fine and stretch fabrics. The larger stitch should go just over the edge of the fabric to create the shell effect.

Bridging "B" Pattern selector on "J"

For seams, place mats, tablecloths.

Decorative joining seam for a fagotted effect. Gathering with cord or shirring elastic.

Rampart "C" Pattern selector on "H"

For flat joining seams, sewing on elastic, visible hems.

This stitch can be used for firm, thicker fabrics.

Regular la máquina según la ilustración. Ajustar los botones selectores del ancho y del largo de la puntada al mismo código de color. El ancho y el largo del punto pueden adaptarse al tejido.

Punto para dobladillo de concha A

Para acabados decorativos de los bordes.

Adecuado para acabados en tejidos finos, fuertes y elásticos. El punto largo tiene que apenas sobrepasar el borde del tejido para obtener el efecto de concha.

Punto de frunce B

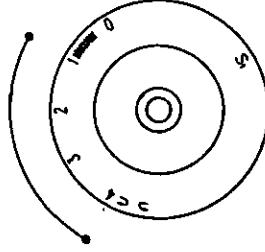
Para dobladillos, sets, manteles.

Punto muy decorativo de unión con efecto de dobladillo hueco. Enfilarse con hilo de cordón o elástico.

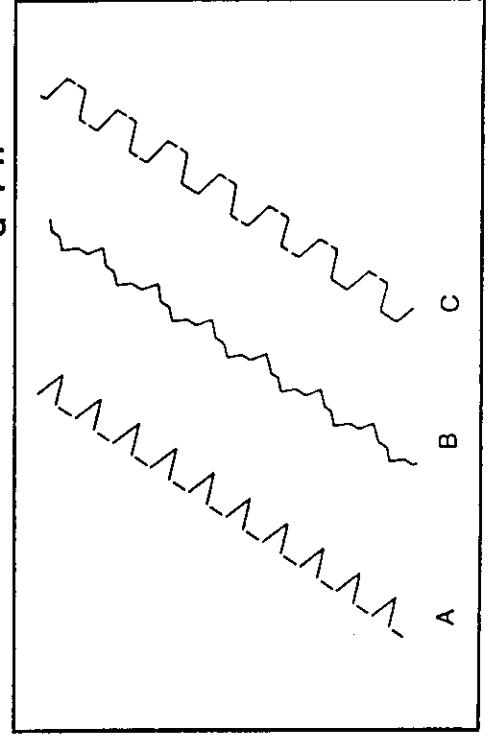
Punto universal C

Para costura lisa de unión, coser elásticos, dobladillos visibles. Este punto es adecuado para diversos tejidos fuertes y géneros de punto.

Stitch length dial
Disco de longitud de puntada



G
H
I

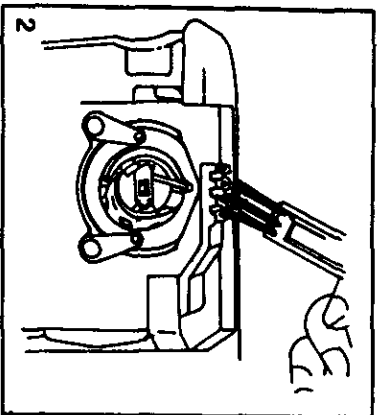
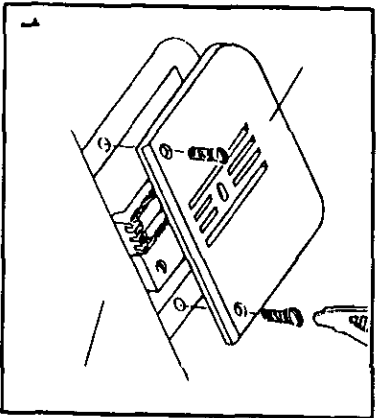


□ Maintenance

Caution: Always make sure that the machine is unplugged from power source and the main switch is on "off" (0) before inserting or removing any parts and before cleaning.

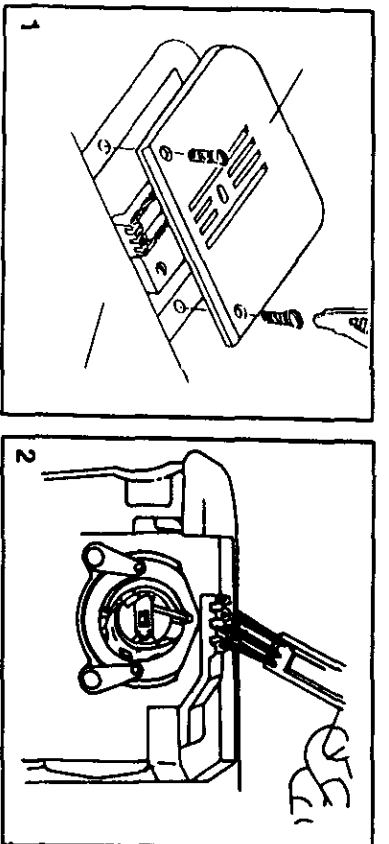
Remove the stitch plate:

Turn the handwheel until the needle is fully raised. Open the hinged front cover and unscrew the needle plate screw with the screw driver (Fig. 1).



1

2

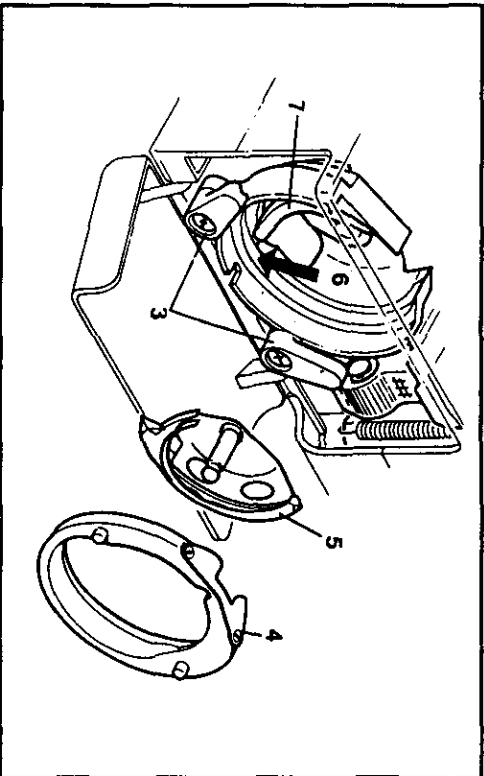


Cleaning the feed dog:
Remove the bobbin case and use the brush supplied to clean the whole area (Fig. 2).

Cleaning and lubricating the hook:

Remove the bobbin case. Snap the two hook retaining arms "3" outwards. Remove the hook race cover "4" and the hook "5" and clean with a soft cloth. Lubricate at point "6" (1-2 drops) with sewing machine oil. Turn the handwheel until the hook race "7" is in the left position. Replace the hook "5". Replace the hook race cover and snap back the two hook retaining arms. Insert the bobbin case and bobbin and replace the stitch plate.

Important: Fabric fluff and threads must be removed regularly. Your machine should be serviced at regular intervals at one of our service agencies.



□ Trouble shooting guide

| Problem | Cause | Correction |
|------------------------------|--|---|
| Upper thread breaks | <ol style="list-style-type: none">1. The machine is not threaded correctly2. The thread tension is too tight3. The thread is too thick for the needle4. The needle is not inserted correctly5. The thread is round wound the spool holder pin6. The needle is damaged | <ol style="list-style-type: none">1. Rethread the machine2. Reduce the thread tension (lower number)3. Select a larger needle4. Remove and reinsert the needle (flat side towards the back)5. Remove the reel and wind thread onto reel6. Replace the needle |
| Lower thread breaks | <ol style="list-style-type: none">1. The bobbin case is not inserted correctly2. The bobbin case is threaded wrongly3. The lower thread tension is too tight | <ol style="list-style-type: none">1. Remove and reinsert the bobbin case and pull on the thread. The thread should pull easily2. Check both bobbin and bobbin case3. Loosen lower thread tension as described |
| Skipped stitches | <ol style="list-style-type: none">1. The needle is not inserted correctly2. The needle is damaged3. The wrong size needle has been used4. The foot is not attached correctly | <ol style="list-style-type: none">1. Remove and reinsert needle (flat side towards the back)2. Insert a new needle3. Choose a needle to suit the thread and fabric4. Check and attach correctly |
| Needle breaks | <ol style="list-style-type: none">1. The needle is damaged.2. The needle is not correctly inserted3. Wrong needle size for the fabric4. The wrong foot is attached | <ol style="list-style-type: none">1. Insert a new needle2. Insert the needle correctly (flat side towards the back)3. Choose a needle to suit the thread and fabric4. Select the correct foot |
| Loose stitches | <ol style="list-style-type: none">1. The machine is not correctly threaded2. The bobbin case is not correctly threaded3. Needle/fabric/thread combination is wrong4. Thread tension wrong | <ol style="list-style-type: none">1. Check the threading2. Thread the bobbin case as illustrated3. The needle size must suit the fabric and thread4. Correct the thread tension |
| Seams gather or pucker | <ol style="list-style-type: none">1. The needle is too thick for the fabric2. The stitch length is wrongly adjusted3. The thread tension is too tight | <ol style="list-style-type: none">1. Select a finer needle2. Readjust the stitch length3. Loosen the thread tension |
| Uneven stitches, uneven feed | <ol style="list-style-type: none">1. Poor quality thread2. The bobbin case is wrongly threaded3. Fabric has been pulled | <ol style="list-style-type: none">1. Select a better quality thread2. Remove bobbin case and rethread and insert correctly3. Do not pull on the fabric while sewing, let it be taken up by the machine |
| The machine is noisy | <ol style="list-style-type: none">1. The machine must be lubricated2. Fluff or oil have collected on the hook or needle bar3. Poor quality oil has been used4. The needle is damaged | <ol style="list-style-type: none">1. Lubricate as described2. Clean the hook and feed dog as described3. Only use good quality sewing machine oil4. Replace the needle |
| The machine jams | <ol style="list-style-type: none">1. Thread is caught in the hook | <ol style="list-style-type: none">1. Remove the upper thread and bobbin case, turn the handwheel backwards and forwards by hand and remove the thread remains. Lubricate as described |

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