

HOME-USE SEWING MACHINE with OEKAKI FUNCTION

INSTRUCTION MANUAL

OEKAKI 50

OEKAKI SERIES

Read this manual carefully before use and always follow the instructions.

Keep this manual in a convenient place for easy reference.

If you give the sewing machine to someone else, also give them this Instruction Manual.

Before use

Use the "sewing" and "OEKAKI"

functions to create original

projects!

In addition to sewing utility stitches such as straight stitches and decorative stitches, OEKAKI 50 is equipped with the "OEKAKI (free-motion embroidering)" function, allowing you to embroider your own designs. Enjoy creating attractive projects with simple operations using the foot controller.



One-touch switching from operation panel

Switch the sewing mode between "utility stitching" and "OEKAKI (free-motion embroidering)" with the press of a button.

* The presser foot must be replaced with the correct foot when the mode is switched.



Foot controller function differs depending on the mode

The sewing speed (for "utility stitching") or stitch width (for "OEKAKI (free-motion embroidering)") is adjusted by how much the foot controller is pressed down.



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1 Checking accessories

Accessories

Open the package, and check that the following accessories are included.

■ Accessories in the package



- 1 Soft cover (×1)
- 2 Quick adviser holder (×1)
- 3 Power cord (×1)
- 4 Quick instructions (×1)
- 5 Instruction Manual CD-ROM (×1)
- 6 Foot controller (×1)
- 7 Starter kit (×1)
 - * For practicing free-motion embroidering
- 8 Warranty card (×1)

Caution

- Do not connect any controller (device) other than that specified.
- Do not use the power cord with any other machine.
- Do not use an extension cord with the power cord.
- Only use the foot controller that is supplied with this machine.

Accessories in the extension table



Ball point needle no. 11/75 (×1)

- 1 Zigzag sewing foot (×1)
 - * Installed on the sewing machine.
- 2 Overcasting foot (×1)
- 3 Gliding foot (×1)
- 4 Zipper foot (×1)
- 5 Blind stitch foot (×1)
- 6 Embroidering foot (×1)
- 7 Buttonhole foot (×1)
- 8 Non stick foot (×1)
- 9 Quilting guide (×1)
- 10 Needle plate screwdriver (×1)
- 11 Buttonhole cutter (×1)
- 12 Needle
- 13 Plastic bobbin (×5)* One installed in the machine

Vote

 Only use bobbins designed specifically for this sewing machine. Specially designed bobbins can be purchased at http://www.home-sewing.com.
 Otherwise, contact your retailer.



Tip

Some accessories are in the accessory box of the extension table. Open the cover of the extension table, and take out accessories.



Separately sold accessories

Various accessories are sold separately in order to expand the use of the sewing machine.



■ Purchasing separately sold accessories

1 Straight stitch foot

This presser foot is for sewing only straight stitches.

It is useful when sewing thin fabrics.

2 Rolled hemming foot

This presser foot sews rolled hems at the edge of fabric. It can be used when sewing the ends of handkerchiefs and scarves.

3 Clear presser foot

Since this presser foot is transparent, the stitching can be seen, making this presser foot useful for sewing over a drawn pattern or along drawn stitching lines.

4 Gathering foot This foot can be used to easily make frills or gathers in lace.

5 Piping foot

Since this presser foot is off center, it is useful for attaching piping tape.

6 Walking foot

Since this presser foot is fed on top of the fabric, it is useful for stretch fabric or quilted fabric where misaligned stitching easily occurs.

7 Flower stitch foot This presser foot is useful for sewing circular patterns.

8 Twin needle

Using two threads at the same time, patterns can be sewn with parallel stitching.

9 **Supplemental spool pin** This is used when sewing with the twin needle.

These accessories can be purchased from our website (http://www.home-sewing.com). Otherwise, contact your retailer.

2 Important safety instructions

Be sure to read this section before use

These safety instructions are designed to prevent danger or damage arising from the incorrect operation of the machine. Read carefully and always follow the instructions.

■ Explanation of " ⚠️ Warning" and " ⚠️ Caution"

🕂 Warning	An incorrect operation could result in death or serious injury.
▲ Caution	An incorrect operation could result in injuries or damage to the machine.

Symbol explanation

	Do not touch.
\bigcirc	Prohibited actions
0	Required actions
	Remove the power plug from the outlet.

\land Warning

Do not allow the power cord to be damaged, modified, excessively bent, pulled or twisted. Doing so could cause an electric shock or a fire. If the power cord is damaged, it must be replaced by a cord designed specifically for this model.

"UK ONLY Important Read carefully" Changing the power plug

Use an AC 220 to 240 V power source.

Not doing so could cause an electric shock or a fire.





When changing the power plug or cord, do not allow it to be repaired, disassembled or modified, except at an authorized dealer or service center. Doing so could cause an electric shock or a fire.



If, for any reason, the power plug of this product is removed, it should be immediately disposed of safely and not stored where it could be inadvertently used again. Not doing so could cause an electric shock or a fire.

The wires in this main lead are colored in accordance with the following code:

BLUE-NEUTRAL; BROWN-LIVE (OR ACTIVE)

As the colors of the main lead of this appliance may not correspond with the colored markings identifying the terminals in your plug - PROCEED AS FOLLOWS:

The earth plug pin is unnecessary. As the machine is designed under double insulation structure, the earth wire is removed from the machine. The wire colored BROWN must be connected to the terminal marked L or A or colored RED. The wire colored BLUE must be connected to the terminal marked N or colored BLACK. Neither wire is to be connected to the earth terminal of a three-pin plug.

▲ Caution		
0	Be sure to close the bobbin case cover before operating the machine. Not doing so could cause injuries.	
0	Before changing the needle or threading the upper or lower thread, use the main power switch to "turn off" the sewing machine. Not doing so could cause injuries.	
0	Do not look away from the needle while operating the sewing machine. Doing so could cause injuries.	
	Do not touch moving parts such as the needle, take-up lever or handwheel. Doing so could cause injuries.	
\bigcirc	Do not place your hand or fingers under the needle. Doing so could cause injuries.	

⚠ Caution	
\bigcirc	Do not use when young children are near the machine. Children shall not play with the machine as they could touch the needle and be injured.
	When leaving the sewing machine after using it, use the main power switch to "turn off" the sewing machine, and then remove the power plug from the outlet. Not doing so could cause injuries.
0	Before using the sewing machine, make sure that the presser foot holder clamp screw, needle clamp screw and needle plate screw are firmly tightened, and that the presser foot is correctly set in the presser foot holder. Not doing so could cause injuries.
	Before removing covers, oiling or performing any other user maintenance procedures described in this Instruction Manual, be sure to remove the power plug from the outlet. Not doing so could cause injuries.
\bigcirc	 Do not perform the following actions. Doing so could cause injuries. Sewing without lowering the presser foot. Sewing while the needle is incorrectly installed. Using a bent needle. Sewing while jerking the fabric.
\bigcirc	Do not repair, disassemble or modify the sewing machine, except as described in this Instruction Manual. Doing so could cause an electric shock, a fire or injuries.
0	Only use this sewing machine for the intended purposes described in this Instruction Manual. Not doing so could cause injuries or damage.
0	Only use the manufacturer-recommended accessories described in this Instruction Manual. Not doing so could cause injuries or damage.
\bigcirc	Do not drop or insert foreign objects into any gaps, such as those exposed when the face cover or bobbin case is removed. Doing so could cause injuries or damage.
\bigcirc	Do not operate the sewing machine while any ventilation openings are plugged. Do not allow lint, dust or any other material to accumulate in the foot controller or sewing machine ventilation openings. Doing so could cause injuries or damage.
\bigcirc	Do not use the sewing machine outside. Doing so could cause an electric shock or a fire.
\bigcirc	Do not operate the sewing machine in a location where sprays are being used or oxygen is being administered. Doing so could cause a fire.
0	When the sewing machine is not in use, store it safely off the floor since protruding parts may cause injuries if someone trips over it. Not doing so could cause injuries.

▲ Caution



Do not operate the sewing machine on an unstable surface such as a sofa or a bed. If the sewing machine falls down, it could be damaged or cause injuries.



After using the main power switch to "turn off" the sewing machine, remove the power plug from the outlet.

Not doing so could cause injuries or damage.

The machine can be used by, children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, only if they are supervised or have been given proper instructions concerning use of the machine in a safe way and fully understand the hazards involved.

3 Functions of the machine

Part names



- 1 Thread cutter
- 2 Face cover
- 3 Take-up lever
- 4 Thread guide
- 5 Upper thread tension dial
- 6 Operation panel
- 7 Spool pin
- 8 OEKAKI (free-motion embroidering) button
- 9 Reverse sewing button
- 10 Extension table
- 11 LED light (inside)
- 12 Needle clamp screw
- 13 Needle thread guide
- 14 Needle
- 15 Needle plate
- 16 Bobbin case
- 17 Bobbin case cover
- 18 Feed dog
- 19 Presser foot
- 20 Presser foot holder clamp screw
- 21 Presser foot holder
- 22 Needle threader lever
- 23 Buttonhole lever



24 Handwheel

- 25 Thread winder guide
- 26 Thread winding spindle
- 27 Hollow handle for carrying
- 28 Presser foot lever
- 29 Drop feed lever
- 30 Foot controller storage space
- 31 Foot controller jack
- 32 Terminal box
- 33 Main power switch
- 34 Foot controller
- 35 Power cord
- 36 Quick adviser holder

Operation panel part names

From the operation panel on the front of the sewing machine, various stitch settings can be selected.



1 LED display

This displays the number of the selected stitch in addition to the selected settings and sewing speed. It also displays the setting for the function LED that is lit.

2 (() (setting) buttons

These can be used to change the selected stitch and the settings.

$3\left[\frac{\text{START}}{\text{STOP}}\right]$ (start/stop) button

Press to start or stop the sewing machine.

4 (1) (needle up/down) button

Each press of the button raises or lowers the needle. Use this button when changing the sewing direction or sewing intricate areas.

5 (function) button

Each press of the button selects one of the functions (7 through 10).

6 Function LEDs

The LED lights up to indicate the function selected with the function button. The setting can be changed

with the $(\blacktriangleleft)(\blacktriangleright)$ (setting) buttons only for the function whose LED is lit.

7 # 1-50 Stitch number

The number of the stitch selected in utility stitching mode will be indicated.

8 -----> Stitch width

The width of the selected stitch can be changed.

9 ---- Stitch length

The length of the selected stitch can be changed.

10 > >> Sewing speed

The sewing speed can be changed. Press (\P) to sew slower, or press (\blacktriangleright) to sew faster. The selected sewing speed will be maintained, even if another stitch is selected.

11 (OEKAKI (free-motion embroidering)) button

Each press of the button selects the utility stitching mode or the OEKAKI (free-motion embroidering) mode. The button lights up in green when the machine is in the OEKAKI mode.

Functions of various parts

The various parts of the sewing machine have the functions described below.



- If a stitch other than a straight stitch is selected, three reinforcement stitches are sewn, and then the machine stops.
- * Since the presser foot lever does not remain in 3, hold it in place while inserting the fabric. This position is useful when sewing thick fabric.

Operating the foot controller

⚠ Caution



Not doing so could cause injuries.

Caution

• When the foot controller is connected, the sewing machine cannot be started by pressing the start/stop button. At the end of sewing, the machine can be stopped by pressing the start/stop button.

Operation

- **1** Press the 'O' side of the main power switch to turn off the sewing machine.
 - * For details on connecting the power, refer to page 22.



3 Press the '|' side of the main power switch to turn on the sewing machine.



The more you press the foot controller, the faster the machine sews.

Release the foot controller to stop the machine.

- * The speed set with "Sewing speed" (refer to page 47) will be the maximum speed when the foot controller is pressed.
- * In OEKAKI (free-motion embroidering) mode, operating the foot controller changes the stitch width. (refer to page 72)

Caution

• Do not connect any controller (device) other than that specified. Before unplugging the foot controller cord from the jack, turn off the sewing machine.



Connector

Main power

switch

Storing the foot controller

When the foot controller is not being used, it can be stored on the back of the sewing machine.

1 Wind the cord, and place it in the foot controller.



2 Secure the foot controller in the storage area at the back of the sewing machine, as shown in the illustration.

* Align the tabs on the sides of the foot controller with the grooves in the storage space.



Removal

With your fingers, press in on the sides of the foot controller, and then pull it towards you.



Using the quick adviser

Refer to the quick adviser when checking the procedures of basic operations and selecting a stitch.

Installation

When the quick adviser is installed on the sewing machine, you can easily check basic operating procedures and stitch information.

Hook the holders of the quick adviser onto the handle at the back of the sewing machine.





- * When the quick adviser is not in use, it can be stored by folding it down the back of the sewing machine
- * In order to prevent the sewing machine from being tipped over, hold it down when folding down the quick adviser.



• When the quick adviser is installed, do not push down on it with excessive force. Doing so could cause damage.



Placing on a table

The quick adviser can be removed from the sewing machine and placed on a nearby surface such as a table.

Fold back the legs of the quick adviser as shown in the illustration.



4 Sewing preparations

Connecting the power

🕂 Warning



Do not touch the power plug with wet hands. Doing so could cause an electric shock.

Hold the power plug when removing it from the outlet. Not doing so could damage the cord and cause an electric shock, a fire or injuries.

⚠ Caution



Before plugging in the power cord, use the main power switch to turn off the sewing machine.

Not doing so could cause injuries.

- **1** Insert the power cord connector into the terminal box.
- 2 Insert the power plug into the outlet ensuring the outlet is in a safe and accessible position.



3 Press the '|' side (power on) of the main power switch. The power is turned on.

Main power switch



Correct needle selection

A bent needle is extremely dangerous since it may break during use. Before sewing, place the flat side of the needle on a flat surface and check it. Do not use the needle if the space between the needle and flat surface is uneven.



■ Other needle problems



 The point of the needle is blunt/worn away.



 The point of the needle is bent.



Note

• Since a bent or blunt needle is difficult to see, replace the needle if the sewing performance is poor.

Changing the needle

A Caution



Before changing the needle, use the main power switch to turn off the sewing machine. Not doing so could cause injuries.

Be sure to dispose of broken needles in a safe manner.

Not doing so could cause injuries.

Tip

We recommend placing fabric or paper over the needle plate in order to prevent the needle from falling in through any holes in the needle plate.

- **1** Turn the handwheel towards yourself to raise the point of the needle higher than the needle plate.
 - * The needle plate screwdriver will not turn while the needle is raised to its highest position.
- 2 Hold the needle in one hand, loosen the needle clamp screw with the needle plate screwdriver, and then remove the needle.
 - * Loosen the needle clamp screw until the needle can be removed.



3 Position the flat surface of the needle towards the back of the machine, and then insert the needle until it contacts the pin.

* Good sewing results cannot be achieved if the needle does not contact the pin.



Changing the presser foot

For video tutorial, visit http://www.toyotaoekakisewing.com

1 Caution



Before changing the presser foot, use the main power switch to turn off the sewing machine.

Not doing so could cause injuries.

Removal

1 Raise the presser foot lever.



2 Turn the handwheel towards yourself to raise the needle.

Note Note

• Be sure to turn the handwheel towards yourself. If the handwheel is turned in the opposite direction, the thread may become tangled.





Handwheel

Installation

1 Position the presser foot pin directly below the groove in the presser foot holder.



2 Lower the presser foot lever to attach the presser foot.

 Raise the presser foot lever again to check that the presser foot is securely attached.



Tip

In order to avoid losing the presser foot, we recommend storing the machine, when it is not being used, with the needle and the presser foot lowered.

Place a piece of fabric under the presser foot to protect the feed dog.

Changing the presser foot holder





Before changing the presser foot holder, use the main power switch to turn off the sewing machine.

Not doing so could cause injuries.

Removal

- **1** Raise the presser foot lever.
- 2 Follow the procedure described in "Changing the presser foot" (refer to page 25) to remove the presser foot.
- **3** Hold the presser foot holder with your right hand, and then turn the needle plate screwdriver towards the back of the machine with your left hand to loosen the presser foot holder clamp screw.



Installation

- **1** Raise the presser foot lever.
- 2 Align the presser foot holder with the presser bar.



3 Push up the presser foot holder until it contacts the presser foot holder clamp screw, and then, while holding the presser foot holder in place with your right hand, turn the needle plate screwdriver towards yourself with your left hand to tighten the presser foot holder clamp screw.



▲ Caution



Firmly tighten the screw with the included screwdriver, and check that the needle does not hit the presser foot.

If the screw is loose, the needle will hit the presser foot and break or bend, which could cause injuries.

Vote

If the presser foot holder is not correctly installed, the needle may hit the presser foot or the stitching will not be sewn correctly.

5 Threading the sewing machine

Winding the bobbin

For video tutorial, visit http://www.toyotaoekakisewing.com



Note

 Prepare a thread spool and specially designed bobbin.
 Specially designed bobbins can be purchased from our website (http://www.home-sewing.com). Otherwise, contact your retailer.



5 Turn on the sewing machine.

- 4 From the inside, pass the thread through the hole in the bobbin as shown. Place the bobbin on the thread winding spindle so the groove aligns with the shaft projection.
- 3 Pull the thread from the thread spool, and then hold it with one hand (1) while passing it around the thread guide with the other hand (2).

Pull up the spool pin, and then place the spool of

While the bobbin is being wound, do not touch the thread winding spindle or the handwheel.

A Caution

Doing so could cause injuries.

1 Turn off the sewing machine.

thread on it.

2



Main power switch









6 Slide the thread winding spindle in the direction of the arrow until it snaps into place.





blink in sequence to indicate that the bobbin is being wound.

7 While holding the thread with your right hand, press the START (start/stop) button with your left hand. Otherwise, begin winding the bobbin by stepping on the foot controller.

After the thread has been wound around the bobbin about 10 times, press the start (start/stop) button. Otherwise, release the foot controller to stop the sewing machine.





8 Cut off the extra thread above the bobbin hole.

* Cut off the thread so that no excess extends from the bobbin hole.





9 To change the bobbin winding speed, press the (function) button until the ► ► LED lights up, and then select the speed with the (and (setting) buttons. (refer to page 47)

* The bobbin winding speed appears only briefly in the LED display.

10 Press the start (start/stop) button. Otherwise, step on the foot controller to continue winding the bobbin.

When bobbin winding becomes slow, press the

START (start/stop) button again. Otherwise, release

the foot controller to stop bobbin winding.

11 Return the thread winding spindle by sliding it in the direction of the arrow (1), and then remove the bobbin from the thread winding spindle and cut the thread (2).

31









V Note

If the thread winding spindle is not returned, the needle does not move and sewing is not possible.

Threading the lower thread

For video tutorial, visit http://www.toyotaoekakisewing.com

Open the bobbin case cover, and insert the bobbin into the bobbin case. If the bobbin is incorrectly inserted into the bobbin case, the stitching will not be sewn correctly.

- **1** Turn off the sewing machine.
- 2 Remove the bobbin case cover by sliding it towards yourself.



3 Insert the bobbin into the bobbin case so that the bobbin rotates counterclockwise when thread is fed off.



4 Pass the thread through A, then B, and then pull the thread to the back, as shown.

Pull out about 15 cm of thread to the back.

5



6 Insert the tabs on the bobbin case cover into the hook retainer grooves, and then push the bobbin case cover closed.



Threading the upper thread

For video tutorial, visit http://www.toyotaoekakisewing.com



1 Turn off the sewing machine.



2 Raise the presser foot lever.



Otherwise, press the (1) (needle up/down) button to raise the take-up lever to its highest position before turning off the sewing machine in step 1.

* If the needle and take-up lever are not raised, they cannot be threaded.



Presser foot lever



4 Pull up the spool pin, and then place the spool of thread on it.



5 Pull the thread from the thread spool, and then hold it with one hand (1) while passing it around the thread guide with the other hand (2).



6 Pull the thread from the thread guide down through the groove.



7 Wind the thread around from the right to the left.



8 Pass the thread up the groove next to the thread guide plate, then through the take-up lever from the right.



9 Pull the thread down through the same groove.



10 Pass the thread behind the needle thread guide and to the right.

* The thread can easily be passed through the needle thread guide by holding the thread in your left hand, then feeding the thread with your right hand, as shown.


11 Pass the thread behind the right side of the needle thread guide.

12 Pull the thread to check that it passes through the needle thread guide as shown.

- **13** From the front, pass the thread through the eye of the needle.
 - * For details on using the needle threader, refer to page 38.

14 Pass the thread through the slit in the presser foot, and then pull out about 15 cm of thread to the back.









Using the needle threader

For video tutorial, visit http://www.toyotaoekakisewing.com





Before using the needle threader, use the main power switch to turn off the sewing machine.

Not doing so could cause injuries.

* Use sewing machine needles no. 11/75 through 18/110 with the needle threader. (Needle no. 14/90 is included when the sewing machine is purchased.)

The needle cannot be threaded if the thread is too thick for the needle. For details on possible needle and thread combinations, refer to "Relationship between the needle, thread and fabric, and adjusting the thread tension" (page 52).

■ Preparing to use the needle threader

1 Turn the handwheel towards yourself until the needle is in its highest position.



Otherwise, press the $(\downarrow \Rightarrow)$ (needle up/down) button to raise the needle before turning off the sewing machine.

* If the needle is not in its highest position, it cannot be threaded.

2 Raise the presser foot lever.

3 Check that the thread has been passed through the needle thread guide.







■ Understanding the needle threader mechanism





There is a hook within guide B. The hook passes through the eye of the needle, catches the thread, then pulls it through the needle.

■ Using the needle threader

1 Completely lower the needle threader lever, and then hook the thread on guide A as shown in the illustration.



2 Fully turn the needle threader lever to the back, and pull the thread through the needle threader slots.







- 4 Check that the thread has passed through the eye of the needle, and then release the needle threader lever while releasing the thread.
 - * If the needle is not threaded, check that the needle has been raised to its highest position, and then repeat the procedure starting with step **1**.

5 Pull the thread loop that formed behind the needle towards the back of the sewing machine.

6 Pass the thread through the slit in the presser foot, and then pull out about 15 cm of thread to the back.



40







Pulling up the lower thread

For video tutorial, visit http://www.toyotaoekakisewing.com

1 Raise the presser foot lever. Loosely hold the upper thread with your left hand, and then turn the handwheel towards yourself one full turn.



Otherwise, turn on the sewing machine, and then raise the presser foot lever. Loosely hold the upper thread with your left hand, and then press the (\mathbf{r}) (needle up/down) button twice with your right hand.

* The first time that the button is pressed, the needle is lowered. The second time that the button is pressed, the upper thread catches the lower thread and the needle is raised.





2 Lightly pull the upper thread with your left hand to pull up the lower thread.



Pull out the lower thread to the front.



4 Align the two threads, pass them through the slit and under the presser foot, and then pull out about 15 cm of thread to the back.

6 Utility stitching

Selecting the stitch

For video tutorial, visit http://www.toyotaoekakisewing.com

For details on the available utility stitches and presser feet, refer to page 48.

- **1** Press the (inction) button until the # 1-50 LED lights up.
 - * The stitch number appears in the LED display.
 - * Check that the OEKAKI (free-motion embroidering) button is not lit.



- 2 Press the () (setting) buttons to select a stitch number.
 - * Hold down the (\P) button to change the setting quickly.

[Example] To select the blind hem stitch:

Press the (\blacktriangleleft) (\blacktriangleright) button until "9" appears in the display.



Selecting the stitch width

The stitch width (zigzag width) can be adjusted to make the stitching wider or narrower.

1 Press the () (function) button until the ----- LED lights up.

* The stitch width appears in the LED display.



2 Press the () (setting) buttons to select a stitch width.

* The settings that are available differ depending on the selected stitch. For details, refer to "Stitch patterns" (page 48).

Each press of () increases the stitch width (zigzag width).

Each press of (\blacktriangleleft) decreases the stitch width (zigzag width).

😵 Note

- This setting cannot be changed with some stitches.
- If the sewing machine is turned off or a different stitch is selected after this setting has been changed, the setting will return to the default.
- When the straight stitch with variable needle entry point is selected, changing the stitch width moves the position of the needle.

LED display setting "0.0"



Center needle entry point LED display setting "2.5"

Right needle entry point LED display setting "5.0"





After changing the stitch width, slowly turn the handwheel and check that the needle does not hit the presser foot. Otherwise, the needle may bend or break. Not doing so could cause injuries.



Selecting the stitch length

The stitch length can be adjusted to make the stitching wider apart or closer together.

1 Press the (iii) (function) button until the ---- LED lights up.

* The stitch length appears in the LED display.



~~~~~~

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#### **2** Press the (()) (setting) buttons to select a stitch length.

\* The settings that are available differ depending on the selected stitch. For details, refer to "Stitch patterns" (page 48).

Each press of b makes the stitching wider apart.

Each press of ( makes the stitching closer together.

### Note

- This setting cannot be changed with some stitches.
- If the sewing machine is turned off or a different stitch is selected after this setting has been changed, the setting will return to the default.

## A Caution



If the stitches become bunched together, increase the stitch length. Continuing to sew with the stitches bunched together may result in the needle bending or breaking, which could cause injuries.

## Selecting the sewing speed

The sewing speed can be increased or decreased.

# 1 Press the () (function) button until the ► ► LED lights up.

\* The sewing speed appears in the LED display.



### **2** Press the 4 (setting) buttons to select a sewing speed.

\* The sewing speed can be set between 01 (slow) and 10 (fast).

Caution

• If the foot controller is connected to the sewing machine, the sewing speed for a utility stitch is adjusted when the foot controller is pressed.

## Stitch patterns

| Stitch no.        |                                                  | Stitch               | Stitch                               |                    |                   |              |
|-------------------|--------------------------------------------------|----------------------|--------------------------------------|--------------------|-------------------|--------------|
| Stitch<br>pattern | Application                                      | (default<br>setting) | (default<br>setting)                 |                    | Presser foot      |              |
| 1                 |                                                  |                      | _                                    | Zigzag sewing foot | Zipper foot       | Gliding foot |
|                   | Straight stitch (center)                         | 1.0–4.0<br>(2.0)     | (2.5)<br>* Needle<br>position        |                    |                   | A CARL       |
| 2<br>0<br>1<br>1  | Straight stitch with variable needle entry point | 1.0–4.0<br>(2.0)     | 0–5.0<br>(0)<br>* Needle<br>position |                    |                   |              |
| 3<br>             | Reinforced straight stitch                       | 1.0–3.0<br>(3.0)     | (2.5)<br>* Needle<br>position        |                    |                   |              |
| 4                 | Zigzag sewing, appliqués                         | 0–4.0<br>(3.0)       | 1.0–5.0<br>(4.0)                     | Zigzag sewing foot |                   |              |
| 5                 | Mending, thin fabric<br>overcasting              | 0.5–4.0<br>(1.0)     | 3.0–5.0<br>(5.0)                     |                    |                   |              |
| ۰<br>///////      | Reinforced zigzag stitch                         | 1.0–3.0<br>(3.0)     | 2.0–5.0<br>(5.0)                     |                    |                   |              |
|                   | Decorative stitch                                | 1.0–3.0<br>(3.0)     | 3.0–5.0<br>(5.0)                     |                    |                   |              |
| °                 | Thick fabric overcasting                         | 1.0–3.0<br>(3.0)     | 3.0–5.0<br>(5.0)                     | Zigzag sewing foot | Overcasting foot  |              |
| Ŷ                 | Blind hem stitching                              | 1.0–4.0<br>(2.0)     | 2.0–5.0<br>(4.0)                     | Zigzag sewing foot | Blind stitch foot |              |
|                   | Overcasting                                      | 1.0–4.0<br>(2.0)     | 2.0–5.0<br>(5.0)                     | Zigzag sewing foot | Overcasting foot  |              |
| 11 1111           | Stretch stitching                                | 2.5–4.0<br>(3.5)     | 1.5–5.0<br>(2.0)                     | Zigzag sewing foot |                   |              |
|                   | Decorative stitch                                | 1.0–3.0<br>(3.0)     | 3.0–5.0<br>(5.0)                     |                    |                   |              |

| Stitch no.        |                      | Stitch                         | Stitch                        |                    |                   |
|-------------------|----------------------|--------------------------------|-------------------------------|--------------------|-------------------|
| Stitch<br>pattern | Application          | length<br>(default<br>setting) | width<br>(default<br>setting) |                    | Presser foot      |
| 13                | Overcasting          | 1.0–3.0<br>(3.0)               | 3.0–5.0<br>(5.0)              | Zigzag sewing foot | Overcasting foot  |
|                   | Appliqués            | 2.0–3.0<br>(3.0)               | 2.0–5.0<br>(5.0)              | Zigzag sewing foot |                   |
| 15                | Shell tuck stitching | 2.0–3.0<br>(3.0)               | 2.0–5.0<br>(5.0)              |                    |                   |
| 16 pmpmpmp        | Blind hem stitching  | 0.5–4.0<br>(1.0)               | 3.0–5.0<br>(4.0)              | Zigzag sewing foot | Blind stitch foot |
| 17<br>Muhuhumhum  | Decorative stitch    | 0.5–4.0<br>(1.0)               | 3.0–5.0<br>(4.0)              |                    |                   |
|                   | Decorative stitch    | 2.0–4.0<br>(2.0)               | 2.0–5.0<br>(5.0)              |                    |                   |
|                   | Decorative stitch    | 2.0–4.0<br>(2.0)               | 2.0–5.0<br>(5.0)              |                    |                   |
| 20                | Decorative stitch    | 2.0–4.0<br>(2.0)               | 2.0–5.0<br>(5.0)              | T.                 |                   |
|                   | Decorative stitch    | 2.0–4.0<br>(2.0)               | 2.0–5.0<br>(3.5)              | Zigzag sewing foot |                   |
|                   | Decorative stitch    | 2.0–4.0<br>(2.0)               | 2.0–5.0<br>(3.5)              | T.                 |                   |
|                   | Decorative stitch    | 0.5–3.0<br>(0.5)               | 2.0–5.0<br>(5.0)              | •                  |                   |
| 24                | Decorative stitch    | 1.0–3.0<br>(3.0)               | 3.0–5.0<br>(5.0)              |                    |                   |
|                   | Decorative stitch    | 1.5–3.0<br>(3.0)               | 3.0–5.0<br>(5.0)              |                    |                   |

| Stitch no.                                 |                               | Stitch                         | Stitch                        |                    |              |
|--------------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------|--------------|
| Stitch<br>pattern                          | Application                   | length<br>(default<br>setting) | width<br>(default<br>setting) |                    | Presser foot |
| 26                                         | Decorative stitch             | 1.5–3.0<br>(3.0)               | 3.0–5.0<br>(5.0)              |                    |              |
| 27                                         | Decorative stitch             | 1.0–3.0<br>(2.0)               | 3.0–5.0<br>(5.0)              |                    |              |
| 28                                         | Decorative stitch, scalloping | 0.5–1.0<br>(0.5)               | 3.0–5.0<br>(5.0)              |                    |              |
| 29                                         | Decorative stitch             | 0.5–1.0<br>(0.5)               | 3.0–5.0<br>(5.0)              |                    |              |
| 30<br>***                                  | Decorative stitch             | 1.5–3.0<br>(2.0)               | 2.0–5.0<br>(5.0)              |                    |              |
| 31<br>₩₩/₩₩                                | Decorative stitch             | 0.5–1.0<br>(0.5)               | 3.0–5.0<br>(5.0)              |                    |              |
| 32<br>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Decorative stitch             | 0.5–1.0<br>(0.5)               | 3.0–5.0<br>(5.0)              | Zigzag sewing foot |              |
| 33                                         | Decorative stitch             | 1.5–3.0<br>(2.0)               | 3.0–5.0<br>(5.0)              | Y                  |              |
| 34                                         | Decorative stitch             | 1.0–3.0<br>(1.0)               | 3.0–5.0<br>(5.0)              |                    |              |
| 35<br>****                                 | Decorative stitch             | 1.5–3.0<br>(2.5)               | 3.0–5.0<br>(5.0)              |                    |              |
| 36 MMM                                     | Decorative stitch             | 1.5–3.0<br>(2.5)               | 3.0–5.0<br>(5.0)              |                    |              |
| 37                                         | Decorative stitch             | 1.5–3.0<br>(2.5)               | 3.0–5.0<br>(5.0)              |                    |              |
| 38<br> <br>   <br>                         | Decorative stitch             | 1.5–3.0<br>(2.5)               | (2.5)<br>* Needle<br>position |                    |              |

| Stitch no.        |                          | Stitch                         | Stitch               |                    |
|-------------------|--------------------------|--------------------------------|----------------------|--------------------|
| Stitch<br>pattern | Application              | length<br>(default<br>setting) | (default<br>setting) | Presser foot       |
| \$ LANNIN LANN    | Decorative stitch        | 0.5–1.0<br>(0.5)               | 3.0–5.0<br>(5.0)     |                    |
| 40<br>XX<br>X     | Decorative stitch        | 1.5–3.0<br>(2.0)               | 3.0–5.0<br>(4.0)     |                    |
|                   | Decorative stitch        | 0.5–1.0<br>(0.5)               | 3.0–5.0<br>(5.0)     |                    |
| 42<br>            | Decorative stitch        | 0.5–1.0<br>(0.5)               | 3.0–5.0<br>(5.0)     |                    |
| 43                | Decorative stitch        | 1.0–3.0<br>(2.0)               | 3.0–5.0<br>(4.0)     | Zigzag sewing foot |
| 44<br>5<br>5      | Decorative stitch        | 0.0–4.0<br>(1.0)               | (5.0)                |                    |
| 45                | Decorative stitch        | 0.0–4.0<br>(1.0)               | <br>(5.0)            |                    |
|                   | Decorative stitch        | 0.0–4.0<br>(1.0)               | (5.0)                |                    |
| 47 ++++++         | Decorative stitch        | 1.5–3.0<br>(2.0)               | 3.0–5.0<br>(4.0)     |                    |
| 48                | Buttonhole (normal)      | 0.5–1.1<br>(0.5)               | 3.0–5.0<br>(4.0)     |                    |
| 49<br><b>0</b>    | Buttonhole (round-ended) | 0.5–1.1<br>(0.5)               | 3.0–5.0<br>(4.0)     | Buttonhole foot    |
| <b>J</b>          | Buttonhole (keyhole)     | 0.5–1.1<br>(0.5)               | 4.0–5.0<br>(5.0)     |                    |

# Relationship between the needle, thread and fabric, and adjusting the thread tension

The quality of the sewing finish will improve if the needle and thread are selected to match the type of fabric used. Follow the recommendations in the table below.

Normally, sew with the upper thread tension dial set to " --- ".

|                           | This fabrics                                                    | No weed folged as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Thick folgion                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | I nin tabrics                                                   | Normal fabrics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | I NICK TADRICS                                                                                                                                                                                                                                                                                                                                                                                                           |
| Needle                    | No. 11/75                                                       | No. 14/90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No. 18/110                                                                                                                                                                                                                                                                                                                                                                                                               |
| Thread                    | Polyester No. 90<br>Cotton No. 80 to No. 120<br>Silk No. 80     | Polyester No. 50 to<br>No. 60<br>Cotton No. 60 to No. 80<br>Silk No. 50 to No. 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Polyester No. 30 to<br>No. 50<br>Cotton No. 40 to No. 50<br>Silk No. 50                                                                                                                                                                                                                                                                                                                                                  |
| Fabric                    | Lining<br>Cuprammonium rayon<br>Georgette<br>Lawn<br>Lace, etc. | Normal clothing fabric<br>Broad<br>Soft denim<br>Satin<br>Pile<br>Gingham, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Curtains<br>Denim<br>Quilting<br>Fleece<br>Tweed<br>Felt, etc.                                                                                                                                                                                                                                                                                                                                                           |
| Upper thread tension dial |                                                                 | ► -1<br>+1<br>+2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | +1<br>+2<br>+3<br>+4                                                                                                                                                                                                                                                                                                                                                                                                     |
|                           | Needle<br>Needle<br>Thread<br>Fabric                            | Inin rabricsNo. 11/75NeedleNo. 11/75No. 11/75Polyester No. 90<br>Cotton No. 80 to No. 120<br>Silk No. 80DisplayLining<br>Cuprammonium rayon<br>Georgette<br>Lawn<br>Lace, etc.Upper thread<br>tension dialImage: Comparison of the second se | Inin fabricsNormal fabricsNeedleNo. 11/75No. 14/90NeedlePolyester No. 90<br>Cotton No. 80 to No. 120<br>Silk No. 80Polyester No. 50 to<br>No. 60<br>Cotton No. 60 to No. 80<br>Silk No. 50 to No. 80ThreadLining<br>Cuprammonium rayon<br>Georgette<br>Lawn<br>Lace, etc.Normal clothing fabric<br>Broad<br>Soft denim<br>Satin<br>Pile<br>Gingham, etc.Upper thread<br>tension dial $\int_{-2}^{-3}$ $\int_{-1-3}^{-3}$ |

• Use a ball point needle for the sewing alignment of stretch fabric.

• When purchasing any needles not included as accessories, check that they are specified as home-use sewing machine needles.

- Use the same type of threads for the upper and lower threads.
- The larger the needle number, the thicker the needle. The larger the thread number, the thinner the thread.
- It may be necessary to adjust the upper thread tension according to the fabric, thread and needle combination. (Refer to page 88.)

### Tip

#### <Selecting a needle suitable for the thread>

Pass the thread to be used through the eye of the needle, and then hold both ends of the thread to give the thread slack so that the needle slides along it, as shown.

If the needle does not catch, the needle and thread are a good combination. Since a needle that is too thick for the thickness of the thread will result in poorquality stitching, select the needle with the smallest number possible, which will not catch on the thread.

If the needle frequently catches on the thread or does not slide along it, stitching of poor quality will be produced. In this case, select a needle with a different number or a different type of thread.



+1

## 7 Sewing (utility stitching)

## **Basic operations**

## ▲ Caution



Before changing the presser foot, use the main power switch to turn off the sewing machine.

Not doing so could cause injuries.

**Do not pull the fabric excessively while sewing.** Doing so could break the needle and cause injuries.

### Straight stitch

For video tutorial, visit http://www.toyotaoekakisewing.com

#### **1** Select the stitch in the operation panel.

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* Refer to "Selecting the stitch" (page 44).



#### 2 Select the stitch length

- \* Refer to "Selecting the stitch length" (page 46).
- **3** Press the (1) (needle up/down) button to raise the needle.
- **4** Position the fabric under the presser foot, and then lower the presser foot lever.
- 5 Lightly guide the fabric with your hands, and then press the start (start/stop) button. Otherwise, begin sewing by stepping on the foot controller.
  - \* For details on changing the sewing speed, refer to "Selecting the sewing speed" (page 47).

Caution

• When the foot controller is connected, the sewing machine cannot be started by pressing the start/stop button. At the end of sewing, the machine can be stopped by pressing the start/stop button.

#### Ending stitching

Press the start/stop button, or release the foot controller, to stop the sewing machine.

If sewing is finished, raise the presser foot, and then pull the fabric to the back.

\* If the fabric cannot be removed, turn the handwheel towards yourself until the needle is in its highest position, and then pull out the fabric.

#### ■ Thread cutting

Line up the two threads, and then cut them with the thread cutter on the face cover.





#### Reverse sewing

Reverse sewing is performed at the beginning and the end of sewing to prevent the thread from unraveling.

Reverse stitches are sewn while the reverse sewing button is pressed.

- \* Sew 3 to 4 reverse stitches at the beginning and end of sewing to prevent unraveling.
- \* Remove your finger from the reverse sewing button to return to forward direction sewing.
- \* If a stitch other than a straight stitch is selected, three reinforcement stitches are sewn, and then the machine stops.



#### ■ One stitch sewing

Use this when changing the sewing direction.

1 When the sewing machine is stopped with the needle raised, press the (⊥) (needle up/down) button.

The needle is lowered into the fabric.

2 Lift up the presser foot lever, and then turn the fabric in the desired sewing direction.





- \* Pressing the needle up/down button again will raise the needle.
- \* By repeating one stitch sewing operation, it is possible to sew step by step.
- \* The same procedure can be done by tapping on the foot controller.







### **Advanced operations**



Before changing the presser foot, use the main power switch to turn off the sewing machine.

Not doing so could cause injuries.

#### ■ Zigzag sewing

#### **1** Select the stitch in the operation panel.

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* Refer to "Selecting the stitch" (page 44).



#### **2** Select the stitch width and stitch length.

- \* Refer to "Selecting the stitch width" (page 45) and "Selecting the stitch length" (page 46).
- **3** Press the (1) (needle up/down) button to raise the needle.
- **4** Position the fabric under the presser foot, and then lower the presser foot lever.
- 5 Lightly guide the fabric with your hands, and then press the (START) (start/stop) button. Otherwise, begin sewing by stepping on the foot controller.
  - \* For details on changing the sewing speed, refer to "Selecting the sewing speed" (page 47).

Caution

• When the foot controller is connected, the sewing machine cannot be started by pressing the start/stop button. At the end of sewing, the machine can be stopped by pressing the start/stop button.

#### Overcasting

For video tutorial, visit http://www.toyotaoekakisewing.com

This is a sewing method that prevents unraveling at the edge of the fabric.

#### □ When using the overcasting foot

▲ Caution

When using the overcasting foot, select stitch number 4, 8, 10 or 13, and set the stitch width to 5.0.

Not doing so could cause the needle to hit the presser foot and break, which may result in injuries.

#### **1** Select the stitch in the operation panel.

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* Refer to "Selecting the stitch" (page 44).



#### **2** Select the stitch width and stitch length.

\* Refer to "Selecting the stitch width" (page 45) and "Selecting the stitch length" (page 46).



- **3** Press the (1) (needle up/down) button to raise the needle.
- **4** Position the fabric under the presser foot, and then lower the presser foot lever.
- 5 Sew with the edge of the fabric against the guide on the foot.
  - \* By sewing with the fabric against the guide, the stitching can be sewn without having to constantly check the needle entry point.



#### □ When using the zigzag sewing foot

#### **1** Select the stitch in the operation panel.

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* When sewing thin fabrics, select stitch number 5.
- \* When sewing stretch fabrics, select stitch number 13, 15, 18, 22 or 26.
- \* Refer to "Selecting the stitch" (page 44).



#### **2** Select the stitch width and stitch length.

- \* Refer to "Selecting the stitch width" (page 45) and "Selecting the stitch length" (page 46).
- **3** Press the (1) (needle up/down) button to raise the needle.
- **4** Position the fabric under the presser foot, and then lower the presser foot lever.
- 5 Position the fabric so that the needle extends slightly off the edge of the fabric when the needle moves to the right.



#### Blind hem stitching

#### For video tutorial, visit http://www.toyotaoekakisewing.com

Use this sewing method to sew the hems of skirts and pants with blind stitches. With this method, the stitching cannot be seen from the front of the fabric.

#### **1** Select the stitch in the operation panel.

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* Refer to "Selecting the stitch" (page 44).



#### **2** Select the stitch width and stitch length.

\* Refer to "Selecting the stitch width" (page 45) and "Selecting the stitch length" (page 46).



**5** Press the (1) (needle up/down) button to raise the needle.

6 Turn the handwheel towards yourself until the needle is as far as possible to the left.



# 7 Position the fabric so that the needle slightly catches the fold.

\* Only catch 2-3 threads on the project fold as shown below in correct stitching diagram.

Needle on left side



8 Lower the presser foot, adjust the adjusting screw so that the fold aligns with the guide, and then sew with the fold against the guide.

|--|

Use a color thread that best matches to the fabric when sewing hems.



#### Correct



#### Incorrect



Refer to steps 6 to 8 and follow the instructions carefully.

#### ■ Zipper insertion

For video tutorial, visit http://www.toyotaoekakisewing.com

With this method, the left side of the zipper is sewn first.





While sewing, do not allow the needle to hit the zipper teeth.

Doing so could break the needle and cause injuries.

#### **1** From the operation panel, select stitch number 1 (straight stitch (center)).

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* Refer to "Selecting the stitch" (page 44).



#### 2 Select the stitch length

\* Refer to "Selecting the stitch length" (page 46).

4

#### □ Sewing the left side of the zipper

- **1** Align the zipper and fabric, and tack them together.
  - \* For details on tacking, refer to "Tacking" (page 84), or sew tacking by hand.

2 Attach the right-side pin of the zipper foot to the presser foot holder.

**3** Position the fabric so that the zipper is on the right side of the presser foot and groove runs on the zip teeth.

the slider, and then stop the sewing machine.

Sew until just before the presser foot makes contact with

5 Turn the handwheel towards yourself to lower the needle into the fabric. Otherwise, press the ① (needle up/down) button to lower the needle.











- 6 Raise the presser foot lever.
- 7 Move the slider behind the presser foot, lower the presser foot lever, and then finish the sewing.



#### □ Sewing the right side of the zipper

Release the presser foot, and then attach the left-side pin to the presser foot holder. Sew the right side of the zipper using the same procedure as for the

left side.

Sewing in the same direction as on the left side will help prevent sewing misalignment.



#### Buttonhole sewing

#### For video tutorial, visit http://www.toyotaoekakisewing.com

Buttonholes can be sewn to match the size of the button. With stretch fabrics or thin fabrics, it is recommended to use a stabilizer for a better buttonhole finish.

#### **1** Select the stitch in the operation panel.

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* Refer to "Selecting the stitch" (page 44).
- \* Before sewing buttonholes, check the stitch length and stitch width by sewing a trial buttonhole on a scrap piece of fabric.
- \* Maximum size of the button is diameter 25.4mm.



The buttonhole will automatically be sewn in the order of the numbers shown in the illustration.



# 2 Mark the position of the beginning of sewing for the buttonhole.

Centerline



Mark for beginning Illustration of finished buttonhole

# **3** Pull out the button holder plate on the presser foot, and then insert the button to fit into the holder.

\* The size of the buttonhole to be sewn is determined by the size of the button placed in the button holder plate.



4 Align the marks on the fabric with the marks on the presser foot, and then lower the presser foot lever.



Pass thread under presser foot.

5 Lower the buttonhole lever behind the tab on the buttonhole foot, as shown.





6 Lightly hold the end of the upper thread, and then begin sewing.

- \* Sew the buttonhole by pressing the start/stop button or stepping on the foot controller.
- \* Once sewing is completed, the machine automatically sews reinforcement stitches, then stops.



## A Caution



When cutting buttonholes with the included buttonhole cutter, do not place your fingers or hands in front of the cutter.

Doing so could cause injuries to your hand.

# 7 Use the included buttonhole cutter to cut the center, making sure not to cut the stitches.

\* Putting a marking pin in the bar-tack area helps prevent the bartack from being cut by the buttonhole cutter.



#### Shortening jeans

For video tutorial, visit http://www.toyotaoekakisewing.com

Use the Gliding foot to sew fabric of varying thicknesses, especially when hemming jeans.

## ▲ Caution



The thickness of the layers must not exceed 8 mm. Do not force fabric layers under the presser foot.

Doing so could break the needle and cause injuries.

## **Caution**



Use this presser foot only with stitch number 1 (straight stitch (center)). Not doing so could cause the needle to hit the presser foot and break, which may result in injuries.

#### **1** From the operation panel, select stitch number 1 (straight stitch (center)).

- \* Check that the OEKAKI (free-motion embroidering) button is not lit.
- \* Refer to "Selecting the stitch" (page 44).



not lit

#### 2 Select a stitch length between "3.0" and "4.0" (recommended).

\* Refer to "Selecting the stitch length" (page 46).

### Tip

Maximum thickness of denim when sewing in the utility stitching mode Up to 12 layers of soft denim (12 oz) Up to 9 layers of soft denim (14 oz) Up to 9 layers of hard denim (12 oz)

## Note Note

- Do not sew without placing fabric under the presser foot. Doing so could damage the presser foot.
- **3** Press the  $(\downarrow \ddagger)$  (needle up/down) button to raise the needle.

4

Tip

the first 2 cm fold.

5 Measure 4 cm up from the hemline and draw a line with a suitable marker.

6 Turn the jeans inside out to the wrong side, and then cut along the 4 cm line.

7 Fold up 2 cm of fabric, iron the fold line, and then fold over another 2 cm of fabric and iron in place.

If the inside leg seam is very bulky, trim away the seam allowance in



2cm







#### 8 Steam iron the side seam areas.

Tip

If the side seam areas are very bulky, flatten them with a wooden mallet, etc., so that the seam can be easily sewn.

**9** Remove the extension table (accessory box), and then pull the jeans hem over the free arm as shown in the illustration.









**10** Sew around the jeans hem, starting about 2 cm in

front of the inside leg seam (refer to the illustration).

Secure the beginning and end of the stitching with a



## 8 Basics of OEKAKI (free-motion embroidering)

### Features of OEKAKI (free-motion embroidering)

O = formal prefix, E = picture, KAKI = to draw

OEKAKI was derived from the Japanese word "to draw". We wanted to bring you a sewing machine which helps you create special, unique and personal projects while having fun.

 Since the feed dog is lowered during OEKAKI (free-motion embroidering) mode, the fabric can be freely moved.



 In OEKAKI (free-motion embroidering) mode, the stitch width can be adjusted by how much the foot controller is pressed.



\* Lightly stepping on the foot controller selects a narrow stitch width; stepping further on the foot controller selects a wider stitch width. Slightly releasing the foot controller selects a narrower stitch width.

#### Caution

- When the foot controller is connected, the sewing machine cannot be started by pressing the start/stop button. At the end of sewing, the machine can be stopped by pressing the start/stop button.
- In OEKAKI (free-motion embroidering) mode, the sewing speed cannot be adjusted with the foot controller as in utility stitching mode. For details on changing the sewing speed, refer to page 47.
- · In OEKAKI mode, the reverse sewing button cannot be used.
# Relationship between the needle, thread and fabric in OEKAKI mode, and adjusting the thread tension

The quality of the sewing finish will improve if the needle and thread are selected to match the type of fabric used. Follow the recommendations in the table below.

|                                |                                    | Thin fabrics                                                                                                                                                                                               | Normal fabrics |
|--------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| é                              |                                    | No. 11/75                                                                                                                                                                                                  | No. 14/90      |
| the needlaric                  | Needle                             | In OEKAKI mode, do not use needle no. 18/110 or the ball point needle (knit needle).<br>Refer to "Selecting a needle suitable for the thread", and then select a needle and thread.                        |                |
| ship between<br>thread and fat | Thread                             |                                                                                                                                                                                                            |                |
| Relation                       | Fabric                             | Be sure to attach stabilizer to medium to medium-thick fabrics.<br>Check that the stabilizer is compatible with the fabric. Sew trial stitches before sewing in<br>OEKAKI (free-motion embroidering) mode. |                |
| Ę                              |                                    | Set the upper thread tension dial to a setting between "-1" and "-3", making sure that the lower thread is not visible from the top of the fabric.                                                         |                |
| Reference<br>thread tensio     | Upper<br>thread<br>tension<br>dial | -3<br>-2<br>-1                                                                                                                                                                                             |                |
|                                |                                    | -1 -                                                                                                                                                                                                       | 3              |

- When purchasing any needles not included as accessories, check that they are specified as home-use sewing machine needles.
- Use the same type of threads for the upper and lower threads.
- The larger the needle number, the thicker the needle. The larger the thread number, the thinner the thread.
- It may be necessary to adjust the upper thread tension according to the fabric, thread and needle combination. (Refer to page 88.)

### Tip

#### <Selecting a needle suitable for the thread>

Pass the thread to be used through the eye of the needle, and then hold both ends of the thread to give the thread slack so that the needle slides along it, as shown.

If the needle does not catch, the needle and thread are a good combination. Since a needle that is too thick for the thickness of the thread will result in poorquality stitching, select the needle with the smallest number possible, which will not catch on the thread.

If the needle frequently catches on the thread or does not slide along it, stitching of poor quality will be produced. In this case, select a needle with a different number or a different type of thread.



#### Sewing (free-motion embroidering) 9

### **OEKAKI** (free-motion embroidering) preparations

### Caution



Before changing the presser foot, use the main power switch to turn off the sewing machine.

Not doing so could cause injuries.

#### 1 Change the presser foot to the embroidering foot.

Remove the presser foot and the presser foot holder. Position the pin of the embroidering foot above the needle clamp screw, and align the clamp in the lower-left of the embroidering foot with the presser foot holder clamp screw.



clamp screw

#### 2 Secure the embroidering foot.

While holding the embroidering foot straight with your right hand, tighten the presser foot holder clamp screw with the needle plate screwdriver in your left hand.



### Caution



Firmly tighten the screw with the included screwdriver, and check that the needle does not hit the presser foot.

If the screw is loose, the needle will hit the presser foot and break or bend, which could cause injuries.

#### **3** Lower the feed dog.

Lift up the presser foot lever, and then slide the drop feed lever at the back of the machine to  $\overline{}$  (to the left as seen from the back) to lower the feed dog.

- \* When operating drop feed lever, make sure the needle is in the up position.
- \* After raising feed dog, turn the handwheel towards yourself one full turn.



#### 4 Connect the foot controller.

The foot controller adjusts the stitch width during OEKAKI (free-motion embroidering).

\* In OEKAKI mode, the sewing machine will not operate if the foot controller is not plugged in. If the start/stop button is pressed, instead of starting the sewing machine, error code "F9" appears.





Not doing so could cause injuries.



#### <Notes on the stitch width>

Lightly stepping on the foot controller selects a narrow stitch width; stepping further on the foot controller selects a wider stitch width. Slightly releasing the foot controller selects a narrower stitch width.



#### 5 Switch to OEKAKI mode.

Turn on the sewing machine, and then switch to OEKAKI

(free-motion embroidering) mode by pressing the (DEKAK

(free-motion embroidering) button so that it lights up in green.

\* If the button is pressed again, it will go off and the sewing machine will switch to utility stitching mode.



#### 6 From the operation panel, select stitch number A1 or A2.

Press the function button until the # 1-50 LED lights up, and then press the (setting) buttons to set the stitch number to A1 or A2.

\* The stitch number appears in the LED display.

<Stitches that can be used>

| No. | Application                                       | Presser foot      |
|-----|---------------------------------------------------|-------------------|
| A1  | Zigzag sewing from a left needle entry point      | Embroidering foot |
| A2  | Zigzag sewing from a center<br>needle entry point |                   |

\* When sewing zigzag stitches from a left needle entry point, the stitch width changes with the left side as the reference.

\* When sewing zigzag stitches from a center needle entry point, the stitch width changes with the center as the reference.

7 Position the fabric under the presser foot, and then lower the presser foot lever.



- 8 Lightly place your hands on the fabric to guide it and sew.
  - \* Lightly step on the foot controller to begin sewing.
  - \* Release the foot controller to stop sewing.

### Tip

In OEKAKI mode, the fabric can be moved with the presser foot lowered.







- up, and then change the setting. (function) button until the ► ► (sewing speed) LED lights

### Practicing free-motion embroidering

Use the included starter kit to practice free-motion embroidering.

### Preparation

Iron the stabilizer onto the wrong side of the fabric.



#### ■ STEP 1 (Practicing sewing straight stitches)

For video tutorial, visit http://www.toyotaoekakisewing.com

Let's try straight stitch sewing.

#### 1 Lightly step on the foot controller to begin sewing.

\* Since the stitching will become a zigzag if the foot controller is pressed too much, lightly step on the foot controller.





~~~~~



If it is difficult to adjust the foot controller, set the stitch width to "0". The needle will not move back and forth, making it easy to sew straight stitches.

2 Move the fabric with your hands to follow the outlines of the drawings.

3 Sew by moving the fabric slowly in all directions (forwards, backwards and sideways).



Tip

When drawing the circle using a straight stitch, move the fabric in a circular motion.



■ STEP 2 (Practicing sewing shapes)

For video tutorial, visit http://www.toyotaoekakisewing.com

Let's try drawing an easy shape using the straight stitch.

- **1** Begin sewing along the outline of the drawing.
- **2** Guide the fabric with your hands.
- **3** Follow the direction arrows in the drawings below.



* For help with practicing OEKAKI (free-motion embroidering), watch the videos on the website. http://www.toyotaoekakisewing.com

■ STEP 3 (Practicing adjusting the stitch width)

For video tutorial, visit http://www.toyotaoekakisewing.com

By practicing several times, we can gain a better understanding of how the stitch width is adjusted by stepping on the foot controller and moving the fabric.

- **1** From the operation panel, select stitch number A1 or A2.
- 2 While slowly moving the fabric, lightly step on the foot controller to begin sewing.
- **3** Gradually press the foot controller further to increase the stitch width, according to the outlines of the drawings.



- 4 After fully pressing down the foot controller, gradually release it to reduce the stitch width.
- 5 Repeat steps 3 to 4.

■ Notes on the stitch width

Operating the foot controller

Lightly stepping on the foot controller selects a narrow stitch width; stepping further on the foot controller selects a wider stitch width. Slightly releasing the foot controller selects a narrower stitch width.



□ Moving the fabric

Faster movement creates a rough finish, and slower movement creates a smooth finish.

Faster movement



Slower movement



For video tutorial, visit <u>http://www.toyotaoekakisewing.com</u>

Let's draw letters with zigzag stitches.



1 Start sewing from the center, enlarging the circle, then sewing back to the center again.



- 2 While lightly stepping on the foot controller, slowly move the fabric to follow the outline.
- **3** Press the foot controller further to increase the stitch width.
- 4 Gradually release the foot controller.





5 While lightly stepping on the foot controller, move the fabric horizontally.



* For help with practicing OEKAKI (free-motion embroidering), watch the videos on the website. http://www.toyotaoekakisewing.com

Tacking

For video tutorial, visit http://www.toyotaoekakisewing.com

Tacking (temporary stitching) can be sewn with the sewing machine to prevent overlapping layers of fabric from becoming misaligned.

1 Follow steps **1** through **5** in "Sewing (free-motion embroidering)" (refer to page 74).

2 From the operation panel, select stitch number A3.

Press the function button until the # 1-50 LED lights up,

and then press the (setting) buttons to set the stitch number to A3.

* The stitch number appears in the LED display.

<Stitches that can be used>

| No. | Application | Presser foot |
|-----|--------------------------------|-------------------|
| | | Embroidering foot |
| A3 | Tacking (left needle position) | |

- **3** Adjust the upper thread tension. Set the upper thread tension dial to "-1".
- 4 Position the fabric under the presser foot, and then lower the presser foot lever.

5 Lightly guide the fabric with your hands, and then step on the foot controller.

* When stitch number A3 is selected, pressing the foot controller only sews one stitch. Only one stitch is sewn, even if you keep the foot controller pressed down.







6 Move the fabric 1 to 2 cm in the direction that the tacking will be sewn.



- 7 Repeat steps 5 to 6 to sew the tacking.
- 8 Switch back to utility stitching mode, sew the necessary stitching, and then pull out the tacking thread.

10 Special sewing tips

Sewing thick or thin fabrics

Sewing thick fabric

Sewing thin fabric

When sewing thick fabric from the edge, the presser foot may be angled and unable to feed the fabric.

Under the presser foot, place fabric or thick paper of the same thickness as the fabric that you wish to sew.

When sewing thin fabric, sometimes the fabric puckers or is not fed correctly. In this case, the fabric can be sewn more easily if tissue paper is placed





paper

under it.

After sewing, carefully remove the paper.

Sewing tube-shaped fabrics

1 Pull out the extension table in the direction of the arrow.

2 Sew tube-shaped fabrics, such as trousers or sleeves, by pulling them over the machine free arm as shown in the illustration.



Extension table



Sewing leather and vinyl

■ Using the non stick foot

Use this presser foot when sewing hard-to-feed fabric, such as leather and vinyl, to improve feeding.

Sewing equally spaced lines of stitching

■ Using the quilting guide

This is useful for sewing equally spaced lines of stitching, such as in quilting.





A Caution



Not doing so could cause injuries.

- 1 Insert the quilting guide under the spring plate on the shank.
 - * Adjust the quilting guide to the correct position by moving it sideways.



- 2 Draw the first line with a suitable marker, and then sew. For the second line, simply sew following the stitching of the first line with the guide.
 - * The interval between the lines of stitching can be adjusted by moving the guide in the direction of the arrow.



Adjusting the thread tension

Adjustment method for the upper thread tension.



Tip

If the tension does not change, even after the upper thread tension is adjusted, thread the upper thread and lower thread again.

When using thread with a strong twist, selecting a lower upper thread tension (-3 to -2) may reduce skipped stitches.

When the fabric cannot be removed from the sewing machine

If the fabric cannot be removed from the sewing machine, the thread may have become entangled under the needle plate. In this case, **do not pull on the fabric with excessive force. Doing so could cause damage.**





Not doing so could cause injuries.

- **1** Raise the presser foot and needle.
- Caution
- If the needle is in the fabric, turn the handwheel towards the back of the machine to get the needle out of the fabric, then cut the thread close to the needle.



2 Remove the bobbin case cover.



3 Cut out the tangled thread.

- * If the fabric can be removed:
- Go to "Feed dog and hook maintenance" (page 98). * If the fabric cannot be removed:

Go to step 4.



4 Use the included needle plate screwdriver to remove the two needle plate screws.



5 Slightly lift up the needle plate, cut out the tangled thread, and then remove the needle plate.



- 6 Remove the bobbin case, and then remove any thread around the hook and feed dog.
 - * Refer to "Feed dog and hook maintenance" (page 98).
 - * If the fabric still cannot be removed, contact your retailer.

▲ Caution



Carefully work around pointed parts to avoid cutting your fingers. Not doing so could cause injuries.

11 Troubleshooting

When the sewing machine is operating incorrectly

What is the problem?

Check the following possibilities before contacting the service center for repairs.

| Trouble | Cause | Countermeasure | Page |
|---------------------------|--|---|--------|
| Machine does not operate | The power plug is not inserted. | Correctly connect the power plug. | 22 |
| | The sewing machine has been turned off with the main power switch. | Turn on the sewing machine. | 22 |
| | Thread is tangled in the race. | Clean the race. | 90, 98 |
| | There is a broken needle in the race. | | |
| | The thread winding spindle has been pushed to the right. | Slide the thread winding spindle to the left. | 31 |
| | The presser foot lever is still raised. | Lower the presser foot lever. | 26 |
| | The start/stop button is pressed while the foot controller is connected. | Disconnect the foot controller, or start the sewing machine with the foot controller. | 18 |
| Very noisy
Very slow | There is lint or dust in the hook or feed dog. | Remove the lint or dust. | 98 |
| Needle cannot be threaded | The needle is not at the correct position. | Press the needle up/down button to raise the needle. | 16 |
| | The needle threader hook does not pass through the eye of the needle. | Press the needle up/down button to raise the needle. | 16, 38 |
| | The needle is incorrectly installed. | Correctly install the needle. | 24 |
| | The needle is bent. | Replace the needle. | 23 |
| Needle breaks | The needle is incorrectly installed. | Correctly install the needle. | 24 |
| | The needle clamp screw is loose. | Firmly tighten the screw. | 24 |
| | The needle is too fine for the fabric. | Use a needle suitable for the fabric. | 52, 73 |
| | The upper thread tension is too tight or too loose. | Adjust the upper thread tension. | 88 |
| | The bobbin case is incorrectly positioned. | Correctly position the bobbin case. | 100 |
| | The selected presser foot is not suitable for the stitch. | Select a suitable presser foot for the stitch. | 48 |

| Trouble | Cause | Countermeasure | Page |
|--|---|---|--------|
| Upper thread
breaks | The upper and lower threads are incorrectly threaded. | Correctly thread the upper and lower threads. | 32, 34 |
| | The thread is tangled in the bobbin case or race. | Remove lint from the feed dog and race. | 98 |
| | The thread is too thin for the thickness of the needle. | Use thread suitable for the thickness of the needle. | 52 |
| | The upper thread tension is too tight or too loose. | Adjust the upper thread tension. | 88 |
| | The needle is bent. | Replace the needle. | 23 |
| | The point of the needle is blunt/worn away. | | |
| | The needle is incorrectly installed. | Correctly install the needle. | 24 |
| | The thread is old. | Use new thread. | — |
| Lower thread breaks | The lower thread is incorrectly threaded. | Correctly thread the lower thread. | 32 |
| Stitches not
formed / Only
needle holes in | The upper thread passes from behind the needle to the front. | Pass the upper thread from the front of the needle to the back, or use the needle threader. | 37, 38 |
| fabric | Thread with a strong twist is being used. | Change the thread, or set the upper
thread tension to a setting between -3
and -2. | 52 |
| | The thread is too thin for the thickness of the needle. | Use thread suitable for the thickness of the needle. | 52 |
| Stitches
formed, but
easily pulled
out | Reverse stitches are not used. | Sew reverse stitches. | 55 |
| | The upper thread tension is incorrect. | Adjust the upper thread tension. | 88 |
| Lower thread | The needle is bent. | Replace the needle. | 23 |
| not taken up | The needle is incorrectly installed. | Correctly install the needle. | 24 |
| Fabric not feeding | The feed dog is lowered. | Use the drop feed lever to raise the feed dog. | 75 |
| | There is lint in the feed dog. | Remove lint from the feed dog and race. | 98 |
| | The stitch length is set to "0". | Adjust the stitch length to an appropriate setting. | 46 |
| | Synthetic leather or vinyl is being sewn. | Use the non stick foot. | 7 |
| Stitch pattern compressed | Stitch length setting is incorrect. | Increase the stitch length. | 46 |
| Sewing speed not changing | You are trying to use the foot controller
to change the sewing speed in OEKAKI
(free-motion embroidering) mode. | In OEKAKI mode, use the operation panel buttons to change the "sewing speed" setting. | 47 |

| Trouble | Cause | Countermeasure | Page |
|---|---|--|--------|
| Skipped
stitches | The needle is incorrectly installed. | Correctly install the needle. | 24 |
| | The needle is bent. | Replace the needle. | 23, 24 |
| | The needle and thread are not suitable for the fabric. | Sew with a needle and thread suitable for the fabric. | 52, 73 |
| | The upper thread is incorrectly threaded. | Correctly thread the upper thread. | 34 |
| | Stabilizer is not used in OEKAKI mode. | Attach stabilizer. | 78 |
| Fabric wrinkles/ | The upper thread tension is too tight. | Adjust the upper thread tension. | 88 |
| puckers | The upper and lower threads are incorrectly threaded. | Correctly thread the upper and lower threads. | 32, 34 |
| | The needle is too thick for the fabric. | Use a needle suitable for the fabric. | 52, 73 |
| | The needle is burred or bent. | Replace the needle. | 24 |
| | Stretch fabric is being sewn. | Use the ball point needle. | — |
| | | Select a stitch and feed suitable for stretch fabric. | 48 |
| | Stabilizer is not used in OEKAKI mode. | Attach stabilizer, especially with thin or
stretch fabrics, fabrics with a coarse
weave, or fabrics that often cause
pattern shrinkage. | 78 |
| Too much | The lower thread is incorrectly threaded. | Correctly thread the lower thread. | 32 |
| showing on | The upper thread tension is too tight. | Adjust the upper thread tension. | 88 |
| right side of the
fabric | The bobbin is not correctly inserted in the bobbin case. | Correctly insert the bobbin in the bobbin case. | 32 |
| | The specially designed bobbin is not being used. | Use a specially designed bobbin. | 7 |
| | A metal bobbin is being used. | | |
| Too much
upper thread | The upper and lower threads are incorrectly threaded. | Correctly thread the upper and lower threads. | 32, 34 |
| showing on
wrong side of
the fabric | The tension of the upper thread is too loose | Adjust the upper thread tension. | 88 |
| | The upper thread is incorrectly
threaded.
(not threaded through the thread guide) | Correctly thread the upper thread. | 34 |
| Thread
entangled | The thread has come out of the take-up lever. | Raise the presser foot, and then correctly thread the sewing machine. | 34 |
| under fabric | The upper thread is incorrectly threaded. | | |
| | The lower thread has come out of the groove in the bobbin case. | Correctly thread the lower thread. | 32 |

| Trouble | Cause | Countermeasure | Page |
|--|--|--|--------|
| Unable to | The foot controller is disconnected. | Connect the foot controller. | 18 |
| adjust stitch
width in
OEKAKI mode | The OEKAKI (free-motion embroidering) button is not lit. | Press the OEKAKI button so that it lights up. | 76 |
| | Stitch number A3 is selected in OEKAKI mode. | Select stitch number A1 or A2.
(A3 is the tacking stitch.) | 76 |
| | From the operation panel, the stitch width has been set to "0" or a low setting. | Increase the stitch width setting, or select an appropriate setting. | 77, 78 |
| Unable to
operate drop
feed lever | The needle is not at the correct position. | Press the needle up/down button to raise the needle. | 75 |
| Unable to raise feed dog | The feed dog is not at the correct position. | Turn the handwheel towards yourself one full turn to raise the feed dog. | 75 |

If the above countermeasures do not solve the problem, contact the service center as described in your warranty.

When calling for service, please note the MODEL and SERIES that are inscribed on the back of your sewing machine.

OEKAKI SERIES / SERIE MODEL / MODELE

Manufacturer/: ZHEJIANG AISIN ELITE Fabricant MACHINERY & ELECTRIC CO.,LTD.P.R.C.

Importer/ Importateur

Designed and engineered by AISIN SEIKI JAPAN

\$

MADE IN P.R.C. / FABRIQUE EN R.P.C.

When an error code appears



If an incorrect operation was performed, an error code between F1 and F9 appears in the LED display. Try again with the correct procedure.

| LED display | Cause | Countermeasure |
|-------------|---|---|
| F1 | This appears and the sewing machine
stops when the motor is being overloaded,
for example, when the fabric is too thick. | Try again with fabric of a suitable thickness. |
| F2 | This appears when the sewing machine is started with the start/stop button or the foot controller while the presser foot is raised. | Lower the presser foot lever. |
| F3 | This appears when the buttonhole lever is
not lowered to the buttonhole foot even
though a buttonhole stitch is selected. | Lower the buttonhole lever to the buttonhole foot. |
| F4 | This appears when a stitch other than a
buttonhole stitch is selected and the
buttonhole lever has been lowered and the
buttonhole foot is still attached. | Replace the presser foot to one suitable for the stitch, and then raise the buttonhole lever. |
| F5 | This appears and the sewing machine
suddenly stops when the foot controller
connector is plugged into the jack while the
sewing machine is running. | With the sewing machine stopped, plug the foot controller connector into the jack. |
| F6 | This appears and the sewing machine
suddenly stops when the foot controller
connector is unplugged from the jack while
the sewing machine is running. | With the sewing machine stopped, unplug the foot controller connector from the jack. |
| F7 | This appears and the sewing machine
suddenly stops when the thread winding
spindle is slid to the right while the sewing
machine is running. | Return the thread winding spindle to the standby position (left). |
| F8 | This appears and the sewing machine
suddenly stops when the thread winding
spindle is slid to the left while the bobbin is
being wound. | Move the thread winding spindle while the sewing machine is stopped. |

| LED display | Cause | Countermeasure |
|-----------------|---|--|
| | This appears when any of the following incorrect operations are performed. (The sewing machine does not operate.) | |
| F9 | 1 You try to start the sewing machine with
the start/stop button while the foot
controller is connected. | 1 When the foot controller is connected, start the sewing machine with it. |
| | 2 In OEKAKI mode, the start/stop button
or reverse sewing button is pressed. | 2 In OEKAKI mode, use the foot controller. |
| | 3 The reverse sewing button is pressed while a buttonhole stitch is selected. | 3 Use the start/stop button or foot controller with buttonhole stitches. |
| | 4 While the bobbin is being wound, the needle up/down button or reverse sewing button is pressed. | 4 When winding the bobbin, use the start/
stop button or foot controller. |
| P0 – 9
or PF | This appears when an incorrect operation
was performed with the sewing machine
turned on. | Since the sewing machine is in service mode, turn it off, then on again. |

* Although the above code will disappear after 2 to 3 seconds, the necessary countermeasure should be performed.

Note Note

- If the problem is not resolved after the appropriate countermeasure is performed, stop using the sewing machine and contact your retailer.
- A code between E1 and E9 appearing indicates that the sewing machine has malfunctioned. Immediately stop using the sewing machine and contact your retailer.

12 Maintenance and storage

Feed dog and hook maintenance



Note

- Do not use detergent, bleach, benzine, thinner or chemically treated cloths. Doing so could cause discoloration or cracking.
 - * If the thread becomes entangled in the bobbin case or race, or if the bobbin case moves out of position, refer to the following procedure.
- Cleaning and maintenance must not be made by children without proper supervision.

■ Cleaning

1 Remove the needle, presser foot, bobbin case cover and bobbin.

Use the included needle plate screwdriver to turn the two needle plate screws counterclockwise and remove them.

* For details on removing the needle, refer to page 24. For details on removing the presser foot, refer to page 25.



2 Remove the needle plate.



3 Lift up the bobbin case so that part a is moved past part b on the sewing machine, as shown.

4 Pull out the bobbin case in the direction of the arrow to remove it.



- Do not pull with excessive force. Doing so could cause the bobbin case to be scratched.
 - * If the bobbin case cannot be pulled out, repeat the procedure starting with step **3**.
- 5 Brush off any lint or dust on the feed dog and race, and then clean them with a soft cloth.









1 Position the bobbin case so that part c on the bobbin case is in front of part d on the sewing machine.

2 With the bobbin case tilted to the left, insert the left side of the bobbin case into the race, as shown.

3 Insert the right side of the bobbin case into the hook so that part a on the bobbin case is to the left of part b on the sewing machine.







4 Make sure that the bobbin case is fully installed in the race.



Note

- If the bobbin case is unstable when the handwheel is turned towards yourself two or three times, or
 if it has been incorrectly installed as described above on the right, repeat the procedure starting with
 step 1.
- 5 Install the needle plate with mark c on the bobbin case positioned to the left of part e on the needle plate (as shown in the illustration at the right).



6 Use the included needle plate screwdriver to turn the two needle plate screws clockwise and install them.



Needle plate screws

7 Install the presser foot and the needle.



- 8 Turn the handwheel to check that the needle correctly enters the hole in the needle plate.
 - * If the bobbin case is not installed correctly, the handwheel does not turn smoothly. If this occurs, remove the needle plate and bobbin case, and install them again.
 - * For details on installing the needle, refer to page 24. For details on installing the presser foot, refer to page 26.

Storage precautions

A Caution

Do not store the sewing machine within the reach of children.

They could touch the needle and be injured.

Storing

Observe the following precautions when storing. Not doing so could cause damage, discoloration or breakage. • Do not store in a location exposed to humidity or excessive dust.

- * We recommend storing the sewing machine covered with the included soft cover.
- Do not store in a location exposed to direct sunlight or near a heater.
- Do not store on an unstable surface.
- Do not store upside down or laying down.
- Do not store in a location exposed to smoke or steam.

Note Note

- Do not use the sewing machine for industrial purposes. Doing so could cause damage from being overloaded.
- The sewing machine is not guaranteed for use in industrial applications.
- Due to product quality improvements, the specifications or appearance of this machine may change without notice.
- The contents of this Instruction Manual may not be duplicated without permission.
- The contents of this Instruction Manual are subject to change without notice.

13 Others

Recycling



DO NOT THROW AWAY!

EU ONLY

We are committed to the protection of the environment. We strive to minimize the environmental impact of our products by continuously improving product design and our manufacturing methods.

At the end of its life, please dispose of this product and packaging in an environmentally responsible way.

The crossed-out wheelie bin symbol featured above and on the product's data-plate means that this product falls under the scope of the E.U. "Waste Electrical and Electronic Equipment" (WEEE) directive and "Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment" (ROHS) directive and should not be disposed of with your household waste. At end of life, you must ensure that this product is disposed of in accordance with national and local legislation and that it is sorted as Category 2 "Small Domestic Appliances" WEEE. You may be liable under local and national laws for improper disposal of this product. Please consult the web, or a competent national or local body, for the return and collections systems available to you and the locations of your nearest recycling points. If you purchase a new product direct from us, we will take your old product back, irrespective of the brand, if it is a like-for-like sale.

As an individual, you can make a positive impact on reuse, recycling and other forms of recovery of WEEE. This will reduce use of landfill and minimize the environmental impact of the products you use.

Hazardous substances in electronic and electrical products can have a harmful impact on human health and on the environment.

Servicing double-insulated products (230V–240V)

In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means are provided on a double-insulated product nor should a means for grounding be added to the product. Servicing a double-insulated product requires extreme care and should only be done by qualified service personnel with knowledge of the system under his or her responsibility. Replacement parts for a double-insulated product must be identical to those parts in the product. The symbol is marked on the double-insulated product.

Specifications

| Model | OEKAKI |
|---|--|
| Hook type | Horizontal |
| Needle | Home-use sewing machine needle (HA-1) |
| Bobbin | TOYOTA-exclusive plastic bobbin |
| Maximum stitch length | 4 mm |
| Maximum stitch width | 5 mm |
| Straight stitch needle position | Center needle position, left needle position |
| Sewing machine weight (main unit) | 5.7 kg |
| Sewing machine size | Width: 470 mm
Depth: 234 mm
Height: 294 mm |
| Rated voltage | AC220–240 V |
| Rated frequency | 50 Hz |
| Rated power consumption (LED light power consumption) | 50 W (0.05 W) |

| Foot Controller | | |
|---|----------------------------|--|
| Туре | 678560-DJE10 | |
| Direct-current/Voltage/Electric current | DC5V (No electric current) | |

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