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24 Stitch length dial
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Preparing the machine

Accessories
1 Screwdriver
2 Tweezers
3 Oilier
4 Cleaning brush
5 Set of needles HAx1
6 Net
7 Spool caps
8 Waste collector
9 Hexagon wrench
10 Upper knife

Accessory Box
All standard accessories are stored in the box. Pull out to open, push in to close.

Looper cover
To open push to the right with your thumb in the indent and tilt towards you. To close push it up and the cover engages automatically.

Waste collector
Fabric waste will be collected as you sew. Push the waste collector under the front of the machine and slightly to the left towards the cloth plate cover.

Cloth plate cover
To open push the lever up. To close push the cover up to the right, it snaps into position automatically.
Preparing the machine

Attaching the foot control

Plug foot control into machine socket (A) and then into main socket (B).

Sewing speed

The sewing speed can be adjusted by increasing or decreasing the pressure on the foot control (C).

Assembling the thread stand

Raise the support rod fully, turning slightly until the positioning catches engage.

Thread cones

The anti-vibration cone should be used with the wider edge to the bottom on the spool holder pin when sewing with cones. When using household spools remove the anti-vibration cones. Place spool on spool holder pins and push the spool caps on. If threads slip and get twisted, cover the spools with the nets supplied in the accessory box.

Power/light switch

The power switch is conveniently placed on the handwheel side of the machine.

"I" - ON
"O" - OFF
Using the machine

Handwheel

The handwheel turns counterclockwise.

Presser foot lifter

To raise the presser foot, raise the lever on the rear of the machine until it engages.

Changing the presser foot

- Switch the machine off “O”.
- Raise the presser foot.
Press the catch (A) to release the presser foot from the clamp.
Raise the presser foot lifter to the highest position and remove the presser foot sole to the left.
To attach the presser foot sole, place it under the shaft. The groove in the shaft should line up exactly with the presser foot pin.
Lower the shank and the presser foot will engage automatically.
Using the machine

Inserting needles
- Switch the machine off "O". Disconnect machine from electricity supply.
- Turn the handwheel until needles are fully raised.
- Lower the presser foot.
- Use the hexagon wrench to loosen the needle setscrew. Remove needle.
- Insert the needle flat side towards the back, as far as possible into the needle clamp. Tighten the screw.
- The left needle is set higher than the right needle.

Raising the upper knife
- Turn the handwheel to raise the needles.
- Open the looper cover.
- Press the upper knife holder to the right. Turn the knob clockwise until the knife engages.
- Close the looper cover.

To lower the upper knife:
- Turn the knob anti-clockwise. The knife snaps automatically into its lower position. Close the looper cover.
Threading

Threading / Preparation

- Disconnect machine from electricity supply.
- Support rod with thread guide must be fully raised.
- Open the looper cover and the cloth plate cover.
- Turn the handwheel towards you until needles are fully raised.

- Thread the machine in the correct sequence.

Upper looper (Green)

- Place the spool on the spool holder pin.
- Bring thread up from back to front through guide (1).
- Make s-loop through holes in thread guide bar (2).
- Thread guide (3,4,5)
- Thread looper eye (6)

- For Certain models only
- Pour un certain modèles uniquement
- Kun for visse modeller
- Nur für gewisse Modelle

From the library of: Superior Sewing Machine & Supply LLC
**Threading**

**Lower looper (red)**

- Place the spool on the spool holder pin.
- Bring thread up from back to front through guide (1).
- Make S-loop through holes in thread guide bar (2).
- Thread guide (3,4,5) **FOR CERTAIN MODEL ONLY**
  - If machine attached with the lower looper automatic threader, then please refer to page 33 continuously and disregard the following instruction.

**Turn the handwheel towards you until the lower looper is in the left-most position. Use the tweezers to pull a thread loop (not thread end) from right side to left. Insert the thread into the slit on the lower looper (6)**

**Turn the handwheel towards you until the lower looper is in the rightmost position.**

- Thread the looper eye (7) so that the thread lies in the long groove on the lower looper.
- Place thread under presser foot.

- **For Certain models only**
- **Pour un certain modèles uniquement**
- **Kun for visse modeller**
- **Nur für gewisse Modelle**
Threading

Right needle (Blue)

- Place the spool on the spool holder pin.
- Bring thread up through guide (1).
- Make S-loop through holes in thread guide bar (2).
- Thread guide (3,4)
- Thread right needle eye (5)
- Place thread under presser foot.

- For Certain models only
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Threading

Left needle (Yellow)

- Place the spool on the spool holder pin.
- Bring thread through guide (1).
- Make S-loop through holes in thread guide bar (2).
- Thread guide (3,4)
- Thread left needle eye (5)
- Place thread under presser foot.

After threading

When threading is complete, lower the presser foot and close the looper cover and cloth plate.

Note:
If the lower looper has to be re-threaded, cut both needle threads off at the needle eye and remove surplus thread from below. Thread the looper and then re-thread the needles.

- For Certain models only
- Pour un certain modèles uniquement
- Kun for visse modeller
- Nur fiir gewisse Modelle
**Trial sewing, thread tension**

**Sewing test**

After threading make a trial run. Always use a double layer of fabric in order to be able to check the stitch formation and thread tension properly.

- Switch the machine on "1".
- Set all tension dials to 4.
- Raise the front of the presser foot slightly with your thumb and position the fabric under the foot just up to the knife.
- Sew.
- At the end of the seam continue sewing a 8cm (4") long thread chain.
- Cut the thread chain and remove work.

**Check your trial run**

1. Upper looper thread (blue)
2. Lower looper thread (red)
3. Right needle thread (green)
4. Left needle thread (yellow)

Perfect stitch formation is when both looper threads meet at the fabric edge. The needle threads form straight stitches for a stretchy and durable seam.

Thread tension adjustments may be required depending on the type of fabric and thread being used.
Adjusting the thread tension

The left needle thread forms loops on the underside:
Tighten the left needle thread tension (yellow).

The right needle thread forms loops on the underside:
Tighten the right needle thread tension (green).

The looper loops are formed on the underside:
Tighten the upper looper tension (blue), or loosen the lower looper tension (red).

The looper loops are formed on the upper side:
Tighten the lower looper tension (red), or loosen the upper looper tension (blue).
Adjustments and settings

Stitch length
- The stitch length can be adjusted from 1 to 4 mm.
- Higher number = longer stitch, lower number = shorter stitch.
- Basic stitch length = N.

Cutting width
The cutting width should be adjusted according to the type of fabric being sewn. Check the seam each time and adjust the cutting width accordingly.

Adjusting the cutting width:
- Open cloth plate cover
- Turn cutting width dial:
  - Clockwise to move knife to the left (for heavier fabrics).
  - Counter-clockwise to move the knife to the right (for lighter fabrics).

How to use the needle plate
Switch the lever to select the regular or rolled hem and narrow hem sewing. "N" for regular sewing.

"R" for rolled and narrow hem sewing.
Differential feed*

There are two feed dogs: one front and one rear. The two feed dogs move independently and the distance each feed dog travels during one complete movement can be adjusted.

Stretching effect
To stretch the fabric select a number from N to 5 in the section "[X1]. This prevents fine nylon jerseys or closely woven fabrics from puckering.

Pushing effect
To prevent waving or to gather select a number from N to 8 in the section "[X1]. This prevents waving or fluting in knits or puckers in fine woven fabrics. It also can be used to gather single layers of fine woven fabric.

Note:
When sewing without differential feed the dial should be on position N.

Gathering*
Use the differential feed to gather a single layer of fabric. For example sleeve heads, yokes, lace edging or frills.
Threading

AUTOMATIC LOWER LOOPER THREADER (FOR CERTAIN TYPE ONLY)

1. Passing the thread through the hole on lower looper thread guide (5).
2. Turn the balance wheel toward you until the lower looper extending out 5-10mm from the needle plate edge.
3. Pull the thread with tweezers to pass the lower looper hole (A).
4. Draw the thread with your left hand tightly.
5. Use your finger to push the automatic threader (B) up to the topmost, and then thread goes through the lower looper (C) automatically.

(C) Security "auto switch off"

When you open the panel in front of the loopers the machine stops automatically - FINGER PROTECTION.
Practical sewing

3 thread overlock

For a 3-5 mm wide 3 thread overlock, remove the left needle. Thread both loopers and then the right needle.

For a 5-7 mm wide 3 thread overlock, remove the right needle. Thread both loopers and then the left needle.

3 thread roll hem

Switch the lever to "R". See page 29.

Note:
The tensions may need to be adjusted depending on the type of fabric or thread being used.

Setting:

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<tr>
<th>Stitch:</th>
<th>3 thread overlock</th>
</tr>
</thead>
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<td>right</td>
</tr>
<tr>
<td>Tensions:</td>
<td></td>
</tr>
<tr>
<td>Needle:</td>
<td>3-5</td>
</tr>
<tr>
<td>Upper looper:</td>
<td>3-5</td>
</tr>
<tr>
<td>Lower looper:</td>
<td>7-9</td>
</tr>
<tr>
<td>Stitch length:</td>
<td>1.5-2</td>
</tr>
<tr>
<td>Differential feed:</td>
<td>( N ) (depending on fabric)</td>
</tr>
</tbody>
</table>

Unpicking seams

Cut the loops with sharp scissors. Pull the needle thread and the stitches will come undone.
Maintenance

Knives

The knives are made from special material and are very durable. They can be replaced if the blades become dull or damaged.

Changing light bulb

- Switch the machine off "O" and disconnect it from electricity supply by removing the mains plug.
- Loosen the bulb cover setscrew (A) and remove the bulb cover.
- Unscrew the bulb and replace it with a new one.
- Attach bulb cover and retighten the setscrew.

Note:
Always use 110V/230V/240V 15W bulbs. Bulbs are available from your local dealer.

Cleaning and lubricating

- Disconnect machine from electricity supply.

> During sewing dust and fluff collect in and on the machine. This should be removed regularly.

Your overlocker requires very little lubrication but if used frequently, lubricate the points illustrated (B) with a drop of oil.
## Trouble shooting guide

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<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
<th>Page</th>
</tr>
</thead>
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<tr>
<td>Thread breaks</td>
<td>Thread tension is too tight for thread used.</td>
<td>Reduce thread tension.</td>
<td>27</td>
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<tr>
<td></td>
<td>The machine is not threaded correctly.</td>
<td>Check the threading.</td>
<td>17/19</td>
</tr>
<tr>
<td></td>
<td>Needles are incorrectly inserted.</td>
<td>Insert needles fully into needle clamp with flat side to the back.</td>
<td>21/23</td>
</tr>
<tr>
<td>Needles break</td>
<td>Needles are bent, blunt or the points are damaged.</td>
<td>Replace the needles.</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Needles not inserted correctly.</td>
<td>Guide fabric gently with both hands.</td>
<td>15</td>
</tr>
<tr>
<td>Skipped stitches</td>
<td>Fabric was pulled while sewing.</td>
<td>Guide fabric gently with both hands.</td>
<td>25</td>
</tr>
<tr>
<td>Poor stitch formation</td>
<td>Thread is not wound correctly round tension dials.</td>
<td>Check threading.</td>
<td>17/19</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>21/23</td>
</tr>
<tr>
<td>Seams flute or wave (knits)</td>
<td>Differential feed is set incorrectly.</td>
<td>Adjust differential feed between N and 8</td>
<td>31</td>
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<tr>
<td></td>
<td>Fabric was pulled while sewing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seams pucker</td>
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<tr>
<td>Fabric edges curl</td>
<td>Too much fabric in the stitch formation.</td>
<td>Reduce cutting width, knife to the left.</td>
<td>29</td>
</tr>
<tr>
<td>Thread loops are loose</td>
<td>Too little fabric in the stitch formation.</td>
<td>Increase the cutting width, knife to the right.</td>
<td>29</td>
</tr>
<tr>
<td>Machine does not sew</td>
<td>Cord not plugged in correctly.</td>
<td>Check plug.</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Main switch not on.</td>
<td>Switch machine on &quot;1&quot;.</td>
<td></td>
</tr>
</tbody>
</table>
## Technical data

<table>
<thead>
<tr>
<th>Stitch types:</th>
<th>Points réalisables:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 2 needles. 4 thread overlock with integrated safety seam</td>
<td>- 2 aiguilles, surjet à 4 fils avec point de sécurité intégré</td>
</tr>
<tr>
<td>- 1 needle. 3-thread overlock, 3 thread rolled hem.</td>
<td>- 1 aiguille, surjet à 3 fils Curlet roulé à 3 fils</td>
</tr>
</tbody>
</table>

### Needle system:

HAxI (130/705H)

### Seam width:

3-7 mm

### Stitch length:

1-4 mm

### Presser foot lift:

max. 6 mm

### Handwheel:

rotates counter-clockwise

### Sewing speed:

up to 1300 s.p.m.

### Weight:

7.3 kg

### Dimensions:

340W x 370D x 350H mm

## Standard accessory:

<table>
<thead>
<tr>
<th>Dust cover</th>
</tr>
</thead>
</table>

## Special accessories

<table>
<thead>
<tr>
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<th>Pied pour points invisibles</th>
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</thead>
<tbody>
<tr>
<td>Elasticator foot</td>
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<tr>
<td>Shirring foot</td>
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<tr>
<td>Bead/sequin foot</td>
<td></td>
</tr>
<tr>
<td>Cording foot</td>
<td></td>
</tr>
<tr>
<td>Taping foot</td>
<td></td>
</tr>
</tbody>
</table>

Special accessories are available from your dealer.

Les accessoires ad spéciaux sont disponibles auprès de l'agent.
The product in this manual fulfil the demands in below norms:

72/23 EEC
89/336 EEC
89/392 EEC

Please pay attention on the needle area: The needle area can not be completely proteced, as a totally protection will spoil the fundemental function of the overlook machine.

Great caution should be shown when working in the needle area. It is recommended to disconnect the overlook machine by remove plug from outlet when changing needle, bulb or when other work in the needle area is required.

The right to change in construction and specification reserved.

Dansk

Produktet i denne betjeningsvejledning opfylder kravene i nedenstående normer:

72/23 EEC
89/336 EEC
89/392 EEC

Doch henledes opmærksomheden på, at nålens arbejdsområde på overlook maskinen ikke kan beskyttes fuldt ud, idet en total beskyttelse af nåleområdet vil ødelægge overlook maskinens grundlæggende funktion. Der bør derfor udvises stor forsigtighed ved arbejde i nåleområdet, og det anbefales derfor at overlook maskinen afbrydes på net-stikket ved udskiftning af nål eller ved andet arbejde i nåleområdet.

Ret til ændring i konstruktion og specifikation forbeholdes.