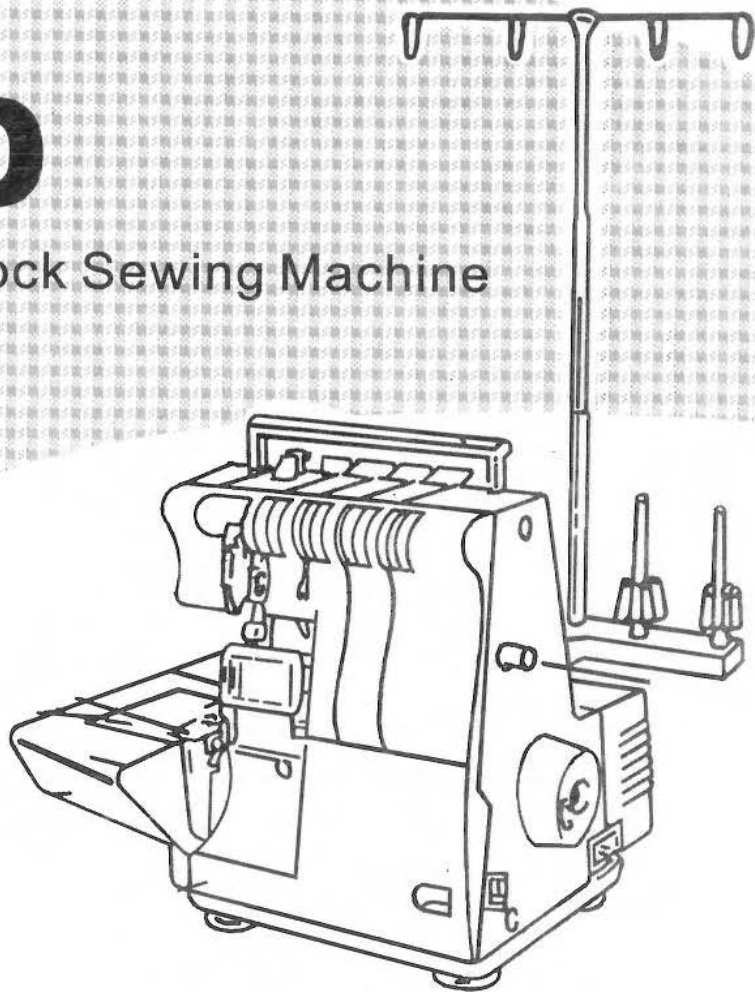


14U4AD

2 Needle - 4 Thread Overlock Sewing Machine

Instruction Manual



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Important Safety Regulations

The following safety regulations must be observed without failure:

1. Risk of injury to fingers:

- The moving needle and cutting knives are sources of danger (risk of injury to fingers). The sewing position must therefore be kept under constant observation.
- Manipulations within the area of movement of the needle, such as changing the needle or cutting knives, or threading the machine and all manipulations with open covers (stitch width or stitch length adjustments), must be done with the controller plug disconnected.

2. Risk of electric shock:

- When cleaning or lubricating the machine or changing the light, or in case of interruptions in sewing or after completion of work, the machine must be disconnected from the power supply by disconnecting the main plug.
- Keep Children Away when in use.
- Store idle sewing machine.
- When not in use, sewing machine should be stored in dry place out of the reach of children.

Accessories

1. Needle Pack
2. Screwdriver (medium size)
3. Screwdriver (small size)
4. Tweezers
5. Rolled hemming throat plate
6. Hex-head wrench

Details of the Machine

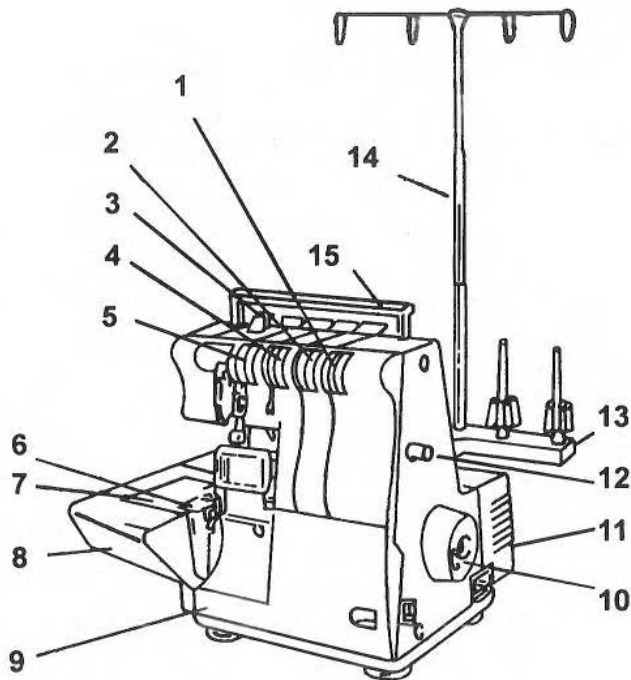


Figure 1

1. Left looper thread tension dial.
2. Right looper thread tension dial.
3. Presser foot pressure regulating knob.
4. Right thread tension dial.
5. Left thread tension dial.
6. Throat plate.
7. Cylinder cover.
8. Sewing plate.
9. Looper cover.
10. Hand wheel.
11. Motor cover.
12. Stitch length knob.
13. Spool stand.
14. Thread guide holder.
15. Handle.

Machine with Cover Open

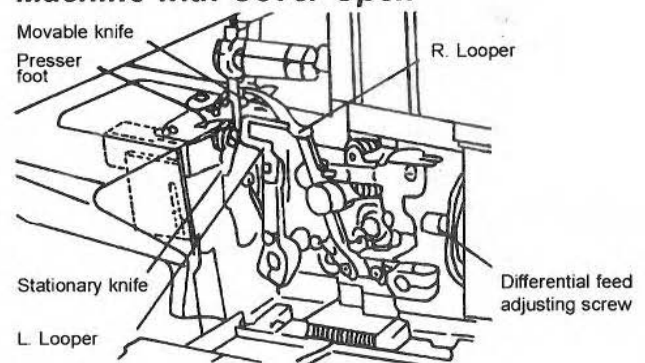


Figure 2

Preparing the Machine

1. Attaching the foot controller

- Plug foot controller into machine socket.
- Plug foot controller into power supply socket.
- Lay your foot on the foot controller.

Press on the foot controller strongly, and the sewing speed increases. Press on the foot controller lightly, and the sewing speed decreases.

2. When you do not use the sewing machine

- Turn the power/light switch off.
- Pull the machine plug out from the power supply socket.
- Never place anything on the foot controller.

3. Threading the machine (Principal parts in figures 1 and 2)

- Setting up the thread guide holder.
- Opening looper cover while pushing to the right as far as it will go and pull cover down toward you.
- Removing cylinder cover and convertible bed while pulling the cylinder to the left, lift cover upward and off the machine.
- Thread is diagrammed on the threading chart (identified with colors on the various thread guides). Then draw thread from needles or looper thread hole.
- When you wish to change threads. First cut the thread near the spool, Raise presser foot. Turn the tension dials down toward the the (-) mark until the dial stops and draw the thread out so that the tie knot of the thread extends from the presser foot. When drawing needle thread through the needle eye, stop the tie knot before the needle eye, cut the thread and pass it through the needle eye.

Operation and Function

1. Stitch length adjusting knob (to adjust the stitch length). Figure 3

- Stitch length is adjustable within the range from 1 to 5.
- For normal overlooking stitches set the stitch length adjusting knob at 2 to 3.

2. Differential feed adjusting. Figure 2

- Differential feed adjusting screw to adjust the feeding for gathering or stretching.
- To adjust feeding for gathering or stretching, turn the differential feed adjusting screw upward or downward.

3. Releasing the upper knife. Figure 4

Be sure to turn the powder switch OFF

- Turn the handwheel until the upper knife is fully raised. Open the looper cover.
- Press the part indicated as A in the figure toward the right until it will go no further.
- Keep pressing A and turn the knob on the right side in the direction of the arrow.
- Turn the knob until the knife reaches position B.

4. Replacing under knife. Figure 5

Be sure to turn the powder switch OFF

- Set the upper knife in non-operating position.
- Loosen the under knife set screw and remove the under knife.

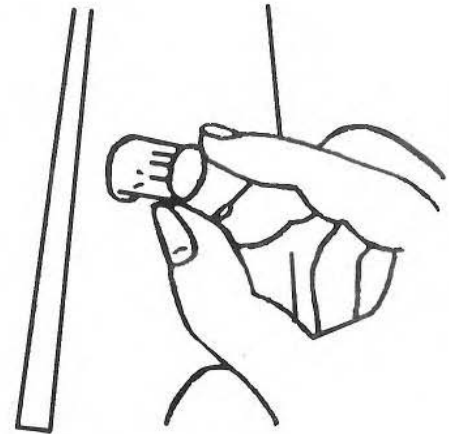


Figure 3

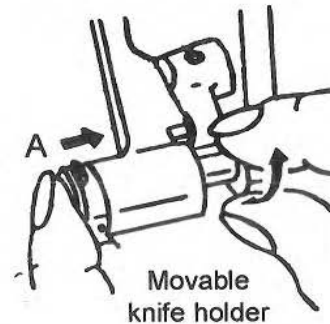


Figure 4

- Place a new under knife in the groove of the under knife holder, align the cutting edge level with the top surface of the throat plate and tighten set screw.
- Return the upper knife to its original position.

5. Replacing the needle

- Be sure the line plug is disconnected from the wall receptacle.
- Turn the hand wheel toward you until the needle is at its highest position.
- Loosen the needle set screw with a screwdriver and remove needles.
- Insert new needles into the needle bar hole as far as they will go with flat surface to the front and securely tighten the needle set screw.

6. Adjusting presser foot pressure. Figure 1 #3

Pressure of the presser foot has been factory set -adjust it only when sewing a special material.

- To increase the pressure of the presser foot:
Turn adjusting knob in ward or clock wise to increase pressure.
For heavy-weight materials such as denim, tweed or hard linen.
- To decrease the pressure of the presser foot:
Turn adjusting knob out ward or counter clock wise to reduce pressure.
For light-weight materials such as georgette, lawn, or tri cot.

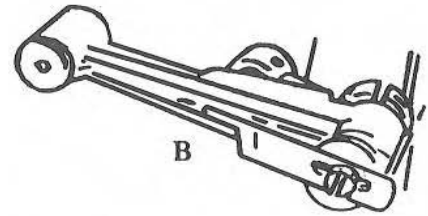


Figure 5

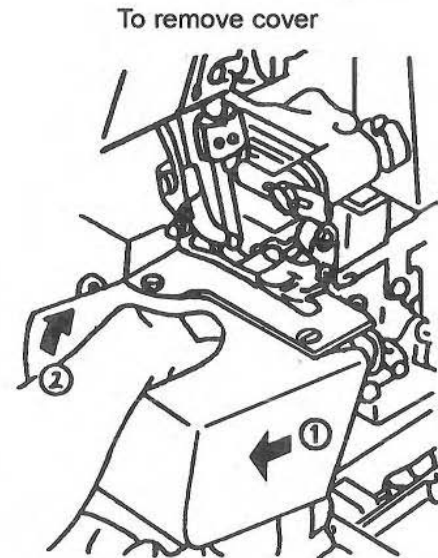


Figure 6

7. How to remove convertible bed and cylinder cover. Figure 6

- To replace cover. Figure 7
- While pulling the cylinder cover to the left, Lift cover upward and off the machine.
- Place tab on top of cover under the throat plate.
- Press cover down ward to the right.

Warning: Do not hold the cylinder cover when lifting or carrying the machine. Be sure cylinder cover is replaced when sewing.

8. Adjusting thread tension

Adjust thread tension to suit the type of material and size of the thread used. The thread tension dials on this machine are a one-turn system. If you turn the tension dials up toward the (+) mark, the thread tension becomes tighter. If you turn the thread tension dial down towards the (-) mark, the thread tension becomes looser. Thread tension can be adjusted independent each other. For example: The left looper thread tighter or right looper thread looser.

3 Thread and 4 Thread over locking

This is a two needles four thread overedge machine. One needle three thread overedge can be done by means of using only the left or right needle and three thread. When using one needle, be sure to remove the other needle.

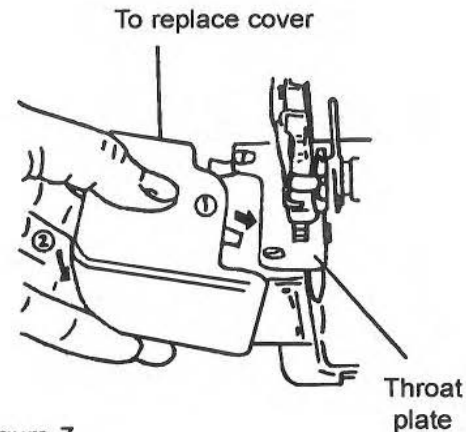


Figure 7

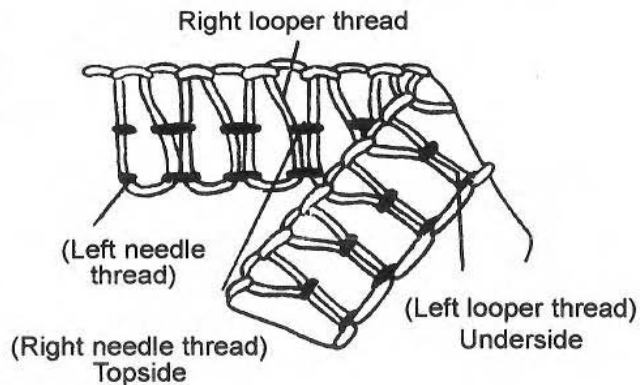
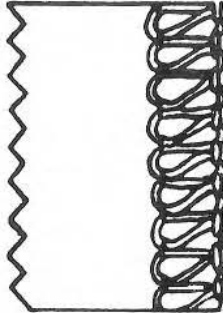
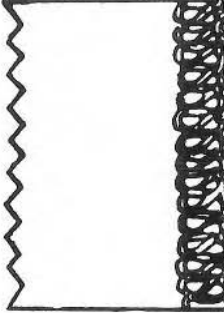
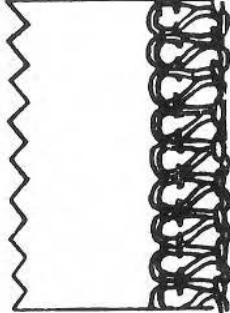


Figure 8

No. of thread Overedge width Needle used	3 thread 5.7 mm Left needle	3 thread 3.5 mm Right needle	4 thread 5.7 mm Left and Right needle
Stitch Type			

Roll hemming

This machine can do right looper thread wrapped rolled hem stitching with a seam width of 1.5 mm. Always remove the left needle.

1. Rolled hemming is done by rolling the fabric and overfeeding, and is not suited for heavy or stiff fabrics. Set the stitch length dial to 2 or F.

Rolled hemming throat plate

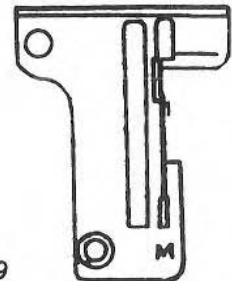


Figure 9

2. Exchanging throat plate

- Disconnect the power line plug from the receptacle.
- Turn the hand wheel toward you until the needle is at its highest point.
- Lift the presser foot.
- Remove the cylinder cover.
- Unscrew the throat plate screw and remove the throat plate.
- Install the rolled hemming throat plate and replace the screw.
- Replace the cylinder cover.

For rolled hemming, adjust seam width to the position of "M" of rolled hemming throat plate, align left edge of under knife holder with the "M" mark on the rolled hemming throat plate.

Note: Be sure the under knife is not in contact with the edge of throat plate.

When doing rolled hem stitching, be sure to adjust thread tension correctly. At the start of sewing, slightly pull the end of the chain off so it will not be entangled in the stitch.

Free arm sewing (tubular work)

This machine can make tubular work by pushing the convertible bed plate down. This is especially convenient for finishing hard-to-reach areas such as arm holes and overcasting trouser cuffs etc.

Gathering

A single layer of light weight fabric can be gathered. Set the stitch length adjusting knob at max. 5. Set the differential feed adjusting knob at 1.5 - 2.

For examples: Sleeve heads, lower edges, yokes, leca edging or frills.

Relationships between cloth, thread and needle

Type of Fabric	Type of Thread	Needle
Light Weight Lawn, Organdy Silk, etc.	Cotton #100 Silk #100 Spun #80 - #90	#10 - #14
Medium Weight Mustin, Satin Broadcloth, etc	Cotton #60 - #80 Silk #50 Spun #60 - #80	#14
Heavy Weight Oxford, Demin Corduroy, Serge, etc	Cotton #40 - #60 Silk #40 - #60 Spun #60 - #80	#14
Kinit Woll (woven, knit)	Spun #60 - #80 Nylon	#14

Reasons for poor stitches and method of adjustments

Condition	Reason	Method of Adjustments
When the fabric is not feeding.	Insufficient presser foot pressure.	Increase presser foot pressure.
When the needle breaks.	Needle not inserted properly. Fabric being pulled too hard. Loose needle set screw.	Insert needle correctly or replace with correct needle. Do not pull the fabric by hand use hand only to guide the fabric. Tighten screw firmly.
When the thread breaks.	Incorrect threading. Bent needle or needle point damaged. Thread tension too tight. Thread tangled. Needle inserted incorrectly.	Thread machine correctly. Replace needle. Adjust tension. Thread correctly. Insert needle correctly.
When stitches skip.	Needle bent or needle point damaged. Needle set loosely. Incorrect threading. Wrong needle used. Insufficient presser foot pressure.	Replace needle. Set needle firmly in position. Thread machine correctly. Use needle correctly. Increase presser foot pressure.
When stitches are irregular.	Thread tension not balanced.	Adjust tension.

When fabric puckers.

Thread tension too tight.
Threading incorrect or tangled.
Different feed adjusting knob at wrong ratio.

Adjust tension.
Rethread machine.
Set value of the differential feed adjusting knob at 0.7-N.

When the machine does not operate.

Power line plug not connected.

Connect with power source.

Specifications

Item	Specification
Sewing speed	1000 spm maximum
Stitch length (feed amount)	1-5mm (standard:rolled hemming F-2, ordinary overedge 3)
Differential feed ratio	1:0.77-1: 2 (with differential feed machine)
Overedge stitch width.	Rolled hemming 1.5 mm, ordinary overedge 3.5 - 7.2 mm (standard 3.5 mm)
Needle bar stroke	27 mm
Presser foot rise	5 mm
Needle	SY2020(HAX1) 10# - 14#
Number of threads	4
Machine dimensions	(Width) 325 mm x (depth) 270 mm x (height) 268 mm
Weight	5.6 kg (4A) 6.0 kg (4AD)