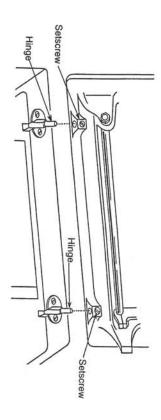
INSTRUCTION BOOK

MODEL **712T**

To operate the machine, a treadle operated sewing table is required.

"INSTALLATION INSTRUCTIONS"

- Lay the machine backwards with bottom towards you and loosen setscrews.
- 2. After loosening set screws, position and set the machine onto hinges.
- Tighten setscrews and swing the machine forward into place.



Bottom view of machine showing the position of setscrews

To install the machine onto a sewing table, refer to the instructions with your sewing table for more details.

SECTION I ESSENTIAL PARTS

| Fundamentals of Operation | How to Install the Spool Pin | Standard Accessories | Names of Parts | |
|---------------------------|------------------------------|----------------------|----------------|--|
| | | - | | |

SECTION II GETTING READY TO

* Selecting Stretch Stitch Patterns

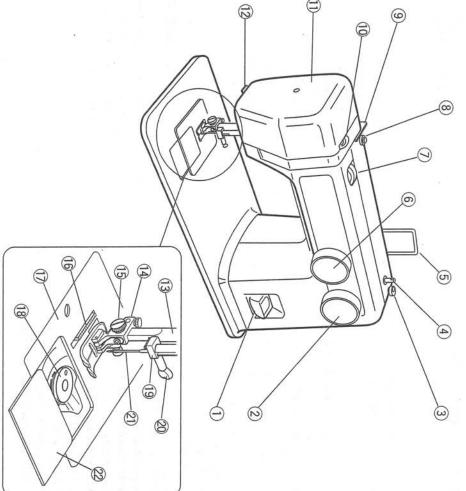
TABLE OF CONTENTS

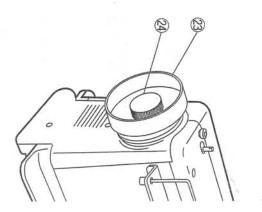
Names of Parts

- Reverse stitch lever Stitch length dial Bobbin winder stopper Bobbin winder spindle
- Spool pin
- Pattern selector dial
 Thread tension dial
 Bobbin winder thread guide
- Upper thread guide Thread take-up lever
- Face plate
 Thread cutter
 Presser bar
 Foot holder
 Thumb screw
 Feed dog
 Needle plate
 Bobbin
- Needle clamp Needle clamp screw Needle

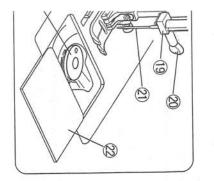
Slide plate

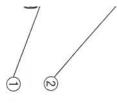
SECTION **ESSENTIAL PARTS**



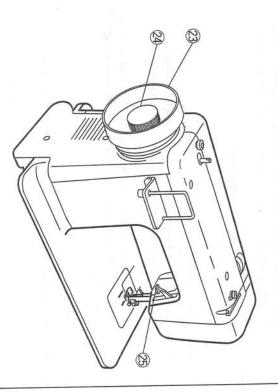


- 23. 24.
- Handwheel Stop motion knob Presser foot lifter









23. 24. . Handwheel
. Stop motion knob
. Presser foot lifter



Lint brush









Standard Accessories



J: Sliding buttonhole foot



D: Hemmer foot C: Overedge foot

E: Zipper foot



Bobbins

Set of needles

0

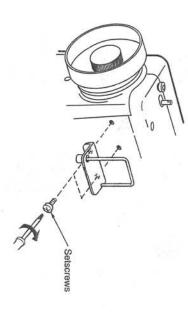






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How to Install the Spool Pin



Spool pin and two setscrews are packed separately to prevent damage in transit.

After unpacking, attach the spool pin holder with a screwdriver, as shown in illustration.

Fundamentals of Operation

For Your Safety

- While in operation, always keep your eyes on the needle, and do not touch any moving parts such as the take-up lever, handwheel or needle.
- 2. Do not run the machine:
- When making any adjustment in the needle area, such as threading needle, changing needle, or threading bobbin, etc.
- * When attaching or removing parts.
- When cleaning the machine.

Before Using the Machine

- Wipe the machine with a clean cloth to remove any dust or oil
- To replace presser foot and needle, follow the guides in the instruction book.
- When setting up the machine for sewing, test the stitches on a small piece of the fabric with the threads that will be used for actual sewing.

For Longer Life of the Machine

- Do not expose the machine to direct sunlight for long periods of time.
- Do not store the machine in an area of high humidity.
- Handle the machine with care to avoid dropping or bumping.

Thread and Needle Charl

| Heavy | Medium weight | Light weight | |
|---------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|---------|
| Denim, Tweed, Gabardii Coating, Drapery and Upholstery Fabric | Linens, Cotton, Pique, Serge, Double Knits, Percale | Crepe de Chine, Voile Lawn, Organdy, Georgel Tricot | Fabrics |

ng parts such as the take-up lever, keep your eyes on the needle,

ng needle, or threading bobbin, ment in the needle area, such as

ing parts.

an cloth to remove any dust or oil. needle, follow the guides in the

1 the threads that will be used for le for sewing, test the stitches on a

to direct sunlight for long periods

an area of high humidity. are to avoid dropping or bumping.

SECTION = **GETTING READY TO SEW**

Thread and Needle Chart

| | Fabrics | Threads | Needle Size |
|------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------|
| Light weight | Crepe de Chine, Voile Lawn, Organdy, Georgette, Tricot | Fine Silk Fine Cotton Fine Synthetic Fine Cotton Covered Polyester | 11 or |
| Medium weight | Linens, Cotton, Pique, Serge, Double Knits, Percale | 50 Silk 50 to 80 Cotton 50 to 60 Synthetic Cotton Covered Polyester | 11: or 14 |
| Heavy weight | Denim, Tweed, Gabardine, Coating, Drapery and Upholstery Fabric | 50 Silk 40 to 50 Cotton 40 to 50 Synthetic Cotton Covered Polyester | 14 or 16 |

 In general, fine thread and used for sewing heavy threads and needles are thin fabrics, and thicker needles are used for sewing needle size on a small piece of fabric which will be used Always test thread and fabrics.

When sewing stretch, very

a BLUE TIPPED needle.

The blue tipped needle

fine fabric or synthetics, use

effectively prevents skipped

stitches.

 Use the same thread for needle and bobbin.

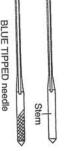
for actual sewing.

When sewing very fine

stabilizer to prevent thread fabrics, use a piece of

distortion.

(To Select a Suitable Needle)

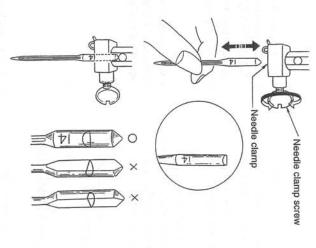


- BLUE TIPPED needle
- * A number indicating the size of needle is marked on the

The higher the number, the

- * A BLUE TIPPED needle is supplied with the machine. thicker the needle.
- Do not use any needle which is bent or blunt.

Changing Needles



the presser foot. Raise the needle by turning the handwheel toward you and lower

Loosen the needle clamp screw by turning it toward you.

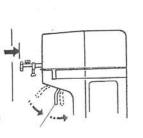
Remove the needle from the clamp.

facing to the back. Insert the new needle into the needle clamp with the flat side

will go and tighten the clamp screw firmly with the screwdriver. When inserting the needle into the clamp, push it up as far as it

Raising or Lowering the Press

The presser foot lifter raises or lower



To Detach and Attach the Foo

<To Detach>

Thumb screw

with the screwdriver. turning it counter clockwise Remove the thumb screw by

Ma hol in t Fit hol Tig

0

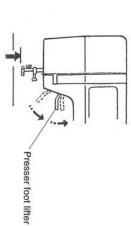
handwheel toward you and lower

needle clamp with the flat side

the clamp, push it up as far as it crew firmly with the screwdriver.

Raising or Lowering the Presser Foot

The presser foot lifter raises or lowers your presser foot.

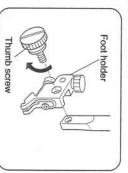


To Detach and Attach the Foot Holder



<To Detach>

Remove the thumb screw by turning it counter clockwise with the screwdriver.



<To Attach>

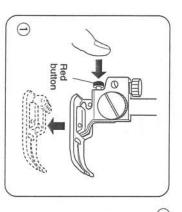
Match the hole in the foot holder with the threaded hole in the presser bar.

Fit the thumb screw into the hole.

Tighten the thumb screw by

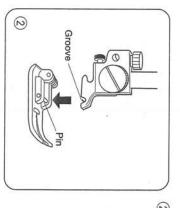
turning it clockwise.

To Snap the Presser Foot On and Off



drop off.

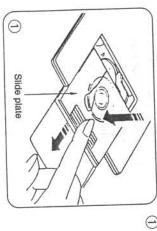
 Press the red button on the back of the foot holder.
 The presser foot will



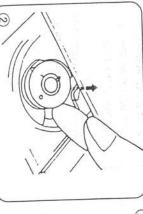
② Place the presser foot so the pin on the foot lies just under the groove of the foot holder.

Lower the presser foot lifter to lock the foot in place.

Removing the Bobbin

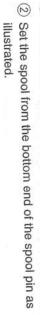


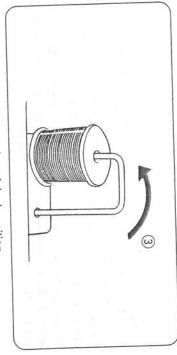
 Gently push the slide plate down and slide it toward you.



② Lift out the bobbin, as shown.

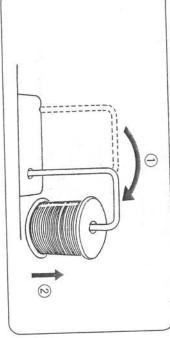
① Turn the spool pin.



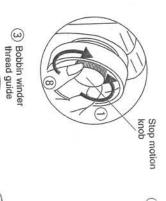


3 Return the spool pin to its original position.

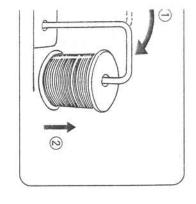
Setting Spool

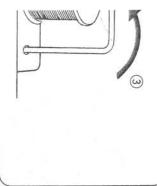


Winding the Bobbin



② Draw the thread from the spoo③ Guide the thread around the b





③ Guide the thread around the bobbin winder thread guide.

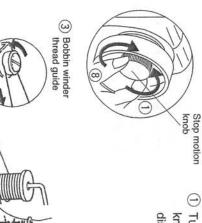
② Draw the thread from the spool.

m end of the spool pin as

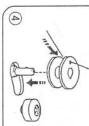


riginal position.

Winding the Bobbin



 Turn the stop motion knob counterclockwise to disengage clutch.



shown.

4 Insert the thread through the hole in

the bobbin from inside to outside as

(5) Put the bobbin on the bobbin winder

spindle, and push it to the right.



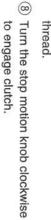
6

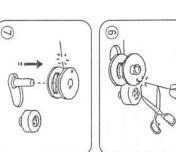
(6) While holding the free end of the

bobbin has made a few turns, and cut machine. Stop the machine when the thread with your hand, pedal the

the thread close to the hole in the



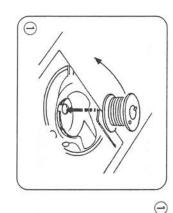




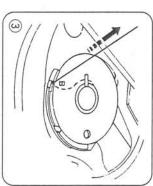
bobbin.

- to engage clutch.
- stop motion knob is tightened. The machine will not sew until the

Inserting the Bobbin

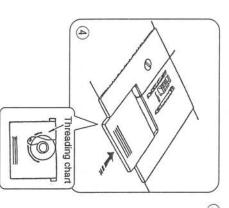


1) Place the bobbin in the clockwise direction. bobbin holder with the thread end unwinding in the



thread.

3 Continue to draw the Pull out about 15 cm (6") of thread slips into notch "B". thread lightly until the

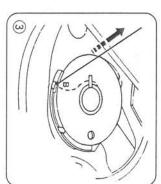


tension spring blades. sliding it between the Draw the thread to the left,

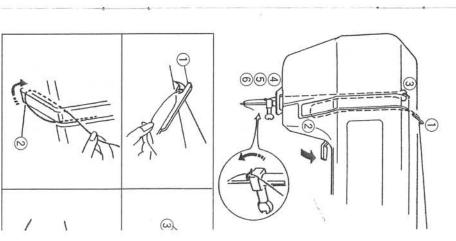
> (4) Close the slide plate. on the slide plate. referring to the chart shown Check the threading by

(2) Guide the thread into the

notch "A" on the front side of the bobbin holder.



Threading the Machine

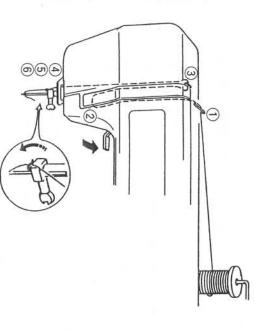


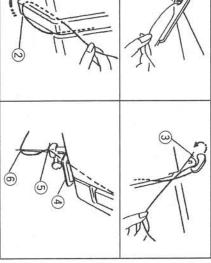
ontinue to draw the read lightly until the read slips into notch "B".

Ill out about 15 cm (6') of read.

ose the slide plate.
neck the threading by
ferring to the chart shown
the slide plate.

Threading the Machine





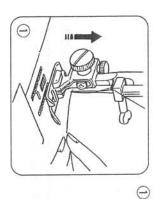
lifter and pass the thread in the order from 1 to 6.

Raise the thread take-up lever to its highest position by turning the handwheel towards you. Raise the presser foot with the presser foot

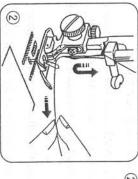
- ① Draw the thread into the thread guide using both hands.
- ② While holding the thread near the spool, draw the thread down into the tension area and then around the check spring holder.
- ③ Firmly draw the thread from right to left over the take-up lever and down into the take-up lever eye.
- 4) Then draw the thread down and slip it into the lower thread guide.
- (5) Draw the thread down and slip it into the needle bar thread guide on the left.
- 6 Thread the needle eye from front to back

NOTE: You may want to cut the end of the thread with sharp scissors for easier needle threading.

Drawing up Bobbin Thread



① Raise the presser foot and hold the needle thread lightly with your left hand.



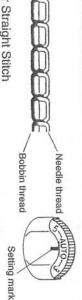
② Turn the handwheel towards and continue to turn the until the needle goes down, you with your right hand loop of the bobbin thread. needle thread to draw up a position. Lightly pull on the lever is at its highest handwheel until the take-up

③ Pull 15 cm (6") of both presser foot. threads back and under the

Balancing Needle Thread Tension

* Auto-tension

Set "AUTO" for ordinary sewing to get well-balanced tension.



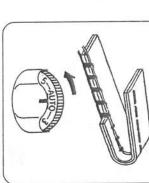
For Straight Stitch

the two layers of fabric. The ideal straight stitch will have threads locked between

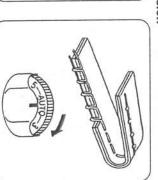
For Zigzag Stitch

In the correct zigzag stitch, the bobbin threads will not show on the right side of fabric and the needle threads will show slightly on the wrong side of fabric.

Manual Needle Thread Tension

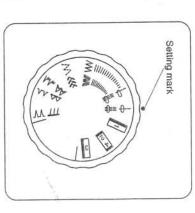


a lower number. tension by moving the dial to Loosen the needle thread



a higher number. tension by moving the dial to Tighten the needle thread

Pattern Selector Dial



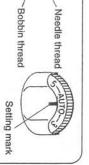
NOTE: material. Do not turn the pattern :

| Stitch length dial | Stretch stitch patterns | Stitch length dial | Pattern |
|--------------------|-------------------------|--------------------|---------|
| | | 1 | 4 4 G |
| | ##== ##== | 1~4 | 0 |
| | W/W/ | 0.3 | WW |

ω

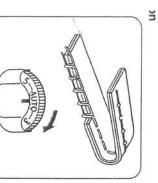
Tension

to get well-balanced tension.



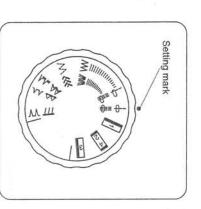
ave threads locked between

ne bobbin threads will not ic and the needle threads g side of fabric.



a higher number. tension by moving the dial to Tighten the needle thread

Pattern Selector Dial



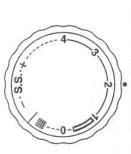
Select the stitch by turning needle is out of fabric. your hand until the tip of Turn the handwheel with the pattern selector dial.

NOTE: Do not turn the pattern selector dial while needle is in material.

| Stitch length dial | Stretch stitch patterns | Stitch length dial | Pattern |
|--------------------|-------------------------|--------------------|-------------------------|
| | | 1) | 2 4 S |
| | ##== ##== | 1~4 | 0 |
| | | 0.3 | WW |
| s. | >>>> | 0.52 | W |
| S. S. | AAA | | |
| | ۸۸۸ | ~ ω | $\Lambda\Lambda\Lambda$ |
| | 7777 | 2~3 | 777 |

Stitch Length Dial

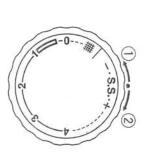
* Selecting Stitch Length



the stitch length. The higher the number, the longer

length for most fabrics. You can select the suitable stitch

* Selecting Stretch Stitch Patterns



When sewing stretch stitch, set the length dial at "S.S.".

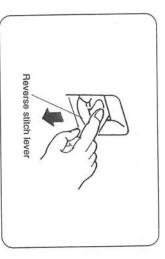
direction (1) so that the setting mark correct it by turning the dial in the When patterns are compressed, correct the balance as follows: unbalanced due to the type of fabric, If forward and reverse feeds become

correct it by turning the dial in the direction (2) so that the setting mark indicates "S.S." to "+". indicates "S.S." to "-". When patterns are drawn out,

Dropping the Feed Dogs

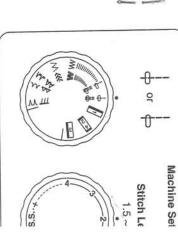
Reverse Stitch Lever

To drop the feed dogs, turn the stitch length dial to the "##" mark.



Fabric is fed in reverse while the lever is forward. pressed. When it is released, fabric is fed

Straight Stitch



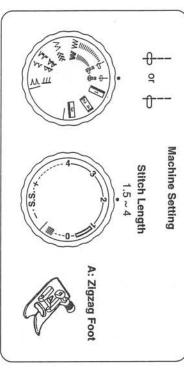
<< St: start :

While your h the fa towar

sewin Lowe

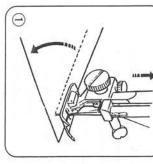
SECTION ≡ SEWING

Straight Stitch



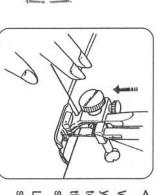


ed, fabric is fed



<< Changing Sewing Direction>>

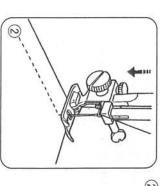
① Bring the needle down into the foot. fabric, and raise the presser



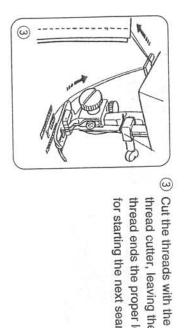
<< Starting Sewing>>

sewing. the fabric where you wish to start While holding the threads with toward you to bring the needle into your left hand, turn the handwheel

start sewing slowly. Lower the presser foot, and then



2 Then pivot the fabric to the desired direction. Lower the



thread ends the proper length thread cutter, leaving the

for starting the next seam.

Summing

(D)(2)

<<Securing Seams>>

WW

Stitch Length

7777

Stitch Leng

Machine Setting

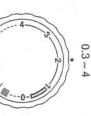
Machine Setting

Zigzag Stitch

Overcasting

- For fastening the end of seams, press the reverse stitch lever and sew several reverse stitches.
- ② Turn the handwheel so that the take-up lever is at its presser foot and draw the highest position. Raise the fabric out to the rear.



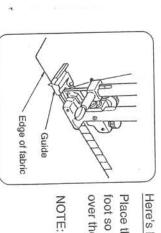












the range illustrated by the symbol. Zigzag width can be adjusted within

over the foot so Place th

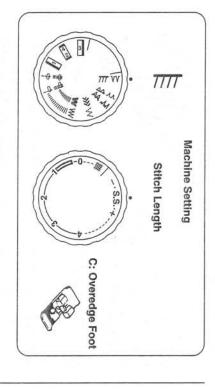
Here's h

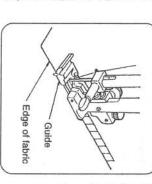
2.3 ~ 4 2.3 ~ 4 A: Zigzag Foot A: digzag Foot A: digzag Foot

width can be adjusted within je illustrated by the symbol.

Overcasting

etting



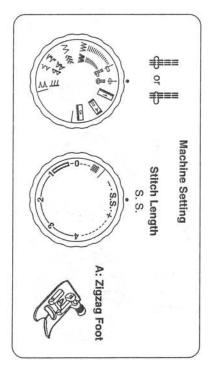


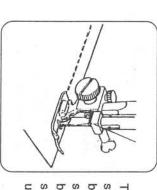
Here's How

Place the fabric under the presser foot so that the stitches are made over the edge.

NOTE: When using stretch knit fabric, use a blue tip needle, which effectively prevents skipped stitches.

Triple Stitch

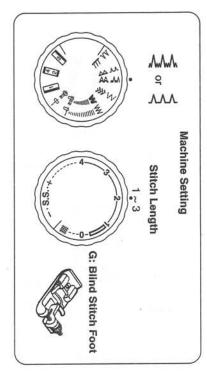




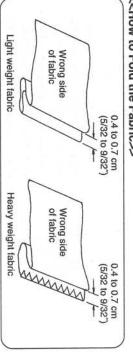
96000000000000

This stitch is formed with two stitches forward and one stitch backward. Because of this, the seam is very strong and cannot be ripped out easily. Garments should be basted for fitting before using this stitch.

Blind Hemming



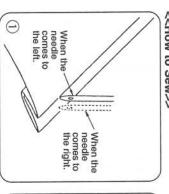
<< How to Fold the Fabric>>



overcast first. On lightweight fabrics the raw edge can be turned under and pressed. On heavy weight fabrics that ravel, the raw edge should be

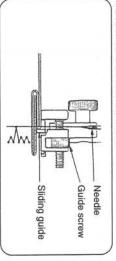
Fold hem under the fabric as illustrated. Fold the hem the desired amount and pin in place

<<How to Sew>>

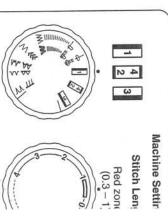


- (1) Position the fabric on the needle comes over to the of the fabric when the machine so that the needle extreme left side. Lower the just pierces the folded edge
 - (2) Sliding guide Guide
- ② Turn the guide screw and against the folded edge. move the sliding guide guiding along the sliding Sew the folded edge

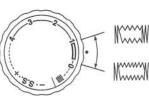
<< How to Set the Guide>>



Buttonhole

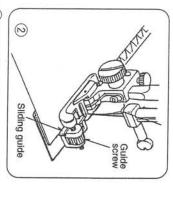


to use. Try the buttonhole with the bu Always make a practice buttonhole o



length dial indicat the buttonhole, tu turn the dial towa To adjust for coas for the buttonhole The symbol "

18

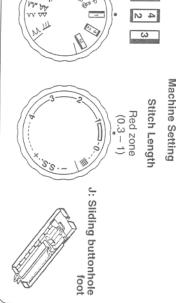


(2) Turn the guide screw and guiding along the sliding Sew the folded edge against the folded edge. move the sliding guide

Needle

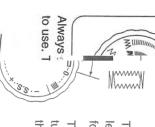
Guide screw

Sliding guide



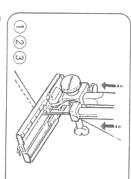
Butt

nake a practice buttonhole on a scrap of fabric you plan ry the buttonhole with the button you will use.



length dial indicates the range of adjustment for the buttonhole. The symbol " " (red zone) on the stitch

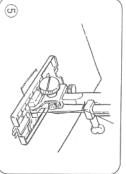
the buttonhole, turn the dial toward "0". turn the dial toward "1". For denser stitch for To adjust for coaser stitch for the buttonhole.



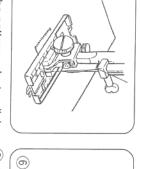
4 Sew down the left side of the

end. Raise the needle. buttonhole to the bottom **4**

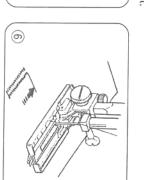
- ② Lead both threads to the left.
- 3 Lower the needle into the is to start, and lower the foot fabric, where the buttonhole



(5) Set the pattern selector dial at " 2 ", and sew 5 stitches of bartack, then raise the needle from the fabric.

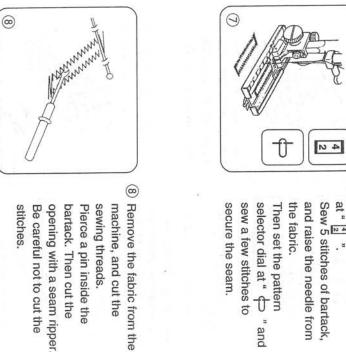


(6) Set the pattern selector dial stitch on the left side, and of the buttonhole. Stop the raise the needle. directly opposite the first machine when you are at " 3 ". Sew the right side

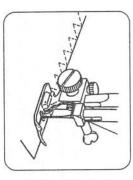








② Set the pattern selector dial at " 4 ".
Sew 5 stitches of bartack, secure the seam. sew a few stitches to selector dial at " P " and and raise the needle from Then set the pattern the fabric.



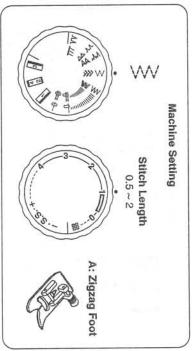
sewing threads. machine, and cut the

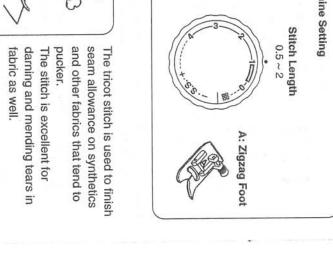
stitches.

opening with a seam ripper. bartack. Then cut the Pierce a pin inside the

Be careful not to cut the

Tricot Stitch

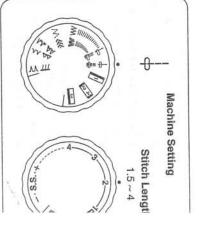


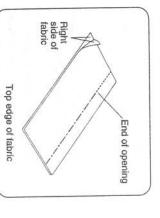


<< Fabric Preparation>>

tension at "3". Baste the zipper opening with stitch ler the zipper opening. Use the reverse to Put the right side of the fabric together

Zipper Application



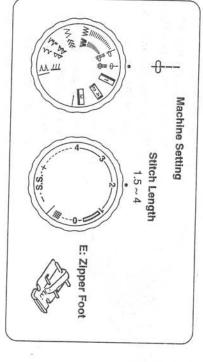


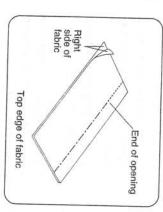
Stitch Length 0.5 ~ 2 A: Zigzag Foot

The tricot stitch is used to finish seam allowance on synthetics and other fabrics that tend to pucker.

The stitch is excellent for darning and mending tears in fabric as well.

Zipper Application

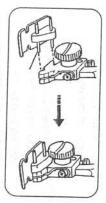




<<Fabric Preparation>>

Put the right side of the fabric together and sew to the end of the zipper opening. Use the reverse to lock the stitches.

Baste the zipper opening with stitch length at "4" and top thread tension at "3".



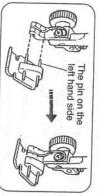
<<To attach the zipper foot>>

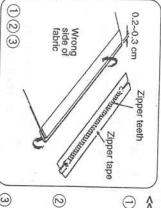
To sew on the left side of the

zipper, attach the zipper foot

with the pin on the right hand side.

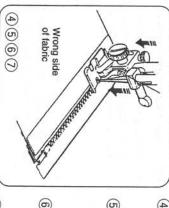
To sew on the right side of the zipper, attach the zipper foot with the pin on the left hand side.



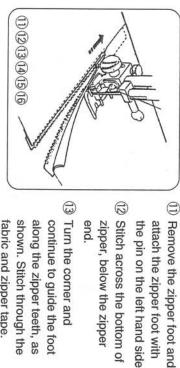


<<To Sew>>

- ① Set the stitch length at 2 and the top thread tension at "AUTO". Fold back the left seam allowance as shown.
- ② Turn under the right seam allowance to form a 0.2 to 0.3 cm (1/8") fold.
- (3) Place the zipper teeth next to the 0.2 to 0.3 cm (1/8") fold with the bottom end of the zipper matching the bottom end of the zipper opening. Pin in the place.



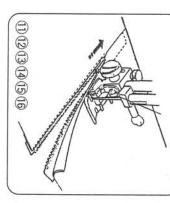
- 4 Attach the zipper foot with the pin on the right hand
- ⑤ Lower the zipper foot at fold and the zipper tape. that the needle pierces the the bottom of the zipper so
- 6 Sew through the fold and where the slider begins. the zipper tape to the point
- (7) Lower the needle to hold presser foot. the fabric and raise the



- (9) Lower the presser foot and ® Open the zipper. stitch the rest of the seam

Wrong side of fabric

89

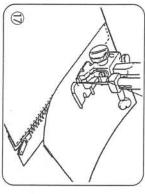


(13) Turn the corner and end.

zipper, below the zipper

attach the zipper foot with the pin on the left hand side

- fabric and zipper tape. shown. Stitch through the along the zipper teeth, as continue to guide the foot
- (14) Stop about 5 cm from the top of the zipper.
- (5) Lower the needle into the fabric and raise the presser
- (6) Remove the basting stitches and open the zipper.
- (1) Lower the foot and stitch the the fold is even. rest of the seam. Make sure



(1) Close the zipper

22

(3)

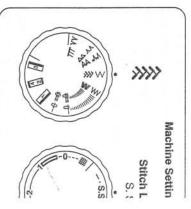
Wrong side of fabric

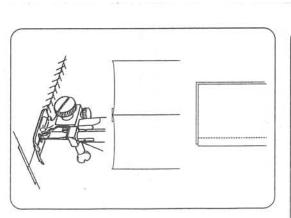
of fabric

h.

fabric right side and turn the

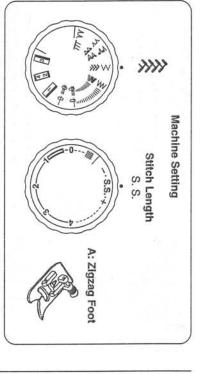
Feather Stitch

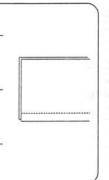




- Remove the zipper foot and attach the zipper foot with the pin on the left hand side.
- (12) Stitch across the bottom of zipper, below the zipper end.
- (i) Turn the corner and continue to guide the foot along the zipper teeth, as shown. Stitch through the fabric and zipper tape.
- (4) Stop about 5 cm from the top of the zipper.
- (5) Lower the needle into the fabric and raise the presser foot.
- (f) Remove the basting stitches and open the zipper.
- ① Lower the foot and stitch the rest of the seam. Make sure the fold is even.

Feather Stitch



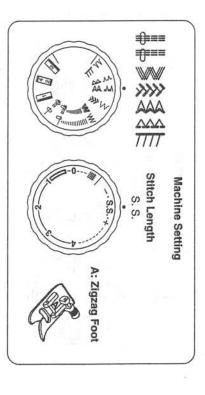


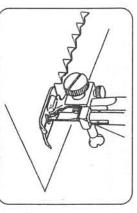
Place right sides of fabric together and seam along the edge.

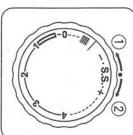
Spread the fabric open flat with the right side of the fabric facing up.

Sew feather stitch slowly guiding the fabric so the needle catches the folded edge on each side.

Stretch Stitch Patterns





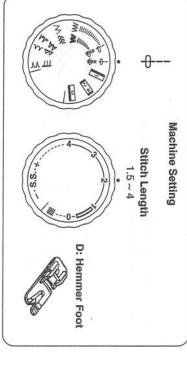


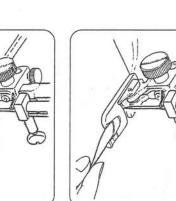
When forward and reverse feeds become unbalanced due to the type of fabric, correct the balance by turning the stitch length dial as follows:

When patterns are compressed, correct it by turning the dial in the direction 1.

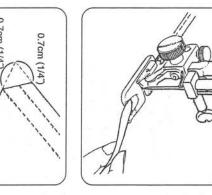
When patterns are drawn out, correct it by turning the dial in the direction (2).

Rolled Hem



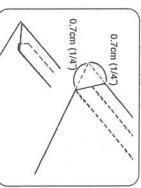


hemmer foot. fabric into the curl of the Insert the folded portion of the fabric and lift the hemmer foot. Lower the needle into the



Make a double 0.25 cm (1/8") fold approximately 8 cm (3") in length.

smoothly and evenly. of the fabric to keep it feeding then sew by lifting up the edge Lower the hemmer foot, and



the point where sewing is to begin,

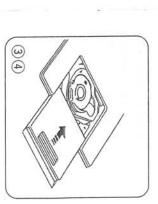
Lower the needle into the fabric at

then lower the hemmer foot.

needle and bobbin threads. Sew 3 or 4 stitches while pulling the

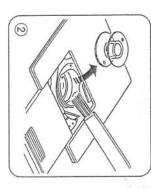
24

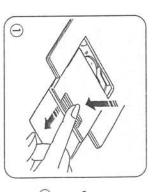
0.7 cm (1/4") from corners as illustrated. To reduce bulk, trim about



(3)

(4)





7

fabric into the curl of the Lower the needle into the Insert the folded portion of the fabric and lift the hemmer foot.

smoothly and evenly. of the fabric to keep it feeding then sew by lifting up the edge Lower the hemmer foot, and

0.7 cm (1/4") from corners as To reduce bulk, trim about illustrated.

(0)



Cleaning the Bobbin Holder

Before cleaning, turn the

SECTION IV

CARE OF YOUR MACHINE

handwheel toward you to

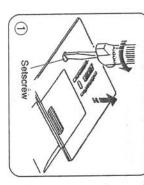
raise the needle.

 While pushing the front end of slide plate, slide it toward you as far as it will go.

2 Take out the bobbin, and

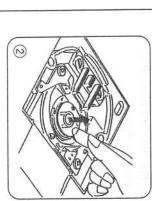
remove lint with a lint

brush.

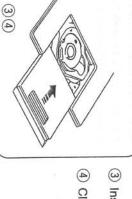


 Cleaning the Hook Race and Feed Dog Remove the needle and side of the needle plate setscrew on the left hand presser foot. Remove the with the screwdriver. Remove the needle plate.

2 Take out the bobbin.



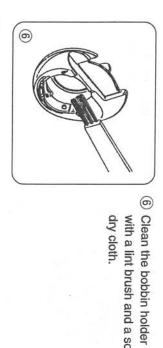
③ Lift up the front end of bobbin holder to remove it.



③ Insert the bobbin.

4 Close the slide plate.





dry cloth.

with a lint brush and a soft

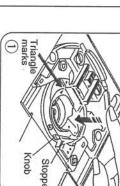
0

(5)

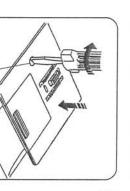
4) Brush off the lint on the feed dogs.

(4)

⑤ Wipe the hook race with a soft dry cloth.



2 Put the bobbin in.



(W)

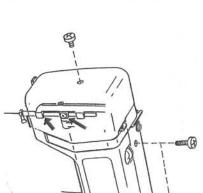
Setscrew

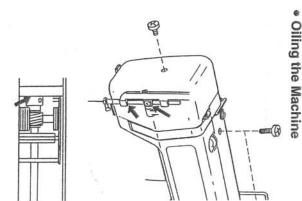
3 Attach the needle plate with and attach the presser foot setscrew. Insert the needle,



① Line up the triangle marks next to the stopper in the holder so that the knob fits and position the bobbin

hook race.





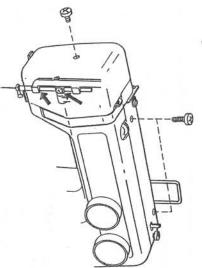
Resetting the Bobbin Holder and Needle Plate

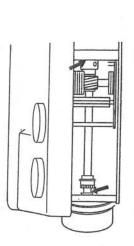
 Line up the triangle marks and position the bobbin holder so that the knob fits next to the stopper in the hook race.

Stopper



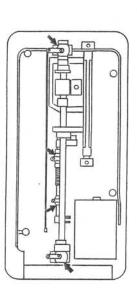






3 Attach the needle plate with

setscrew. Insert the needle, and attach the presser foot.



For a machine in constant use, oil two or three times a year.

If the machine does not work smoothly due to standing idle for some time, apply a few drops of oil at the oiling points, and run the machine rapidly for a minute.

Wipe excess oil before sewing.

Unscrew and remove the face plate.

Apply a few drops of fine quality sewing machine oil to the points indicated by the arrows in the illustration.

Remove the two screws and take off the top cover.

Apply a few drops of fine quality sewing machine oil to the points indicated by the arrows in the illustration.

Lay the machine over on its back and apply a few drops of fine quality sewing machine oil to the points indicated by the arrows in the illustration.

Troubleshooting

| Condition | Cause | Hererence |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------|
| The machine does not run smoothly and is noisy. | Threads have been caught in hook mechanism. The feed dog is packed with lint. | See Pages 25 ~ 26 |
| The needle thread breaks. | 1. The needle thread is not threaded properly. | See Page 11 |
| 24 | 2. The needle thread tension is too tight. | See Page 12 |
| | 4. The needle is incorrectly inserted. | See Page 6 |
| | 5. The fabric is not being drawn to the back when sewing is finished. | See Page 16 |
| | 6. The thread is either too heavy or too fine for the needle. | See Page 5 |
| The bobbin thread breaks. | 1. The bobbin thread is not threaded properly in the bobbin holder. | See Page 10 |
| | Lint has collected in the bobbin holder and/or tension spring. | See Pages 25 ~ 26 |
| | 3. The bobbin does not rotate smoothly. | Replace the bobbin. |
| The needle breaks | 1. The needle is incorrectly inserted. | See Page 6 |
| | 2. The needle is bent or blunt. | See Page 5 |
| | 3. The needle clamp screw is loose. | See Page 6 |
| | The tension of the needle thread is too tight. | See Page 12 |
| | The fabric is not drawn to the back when sewing is finished. | See Page 16 |
| | 6. The needle is too fine for the fabric being sewn. | See Page 5 |
| | The pattern selector dial had been turned while the needle was in the material. | See Page 13 |
| Skipped stitches | 1. The needle is incorrectly inserted. | See Page 6 |
| | 2. The needle is bent or blunt. | See Page 5 |
| | The needle and/or threads are not suitable for the work being sewn. | See Page 5 |
| | 4. A BLUE TIP needle is not used for sewing stretch, very fine fabrics and | See Page 5 |
| ¥ | synthetics. 5. The needle thread is not threaded properly. | See Page 11 |

| The machine is noisy. | The buttonhole stitches are not balanced. | The machine does not work. | The cloth is not feeding smoothly. | Stitches form loops below the work. | Seam Puckering | Condition |
|-----------------------|-------------------------------------------|----------------------------|------------------------------------|-------------------------------------|----------------|-----------|
| | | | | | | |

| | Reference |
|-----------|---------------------|
| | See Pages 25 ~ 26 |
| | Page |
| | See Page 5 |
| | Page |
| hed. | Page |
| | |
| er. | See Page 10 |
| | |
| | Replace the bobbin. |
| Ç | See Page 6 |
| 1 | Page |
| | |
| | See Page 12 |
| | |
| | See Page 5 |
| as in the | See Page 13 |
| | See Page 6 |
| | Page |
| sewn. | See Page 5 |
| orics and | See Page 5 |
| | See Page 11 |

| Condition | Cause | Reference |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Seam Puckering | The needle thread tension is too tight. The needle thread and/or bobbin thread is not threaded properly. The needle is too heavy for the cloth being sewn. The stitches are too coarse for the fabric being sewn. When sewing extremely lightweight materials, place a sheet of paper underneath the fabric. | See Page 12 See Pages 10 ~ 11 See Page 5 See Page 13 |
| Stitches form loops below the work. | The needle thread tension is too loose. The needle is either too heavy or too fine for the thread. The needle thread is not threaded properly. | See Page 12 See Page 5 See Page 11 |
| The cloth is not feeding smoothly. | The feed dog is packed with lint. The stitches are too fine. The feed dog is not raised after "Drop feed" has been used. | See Pages 25 ~ 26 See Page 13 See Page 14 |
| The machine does not work. | A thread is caught in the hook race. Stop motion knob is not tightened. | See Pages 25 ~ 26 See Page 9 |
| The buttonhole stitches are not balanced. | 1.The stitch length is not suitable for the fabric being sewn.2. The work is being pulled or held back. | See Page 13 Do not force the fabric for guiding. |
| The machine is noisy. | The machine is in need of oil. Dust and lint have collected in the hook mechanism. The feed dog is packed with lint. | See Page 27 See Pages 25 ~ 26 See Pages 25 ~ 26 |