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How to Use This Manual

Notes, Important Notes, and Cautions

ناقش NOTE: A NOTE indicates important information that helps you make better use of your Baby Lock product.

المقولات IMPORTANT: An IMPORTANT note provides information that is essential to properly using your Baby Lock product.

 Triangle CAUTION: A CAUTION indicates a potential for causing harm to your quilting machine, the quilt, or to yourself.
Federal Communications Commissions (FCC) Declaration of Conformity
(For USA Only)

Responsible Party: Tacony Corporation
Corporate Center
1760 Gilsinn Lane
Fenton, MO 63026-0730 USA

declares that the product

Product Name: Baby Lock Coronet

complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the manufacturer or local sales distributor could void the user’s authority to operate the equipment.

Canadian Department of Communications Compliance Statement (For Canada Only)

This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus as set out in the interference-causing equipment standard entitled “Digital Apparatus”, ICES-003 of the Department of Communications.

Radio Interference (Other than USA and Canada)

This machine complies with EN55022 (CISPR Publication 22) /Class B and AUS/NZ 55022/Class B.
Important Safety Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. See the full Declaration of Conformity in the Appendix.

 открывает важную информацию о безопасности

Если вы не прочитаете эту информацию, вы рискуете получить электрический ток. Ознакомьтесь со всеми инструкциями, прежде чем использовать машину.

Важные предостережения:

- Не используйте машину без подключения к сети.
- Перед использованием машины прочитайте всю инструкцию.

Важные предупреждения по безопасности:

ДANGER — To reduce the risk of electric shock:

- A quilting machine should never be left unattended when plugged in. Always unplug the machine from the electrical outlet immediately after using and before cleaning.

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

- The Baby Lock Coronet is heavy. Never attempt to lift it alone. Always use two people when lifting. Always lift from the throat of the machine, not from the handlebars.
- Always unplug the Baby Lock Coronet from the electrical outlet when performing any maintenance, changing the needle, removing thread locks, or when left unattended.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Keep fingers away from all moving parts. Use caution around the needle or sharp external components.
- Change the needle often. Do not use bent or dull needles. “Every quilt deserves a new needle”.
- Switch the machine to the symbol off, or 0, position to turn it off when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, changing hopping foot, and so forth.
- Never drop or insert foreign objects into any opening.
- The Baby Lock Coronet should only be used indoors away from moisture.
- The Baby Lock Coronet should not be stored or used in extreme temperatures.
- Use the Baby Lock Coronet only for its intended use as described in this manual.
- To disconnect from the wall outlet, push the switch to the off position, then remove the plug from outlet pulling from the plug, not the cord. Never operate the Baby Lock Coronet if the cord is damaged or not working correctly. If a mechanical or electrical problem is encountered, return the Baby Lock Coronet to your authorized Baby Lock retailer for examination, repair, electrical or mechanical adjustment.
- It is not recommended that the Baby Lock Coronet quilting machine be used with any machine quilting frame other than those recommended by Baby Lock.
• Use this quilting machine only for its intended use as described in this manual. Use only recommended attachments as contained in this manual.
• Never operate the machine with any air openings blocked. Keep ventilation openings of the machine free from the accumulation of lint, dust, and loose cloth.
• Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
• Do not pull or push the machine across the fabric excessively while stitching. It may deflect the needle enough to cause it to break.
• Use only needles designed for free motion quilting and recommended by Baby Lock for this machine. Other types of needles may break during normal quilting.
• Children shall not play with the machine. Close attention is necessary when this machine is used by or near children.
• This sewing machine may be used by children age 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge, if they are instructed concerning the safe use of the machine, understand the hazards involved, and are supervised.
• Cleaning and user maintenance shall not be made by children without supervision.

Save these instructions.

This machine is intended for household or commercial use.

Disclaimer

Baby Lock and its authorized retailers are not legally responsible or liable for damage to the Baby Lock Coronet when used improperly or not in accordance with the guidelines stated in this manual or when used on Home Machine Quilting Frames not recommended by Baby Lock.

For additional product information, visit our website at: www.babylock.com.

To use the machine safely

1. Carefully watch the needle when sewing. Do not touch the handwheel, take up lever, needle, or other moving parts.

2. Turn the machine off and unplug the cord in the following cases:
   • when you have stopped using the machine
   • when you replace or remove the needle or any other part
   • when you check or clean the machine
   • when you leave the machine unattended

3. Connect the machine directly to the wall outlet or to a surge protector that connects directly to the wall outlet. Do not use extension cords.
To increase the life of your machine

1. Do not store this machine in areas exposed to direct sunlight or high humidity. Never use or store the machine near a heater, an iron, a halogen lamp or other hot things.

2. Use only neutral soaps or detergents to clean the machine. Benzene, solvents and scouring powders can damage the case and the machine and therefore should never be used.

3. Do not drop or bump the machine.

4. Always consult the manual to replace or fix the hopping foot, needle or any other part of the machine.

Optional U.S. Grounding for Customers with 120 VAC Connections

This product is for use on a nominal 120 V or nominal 220 V circuit, and has a grounding plug that looks like the plug illustrated in sketch A above. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in sketch C if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by the metal screw.

☞ IMPORTANT: In Canada, the use of a temporary adapter is not permitted by the Canadian Electric Code.

To repair or adjust the machine

If the machine does not function properly or needs adjustment, first check the troubleshooting chart in the appendix to inspect and adjust the machine yourself. If further assistance is required, please contact your closest authorized Baby Lock retailer.

For more product information and updates, visit our website at www.babylock.com.

The contents of this manual and product specifications are subject to change without prior notice.
## Package Contents/Included Accessories

<table>
<thead>
<tr>
<th>Part name</th>
<th>Part Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baby Lock Coronet Quilting Machine</td>
<td>BLCT16A</td>
</tr>
<tr>
<td>Carriage</td>
<td>QF09517</td>
</tr>
<tr>
<td>Front Handlebars and Display</td>
<td>QM29452</td>
</tr>
<tr>
<td>Ribbon Cable</td>
<td>QM20791</td>
</tr>
<tr>
<td>Bobbin Winder</td>
<td>BLQBW</td>
</tr>
<tr>
<td>Lint brush</td>
<td>JW010270</td>
</tr>
<tr>
<td>Class M Bobbins (5 pieces: one in the bobbin case, four in accessory box)</td>
<td>BLJ-BOB (3 pkg)</td>
</tr>
<tr>
<td>Needle (134 MR) size 16 (pack of 10)</td>
<td>134FG-100</td>
</tr>
<tr>
<td>Needle (134 MR) size 18 (pack of 10)</td>
<td>134FG-110</td>
</tr>
<tr>
<td>Bobbin Case (in the machine)</td>
<td>JW000586</td>
</tr>
<tr>
<td>Thread Antennae</td>
<td>JW010214</td>
</tr>
<tr>
<td>Oiler</td>
<td>JW010272</td>
</tr>
<tr>
<td>Screwdriver (bobbin case)</td>
<td>JW010269</td>
</tr>
<tr>
<td>Power Cord</td>
<td>JW020277</td>
</tr>
<tr>
<td>2.5 mm Allen wrench</td>
<td>QM10286</td>
</tr>
<tr>
<td>4 mm Allen wrench</td>
<td>QM10288</td>
</tr>
<tr>
<td>8 mm open wrench</td>
<td>QM40235</td>
</tr>
<tr>
<td>Hopping foot (installed on machine)</td>
<td>QM10511</td>
</tr>
<tr>
<td>Open-toe hopping foot</td>
<td>QM10510</td>
</tr>
<tr>
<td>Quick Reference Card</td>
<td>QM30278</td>
</tr>
<tr>
<td>Instruction and Reference Guide</td>
<td>IBBLCT16A</td>
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</table>
## Optional Accessories

### Optional Accessories for Coronet Machine

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Part Code</th>
<th>Page References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronet Rear Handlebars and Display</td>
<td>BLCT16-RH</td>
<td>Shown on pages 16 and 56</td>
</tr>
<tr>
<td>Coronet Ruler Base</td>
<td>BLCT16-RB</td>
<td>Shown on pages 19 and 56</td>
</tr>
<tr>
<td>Quick-Set Tension</td>
<td>BLQ-QST</td>
<td>Shown on pages 27 and 56</td>
</tr>
<tr>
<td>Couching Foot Set</td>
<td>BLQ-CCF</td>
<td>Shown on pages 25 and 56</td>
</tr>
<tr>
<td>Glide Foot</td>
<td>BLQ-GF</td>
<td>Shown on pages 25 and 57</td>
</tr>
<tr>
<td>Horizontal Spool Pin</td>
<td>BLJ18-HS</td>
<td>Shown on pages 18 and 57</td>
</tr>
<tr>
<td>Channel Lock</td>
<td>BLJ18-CL</td>
<td>Shown on page 57</td>
</tr>
<tr>
<td>Laser Light Stylus</td>
<td>BLCT16-LL</td>
<td>Shown on pages 20 and 57</td>
</tr>
<tr>
<td>Stylus Adapter Plate and Holder</td>
<td>BLJ18-SA</td>
<td>Shown on page 58</td>
</tr>
<tr>
<td>Stylus</td>
<td>BLJ18-ST</td>
<td>Shown on page 58</td>
</tr>
<tr>
<td>Needle (134 MR) Size 12 (pack of 10)</td>
<td>134FG-80</td>
<td>Not shown</td>
</tr>
<tr>
<td>Needle (134 MR) Size 14 (pack of 10)</td>
<td>134FG-90</td>
<td>Not shown</td>
</tr>
<tr>
<td>Needle (134 MR) Size 20 (pack of 10)</td>
<td>134FG-125</td>
<td>Not shown</td>
</tr>
<tr>
<td>Pro-Stitcher 3</td>
<td>BLPS3</td>
<td>Shown on pages 31 and 58</td>
</tr>
</tbody>
</table>

*Recommended for use on Pearl Frame*

### Optional Accessories for Coronet Frame

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Part Code</th>
<th>Page References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy-Grasp Quilt Clamps (set of 2)</td>
<td>BLQ-EQC</td>
<td>Shown on page 58</td>
</tr>
<tr>
<td>Deluxe Quilt Clamp</td>
<td>BLQ-DQC</td>
<td>Shown on page 58</td>
</tr>
<tr>
<td>2-inch Quilt Clamp (small, set of 2)</td>
<td>BLQ-SQC</td>
<td>Shown on page 59</td>
</tr>
<tr>
<td>3-inch Quilt Clamp (large, set of 2)</td>
<td>BLQ-LQC</td>
<td>Shown on page 59</td>
</tr>
<tr>
<td>Bungee Clamps (set of 4)</td>
<td>BLQ-BC</td>
<td>Not shown</td>
</tr>
<tr>
<td>Casters (package of 2)</td>
<td>BLQ-CASTER</td>
<td>Shown on page 59</td>
</tr>
</tbody>
</table>
## About Your Machine

### General Specifications

The Baby Lock Coronet uses high-tech electronics and an innovative touch-screen user interface to offer greater functionality and ease of operation to home quilters than ever before conceived in the quilting industry. The Baby Lock Coronet quilting machine is a high quality machine that both incorporates robust design features and is easy to service.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sewing Opening Dimensions</td>
<td>8.25 inches X 16 inches (245 mm X 610 mm)</td>
</tr>
<tr>
<td>Sewing Speed</td>
<td>Manual Mode: from 25 stitches per minute to 1800 stitches per minute</td>
</tr>
<tr>
<td></td>
<td>Regulated Mode: from 0 stitches per minute to full speed</td>
</tr>
<tr>
<td>Stitches Per Inch</td>
<td>4 stitches per inch to 18 stitches per inch</td>
</tr>
<tr>
<td>Needle System</td>
<td>134 (135 X 7)</td>
</tr>
<tr>
<td>Needle Sizes (recommended)</td>
<td>From 12/80 to 20/125</td>
</tr>
<tr>
<td>Hook System</td>
<td>Rotary, Horizontal Axis, M-class bobbin</td>
</tr>
<tr>
<td>Bobbin Type</td>
<td>Aluminum, Class M</td>
</tr>
<tr>
<td>Bobbin Case</td>
<td>Type MF</td>
</tr>
<tr>
<td>Motor Type</td>
<td>Brushless DC</td>
</tr>
<tr>
<td>Needle Positioning</td>
<td>Up and down, walking stitch</td>
</tr>
<tr>
<td>Electrical Power</td>
<td>US/Canada: 105 – 120 VAC, 47-63Hz, 600W peak</td>
</tr>
<tr>
<td></td>
<td>Rest of world*: 100 – 250 VAC, 47-63Hz, 600W peak</td>
</tr>
<tr>
<td></td>
<td>* Complies with international standards</td>
</tr>
<tr>
<td>Sew Foot Stroke/Lift</td>
<td>5 mm</td>
</tr>
<tr>
<td>Needle Bar Stroke</td>
<td>35.3 mm</td>
</tr>
<tr>
<td>Take-Up Stroke</td>
<td>73 mm</td>
</tr>
<tr>
<td>Lubrication, main components</td>
<td>Kluber Lube, permanent</td>
</tr>
<tr>
<td>Lubrication of hook</td>
<td>Velocite 10, Texaco 22</td>
</tr>
</tbody>
</table>
Get to Know Your Baby Lock Coronet

Right side view

1. Thread Antennae
2. Thread Guide A
3. Three-Hole Thread Guide B
4. Thread Guide C
5. Top Thread Tension Assembly
6. Stirrup Thread Guide E
7. Take-Up Lever
8. Thread Guide F
9. Front Casing/Frame
10. Handwheel
11. Side Laser Stylus Post Hole
12. Needle Bar
13. Needle Bar Thread Guide
14. Needle
15. Ruler Foot
16. Needle Plate
17. Mount
18. Presser Bar
19. Front Threaded Display Mounting Holes
20. Front Base
21. Back Casing/Frame
22. Rear Base
23. Color Touch-Screen Display USB Connector
24. Threaded Horizontal Spool Pin Mounting Hole
25. Needle Bar Clamp Screw
26. Machine Stitch Regulator (Y-Motion)
Rear and Front Views

27. On/Off Switch
28. Power Cord Connector
29. Accessory Power Outlet
30. Serial Port for Stitch Regulator
31. Laser Light Stylus Power Connector
32. Rear Handlebar USB Connector
33. Rear Threaded Handle Holes
34. Spool Pin 1
35. Electronic Control Pod (C-Pod)
36. Bobbin Assembly
37. LED Light Ring
38. Power Pod (P-Pod)
39. Spool Pin 2
Installation and Setup

Carriage

You should have already set up the Coronet Frame. Refer to the frame manual for detailed instructions about setting up the frame.

To install the carriage and machine on the frame

1. Place the carriage on the table rails, ensuring that the stitch regulator faces the back of the frame.

2. Place the machine on the carriage.

   △ CAUTION: The Baby Lock Coronet is heavy. Never attempt to lift it alone. Always use two people when lifting. Always lift from the throat of the machine, not from the handlebars or needle bar.

3. Plug the ribbon cable from the stitch regulator connector at the back of the machine (see Rear View on the previous page, #30) into the stitch regulator on the carriage.

   ✪ IMPORTANT: If you ever need to remove the machine from the carriage, disconnect the ribbon cable from the stitch regulator at the back of the carriage. Failure to unplug the cable when removing the machine from the carriage could result in damage to the cable, encoders, and carriage.

   ✪ IMPORTANT: The connector is keyed to ensure correct alignment. Make sure the keyed portion of the cable connector aligns with the keyed portion of the encoder connector. Do not force.
Power Cord

To install the power cord

- Insert the cord into the power connector on the rear of the machine. Secure the cord with the metal clip. Plug the three-prong end into power source. Do not turn on the machine until the front handlebars and display are installed.

To disconnect the power cord

- Unplug the cord from the power outlet. Release the metal clip where the cord connects with the machine and then pull out the cord.

For more information, see Power Switch in the Using Your Machine section of this manual.

✏️ NOTE: Make sure that the machine is off before plugging into power source. The rear power switch should be in the 0, or off, position.

Handlebars and Display

⚠️ CAUTION: To prevent any electrical damage to the handlebars, always turn off all power to the machine when connecting or disconnecting the handlebars.

To install the handlebars

1. Ensure that the machine is unplugged from the electrical outlet.

2. Locate the three long button head screws and the 4 mm Allen wrench. Line up the holes on top of the handles with the pre-drilled holes on top of the machine.

3. Slide a single screw into one of the holes until it stops. Hand tighten the bolt enough to secure the handles to the top of the machine. Insert and hand-tighten the remaining two handlebar bolts.

4. Use the included 4 mm Allen wrench to securely fasten the handles to the front of the machine.
5. After the bolts are in place, plug the cable into the USB-style connection located on the front-left side of the machine.

6. Remove the protective plastic from the touch-screen display before using.

**To use the handlebar buttons**

- **Press the Up/Down button** to cycle the needle a half stitch.
- **Press the Speed Up or Speed Down buttons** to change the stitches per minute setting (manual mode) or stitches per inch (regulated mode).
- **Press the Start/Stop button** to start or stop the machine from stitching.

**Optional Accessory: Rear Handlebars and Display**

**To install the optional rear handlebars and display**

- **IMPORTANT:** Install the rear handlebars and display after the front handlebars and display have been installed.

1. Check that the machine is unplugged from the electrical outlet.

- **CAUTION:** All power to the machine must be turned off when installing the rear handlebars. Failure to do so can result in damage to the machine.

2. The rear handlebars come mounted to a bracket. Line up the two holes in the bracket with those on the rear of the machine.
3. Slide the two bolts into holes until they stop. Hand tighten, and then use the 4 mm wrench to securely fasten the handles to the back of the machine.

4. After the two bolts are in place, plug the small connector end of the cable into the port on the left side of the display. Push the plug securely into place.

5. Securely plug the other end of the cable into the port on the back of the machine below the handlebars.

> **NOTE:** See the instructions that accompany the Rear Handlebars and Display.

> **IMPORTANT:** After the rear handlebars have been completely installed and plugged in, test them by turning on the Baby Lock Coronet and looking at the rear display. If nothing appears on the screen, check that both the front and rear handlebar cables are plugged in securely, that your machine is turned on, and that the power cord is plugged into the machine as well as a power source.

### Thread Antennae

*To install the thread antennae*

1. Locate the threaded hole on top of the machine by the handwheel.

2. The thread antennae comes with a washer and a nut. Remove the nut and washer, replace the nut onto the antennae for two or three turns.

3. Place the washer on the hole and insert the thread antennae. The washer protects the painted surface when the nut is tightened.

4. Turn the thread antennae clockwise several revolutions, stopping when the antennae eyelets are positioned directly over the spool pins.

5. Tighten the nut to secure the antennae to the machine.
Optional Accessory: Horizontal Spool Pin

An optional horizontal spool pin is available for metallic and specialty threads wound on a spool (not a cone).

To install the optional horizontal spool pin

1. Remove the nut and washer from the post. Place washer over the threaded hole on the top of machine.

2. Replace nut and screw the post into the threaded hole. Tighten the nut to secure.

3. Place the clamp on the post and place remaining pin in the clamp. Tighten the screw to hold in place.

4. Elevate the end of the pin slightly above horizontal to keep spool from falling off.

5. Thread the machine beginning at horizontal spool pin, bypassing the thread antenna. When using delicate threads with the Horizontal Spool Pin, skip thread guide A. Thread the top hole only of the three-hole thread guide B, back to front. (See Right side view, items 2 and 3.)

6. Continue threading the machine as described in steps 3 through 6 in the section named Threading Your Machine later in this manual.
Optional Accessory: Ruler Base

If you plan to use rulers and templates with the Baby Lock Coronet, you need to purchase the ruler base to give you a large, stable surface on which to rest the ruler or template. The ruler base, rulers, and templates are optional accessories. Please see your authorized Baby Lock retailer.

To install the optional ruler base

1. Starting with the left side, place the ruler base at an angle so that the left holes on the base fit onto the notches on the machine.

2. Lightly flex the right side of the ruler base so that it falls into place.

To remove the ruler base

• Start by lightly lifting the right side of the ruler base off of the notches on the machine; then remove the left side.

To use rulers and templates with your quilting machine

⚠️ CAUTION: Use only one-quarter inch thick rulers and templates with your machine. Do not use rotary-cutting rulers as they are too thin and can easily slip under the hopping foot. Always use a ruler base or extended table to stabilize the ruler.

Keep the ruler flat and quilt only where you are securely holding the ruler. Avoid losing control by walking your hand along the ruler or stopping and repositioning your hand and the ruler.

• Apply gentle three-point pressure to the ruler, as follows.
  1. Press the ruler against any side of the hopping foot.
  2. Press machine against ruler.
  3. Press ruler against ruler base with only as much pressure as is necessary to keep the ruler from slipping. Too much pressure will keep the machine from moving.

The machine’s hopping foot stitches a quilting line that is a quarter inch away from the ruler edge. The markings on all Baby Lock rulers take this into consideration.

⚠️ NOTE: Set the machine to stop in the needle-down position to keep the machine from moving while making adjustments with the ruler.
Optional Accessory: Laser Light Stylus

The laser light (for use with paper pantographs) attaches to a mounting post with a clamp. The mounting post attaches to a threaded hole on the thread-path side of the Baby Lock Coronet.

To install the optional laser light stylus

1. Place the nut on the laser light stylus post with the washer under it and thread the laser post into the threaded hole, near the rear wheel base. Turn until securely in place. Lock in place with nut.

   NOTE: The washer will be under the nut to protect the machine paint. You can also mount the laser on an unused spool pin.

2. Insert the laser light stylus into the laser clamp.

3. Slide the laser light clamp over the post to the desired height and ensure it is secure.

4. Plug the laser’s cable into the Laser Light Stylus Power Connector (see the Rear View diagram, #31) on the side of the control pod. When this cable is plugged in, the laser receives power and is turned on. To turn off the laser, unplug the cable.

The laser projects a straight laser beam visible as a dot on surfaces it hits. Use the laser dot as a guide, or stylus, to trace printed pantograph designs and stitch the continuous pattern onto a quilt.

The laser light stylus can move in any direction by rotating the clamp on the post and pivoting the laser up or down. To make an adjustment, loosen the black thumbscrews, position, and retighten.

IMPORTANT: A label is attached to the laser’s case and contains an arrow which indicates the direction the laser light will shine when energized. The label must remain in place on the laser. Removing the label voids the laser’s warranty.
Laser Operation and Safety

Be sure the laser is attached to the machine and pointed downward toward the table before connecting it to the port. Never point it in a direction that would project the beam into someone’s eyes. If the laser should stop working, ensure the plug is firmly seated into the Baby Lock Coronet laser light stylus power connector.

Laser Focus and Image Size

Focus the laser by turning the threaded housing surrounding the lens clockwise or counterclockwise. The laser image can be adjusted to project a bigger or smaller dot, or focal size. The direction of rotation needed is determined by the distance of the laser from the pantograph surface. Experiment by rotating the threaded end to achieve your desired focal size.

Laser Safety

When using the laser light stylus, observe the following basic safety precautions.

- Never shine directly into the eyes.
- The laser light stylus should never be left on and unattended.
- Do not use the laser light stylus as a toy.
- Pay close attention when the laser light stylus is being used by or near children or pets.
- Use the laser light stylus only for its intended use as described in this manual.

**NOTE:** If you can’t see the threaded housing, the lens may be threaded too far into the laser body. You will need to use a large slotted screwdriver to turn it counter clockwise until the housing is visible. You can then rotate it with your fingertips to bring the light into focus. Be very careful to not scratch the lens when using the screwdriver.

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
Using Your Machine

Power Switch

The power switch is at the rear of the machine. Turn it on by toggling the switch from the 0 position to the 1 position.

⇔ **IMPORTANT**: If you will not be using the machine for more than a day, we recommend you turn off the machine and unplug the power cord from the power source.

⇔ **IMPORTANT**: Refer to the safety instructions.

Lighting

The Baby Lock Coronet includes an LED light ring that illuminates the needle and stitching area. The light automatically comes on when you turn on the machine. Turn off the lights using the Lights button on the Main Screen. For more information about turning on and off the LED light ring, see Overview of the Main Screen in the Using the Touch-Screen Display section of this manual.

Machine Needle

Use only the recommended needle system for your Baby Lock Coronet quilting machine. The machine was timed to use this specific type of needle and it is designed to work with the high quilting speeds and multidirectional stitching the Baby Lock Coronet offers.

The Baby Lock Coronet uses the 134 needle system. Note that the needle has a round shank rather than a shank with a flat side like home sewing machines use.

If you use the recommended needle, you will experience:

- Fewer skipped stitches
- Less needle breakage
- Less thread breakage, especially at high speeds
- Less thread splicing or shredding
- Optimum fabric protection

⇔ **IMPORTANT**: Change the needle regularly. We recommend you use a new needle for each new quilt loaded on the machine, and any time the needle becomes bent, dull, or burred.

⚠️ **CAUTION**: A damaged needle may result in poor stitching quality or may even damage the machine or your quilt.

To change the needle

1. Move the needle bar to the up position by pressing the needle up/down control on the handles.

2. Turn off all power to the machine.
3. Loosen the needle bar clamp screw with the 2.5 mm Allen wrench.

4. Remove the old needle by pulling it down. Discard the old needle in a safe way.

5. With the scarf of the needle (indentation at the back of the needle) facing the rear of the machine and the long groove down the front of the needle facing the front of the machine, push the needle all the way up into the needle bar until it stops.

\[\text{CAUTION}\]: Confirm that the needle is fully inserted and can go no farther up into the needle bar. The needle bar has a sight hole on the opposite side of the needle bar clamp screw. Make sure the needle is touching the top of the sight opening. If it isn’t, the machine timing will be off and it may be possible for the needle to collide with internal parts causing damage not covered by warranty.

6. Fully tighten the needle bar clamp screw.

\[\text{CAUTION}\]: Although you can use your fingers to tighten the needle bar clamp screw, we recommend that after finger tightening the screw you use the 2.5 mm Allen wrench to tighten it just a bit more. The Baby Lock Coronet runs at high speeds and this ensures the needle will not loosen while quilting.

\[\text{CAUTION}\]: Do not over tighten the needle clamp screw as this may strip the threads of the screw. Stripped threads are not covered under the warranty. It may also become difficult to insert the needle properly into the needle bar. Once the screw no longer turns freely by hand, gently turn the screwdriver until the screw is tightened snugly.
<table>
<thead>
<tr>
<th>Needle size</th>
<th>Thread size</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/80 and 14/90</td>
<td>monofilament, 100 wt. silk, 60 wt. poly, mylar</td>
</tr>
<tr>
<td>16/100</td>
<td>monofilament, hologram, 100 wt., 80 wt., 60 wt., 50 wt., 40 wt. silk, poly or cotton thread</td>
</tr>
<tr>
<td>18/110</td>
<td>40 wt. cottons and poly, 30 wt. cottons and poly</td>
</tr>
<tr>
<td>20/125</td>
<td>Any thread 30 wt. and heavier such as 12 wt., 19 wt., 30 wt.</td>
</tr>
</tbody>
</table>

**Machine Quilting Tip: Needle Requirements**

For general quilting, a size 16/100 needle will accommodate most threads and fabrics. Heavier threads, such as top stitch and some decorative threads, require a larger needle such as 18/110 or 20/125. Lofty batts and heavier fabrics such as denim, canvas, or densely woven fabric may also require a larger needle.

**Hopping Feet**

Your machine comes with two hopping feet: a ruler foot (comes installed) and an open-toe foot. Use the ruler foot for everyday quilting and ruler work, and use the open-toe foot when you need greater stitch visibility (such as when you are micro quilting).

**To change the hopping foot**

1. Remove the foot that is on the mount by using the 2.5 mm Allen wrench to loosen the mounting screw far enough that you can slide the foot off of the mount.

2. Slide the desired foot onto the mount. Note that the opening on the side of the foot is lined up with the screw hole. Push the foot up as far as it will go.

   **NOTE:** You may need to push up the presser bar (see Left Side View, Detail A, item 18) when changing the hopping foot.

3. Fully tighten the screw with the 2.5 mm Allen wrench.
Optional Accessories: Couching Feet and Glide Foot

In addition to the ruler foot and open-toe foot that come with your Baby Lock Coronet, Baby Lock offers specialty feet to enhance your quilting: the Couching Foot Set and the Glide Foot.

Bobbin and Bobbin Tension

The Baby Lock Coronet quilting machine uses M-class bobbins that are larger than sewing machine L-class or 15-class bobbins. The larger bobbins hold more thread, enabling you to quilt for a longer time between bobbin changes.

To wind the bobbin

The Baby Lock Coronet comes with a separate bobbin winder. For full instructions about using the bobbin winder, see the instruction manual that was packaged with the bobbin winder.

To insert the bobbin into the bobbin case

⚠️ CAUTION: To prevent personal injury always turn off the power switch while inserting or removing the bobbin case or whenever your hands are near the needle area, such as when you change the needle.

1. Place the bobbin in the bobbin case so that the thread pulls off clockwise when viewing the open side.

2. Slide the thread through the slot and under the tension spring, leaving approximately five to six inches of thread hanging loose.

To test bobbin tension

The bobbin tension is the foundation tension for the entire machine. Always set the bobbin tension first.

☞ NOTE: Check the bobbin tension each time a new bobbin is inserted.

1. With the bobbin properly in the bobbin case, hold the bobbin case in the palm of your hand with the open end facing up.

2. Wrap the thread two to three around the index finger of the opposite hand and lift the bobbin up. The bobbin case should lift up on its side, and slightly lift out of your hand. If the bobbin will not lift up on its side, the bobbin tension is too loose and if it lifts out of your hand, the bobbin tension is too tight.
To adjust the bobbin tension

- Make the bobbin tension adjustment using the screw in the center of the tension spring. Turn clockwise to tighten and counterclockwise to loosen the bobbin tension. Make tiny adjustments to the bobbin tension and test again.

To insert the bobbin case into the machine

1. Move the needle to the up position. Turn off the power to the machine.

2. Place the bobbin in the bobbin case so that the thread pulls off clockwise when viewing the open side.

3. Slide the thread through the slot and under the tension spring, leaving 5 to 6 inches of thread hanging loose.

4. To fit the bobbin case onto the hook spindle in the machine, orient the bobbin case as shown in the photo with the alignment notch to the right. Push the bobbin case inward until it clicks into place.

**NOTE**: Do not insert the bobbin case into the machine by lifting the lever on bobbin case. Use the lever only for removing the bobbin case.
Top Thread Tension

One of the joys of quilting with the Baby Lock Coronet is its ability to handle many different types of thread. You can quilt with almost any high-quality thread as long as you first adjust the bobbin tension and then adjust the top tension to suit the thread you’ve chosen.

Puckering, gathers, and thread breakage occur when the top tension is too tight. Loops and thread nests occur when the top thread tension is too loose or you are using a poorly wound bobbin. Tension may need to be adjusted depending on the fabric, thread, or batting you are using on the project.

> **NOTE:** Top tension should be adjusted after the bobbin case foundation tension adjustment is made.

> **NOTE:** Dark threads will be thicker (because of dye) than light threads of the same weight. The type or brand of thread may also affect tension settings. Each time you change threads, you should check your tension.

> **IMPORTANT:** Before adjusting the top tension remember to pull the top thread up into the tension discs (flossing the thread). Otherwise it will float outside the discs providing little or no top tension. This could cause thread nesting problems on the bottom side of the quilt.

**Machine Quilting Tip: Test the tension settings before quilting**

The best way to make sure the top and bottom tension settings are balanced is by quilting. Keep 4-inch squares of light solid fabric on hand to place at the side of the quilt on the extra batting and backing. Then quilt some loops and swirls and look at the stitches on top and bottom to ensure the tension looks balanced. Fine tune the top tension as needed.

To adjust the top tension

- Test stitching with a scrap of fabric placed on the extra batting and backing at the side of the quilt. Adjust the tension knob as follows until you have balanced tension. Continue to test the stitching on the fabric scrap until you are happy with the tension.

To tighten top tension

- To adjust the top thread tension to be tighter, turn the tension knob clockwise.

To loosen top tension

- To adjust the top thread tension to be looser, turn the tension knob counterclockwise.

> **NOTE:** Unlike the bobbin case tension adjustment, which requires minute adjustments, the top tension knob may require turns anywhere from a quarter of a turn to two to four turns to achieve balanced tension.
Optional accessory: Quick-Set Tension Kit

The Quick-Set Tension Kit replaces the machine’s tension knob. It shows the top tension setting as a numeric value on a display. After you establish the tension setting for a particular thread (brand, weight, and color), record the value so you can easily return to that tension setting when using that specific thread again.

Tension Quick Start Guide

Bobbin adjustments are made in small increments, like ticks of the clock.

1. Always adjust bobbin thread tension first. Then stitch out to check top tension.

2. If top thread looks like Diagram A
   Problem: The top thread tension is too tight.
   Solution: Loosen the top thread tension by turning the tension knob counterclockwise.

3. If top thread looks like Diagram B
   Problem: The top thread tension is too loose.
   Solution: Tighten the top thread tension by turning the tension knob clockwise.
Threading the Machine

Baby Lock recommends that you select and use only high-quality threads for your quilts.

To thread the machine

1. Place thread cone onto spool post ①, insert the thread through the thread-antennae eyelet ② from back to front, continuing to the thread guide ③.

2. Continue to the three-hole thread guide ④. Wrap the thread through all three holes from back to front, being careful not to cross threads. This is recommended for most threads. However, some very delicate threads or metallic threads may require less tension. If you are having problems with thread breaking, try threading only one or two holes of the three-hole thread guide.

3. The thread continues down to thread guide ⑤ and to the tension assembly ⑥.

⚠️ IMPORTANT: The thread must be flossed up between the two tension discs. If the thread is not firmly in place between the two tension discs, the thread will lay on top of the tension discs (no tension) and thread looping on the bottom of the quilt can occur.
4. After the thread is in place, be sure that the thread catches on the take up spring and then pull it down under the stirrup thread guide ⑦.

5. Bring the thread up and through the take-up lever from back to front ⑧, and then to the pigtail thread guide ⑨, and thread through the needle bar thread guide hole ⑩.

6. Make sure the thread is following the groove down the front of the needle and insert thread through the eye of the needle from front to back. While pulling thread through the eye of the needle be careful that the thread does not twist around the needle.

➤ NOTE: Before threading the needle, confirm that the machine is threaded properly and the tension is correct by carefully pulling the top thread. It should pull smoothly with light to medium tension. If thread pulls freely with no tension, rethread the machine, ensuring that the thread is flossed into the tension discs.

➤ IMPORTANT: The Baby Lock Coronet does not have a presser foot lever or top tension release like a home sewing machine. On a home sewing machine the top tension is released when the presser foot is raised, allowing the thread to come freely out of the machine. When a home machine is threaded the tension discs are released and open to allow the thread to easily fall between the tension discs. This isn’t the case with the Baby Lock Coronet quilting machine. The top tension is always tight and the tension discs are never open. Therefore the thread must be pulled up, or flossed, between the tension discs or it will stay outside the discs and float without tension, causing serious tension problems and/or thread nests.
Preparing to Quilt

1. Make sure your machine has been cleaned, oiled, has a new needle, and that the tracks on the frame are free from threads or other debris. If the machine isn’t already plugged in, plug it in now.

2. Select your thread and wind one or more bobbins.

3. Turn on the power switch at the back of the machine.

4. Set your bobbin tension and thread your machine.

5. After loading your quilt, use a scrap of fabric along the edge of the quilt backing and batting to test the top tension. Make adjustments to the top tension as needed.

To bring bobbin thread to the top of the quilt

1. After the machine is threaded, move the machine over the quilt to your starting location.

2. While firmly holding the tail of the needle thread, press the needle up/down button twice, causing the needle to go down through the quilt sandwich and then back to the up position. Or press and hold the up/down button until the needle does a full revolution; then release the button.

3. Move the machine four to six inches while holding the needle thread in place. The bobbin thread will pull up through to the top of the quilt.

4. Grasp the bobbin thread loop and pull it to the desired length. Reposition the needle to the starting location, tie off the threads by quilting a few stitches in place. Then begin quilting.

To start or stop quilting

- Start or stop the machine at any time by pressing the Start/Stop button on the handlebars.
Machine Quilting Tip: Relax!

When quilting, relax your hands and maintain a light touch on the handlebars. Gripping the handlebars too tightly may cause body tension resulting in poor quilting quality. The Baby Lock Coronet, in combination with the Coronet Frame or Baby Lock Pearl Frame system, will give you a smooth even glide while quilting.

Optional Computer-Guided Quilting: Pro-Stitcher®

**NOTE:** The Pro-Stitcher options works best if your Baby Lock Coronet is installed on the Baby Lock Pearl Frame.

The Pro-Stitcher® quilting system integrates Baby Lock’s quilting machines, including the Baby Lock Coronet, with the best computer technology for computer-guided quilting using digital designs. The software is managed from a state-of-the-art tablet computer that is conveniently mounted on top of the machine.

This rich and full-featured software is easy to learn and makes precise quilting simple and fun! For more information about how Pro-Stitcher works, see the Pro-Stitcher user manual.

When Pro-Stitcher is installed and communicating with the Baby Lock Coronet, the top of the Baby Lock Coronet display includes the Pro-Stitcher name:
Using the Touch-Screen Display

The Baby Lock Coronet has a touch-screen display on the front handlebars. Use the display to access the quilting functions of the Baby Lock Coronet, such as to alternate between stitch-regulated and non-stitch regulated operation, to control settings for how you prefer your machine to operate, and to use tools such as counting stitches on a quilt or logging how much time it took to finish your quilt.

Buttons are selected, or on, when they are gold and display white text or graphics. Buttons are off when they are gray and display white text or graphics. When you touch a button, it will toggle on or off, open a pop-up box for you to enter information, or open a screen with more options.

Overview of the Main Screen

The Baby Lock Coronet Main screen provides quick access to all functions.
Toolbar Options

The toolbar is in the upper-right corner of the screen at all times. The button appears gold when it is selected.

Touch the Home icon whenever you need to return to the Main screen.

Touch the Tools icon to open the Tools. For more information about the various tools, see the Machine Tools section of this manual.

Touch the information icon to see system information such as the machine’s hardware and software version numbers, as well as the machine’s lifetime stitch count. For more information about the system information that is available, see Information Screens in the Toolbar Options section of this manual.

Other buttons on the Main Screen

**Needle-stop button:** Touch the button to alternate between having the needle stop in the up or down position when you stop stitching. Your choice displays in gold (as shown at the left).

This button does not move the needle, but rather indicates your preference for the final needle position when quilting is stopped.

**On/Off Indicator:** The circle above the Needle-stop button turns green when you press the Start/Stop button on the handles, indicating that the needle is in motion. When you stop quilting by pressing the Start/Stop button on the handlebars again, the circle turns red, indicating that the needle is not moving.

**LED lights button:** Touch the LED lights button to turn lights on or off.
Stitching Modes

The Baby Lock Coronet enables you to choose between two modes of stitch regulation (Cruise and Precision) or to choose manual stitching.

Manual Stitching Mode

When using the manual stitching mode, the length of the stitch is determined by how quickly or slowly you move the machine around the quilt, in combination with the number of stitches per minute (up to 1800) you have selected. For a consistent stitch length, move the machine at a consistent speed. Experiment with different combinations of quilting speed and stitches per minute to find what optimally works for you.

To use manual stitching mode

- Touch the **Manual** button and then specify the stitches per minute (SPM) by pressing the plus (+) or minus (–) buttons on the screen or selecting one of the two gold boxes with a stitches-per-minute preset. Pressing the plus (+) or minus (–) buttons on the screen to change the stitches per minute has the same effect as pressing the plus (+) or minus (–) buttons on the handlebars while in Manual mode.

To configure the manual stitching mode preset speeds

The manual mode preset speeds are two stitches-per-minute speeds, up to 1800 stitches per minute (SPM), that are saved for quick access from the Main screen. After you set the speeds, you can choose one of the presets when in Manual stitching mode and it becomes the current speed. Perhaps you want one speed when doing overall quilting and another speed for micro quilting.
1. Select Manual stitching mode by touching the **Manual Mode** button.

2. Press the plus (+) button to increase or the minus (–) button to decrease the current stitches-per-minute setting.

3. Touch the **Save** button next to one of the stitches-per-minute presets to save the current setting as a preset.

---

**Machine Quilting Tip: Getting started with Manual Mode**

Set the machine at a medium speed (such as 900) and begin moving it until you become accustomed to the resistance. By moving the machine faster, the stitches will begin to elongate. Either increase the stitching speed or move the machine more slowly to get the stitches at your desired length. When you move the machine more slowly, the stitches get shorter. If you move it too slow, stitches can build up on top of each other, break the thread, or make it extremely difficult to unpick. Decrease the stitching speed, while maintaining a constant motion with the machine, to bring the stitches to the desired length.

**Stitch Regulation**

Stitch regulation maintains a consistent stitch length (stitches per inch) regardless of how quickly or slowly you move the machine.

---

**Machine Quilting Tip: Getting started with stitch regulation**

Set the machine to your desired stitch length. Begin moving the machine to become accustomed to the resistance. The machine motor will slow down or speed up to maintain a consistent stitch length according to how quickly or slowly you move the machine. Moving the machine too fast or in radical or jerky movements will defeat the stitch regulator function.

---

**Machine Quilting Tip: Quilting speed while in stitch-regulation mode**

It is unlikely that you will move the Baby Lock Coronet across the quilt too fast. However, if you do, it will result in an overspeed condition if the machine can’t maintain stitch regulation.
There are two stitch regulation modes: Cruise and Precision.

**To use Cruise stitch regulation**

- Touch the **Regulated** button and then touch the **Cruise** button.

After you press the Start/Stop button on the handlebars, the machine immediately begins quilting according to the stitches-per-minute and stitches-per-inch settings. Similarly, as you bring your quilting to a stop, the needle will continue stitching at the cruise speed (stitches per minute) until you press the stop button on the handlebars. The minimum speed of the needle is dependent upon the stitches-per-minute setting you choose. Baby Lock recommends beginning with a setting of 75. Begin moving the machine to avoid stitching in place for too long.

**Machine Quilting Tip: When to use Cruise stitch regulation**

The constant minimum stitching speed featured in the Cruise stitch regulation is useful for precise placement of stitching, such as when backtracking along the tops of feathers or when creating sharp points such as the point of a star or the bottom of a heart.
To use Precision stitch regulation

- Touch the Regulated button and then press the Precision button.

To Select Stitch Regulation:

1. Touch the Regulated button.
2. Press the Precision button.
3. Press the plus (+) or minus (−) to change the stitches-per-inch setting.
4. Press to select Stitch Regulation.
5. Press to select Precision mode.

Press to select Stitch Regulation.

Press the plus (+) or minus (−) to change the stitches-per-inch setting.

After you press the Start/Stop button on the handlebars, you must begin moving the machine for it to begin quilting according to the stitches-per-inch setting. When you begin moving the machine, stitching begins. When you stop moving the machine, stitching stops but just until you move it again.

NOTE: When using Precision stitch regulation, if you stop moving the machine but do not press the Stop/Stop button, after two minutes it will time out and a message box appears to let you know you will need to press the Start/Stop button to resume quilting.

CAUTION: Always make sure the power is off when changing the needle, replacing the bobbin, or placing your hands near the needle to avoid unwanted stitching in your quilt or in your fingers.

Machine Quilting Tip: When to use Precision stitch regulation

Precision stitch regulation mode is useful for ruler work. Stitch along the length of the ruler for the span of your hand and stop moving the machine, but do not press the Stop button. When you stop moving the machine, the needle pauses. Move the ruler and then begin moving the machine to continue quilting. Precision stitch regulation helps you to avoid bobbles and uneven stitches.
Controlling the Lights

Your Baby Lock Coronet comes equipped with an LED light ring.

To control the lights on the machine

- To toggle the LED light ring on and off, touch the **Lights** button on the Main screen.

When lights are on, the on/off button appears gold in color. Touch the on/off button to quickly turn off the light; the button then will appear gray in color.
Machine Tools

To open the machine tools, touch the Tools icon in the toolbar. After selecting it, the icon turns gold. Choose from the tools on the screen.

Opens the on-screen calculator.

Opens the Diagnostics screen.

Opens the Alarms screen.

Opens the Timers screen.

Opens the Update screen.

Touch the flag icon to alternate among the language options.

After you select an option, the screen changes for you to do any customization of that setting.

On-Screen Calculator

The Baby Lock Coronet includes a basic on-screen calculator. It functions like all basic calculators. For example, press a number button and a function button followed by another number button. Function buttons include addition (+), subtraction (–), multiplication (x), and division (÷). After you’ve pressed the numbers and the function buttons, press the equal sign (=) for the answer.

- Touch the Tools button in the toolbar. Then touch the Calculator button. Press the Home button to return to the Main screen.
Diagnostics

There are several diagnostics tests that you may be asked to perform by Baby Lock product support or authorized Baby Lock retailer. These functions test the motion encoders, the motor control functions, the key switches, and the internal position sensors.

- Touch the **Tools** button in the toolbar. Then touch the **Diagnostics** button. Perform diagnostics tests as needed. Press the **Home** button to return to the Main screen.
To perform the Motor Sensor Test

The Motor Sensor test helps you determine whether there may be a problem with the Baby Lock Coronet motor.

- Press the Motor Sensor Test button. Slowly rotate the handwheel. While rotating, you should hear an audible pulsing beep. If you get a constant solid beep or no beep at all, the test has failed and the machine should be inspected by a qualified Baby Lock retailer.

To perform the Needle Sensor Test

The Needle Sensor test indicates whether the needle position sensor is functioning properly.

- Press the Needle Sensor Test button. Rotate the handwheel. While rotating, you should hear a beep for half of a stitch cycle followed by no beep for the other half. If you hear a constant beep or no beep at all for a full 360° rotation of the handwheel, the test has failed and the machine should be inspected by a qualified Baby Lock retailer.

To perform the Motor Speed Sensor Test

The Motor Speed Sensor test helps you determine whether or not there is a problem with the Baby Lock Coronet speed sensor.

- **NOTE:** Before performing this test, remove the bobbin case and the top thread.

- Press the Motor Speed Sensor button. Then press the Start button on the handlebars and the machine will begin slowly rotating. The display will show a number that should stabilize at 100 if the sensor is functioning properly. Press Start again to stop the machine and the test.

To perform the Keypad Test

The Keypad test verifies that the Baby Lock Coronet is reading the handlebar buttons when they are pressed.

- Press the Keyboard Test button. Then press one of the handlebar buttons. When you press the key, the name of the key appears in a white box on the screen. When you release the key, the name disappears.

To perform the Y-Motion Sensor Test

Use the Y-Motion Sensor test to verify functionality of the Y-axis stitch regulator encoder (the encoder mounted to the rear power pod side machine wheel).

- Press the Y-Motion Sensor test button. Slowly move the machine toward and away from you. You should hear a pulsing beep that pulses faster as you move the machine faster. A solid beep, no beep, or periods of irregular beeping (with constant motion) indicate a problem with the Y-axis encoder.
**NOTE**: The most likely cause of a problem is a stitch regulator wheel that is not making consistent contact with the track. Check the spring tension on the sensor assembly on the machine to assure that it will easily return to the fully extended (down) position after being compressed. Also assure that the track is straight with no dips or indentations and that it is clean and free of contamination. Other causes are an unplugged or damaged cable or possibly an issue with the main control board.

**To perform the X-Motion Sensor Test**

Use the X-Motion Sensor test to verify functionality of the X-axis stitch regulator encoder (the encoder mounted at the rear of the carriage).

- Press the X-Motion Sensor test button. Slowly move the machine left and right. You should hear a pulsing beep that pulses faster as you move the carriage faster. A solid beep, no beep, or periods of irregular beeping (with constant motion) indicate a problem with the X-axis encoder.

**NOTE**: The most likely cause of a problem is a stitch regulator wheel that is not making consistent contact with the track. Check the spring tension on the sensor assembly on the carriage to ensure that it will easily return to the fully extended position after being compressed. Also ensure that the track is straight with no dips or indentations and that it is clean and free of contamination. Other causes are an unplugged or damaged cable or possibly an issue with the main control board.

**Alarms**

The Alarms screen has two alarms: the overspeed alarm and the quilting alarm.

- Touch the Tools icon in the toolbar. Then touch the Alarms button to open the Alarms screen.

  **The overspeed alarm** alerts you if you are moving the machine faster than 100% of the motor capacity.

  **The quilting alarm** enables you to set timed reminders.
To control the overspeed alarm

The overspeed alarm alerts you if you are moving the machine faster than 100% of the motor capacity and therefore are quilting too fast for stitch regulation to work properly.

1. Touch the alarm button to turn it on or off. It is on when it appears gold with the sound-wave symbols. It is off when it appears gray.

2. Press the **Home** button to return to the Main screen.

To set the quilting alarm

After you enable the quilting alarm, the time begins to count down. This alarm measures elapsed time, not machine quilting time. The example below shows 57 minutes and 23 seconds are remaining before the alarm will sound.

1. Specify the amount of time that will elapsed before the alarm will go off. Fine tune the alarm setting by pressing the plus (+) or minus (–) buttons which changes the alarm setting by one minute at a time.

2. Touch the alarm icon to turn on the quilting alarm. When the time has elapsed, an alarm will sound.

Quilt Timer and Stitch Counter

The Timers screen enables you to track the amount of time you work on a quilt and to track the number of stitches on a quilt.

- Touch the **Tools** icon in the toolbar. Then touch the **Timers** button. Press the **Home** button to return to the Main screen.
To track how much time you spend on a quilt

Use the quilting timer to keep track of how much time you spend on a quilt. The quilting timer measures time the machine is actually quilting, not the time the machine is on but not stitching.

1. When you begin a new quilt, press **Reset**.
2. When you are ready to begin tracking the time spent on a quilt, press **Play**. Proceed with your quilting. When you are through quilting for a time, press **Pause**.
3. When you resume quilting, press **Play** again. The quilting timer will continue tracking your time and add it to the previously recorded time.

To track the number of stitches in a quilt

Use the stitch counter to count the number of stitches in a quilt.

- Press the **Reset** button to zero-out the counter when you begin a new quilt. To see the lifetime stitch counter for your machine, see the **Information screen**.
Set Language

The language setting determines the language used on the Baby Lock Coronet information screens. The choices are English, French, German, and Spanish.

To select a language

1. Touch the Tools icon in the toolbar. The Tools screen appears.
2. Press the flag image to rotate through the language options: English, French (Français), German (Deutsch), and Spanish (Español).
3. When the flag representing the language you want to use appears, press the Home button to return to the Main screen.

Updating Machine Software

From time to time Baby Lock releases software updates for the machines. This update feature enables you to take advantage of the latest software capabilities added to machines. When an update is released, download the updated file(s) (www.babylock.com/downloads) to a USB drive using a computer that is connected to the Internet. You will usually need to download two files: one for the machine software and one for the display software. Make a note of the filenames and which is for the machine and which is for the display.
**NOTE:** Save the file(s) to the root directory of the USB drive. (This means that they are not stored in a subdirectory on the drive; they are in the main, or root, directory.)

After downloading the updated software to a USB drive, insert the drive into the USB port on the right side of the display. The arrow will flash until the USB drive is fully inserted. The display changes to show the USB inserted into the machine. If the image doesn’t change, remove and insert the USB drive again. Then touch either the Machine or Display button depending on which software you want to update.

- Touch the **Tools** icon in the toolbar. Then touch the **Update** button. Press the **Home** button to return to the Main screen.

### To update the machine’s software

The USB drive image will connect to the display when the USB drive has been recognized.

**IMPORTANT:** If you have installed the optional rear handlebars, temporarily unplug the rear handlebars while you update the machine software. Plug in the rear handlebars again when the update is complete.

**IMPORTANT:** If you choose to update the machine software from the optional rear handlebars, temporarily unplug the front handlebars. Plug in the front handlebars again when the update is complete.

1. Insert the USB drive into the USB port on the right side of the front display. Then touch the Machine icon on the screen to update the machine’s software. The button will remain gold until the update is completed.
2. The Baby Lock Coronet will search for the machine update file on the USB drive. When the update is complete, the Machine button turns from gold back to gray.

**To update the front display’s software**

1. Insert the USB drive into the USB port on the right side of the front display. Then touch the Display icon on the screen to update the display software. The button will remain gold until the update is completed.

2. The Baby Lock Coronet will search for the display update file on the USB drive. When the update is complete, the Main screen appears on the display.

   
   **NOTE**: If you do not have the optional rear handlebars, you will hear three beeps while the front display is updating.

**To update the optional rear display’s software**

If you have a the optional rear handlebars and display, you will need to update the rear display as well.

- To update the rear display, insert the USB into the port on the right side the rear display and run the display update feature from the rear display.
Information Screen

To open the information screen, touch the Information icon in the toolbar. After selecting it, the icon turns gold. View the information options on the screen.

To monitor system information about your machine

You may need to provide system information to Baby Lock or an authorized Baby Lock retailer when purchasing machine accessories or receiving technical assistance.

- Touch the Information icon in the toolbar.

![Diagram showing lifetime stitch count, machine software version, screen software version, and machine electronics version numbers.](image-url)
Machine Maintenance

Clean and Oil Your Baby Lock Coronet

The only place where you need to regularly oil your machine is the bobbin hook assembly. Failure to keep the hook assembly lubricated can cause severe damage to the machine. We recommend that you oil the hook assembly with each bobbin change and before use if you haven’t used the machine for a few days. A change in the sound of the machine while quilting also indicates that it may need to be oiled.

*NOTE:* Internal oiling needs to be done when the machine is taken to your authorized Baby Lock retailer for routine maintenance and cleaning, every 12 to 24 months, depending on use.

*IMPORTANT:* Only use light sewing machine oil in the hook when oiling your machine.

To clean the bobbin area and oil the bobbin hook

1. Turn off the machine. Then remove the bobbin and bobbin case.

2. Clean the bobbin basket and hook assembly with a soft brush to remove lint.

3. Put a small drop of oil on the hook in the region where the bobbin basket assembly and the rotating hook meet. The oil will work its way back into the interlocking area of the hook and bobbin basket.

4. Replace the bobbin and bobbin case and turn on the machine.

**Machine Quilting Tip: After oiling your machine**

After oiling, always sew on a scrap piece of fabric off to the side of the quilt as oil may cling to thread. Over oiling can cause excess dripping from the bobbin assembly.

*IMPORTANT:* How often you lubricate your machine depends upon how much use it gets. We recommend that you lubricate it before running the machine if it has not been used regularly, or after every bobbin change when using regularly. Failure to keep the machine lubricated will affect stitch quality and may result in a change in the sound of the machine.
**To clean the touch-screen display**

- Use a soft rag or microfiber cloth dampened with isopropyl alcohol and then gently wipe the display to remove any dust or fingermarks.

⚠️ **CAUTION:** Never use any chemicals to clean your display as this may negatively affect the display’s touch-screen response.

**Maintenance Schedule**

In addition to the ongoing cleaning and oiling maintenance, you should have your machine serviced by an authorized Baby Lock retailer every 12 to 24 months, depending on use. They will take care of oiling and greasing internal parts and ensure the machine is in tip-top working order.
Troubleshooting

You can correct many problems on your own. If you need additional help, contact your local, authorized Baby Lock retailer.

First check the following:

1. The AC power cord is properly connected and the power switch is turned on.
2. Confirm that all cables are properly seated into their connections.
3. Turn off the machine completely. Wait for at least ten seconds and then turn it back on.

If the above checks did not solve the problem, refer to the information below.

<table>
<thead>
<tr>
<th>Skipped Stitches</th>
<th>Corrective Measure(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The needle is damaged, dull, bent, or installed improperly</td>
<td>• Replace the needle regularly, at least once per quilt. Use only the recommended needle system.</td>
</tr>
<tr>
<td></td>
<td>• Always change the needle if the needle has struck any hard object such as a straight pin, etc. The tip of the needle can become damaged or burred, resulting in fabric damage as well as skipped stitches, thread breakage, or shredding.</td>
</tr>
<tr>
<td></td>
<td>• Always change the needle if it has been hit, bumped or pulled off center while maneuvering the machine about the quilt. A slightly bent needle can be a major cause of skipped stitches.</td>
</tr>
<tr>
<td>Incorrect needle size</td>
<td>• Use the proper size of needle for the work and thread being used. Some battings and fabrics used in quilting may constrict or impede the thread passing through the front groove of the needle. This diminishes the loop lift required for stitch formation. Typically, a larger needle will solve the problem. However, using certain smaller sizes of needles and ball pointed needles solve some specific problems. You will need to experiment to determine which work best with your combination of fabric, thread, and batting.</td>
</tr>
<tr>
<td>Fabric is too tight on the frame</td>
<td>• Loosen the pole tension on the frame. Fabric that is rolled too tightly causes the fibers to separate and the fabric to bounce while quilting. This reduces the needle friction on the thread, resulting in a smaller thread loop or skipped stitches.</td>
</tr>
<tr>
<td>Thread tension too tight</td>
<td>• Check bobbin case tension and then check top thread tension. (For more information about adjusting tension, see Bobbin and Bobbin Tension and Top Thread Tension in the Using Your Machine section of this manual.)</td>
</tr>
</tbody>
</table>
| The needle is not positioned properly | • Position the needle properly to the needle bar. Inspect the position of the needle to make sure the needle is at the 6 o’clock position. When you stand directly in front of the needle (-facing the bobbin case side of the machine), you will see the entire needle eye directly facing you. This is 6 o’clock position.  
• Make sure (a) the needle is installed all the way into the needle bar to the needle-stop hole in the needle bar, (b) the long groove in the needle is toward the front (bobbin case side), and (c) the scarf (scooped out part of the back of the needle) is toward the back of the machine.  
• The needle can sometimes be rotated to 5 o’clock (slightly right) or 7 o’clock (slightly left) to adjust for a more positive thread loop pickup by the hook point. |
<p>| Improper threading | • Ensure that the machine is threaded correctly. |
| <strong>The Needle Breaks</strong> | <strong>Corrective Measure(s)</strong> |
| The needle is bent or not installed properly | • Replace the needle. Make sure that the needle is pushed into the needle bar clamp until it can go no farther. Visually check that it is up to the top of the stop/sight hole above the needle bar clamp screw. If the needle isn’t installed properly, it can cause damage in the bobbin area and needle plate. |
| The needle hits the needle plate | • Correctly position the needle, needle plate, or hopping foot. Replace with a new needle. |
| <strong>Stitches are Puckered</strong> | <strong>Corrective Measure(s)</strong> |
| The tension is not balanced. Top and bottom tension are both too tight. | • Balance the tension of the needle thread after ensuring the bobbin tension is adjusted correctly. (For more information about adjusting tension, see <em>Bobbin and Bobbin Tension</em> and <em>Top Thread Tension</em> in the <em>Using Your Machine</em> section of this manual.) |
| Needle too large for quilting fabric | • Replace the needle with a size better suited for the fabric. |
| <strong>Poor Stitch Quality</strong> | <strong>Corrective Measure(s)</strong> |
| The tension is not balanced | • Balance the tension of the needle thread after ensuring the bobbin tension is adjusted correctly. (For more information about adjusting tension, see <em>Bobbin and Bobbin Tension</em> and <em>Top Thread Tension</em> in the <em>Using Your Machine</em> section of this manual.) |</p>
<table>
<thead>
<tr>
<th>Issue</th>
<th>Corrective Measure(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobbin case is damaged, corroded, dirty, etc.</td>
<td>• Since thread slides over the surface of the bobbin case at a high speed, make sure the case is free of any lint or foreign matter that could impede thread passage through the machine.</td>
</tr>
<tr>
<td>Moving the machine too fast for needle speed selected (Manual mode)</td>
<td>• Synchronize machine movement and needle speed to get roughly 8 to 10 stitches per inch. Elongated stitches are an indication of moving the machine too fast for the current speed.</td>
</tr>
<tr>
<td><strong>Tension is Poor</strong></td>
<td><strong>Corrective Measure(s)</strong></td>
</tr>
<tr>
<td>Lint caught under the tension spring in the bobbin</td>
<td>• If using short staple threads, inexpensive, or industrial threads, or coated threads, lint and other material will build up under the tension spring and begin to lift the spring, reducing the spring’s ability to compress against the thread. Insert a needle or business card under the spring and clear out the lint. The bobbin tension will return fairly close to its preset tension. Test the tension before quilting.</td>
</tr>
<tr>
<td><strong>Handwheel Won’t Rotate</strong></td>
<td><strong>Corrective Measure(s)</strong></td>
</tr>
<tr>
<td>Thread is entangled and caught in the hook</td>
<td>• Turn off the machine and unplug the machine from the electrical outlet. Lubricate the hook, strongly turn the handwheel clockwise and if necessary counterclockwise several times, and then remove the thread caught in the hook.</td>
</tr>
<tr>
<td><strong>Thread Nests Under Quilt</strong></td>
<td><strong>Corrective Measure(s)</strong></td>
</tr>
<tr>
<td>Not enough tension on top thread</td>
<td>• Check that the machine is threaded correctly. Make certain that the thread is flossed snugly in place between the two tension discs. If the machine is threaded correctly, tighten top tension by rotating the tension knob clockwise. (For more information about adjusting tension, see Bobbin and Bobbin Tension and Top Thread Tension in the Using Your Machine section of this manual.)</td>
</tr>
<tr>
<td>Improper threading</td>
<td>• Refer to threading diagram and threading instructions.</td>
</tr>
<tr>
<td><strong>Hard to Guide Machine</strong></td>
<td><strong>Corrective Measure(s)</strong></td>
</tr>
<tr>
<td>Carriage wheels not centered on track</td>
<td>• Center the carriage wheels on top of the continuous track. Check that the machine carriage has not jumped the track.</td>
</tr>
<tr>
<td>Thread caught in wheels</td>
<td>• Remove all thread or debris in wheels. Check that the tracks are free of lint and threads.</td>
</tr>
<tr>
<td><strong>Motor Fails to Run</strong></td>
<td><strong>Corrective Measure(s)</strong></td>
</tr>
<tr>
<td>On/Off switch turned off</td>
<td>• Turn the machine on by using the switch on the back power pod.</td>
</tr>
<tr>
<td>Machine not receiving power</td>
<td>• Check that the power connector is securely plugged into the back of the machine and the three-prong end is plugged into the power source.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Uneven Quilt Design</td>
<td>Corrective Measure(s)</td>
</tr>
<tr>
<td>Poles may be bowed or bent</td>
<td>• Make certain the fabric is not too tight on the frame, causing the poles to bow.</td>
</tr>
<tr>
<td>Thread Breaks</td>
<td>Corrective Measure(s)</td>
</tr>
<tr>
<td>Thread is poor quality or may have severe twisting or thread rot</td>
<td>• Look for severe twisting of threads when approximately 12 to 15 inches has been pulled off, with the ends pinched together. Cotton threads are particularly susceptible to dry rot or wet rot which makes thread brittle. Do not use poor quality thread, or thread that is rotted or brittle.</td>
</tr>
<tr>
<td>Top and bobbin tensions not balanced</td>
<td>• Balance the tension of the needle thread after ensuring the bobbin tension is adjusted correctly. (For more information about adjusting tension, see Bobbin and Bobbin Tension and Top Thread Tension in the Using Your Machine section of this manual.)</td>
</tr>
<tr>
<td>The machine head has been threaded incorrectly or thread spools are not positioned correctly</td>
<td>• Check that the machine is threaded correctly.</td>
</tr>
<tr>
<td></td>
<td>• Inspect for accidental double wrapping of thread on thread guides.</td>
</tr>
<tr>
<td></td>
<td>• Inspect the thread antennae, making sure the eyelets of the antennae are directly over the spools.</td>
</tr>
<tr>
<td></td>
<td>• Inspect the vertical positioning of the thread cones. Tipped cones can dramatically affect thread tension and can cause breakage.</td>
</tr>
<tr>
<td>Debris in tension discs</td>
<td>• Inspect for particles and remove any fuzz or debris.</td>
</tr>
<tr>
<td>Bobbin rotation is not smooth</td>
<td>• Change the bobbin. The slightest hesitation of the bobbin rotation can be the cause of dramatic tension change and thread breakage.</td>
</tr>
<tr>
<td>Needle is burred, bent or dull, or installed incorrectly</td>
<td>• Change the needle at least once per quilt. Make sure the needle is installed to the top of the stop hole in the needle bar.</td>
</tr>
<tr>
<td>Needle not suitable for thread</td>
<td>• Replace the needle to one better suited for the thread. Use the proper size needle.</td>
</tr>
<tr>
<td>Hesitating too long at one point in quilting motif</td>
<td>• Move more quickly so stitches don’t overlap or build up. When starting the machine, begin moving immediately. Sewing in one place too long will cause the thread to break.</td>
</tr>
<tr>
<td>Improper needle/hook relationship</td>
<td>• Machine timing needs to be checked. Consult your authorized Baby Lock retailer.</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Damage or burr at needle hole of needle plate or other thread handling part</td>
<td>• If thread is shredding at the needle plate, check for burrs or jagged edges. Gently rub with metal cloth to remove the sharp edge. Consult your authorized Baby Lock retailer to polish any hard-to-reach or delicate areas, or if the burr is inside the throat.</td>
</tr>
<tr>
<td>Wrong type of needle</td>
<td>• Use only the needles recommended by Baby Lock: 134 (135x7) sizes 12 through 20.</td>
</tr>
</tbody>
</table>
| Other possible problems | • Needle too close to hook, causing friction and possible collision of hook point and needle (causing broken thread).  
  • Needle plate damage  
  • Hook damage  
  • Broken needles or damaged needle bar clamp |
| **Nothing visible on the display** | **Corrective Measure(s)** |
| Display cables unplugged | • Locate the black cables that plug into the touch-screen display and connect to the side of the machine. Make sure both ends are plugged in securely. |
Optional Accessories

Coronet Rear Handlebars and Display
BLCT16-RH

Coronet Ruler Base
BLCT16-RB

Quick-Set Tension
BLQ-QST

Couching Foot Set
BLQ-CCF
Glide Foot
BLQ-GF

Horizontal Spool Pin
BLJ18-HS

Channel Lock
BLJ18-CL

Laser Light Stylus
BLCT16-LL
Optional Accessories for the Coronet Frame

Easy-Grasp Quilt Clamps (set of 2)
BLQ-EQC

Deluxe Quilt Clamp
BLQ-DQC
2-Inch Quilt Clamp (small, set of 2)  
BLQ-SQC

3-Inch Quilt Clamp (large, set of 2)  
BLQ-LQC

Casters (package of 2)  
BLQ-CASTER