

ellageo[®]

Quilting Upgrade Package
Version 2

*Instruction and
Reference Guide*

Item# BLL-U



FOR THE LOVE OF SEWING

Baby Lock Consumer Helpline: 800-313-4110

www.babylock.com

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Before using this upgrade kit, be sure to read this guide for information on its correct use.

Before You Start

It is important to remember to perform the upgrade according to the Installation Guide. The machine can then be used as described in the Instruction and Reference Guide. New machine features and benefits are described in this guide.

New Features

The following features will be added with the upgrade to version 2.

- A pivot function has been added for easily changing the sewing direction. ( or )
- A function for detecting the fabric thickness and automatically adjusting the presser foot pressure while sewing has been added. ( or )
- A function for adjusting the presser foot to the most suitable height during free-motion quilting has been added. ( or )




Pivoting

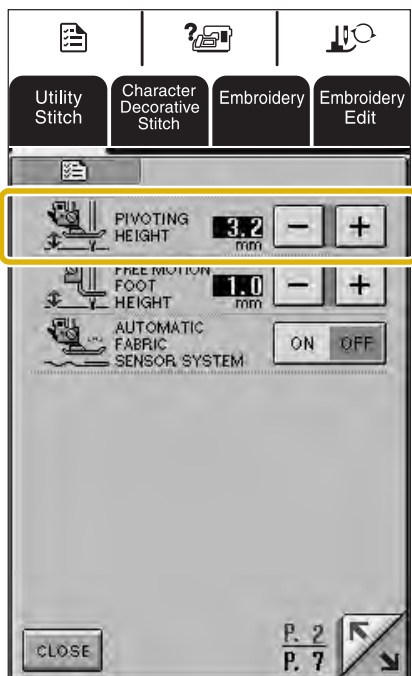
If the pivot setting is selected, the machine stops with the needle lowered (in the fabric) and the presser foot is automatically raised to an appropriate height when the “Start/Stop” button is pressed. When the “Start/Stop” button is pressed again, the presser foot is automatically lowered and sewing continues. This function is useful for stopping the machine to rotate the fabric.

CAUTION





- When the pivot setting is selected, the machine starts when the “Start/Stop” button is pressed or the foot controller is pressed down even if the presser foot has been raised. Be sure to keep your hands and other items away from the needle, otherwise injuries may occur.

Memo

When the pivot setting is selected and sewing is stopped, the height of the presser foot can be changed according to the type of fabric being sewn. Press  to display “PIVOTING HEIGHT” on P. 2 of the settings screen. Press  or  to select one of the three heights (3.2 mm, 5.0 mm or 7.5 mm). To raise the presser foot further, increase the setting. (The default setting is 3.2 mm)

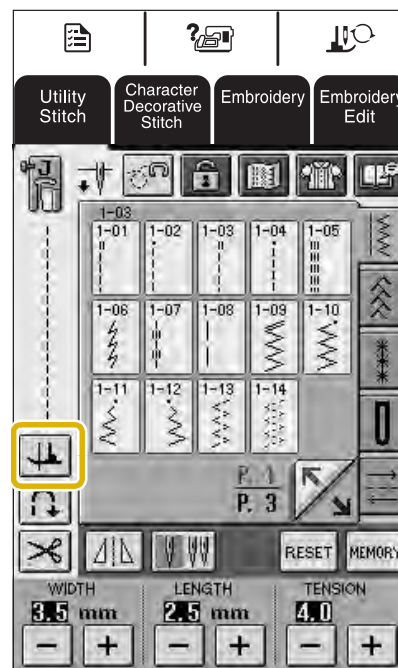


Note

- The “NEEDLE POSITION” (P. 1 of the settings screen) must be set in the down position for the pivot function to be used. When “NEEDLE POSITION” is set in the raised position,  appears as light gray and cannot be used.
- When the setting is selected, the pivot function can only be used with stitches where presser foot J or N is indicated in the upper-left corner of the screen. If any other stitch is selected,  appears as light gray and is not available.
- Since the presser foot is fully raised when the automatic thread cutting key is pressed, press the “Presser Foot Lifter” button to lower the presser foot, and then press the “Start/Stop” button to continue sewing.
- If the pivot setting is selected,  and  beside “PRESSER FOOT HEIGHT” in the settings screen are not available and the setting cannot be changed.
- When the pivot setting is selected the “PRESSER FOOT HEIGHT” in the settings screen will automatically be changed to 10.0 mm. When the pivot setting is deselected the “PRESSER FOOT HEIGHT” will return to the prior setting.

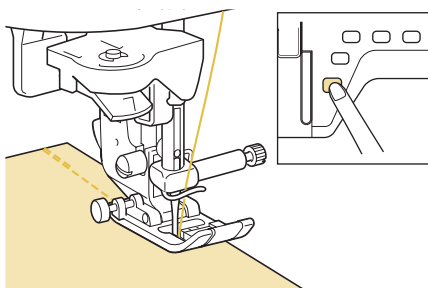
1 Select a stitch.

2 Press  to select the pivot setting.



→ The key appears as .

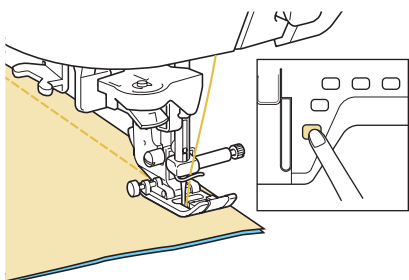
- Place the fabric under the presser foot with the needle at the starting point of the stitching, and then press the "Start/Stop" button. The machine will begin sewing.



Memo

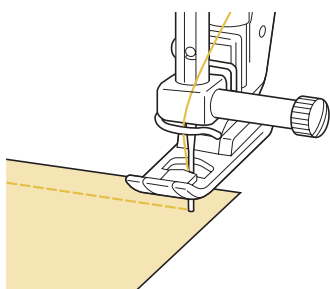
If you press the "Start/Stop" button to pause sewing, then press it again to continue.

- Press the "Start/Stop" button to stop the machine at the point where the sewing direction changes.



→ The machine stops with the needle in the fabric, and the presser foot is automatically raised.

- Rotate the fabric, and then press the "Start/Stop" button.



→ The presser foot is automatically lowered, and sewing continues.

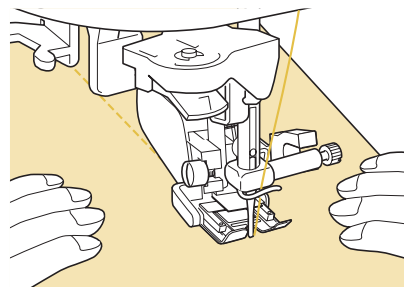
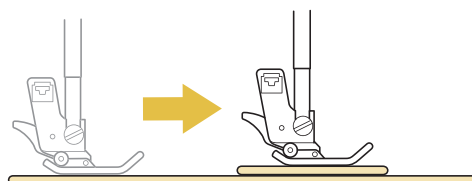
Automatic Fabric Sensor System (Automatic Presser Foot Pressure)



Note

Your machine is not shipped with this feature. Please follow the instructions that follow to activate this feature.

The thickness of the fabric is automatically detected and the presser foot pressure is automatically adjusted with an internal sensor while sewing, so your fabric is fed smoothly. The fabric sensor system works continuously while sewing. This function is useful for sewing over thick seams, or quilting.



- Press  .

→ The settings screen appears.

- Set "AUTOMATIC FABRIC SENSOR SYSTEM" to "ON".



- Press  to return to the original screen.

Free-motion Quilting

For free-motion quilting, use free-motion quilting foot “C” or free-motion open toe quilting foot “O” depending on the stitch that is selected, and set the machine to free-motion sewing mode. In this mode, the presser foot is raised to the necessary height for free-motion sewing.

We recommend attaching the foot controller and sewing at a consistent speed. You can adjust the sewing speed with the speed control slide on the machine.

■ Using Free-motion Quilting Foot “C”

The free-motion quilting foot “C” is used for free-motion sewing using the straight stitch needle plate.



Free-motion quilting foot “C”

⚠ CAUTION

- With free-motion quilting, control the feeding speed of the fabric to match the sewing speed. If the fabric is moved faster than the sewing speed, the needle may break or other damage may result.
- When using free-motion quilting foot “C”, be sure to use the straight stitch needle plate and sew with the needle in middle (center) needle position. If the needle is moved to any position other than the middle (center) needle position, the needle may break, which may result in injuries.

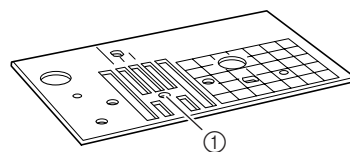
📖 Memo

- When starting to sew, the internal sensor detects the thickness of the fabric, and the quilting foot is raised to the height specified in the machine settings screen. Press to display “FREE MOTION FOOT HEIGHT” on P. 2 of the settings screen. Press or to select the height that the quilting foot is raised. Increase the setting by pressing , for example, when sewing very stretchy fabric, so that it is easier to sew.



- In order to sew with a balanced tension, it may be necessary to adjust the upper thread tension. Test with a sample piece of fabric that is similar to your chosen fabric.

- 1 Follow steps on page 56 through 57 of the machine's Operation Manual to attach the straight stitch needle plate.



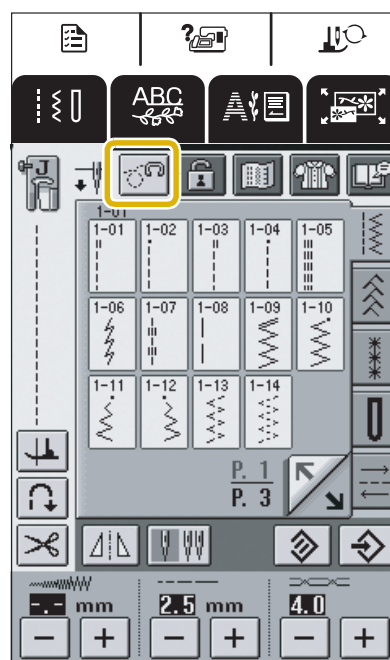
① Single hole



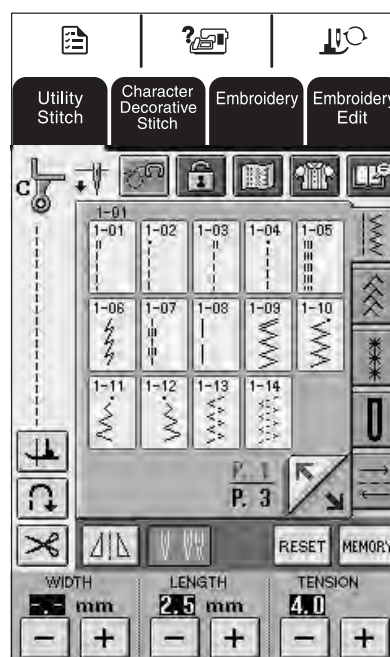
Memo

Notice that this plate has a single hole.

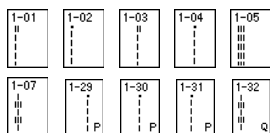
- 2 Press to set the machine to free-motion sewing mode.



→ The key appears as , and the quilting foot is raised to the necessary height for free-motion sewing.



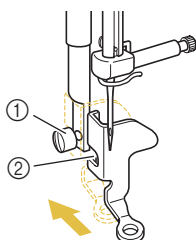
3 Select any of the following stitches.



→ Free-motion quilting foot “C” is indicated in the upper-left corner of the screen.

4 Remove the presser foot holder.

5 Attach free-motion quilting foot “C” at the front with the presser foot holder screw aligned with the notch in the quilting foot.



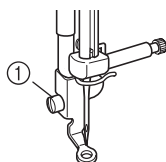
- ① Presser foot holder screw
- ② Notch



Note

Make sure that the quilting foot is attached properly and not slanted.

6 Hold the quilting foot in place with your right hand, and tighten the presser foot holder screw using the screwdriver with your left hand.

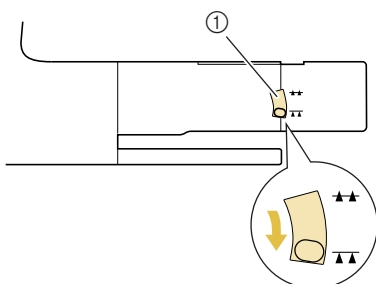


- ① Presser foot holder screw

! CAUTION

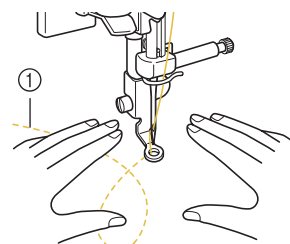
- Be sure to tighten the screw securely with the screwdriver. Otherwise, the needle may touch the quilting foot, causing it to bend or break.

7 Lower the feed dog position switch to **▲▲** to lower the feed dogs.



- ① Feed dog position switch

8 Use both hands to stretch the fabric taut, and then move the fabric at a consistent pace in order to sew uniform stitches roughly 2.0-2.5 mm (approx. 1/16 - 3/32 inch) in length.



- ① Stitch

9 Press  to cancel the free-motion sewing mode.

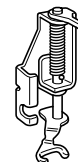


Memo

Do not be discouraged with your initial results. The technique requires practice.

■ Using Free-motion Open Toe Quilting Foot “O”

The free-motion open toe quilting foot “O” is used for free-motion quilting with zigzag or decorative stitches or for free-motion quilting of straight lines on fabric with an uneven thickness. Any stitch can be sewn with the free-motion open toe quilting foot “O”.



Free-motion open toe quilting foot “O”




Note

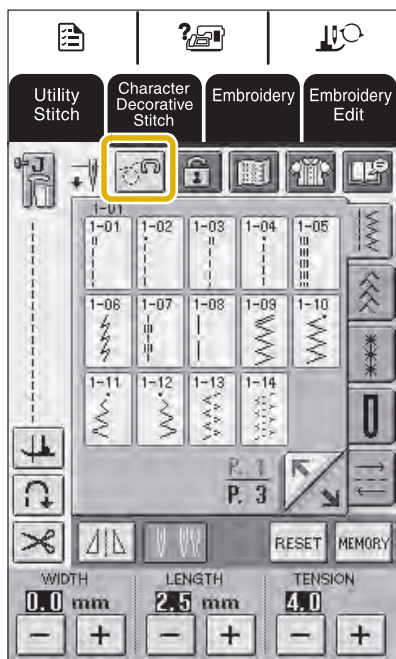
Free-motion open toe quilting foot “O” can also be used with the straight stitch needle plate. We recommend using free-motion open toe quilting foot “O” with free-motion sewing of fabrics of uneven thicknesses.




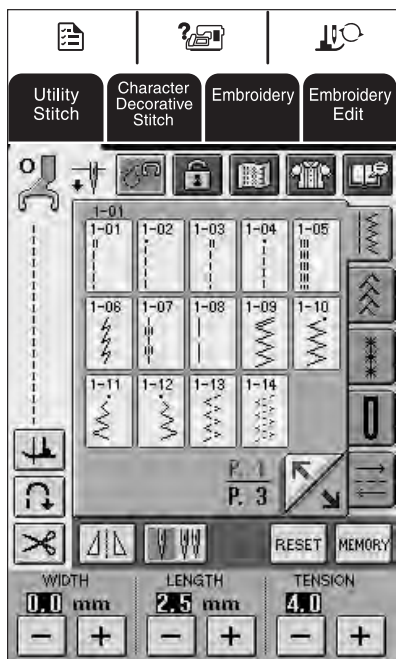
Memo

In order to sew with a balanced tension, it may be necessary to adjust the upper thread tension. Test with a sample piece of quilting fabric.

- 1 Press  to set the machine to free-motion sewing mode.



→ The key appears as , and the quilting foot is raised to the necessary height for free-motion sewing.



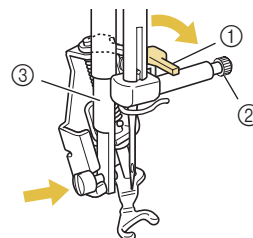
- 2 Select a stitch.

→ Free-motion open toe quilting foot “O” is indicated in the upper-left corner of the screen.



Note
If using straight stitch needle plate with the free-motion open toe quilting foot “O” then the letter “C” will be indicated in the upper-left corner of screen.

- 3 Remove the presser foot holder.
- 4 Attach free-motion open toe quilting foot “O” by positioning the pin of the quilting foot above the needle clamp screw and aligning the lower-left of the quilting foot and the presser bar.

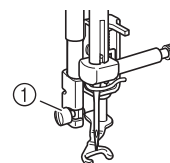


- 1 Pin
- 2 Needle clamp screw
- 3 Presser bar



Note
Make sure that the quilting foot is attached properly and is not slanted.

- 5 Hold the quilting foot in place with your right hand, and tighten the presser foot holder screw using the screwdriver with your left hand.

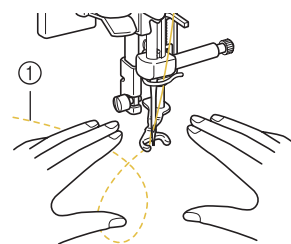


- 1 Presser foot holder screw


CAUTION

- Be sure to tighten the screw securely with the screwdriver. Otherwise, the needle may touch the quilting foot, causing it to bend or break.

- 6 Use both hands to stretch the fabric taut, and then move the fabric at a consistent pace in order to sew uniform stitches roughly 2.0-2.5 mm (approx. 1/16 - 3/32 inch) in length.



- 1 Stitch

- 7 Press  to cancel the free-motion sewing mode.

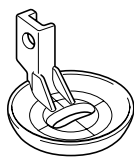


Memo
Do not be discouraged with your initial results. The technique requires practice.

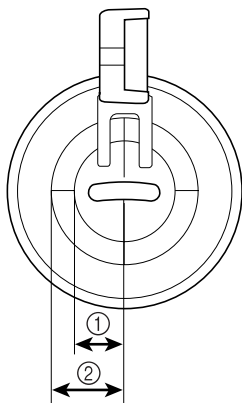
Echo Quilting Using the Free-motion Echo Quilting Foot "E"

Sewing quilting lines at equal distances around a motif is called echo quilting. The quilting lines, which appear as ripples that echo away from the motif, are the distinguishing characteristic of this quilting style. Use the free-motion echo quilting foot "E" for echo quilting. Using the measurement on the presser foot as a guide, sew around the motif at a fixed interval.

We recommend attaching the foot controller and sewing at a consistent speed. Remember that you can also gain greater control by moving the horizontal speed dial to the medium location and using the foot controller.



Free-motion echo quilting foot "E" measurement







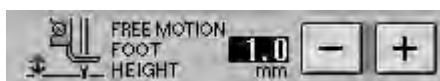
- ① 6.4 mm (approx. 1/4 inch)
- ② 9.5 mm (approx. 3/8 inch)

CAUTION


- With free-motion quilting, control the feeding speed of the fabric to match the sewing speed. If the fabric is moved faster than the sewing speed, the needle may break or other damage may result.

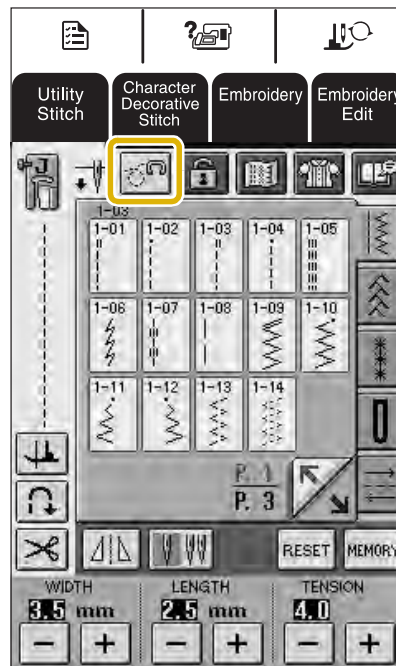
Memo


- When starting to sew, the internal sensor detects the thickness of the fabric, and the quilting foot is raised to the height specified in the machine settings screen. Press  to display "FREE MOTION FOOT HEIGHT" on P. 2 of the settings screen. Press  or  to select the height that the quilting foot is raised. Increase the setting by pressing , for example, when sewing very stretchy fabric, so that it is easier to sew.




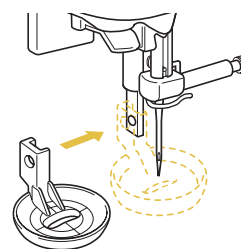
- In order to sew with a balanced tension, it may be necessary to adjust the upper thread tension. Test with a sample piece of quilting fabric.

- 1 Press  to set the machine to free-motion sewing mode.

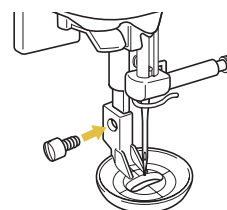


→ The key appears as , and the quilting foot is raised to the necessary height for free-motion sewing.

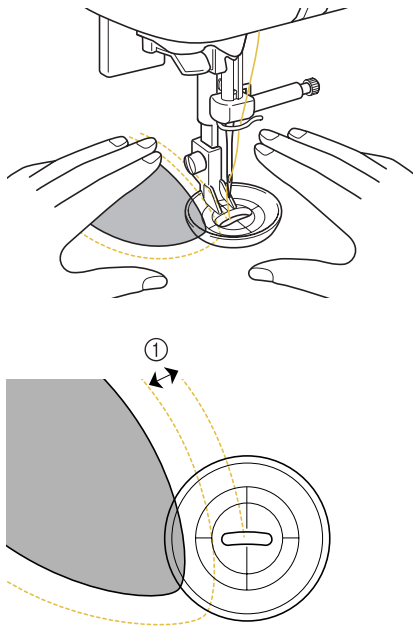
- 2 Select .
- 3 Remove the presser foot.
- 4 Remove the presser foot holder and the screw.
- 5 Position the free-motion echo quilting foot "E" on the left side of the presser bar with the holes in the quilting foot and presser bar aligned.



- 6 Tighten the screw.

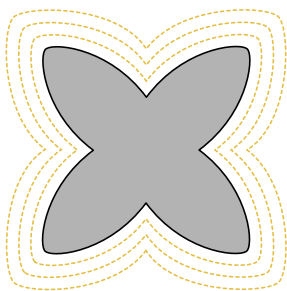



- 7** Using the measurement on the quilting foot as a guide, sew around the motif.



- ① 6.4 mm (approx. 1/4 inch)

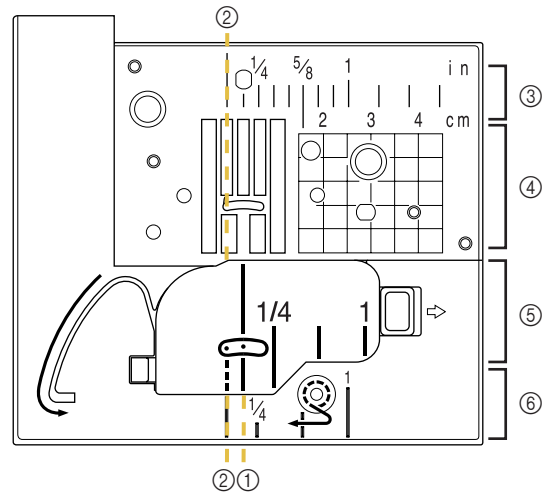
Finished project



- 8** Press  to cancel the free-motion sewing mode.

Measurements on the Bobbin Cover

The measurements on the bobbin cover are references for patterns with a middle (center) needle position. The measurements on the needle plate and the needle plate cover are references for stitches with a left needle position.



- ① For stitches with a middle (center) needle position
- ② For stitches with a left needle position
- ③ Left needle position on the needle plate <inch>
- ④ Left needle position on the needle plate <cm>
- ⑤ Middle (center) needle position on the bobbin cover <inch>
- ⑥ Left needle position on the needle plate cover <inch>

Machine Maintenance

Your machine has been updated to display the following message when maintenance is suggested:



Once this message appears, it is recommended to take your machine to an authorized retailer for a regular maintenance check. Although this message will disappear and the machine will continue to function once the OK key on the LCD screen is selected, the message will display several more times until the appropriate maintenance is performed.

Please take the time to arrange the maintenance your machine requires once this message appears. Such steps will help to ensure you receive continued, uninterrupted hours of machine operation for the future.

