

INSTRUCTION BOOK
for
PATTERN PROGRAMMING DEVICE

When you use the pattern programming device for the first time...

Set the mode of the pattern programming device according to your knitting machine.

- SELECT MODE -
- MODE 1 (KH-940, 950i, 270)
- 2. MODE 2 (KH-930) 3. MODE 3 (KH-930M)
- 4. MODE 4 (KH-900)
 - SELECT 1 4 = ■

Connect the pattern programming device and the TV set. Turn on the power switches of them (see pages 5 - 7). The left screen appears. (If the screen of step 3 appears, see the end of this page.)

- SELECT MODE -
- MODE 1 (KH-940, 950i, 270)
- MODE 2 (KH-930)
 MODE 3 (KH-930M)
- MODE 4 (KH-900)
 - SELECT 1 4 = 4 ■

selected mode no



Select the mode according to your knitting machine.

(ex...When you use KH900, select 4.)

C KEY

If you make a mistake, push the C key to clear the number you entered, and enter the correct number.



Push the step key. After a few seconds the left screen appears. Now, mode setting is completed. Proceed to step 6 on page 8 and start creating the pattern.

MODE SETTING)

Once you set the mode, you do not have to set it again until you use other models.

Therefore, when you turn on the power switch after setting the mode once, the left screen appears.

(The screen of "SELECT MODE" does not appear.)

(RESETTING THE MODE)

Use the option 7 "CHANGE MODE" of MAIN MENU (see page 52).

When the screen of step ③ above appears

- MAIN MENU -

- CREATE NEW PATTERN
- EDIT PATTERN
- DELETE PATTERN
- 4. INPUT MEMO DATA
- TRANSFER CREATED DATA
- PRINT OUT PATTERN
- 7. CHANGE MODE (PAGE)
 - * SELECT 1 7 = ■

MODE = 4 PAGE = 1

Mode has already been set. Make sure that the mode corresponds to your knitting machine.

Push the step key twice.

MAIN MENU appears as shown left.

Check which mode is set.

- When the mode corresponds to your knitting machine... Proceed page 11 to start creating the pattern.
- When the mode does not correspond to your knitting machine...

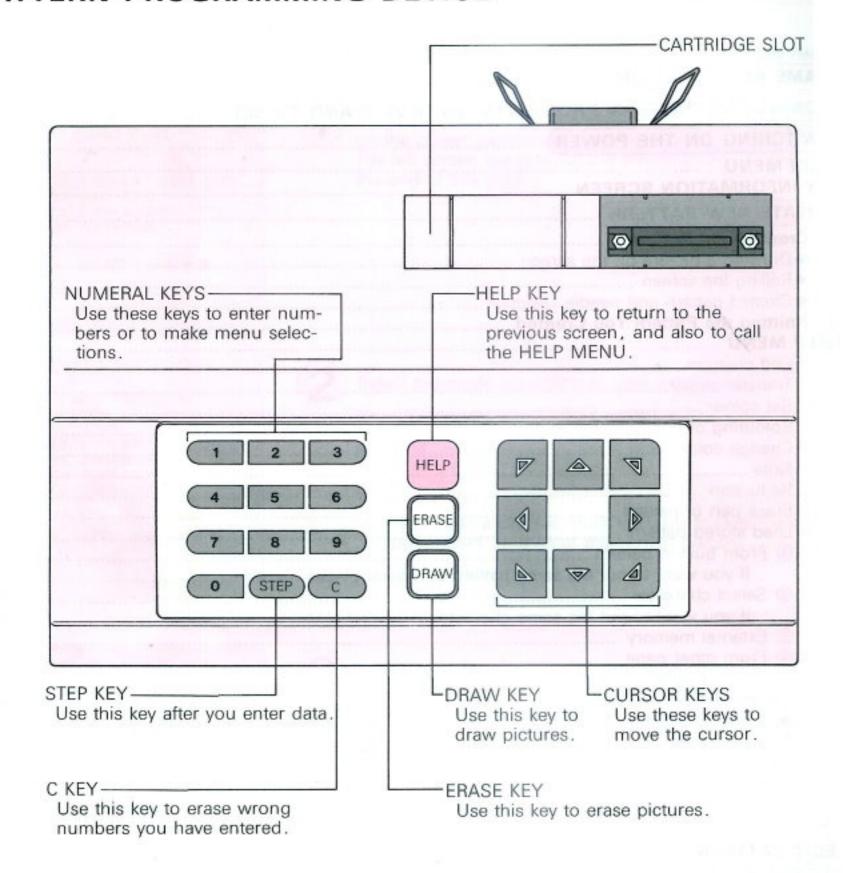
Use the option "CHANGE MODE" and change the mode setting. (See page 52.)

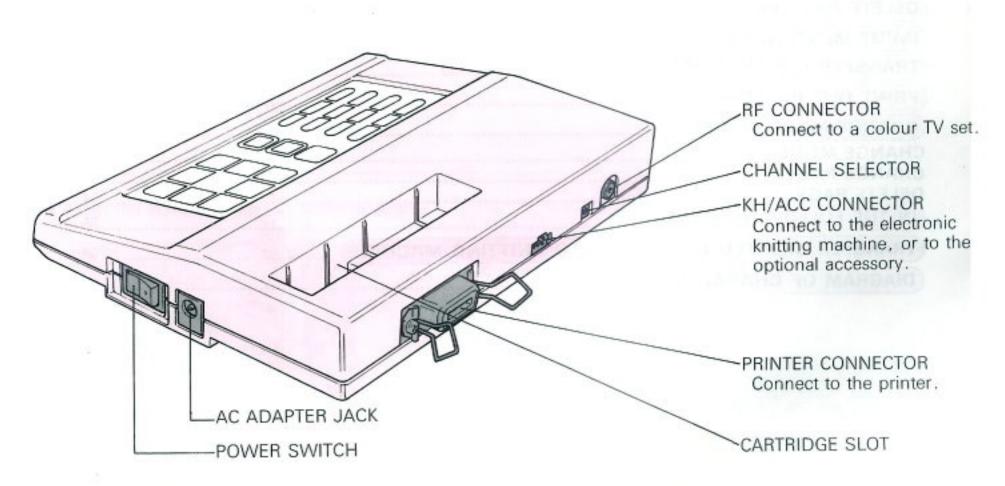
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NAME AND FUNCTION

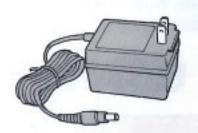
PATTERN PROGRAMMING DEVICE





ACCESSORIES

(The shape of the accessory may be slightly different from the illustration.)





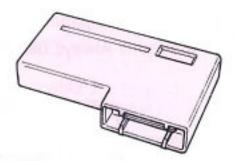
AC ADAPTER

CABLE 1
Connect the pattern programming device and TV set.



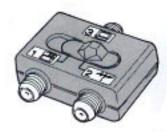
INTERFACE CABLE
Connect the pattern programming device and
*knitting machine or optional accessory.

*KH940, 930, 930M, 950i



STITCH PATTERN CARTRIDGE III Your pattern is stored in this cartridge, and the battery saves the pattern for 10 years.

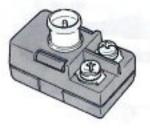
When 10 years have passed from purchasing the pattern programming device, ask a dealer to change the battery.



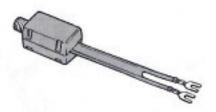
RF SWITCH (USA, CANADA only)



CABLE 2 (USA, CANADA only) Connect the TV set and RF switch.

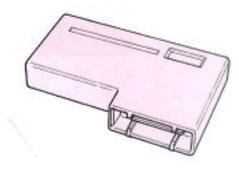


CONVERTER 1 (USA, CANADA only)



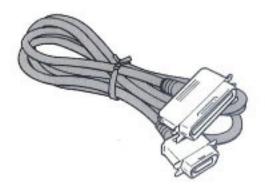
CONVERTER 2 (USA, CANADA only)

OPTION



Purchase another cartridge additionally if the memory of the cartridge, which comes with the pattern programming device, becomes full.

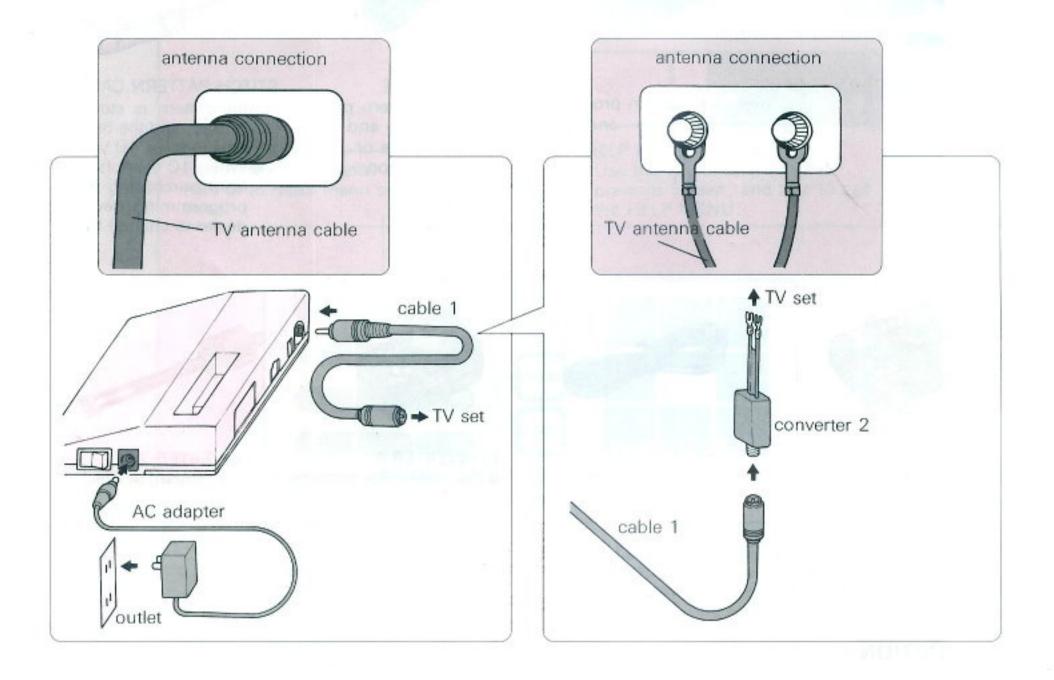
STITCH PATTERN CARTRIDGE III.



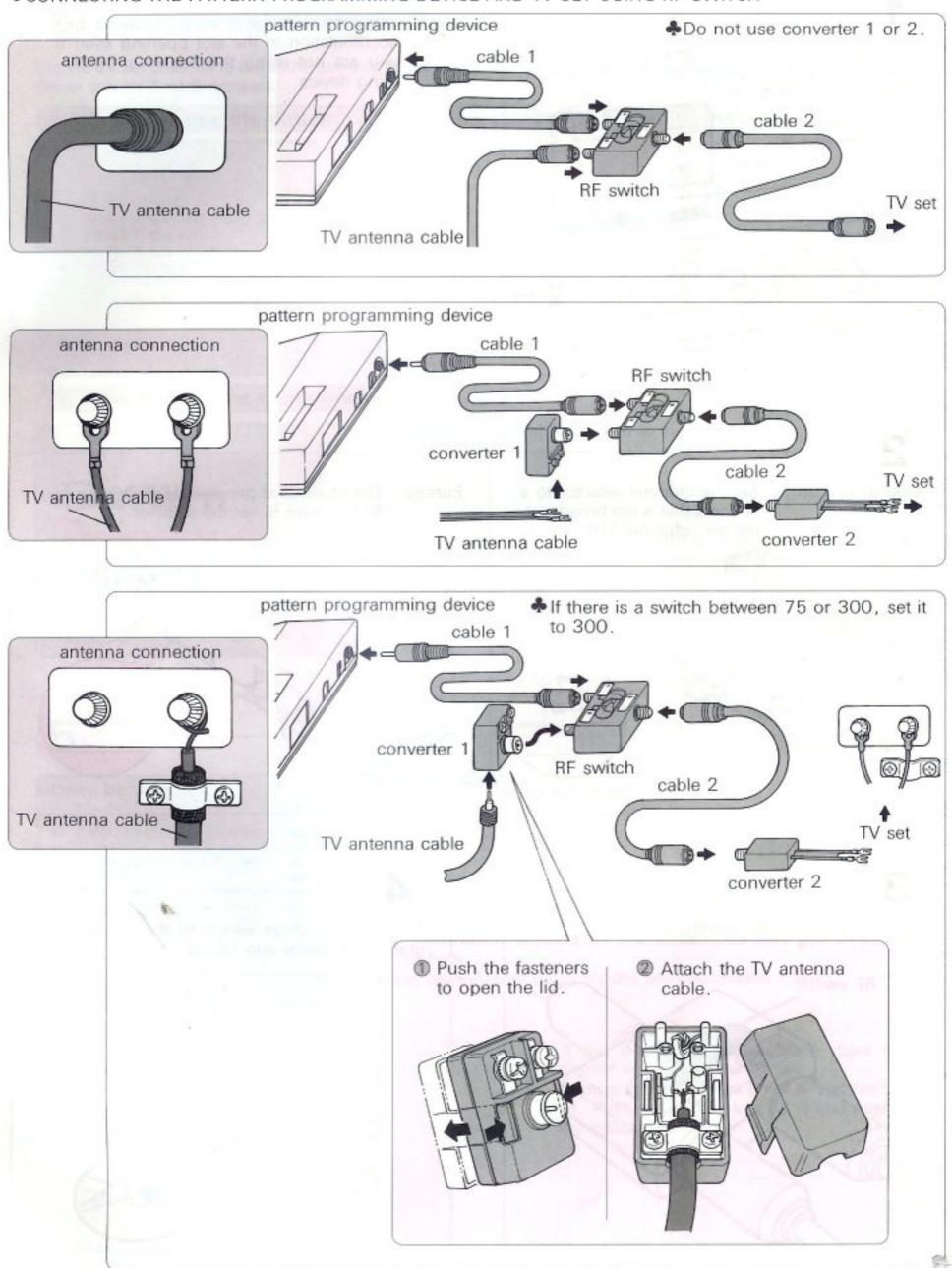
PRINTER CABLE

CONNECTING PATTERN PROGRAMMING DEVICE AND TV SET

- 1 Make sure that the power switches of the pattern programming device and TV set are turned off.
- (2) Unplug the antenna cable of the TV set.
- ③ Connect the pattern programming device and TV set according to your TV antenna cable as follows.
 〈Caution〉 Always use the adapter for exclusive use of this machine.



CONNECTING THE PATTERN PROGRAMMING DEVICE AND TV SET USING RF SWITCH

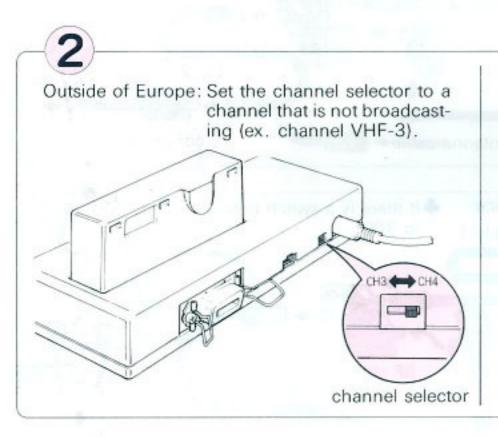


SWITCHING ON THE POWER

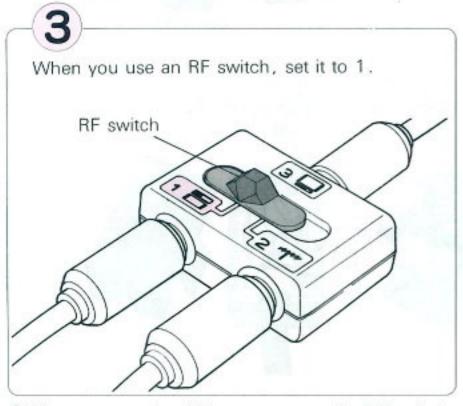
Insert the program cartridge into the slot after making sure that the power switch of the pattern programming device is off.

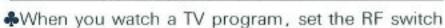
stitch pattern cartridge III slot

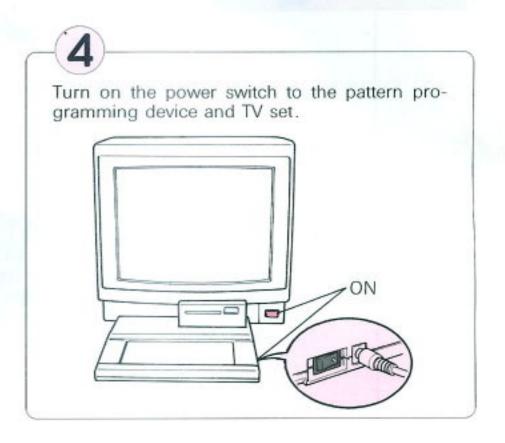
Note: Leave the cartridge in the slot to avoid dust accumulation in the slot opening even if you are not using the pattern programming device.



Europe: The channel is preset at UHF-36, so you do not have to set the selector.







5

Set the TV set channel to the same number as the channel selector setting of the pattern programming device. Either screen A or B appears.

A. When you use the pattern programming device for the first time.

- SELECT MODE -

- 1. MODE 1 (KH-940, 950i, 270)
- 2. MODE 2 (KH-930)
- 3. MODE 3 (KH-930M)
- 4. MODE 4 (KH-900)
 - * SELECT 1 4 = ■

The left screen appears. Set the mode according to your knitting machine (see page 1).

B. After setting the mode once



The left screen appears. Go to step 6.

If the message does not appear on the screen...

 Confirm that the pattern programming device and TV set are connected correctly and that power switch of the pattern programming device is on.

 If your TV set has a manual fine tune dial, adjust the picture, referring to the instruction book of the TV.

6

■ IF YOU NEED HELP DURING
■ OPERATION, PUSH 0 KEY.
■ KEY EXPLANATIONS WILL FOLLOW.
■ IF AFTER PUSHING 0 KEY
■ THE EXPLANATION DOES NOT
■ OPERATION
■ THE EXPLANATION DOES NOT
■ OPERATION
■ THE EXPLANATION DOES NOT
■ OPERATION
■ OP

** FOLLOW, CLEAR NUMBERS IN THE

** DISPLAY THEN PUSH O KEY.

PUSH STEP KEY TO CONTINUE!!

alok:

Push the step key. The left screen appears.

If you are puzzled while you are operating the pattern programming device, push 0 key.

Key information appears on the screen and tells you which key works how.

See page 10 for detail for the key information screen.

If the key information screen does not appear when you push 0 key.... Number except 0 has been already entered. Push the CE key to clear it and push 0 key again.



- MAIN MENU -

- 1. CREATE NEW PATTERN
- 2. EDIT PATTERN
- 3. DELETE PATTERN
- 4. INPUT MEMO DATA
- TRANSFER CREATED DATA
- 6. PRINT OUT PATTERN
- 7. CHANGE MODE (PAGE)
 - * SELECT 1-7 = ■

MODE = 4 PAGE = 1

Push the STEP key. MAIN MENU appears on the screen.

To create the pattern, see page 11.

MAIN MENU)

- 1. CREATE NEW PATTERN......Use this option to create your own original patterns. (page 11)
- 2. EDIT PATTERN......Use this option to modify patterns you created. (page 44)
- 3. DELETE PATTERN......Use this option to delete an unnecessary pattern, or all the patterns you created. (page 45)
- 4. INPUT MEMO DATA......Use this option to enter memo data with information for pattern knitting, or to modify the memo data already entered. (page 46)
- 5. TRANSFER CREATED DATA Use this option to save patterns you created on external memory, or to load the patterns from the external memory to the pattern programming device.
 - See the instruction manual of the external memory for detail.
- 6. PRINT OUT PATTERN......Use this option to print out on the printer patterns you created. (page 48)
- When you choose except MODE 1, memory is divided into several pages.

Therefore you also need to decide which page to use for pattern creation. (page 53)

KEY INFORMATION SCREEN

If you are puzzled while you are operating the pattern programming device, push 0 Key. Key information appears on the screen and tells you which key works how.

Push O key.

CALLING FOR THE KEY INFORMATION SCREEN



- CREATE NEW PATTERN
- 2. EDIT PATTERN
- 3. DELETE PATTERN
- 4. INPUT MEMO DATA
- 5. TRANSFER CREATED DATA
- 6. PRINT OUT PATTERN
- 7. CHANGE MODE (PAGE)
 - * SELECT 1 7 = ■

MODE = 4 PAGE = 1

usual operation screen



INFORMATION

SELECT FROM MAIN MENU

KEY FUNCTION

1~7+STEP

SELECT OPTION NUMBER

C

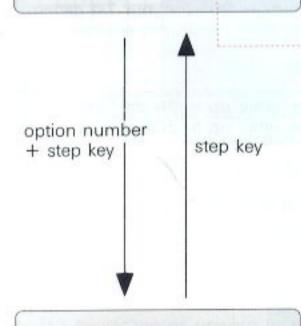
CLEAR NUMBER-

PUSH1~7 THEN PUSH STEP KEY, THE OPTION EXPLANATION

TO CONTINUE: PUSH O KEY

WILL FOLLOW.

1:FORWARD



KEY INFORMATION SCREEN

2 The key information screen appears.

Explains the function of the key.

Indicates the available keys.

This means that the screen continues. Push 1 key to roll the screen.

When you continue operation, escape from the key information screen and go back to the usual operation screen.

- To escape from the key information screen......
 Push O key.
- When this message appears.....
 Push the option number and then step key. Option explanation will follw.

(ex.....CREATE NEW PATTERN..... 1)



OPTION EXPLANATION SCREEN

Option

Explains the possibilities for the option.

To escape from the option explanation screen......
 Push O key. The key intormation screen appears.

CREATE NEW PATTERN

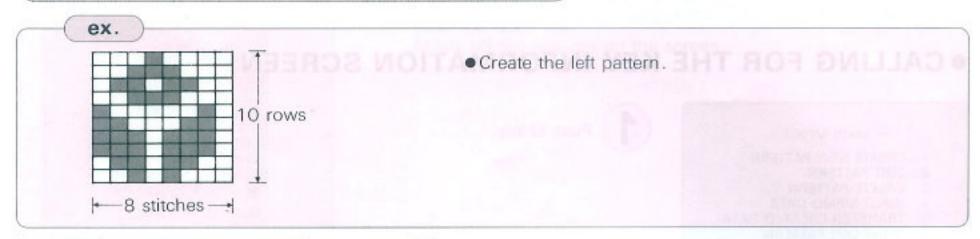
USE THIS OPTION TO CREATE NEW PATTERN.

PUSH STEP KEY TO CONTINUE!!

CREATE NEW PATTERN (MAIN MENU 1)



1. CREATE NEW PATTERN



- MAIN MENU -
- 1. CREATE NEW PATTERN
- 2. EDIT PATTERN
- 3. DELETE PATTERN
- 4. INPUT MEMO DATA
- 5. TRANSFER CREATED DATA
- PRINT OUT PATTERN
- CHANGE MODE (PAGE)
 - * SELECT 1 7 = ■



Select option 1 from the MAIN MENU.

1



If you make a mistake, push the C key to clear the number you entered, and enter the correct number.

Push the STEP key.

STEP

W HELP KEY

Push the HELP key to return to the previous screen.

- STITCH-ROW SET UP PATTERN No.901 HOW MANY STITCHES
STITCHES -

2 Your

Your pattern is given a number by the computer.

Use this number as a reference on your design sheet to avoid confusion.

The computer allocates number 901 for your 1st pattern, number 902 for your 2nd pattern, and so on automatically.

3

Enter the number of stitches.

KH900 mode.... You can enter up to 24 stitches. other mode..... You can enter up to 200 stitches.

8

(ex.... 8 stitches)

Push the STEP key.

STEP

- STITCH-ROW SET UP
PATTERN No. 901

HOW MANY STITCHES
STITCHES = 8

MAXIMUM ROWS: 998
HOW MANY ROWS
ROWS =

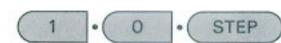


Enter the number of rows.

The display shows the maximum number of rows available for your pattern.

(You can use up to 998 rows in this example).

(ex...10 rows)



- STITCH-ROW SET UP
PATTERN No. 901

HOW MANY STITCHES
STITCHES = 8

MAXIMUM ROWS: 998
HOW MANY ROWS
ROWS = 10

OK? 1 : YES 2 : NO

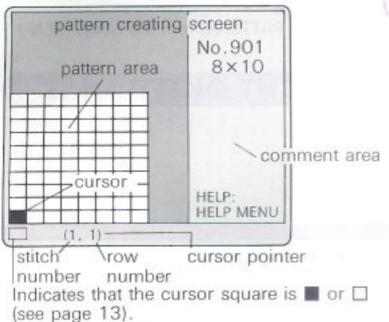


Check the number of stitches and rows.

- If the number of stitches and rows are correct, select 1.
 The screen will advance to the next step.
- If you want to change the number of stitches or rows, select 2.

The screen will return to 3.

KH900 MODE



6

The pattern creating screen appears.

PATTERN CREATING SCREEN
 Create the pattern on this screen.

KH900 MODE

There are 24 stitches and 40 rows on the screen. OTHER MODE

There are 48 stitches and 50 rows on the screen.

PATTERN AREA

This area has the number of stitches and rows you entered.

You can draw a picture in this area.

CURSOR

The cursor shows the current location. You fill in the square where the cursor is by pushing the DRAW key.

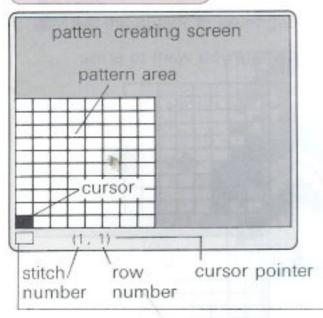
CURSOR POINTER

The cursor pointer shows the location of the cursor by stitch number and row number.

COMMENT AREA

This appears only when KH900 mode is selected. Pattern no., pattern size, etc. are indicated.

OTHER MODE



-Indicates that the cursor square is ■ or □ (see page 13).

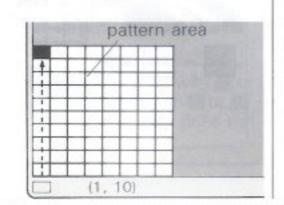
* MOVING THE CURSOR

You can move the cursor using the 8 cursor keys when the pattern creating screen appears. However, the cursor moves only in the pattern area.

①Use the A key.

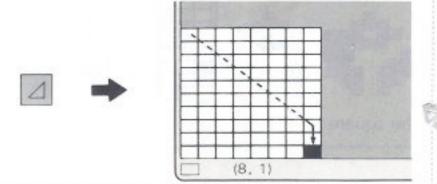
The cursor moves upward by one stitch when you push the key. If you continue pushing the key, the cursor keeps on moving.

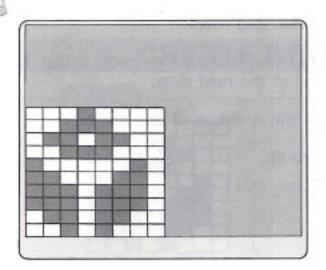
When it comes to an edge, it stops.



②Use the 4 key.

The cursor moves right-downward diagonally. When it comes to an edge, it moves downward.







When you want to stop pattern creation temporarily....

Push the HELP key.

@Choose option 1 (ÉND CREATION)from the HELP MENU and push the STEP key.

The MAIN MENU appears on the screen.

Turn off the power switch of the pattern programming device and TV set.

To continue pattern creation,

Turn on the power switch of the pattern programming device and TV set.

②Push the STEP key twice.

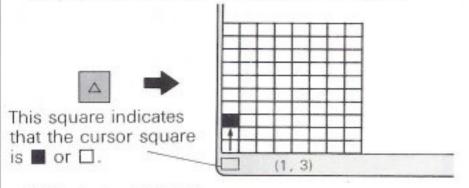
3 Choose option 2 (EDIT PATTERN) from the MAIN MENU and continue drawing. (Refer to page 44.)

Drawing a picture on the screen

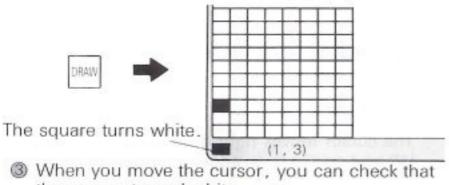
When you draw a picture, use the DRAW key and ERASE key. Move the cursor where you want to draw or erase, then push the DRAW key or ERASE key.

Drawing)

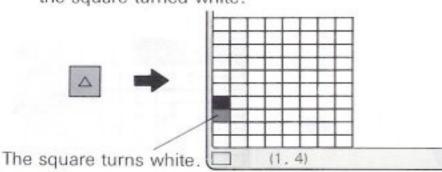
Move the cursor where you want to draw.



Push the DRAW key.

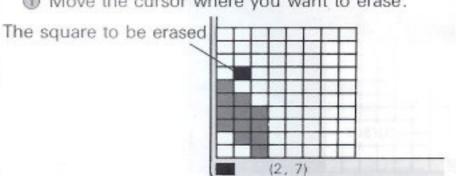


the square turned white.

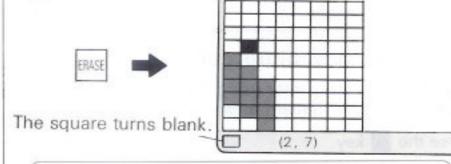


Erasing

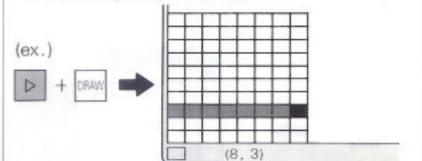
Move the cursor where you want to erase.



Push the ERASE key.



 If you want to draw or erase the straight line, keep on pushing the cursor key and DRAW (or ERASE) key simultaneously.



- HELP MENU -

- 1. END CREATION
- 2. TRANSFER CURSOR
- 3. SET COLOUR
- 4. CHANGE COLOUR
- 5. REDUCTION
- ERASE PART OF PATTERN
- LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1 10 = ■



When you finish drawing, push the HELP key.



The HELP MENU appears on the screen.

- You can choose sub function from the HELP MENU. If you choose option 2 to 10, refer to next page.
- When you want to finish creation, choose option 1 from the HELP MENU and push the STEP key.



The MAIN MENU appears on the screen.

You cannot return to the previous screen with the HELP key when you enter 1 and push the STEP key in this step.

2. KNITTING THE PATTERN YOU CREATED



Load the pattern date you created with the pattern programming device to the knitting machine. See pages 58-60.



You can knit the pattern after the pattern program.

Rolling the screen

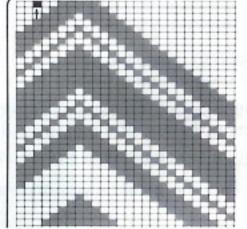
If the pattern is bigger than the screen, roll the screen and continue creation.

- STEPS
- Move the cursor to an edge.

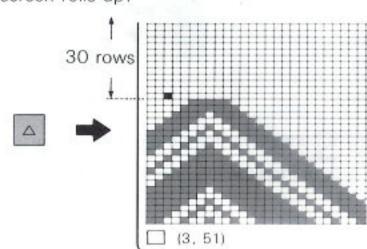
(ex.) When you roll up the screen







②Move the cursor further. The screen rolls up.



Created pattern and needle selection

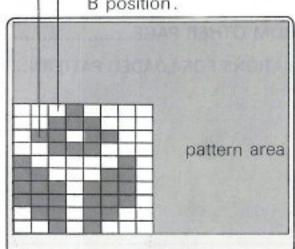
- One square represents one stitch.
- Pattern area represents one pattern repeat.
 If you program for an all-over pattern on the knitting machine, you can knit the pattern all over the garment.

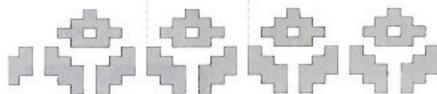
-White square drawn by the DRAW key... The needle is selected to

The needle is selected to D position.

Black square...

The needle is selected to B position.





When you are knitting

HELP MENU

- HELP MENU -
- 1. END CREATION
- 2. TRANSFER CURSOR
- SET COLOUR
 CHANGE COLOUR
- 5. REDUCTION
- ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1 10 = ■

- The HELP MENU has subfunctions you can use when working with MAIN MENU 1 (CREATE NEW PATTERN) or 2 (EDIT PATTERN).
- Push the HELP key while the pattern creating screen is displayed and the HELP MENU will appear.

END CREATION
TRANSFER CURSOR
SET COLOUR
4. CHANGE COLOURUse this option to change the colour of the pattern (page 21)
5. REDUCTION
6. ERASE PART OF PATTERNUse this option to erase a part of the pattern.(page 24)
7. LOAD STORED PATTERNUse this option to create a new pattern by combining and also modifying a pattern stored in the pattern programming device or external memory.
FROM BUILT-IN PATTERNChoose this option to use the patterns that are published in the pattern book attached to electronic knitting machine, or created patterns stored in the pattern programming device. (page 25)
SELECT CHARACTER Choose this option to create the patterns by combining characters built into the pattern programming device. (page 28)
EXTERNAL MEMORY Choose this option to use the patterns stored on the external memory. See the instruction manual of the external memory for detail.
4) FROM OTHER PAGE Choose this option to use patterns stored on another page. (page 31)
8. VARIATIONS FOR LOADED PATTERNUse this option to vary the patterns you choose by option 7 as follows. (page 34) • REVERSE • UPSIDE DOWN • DOUBLE WIDTH • DOUBLE LENGTH • SUBSTITUTION • SPREAD (HORIZONTAL) • SPREAD (VERTICAL) • NEGATIVE • ROTATION
9. TRANSFER PATTERN
10. CHANGE PATTERN AREA Use this option to reduce or increase the pattern area that you are creating now. (page 40)

♦♦♦ 1. END CREATION (HELP MENU 1) ♦♦♦

To finish pattern creation.

- HELP MENU -

- 1. END CREATION
- 2. TRANSFER CURSOR
- 3. SET COLOUR
- 4. CHANGE COLOUR
- 5. REDUCTION
- 6. ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1 10 =



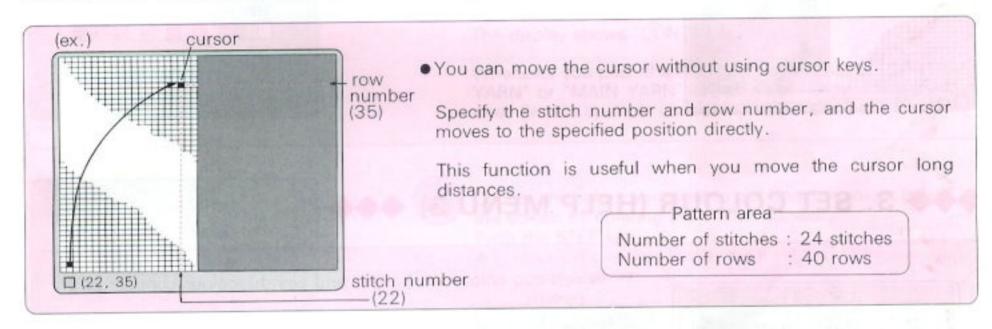
Choose option 1 from the HELP MENU, and push the STEP key.



The screen returns to the MAIN MENU, and you have finished pattern creation.

Even if you turn off the power of pattern programming device, the battery works to save the created patterns in the memory of the cartridge.

** 2. TRANSFER CURSOR (HELP MENU 2) ***



-HELP MENU-

- 1. END CREATION
- 2. TRANSFER CURSOR
- 3. SET COLOUR
- 4. CHANGE COLOUR
- 5. REDUCTION
- 6. ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1-10 = ■



Choose option 2 from the HELP MENU, and push the STEP key.

2 · STEP

- TRANSFER CURSOR -

MAXIMUM STITCH No.: 24

STITCH No. =

2

Enter the stitch number where you want to put the cursor.

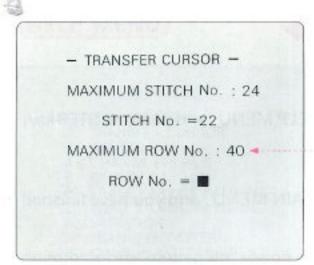
You can move the cursor within the area.

The maximum stitch number is displayed. Enter a stitch number within the limit and push the STEP key.

(ex. stitch number... 22)

2 • 2 • STEP



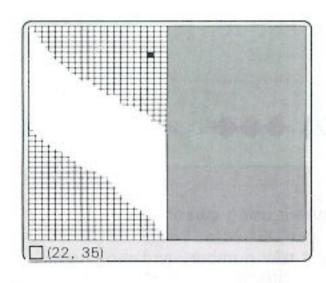


3 Enter the row number where you want to put the cursor.

Maximum row number is displayed. Enter a row number within the limit and push the STEP key.

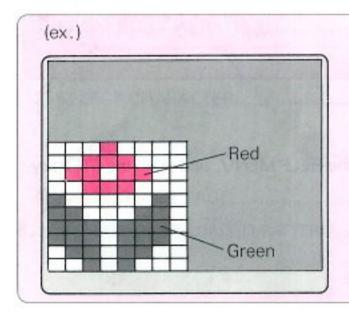
(ex. row number ... 35)





The pattern creating screen appears, and you can see the cursor which is positioned where you specified.

♦♦♦ 3. SET COLOUR (HELP MENU 3) ♦♦♦

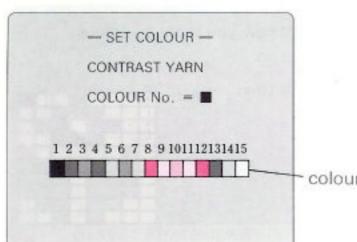


- You can colour the pattern and see the colour contrast of the pattern.
- You can colour both the main yarn and contrast yarn.
- You can set the new colour on the row where you already set the colour.
- Colour data of the contrast yarn is displayed on the display of the knitting machine while you are knitting.
 (Refer to page 20).



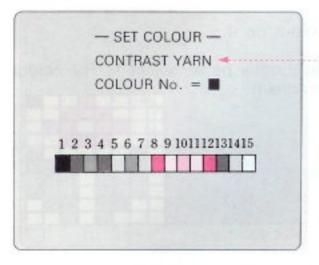
1 Choose option 3 from the HELP MENU, and push the STEP key.

3 • STEP



A colour palette of 15 colours appears on the screen. You can use these colours for colouring.

colour palette

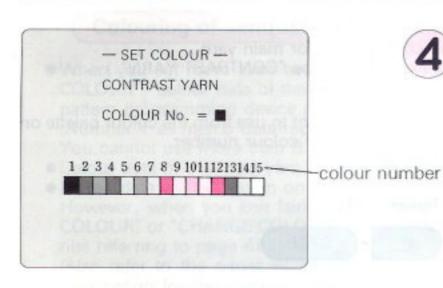


First choose the contrast yarn or main yarn that you are going to colour.

Push the STEP key.

The display shows "MAIN YARN" Push the STEP key again. The display shows "CONTRAST YARN"

Whenever you push the STEP key, the display of "CONTRAST YARN" or "MAIN YARN" appears alternately. Choose either one. (In this example choose "CONTRAST YARN".)

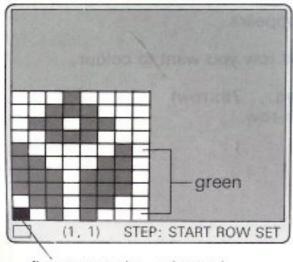


Choose the colour you want to use from the colour palette on the screen by entering the colour number. Push the STEP key.

In this example, first colour the leaves and then the flower. (ex. green : leaves...4)

STEP

It is convenient to memorize the colour number when you change the colour.



first row to be coloured

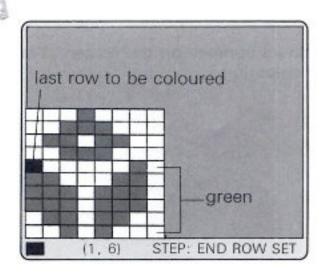
Pattern creating screen reappears. Move the cursor to the first row you want to colour.

It does not matter if the cursor is on any stitch.

(ex. first row to be coloured... 1st row)

Move the cursor to the first row. Push the STEP key.

STEP

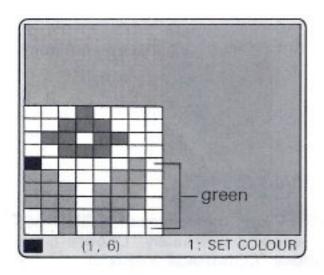


6

Move the cursor to the last row you want to colour.

(ex. last row... sixth row)
Move the cursor to the 6th row.
Push the STEP key.

STEP



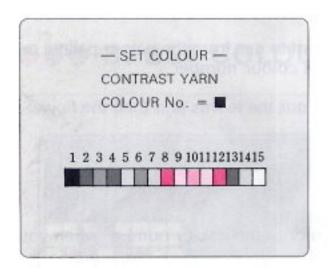


The specified part has colour on it.

When you want to colour other parts, select 1. The colour palette appears on the screen.

(ex. Colour the flower.)

1





Choose the contrast yarn or main yarn.

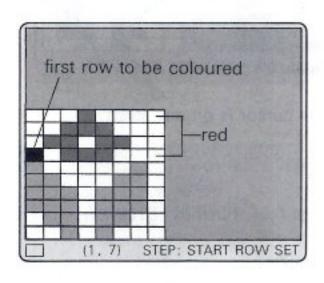
(ex. In this example choose "CONTRAST YARN".)



Choose the colour you want to use from the colour palette on the screen by entering the colour number. Push the STEP key.

(ex. red : flower... 10)

1 • 0 • STEP



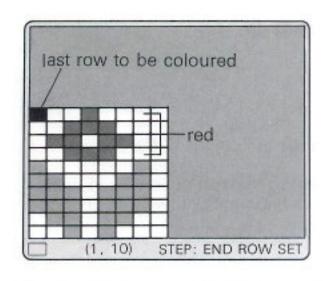


Pattern creating screen reappears.

Move the cursor to the first row you want to colour.

(ex. first row to be coloured... 7th row)
Move the cursor to the 7th row.
Push the STEP key.

STEP



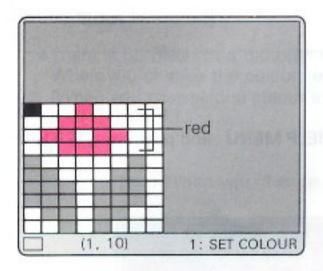


Move the cursor to the last row you want to colour.

(ex. last row to be coloured... 10th row)

Move the cursor to the 10th row. Push the STEP key.

STEP





The specified part has colour on it.

When you want to choose other options from the HELP MENU, push the HELP key.

Colouring of contrast yarn and memo data

 When you set more than two colours on the contrast yarn using option "SET COLOUR" and "CHANGE COLOUR", colour data of the contrast yarn will automatically convert to number 2-9 and be stored in the pattern programming device as memo data.

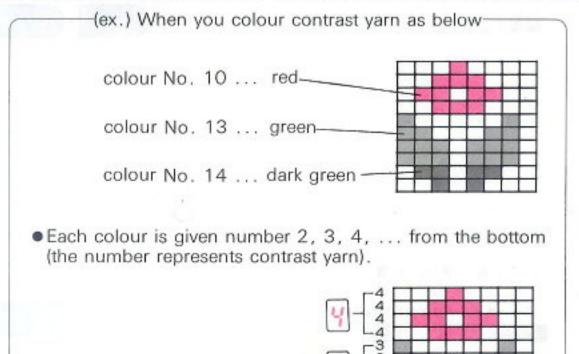
(Number 1 as memo data represents main yarn.)

You cannot use more than 8 colours for the contrast yarn.

Colour data of the main yarn will not be stored in the pattern programming device as memo data.

Memo data will be shown on the display of the knitting machine while you knit.
 However, when you knit fairisle ribs setting the KRC key on, memo data you entered working with "SET COLOUR" or "CHANGE COLOUR" will not be converted for fairisle ribs. Therefore enter memo data for fairisle

ribs referring to page 46. (Also refer to the pages of memoinformation for the electronic knitting machine manual.)

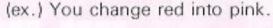


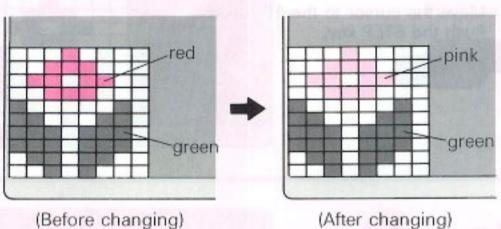
display

memo data



♦♦♦ 4. CHANGE COLOUR (HELP MENU 4) ♦♦♦





- You can change the colour of the pattern.
 - It is convenient to use this option when there are many rows of colour you want to change or stripes, etc.

- HELP MENU -

- END CREATION
- TRANSFER CURSOR
- SET COLOUR
- CHANGE COLOUR
- REDUCTION
- ERASE PART OF PATTERN
- LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1-10 = ■



Choose option 4 from HELP MENU, and push the STEP key.







Choose the colour you want to change from the colour palette by entering the colour number, and push the STEP key.

(ex. red... 10)

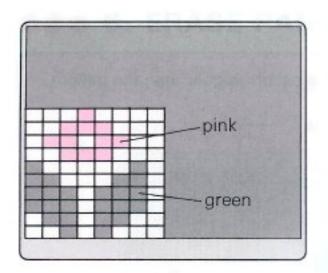
STEP



Choose the new colour by entering the colour number, and push the STEP key.

(ex. pink... 12)

STEP





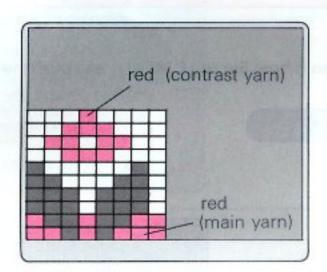
The screen returns to the pattern creating screen, and you can see that the colour is changed as you specified.

When you want to choose other options from the HELP MENU, push the HELP key.

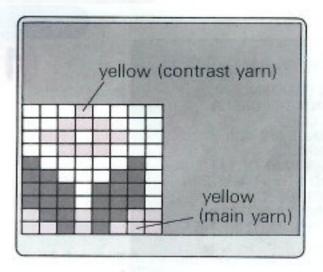
Note

There is no distinction between the main yarn and contrast yarn in the option of CHANGE COLOUR.
 When you change the colour, every part coloured in the same colour is changed automatically.
 (When you change one colour to more than two colours, colour each part respectively using option 3 (SET COLOUR)).

(ex.) When you change red into yellow

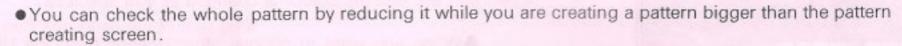








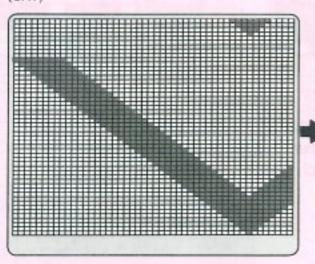
5. REDUCTION (HELP MENU 5)

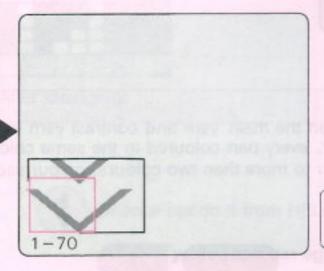


- The number of stitches and rows the pattern creating screen has

When KH900 mode is set . . . 24 stitches x 40 rows When other mode is set . . . 48 stitches x 50 rows

(ex.)





Pattern area-

Number of stitches: 90 stitches Number of rows : 70 rows

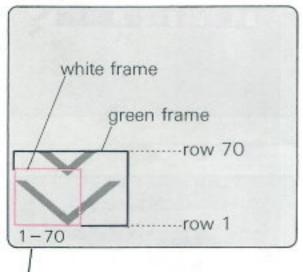
- HELP MENU -

- END CREATION
- 2. TRANSFER CURSOR
- SET COLOUR
- CHANGE COLOUR
- 5. REDUCTION
- ERASE PART OF PATTERN
- LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN 10. CHANGE PATTERN AREA
 - * SELECT 1-10 = ■



Choose option 5 from the HELP MENU, and push the STEP key.

STEP



The numbers indicate the top and bottom row of the part of the pattern which is displayed on the screen.



You can see the whole pattern that you are drawing now by reducing it.

- Reduced pattern screen
 - There are 200 stitches and 200 rows on the screen.
 - The green frame of square which is shown on the screen indicates the whole pattern area.
 - The white frame of square indicates the part of pattern that you can see on the pattern creating shreen. When you want to see other parst of the pattern on the pattern creating screen, move the white frame with the cusor keys.
 - If you are creating a pattern exceeding 200 rows, you can roll the screen up or down by 180 rows by selecting 1 or 2.

UPWARD → 1 key

DOWNWARD → 2 key

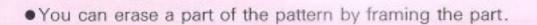


Push the STEP key.

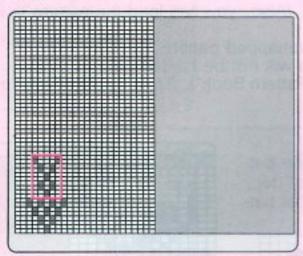
The screen returns to the pattern creating screen.

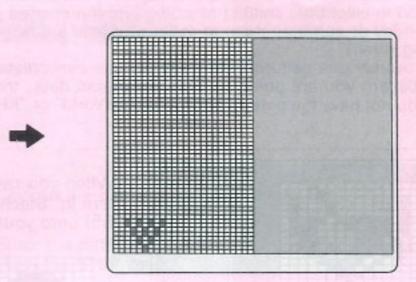
STEP

♦♦♦ 6. ERASE PART OF PATTERN (HELP MENU 6) ♦♦♦



(ex.)





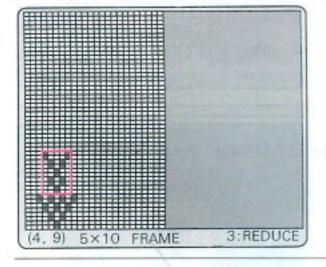
- HELP MENU -

- 1. END CREATION
- 2. TRANSFER CURSOR
- 3. SET COLOUR
- 4. CHANGE COLOUR
- 5. REDUCTION
- 6. ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- CHANGE PATTERN AREA
 - * SELECT 1-10 = ■



Choose option 6 from the HELP MENU, and push the STEP key.

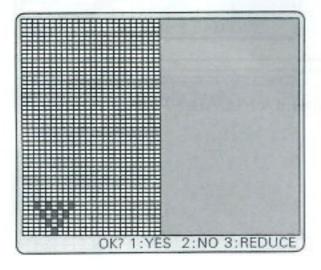
6 • STEP





Frame the part of the pattern which you want to erase.

- Refer to "FRAMING A PART OF A PATTERN" on page 43.
- If you want to erase the whole pattern part, select 1 and advance to ③.





The part in the frame will disappear.

Make sure that you erased correctly.

- If you check the whole pattern by reducing the pattern...
- Select 3. The reduced pattern appears on the screen.
 - If you want to see another part of pattern on the pattern creating screen, move the white frame with cursor keys.
 - If the pattern exceeds 200 rows, you can roll the screen up or down by selecting 1 or 2.
- Push the STEP key. The screen returns to the pattern creating screen.
- When you have erased correctly, select 1.
- To restore the pattern, select 2.
- When you want to choose other options from the HELP MENU, push the HELP key.



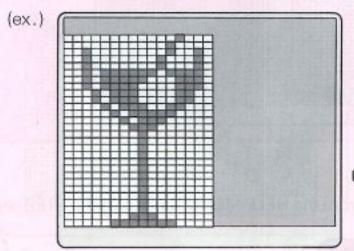
🍑🔷 7. LOAD STORED PATTERN (HELP MENU 7) 🔷🔷



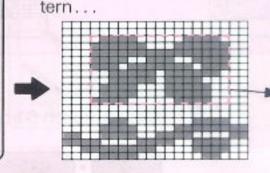


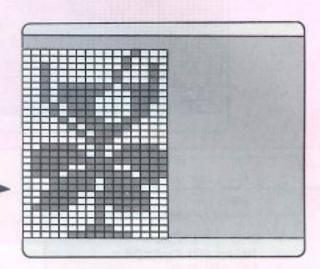
FROM BUILT-IN PATTERN

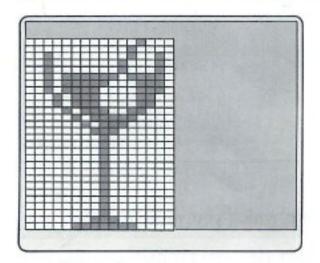
- You can load a pattern that is published in the pattern book ("Stitch World", "KH270 Pattern Book") attached to electronic knitting machine and the created patterns stored in the pattern programming device, and modify or combine them in order to create a new pattern. (Also, you can load the pattern that you are creating now.)
- If you overlay one pattern onto another, you can create an overlapped pattern.
- If the pattern you are going to load has memo data, that data will not be loaded.
- ♣If you do not have the pattern book ("Stitch World" or "KH270 Pattern Book"), it can be purchased optionally.



When you overlay the pattern in "Stitch World" (No. 55) onto your original pattern...







First, create the pattern of a glass as shown in the illustration. (Refer to steps ①-⑦ page 11-13. Enter the pattern area as below.)

-Pattern area -

Number of stitches: 16 stitches Number of rows : 28 rows

After drawing the pattern of glass, push the HELP key.

- HELP MENU -
- END CREATION
- 2. TRANSFER CURSOR
- SET COLOUR CHANGE COLOUR
- 5. REDUCTION
- 6. ERASE PART OF PATTERN
- LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1-10 = ■

Choose option 7 from the HELP MENU, and push the STEP key.



- LOAD STORED PATTERN -
- FROM BUILT-IN PATTERN
- SELECT CHARACTER
- 3. EXTERNAL MEMORY
- (4. FROM OTHER PAGE)
 - * SELECT 1-3 (4) = ■

Choose option 1 from menu of LOAD STORED PATTERN, and push the STEP key.



This option does not appear on the screen when MODE 1 is set.

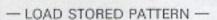
- LOAD STORED PATTERN -
- 1. CREATED PATTERN (CURRENT PAGE)
- 2. STITCH WORLD
- 3. KH-270 PATTERN BOOK
 - * SELECT 1-3 = ■



Choose either of the pattern book or the created pattern (current page) from which you want to load the pattern.

(ex...When you load the pattern from "Stitch World"...2)

2 · STEP



* STITCH WORLD *

PATTERN No. =



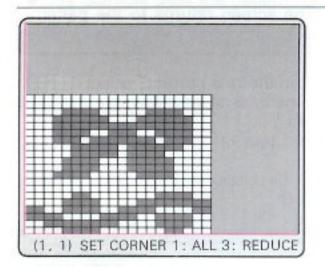
Choose the pattern that you want to use.

Enter the pattern number with the numeral keys. Push the STEP key.

(ex. pattern number...55)



If the entered pattern number disappears, it means that there is not that pattern number in the current page.



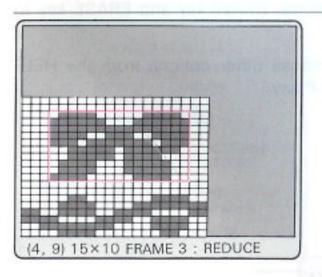


The pattern that you specified appears on the screen.

When KH900 mode is set...

The screen indicates up to 24 stitches. If the choosed pattern has more than 24 stitches, move cross line to the right using

. The screen rolls right.

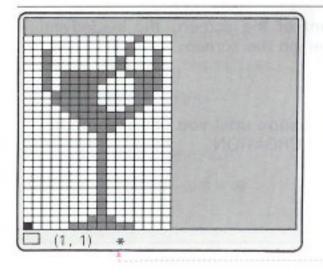




Frame the part of the pattern you want to use.

(In this example, use only the ribbon).

- Refer to "FRAMING A PART OF A PATTERN" on page 43.
- If you want to use the whole pattern, push the 1 key and advance to ®.

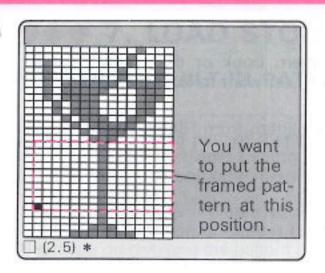




The screen returns to the pattern creating screen, and '* appears on the screen.

This mark indicates that the loaded and framed pattern is ready to appear on the screen.

When KH900 mode is set, "LOAD PATTERN" appears in the comment area instead of *.

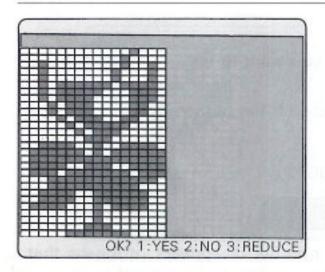




Move the cursor to the lower left corner of the position where you want to put the framed pattern.

Push the STEP key.

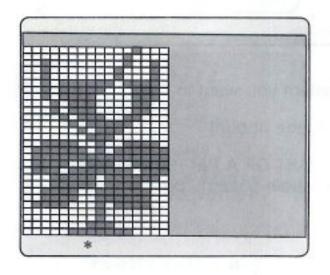
STEP





The framed pattern appears on the screen. Check the position of the pattern.

- If you check the whole pattern by reducing the pattern...
- Select 3. The reduced pattern appears on the screen.
 - If you want to see another part of the pattern on the pattern creating screen, move the white frame with the cursor keys.
 - If the pattern exceeds 200 rows, you can roll the screen up or down by selecting 1 or 2.
- ②Push the STEP key. The screen returns to the pattern creating screen.
- When the position of the pattern is correct, select 1.
- After selecting 1, it sometimes takes a few minutes until the next screen appears.
 Wait for a while. Do not turn off the power switch.

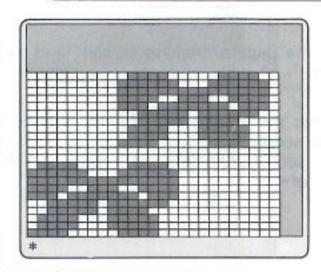




Modify the drawing with the DRAW key and ERASE key to complete the pattern.

When you want to choose other options from the HELP MENU, push the HELP key.

If you want to put the same pattern in several places...



Whenever "*" is on the bottom of the screen, the loaded and framed pattern is ready to appear on the screen.

Repeat operation steps 9 - 10.

 The framed pattern does not change until you choose another pattern or choose option "END CREATION".

🌬 7. LOAD STORED PATTERN (HELP MENU 7) 🔷



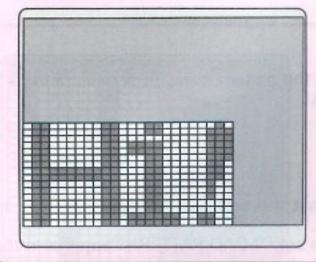


SELECT CHARACTER

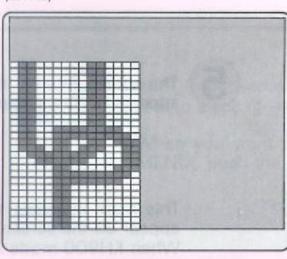
 You can create a pattern by combining the characters (alphabet, number and so on) that are built into the pattern programming device. (See the diagram of character on page 62).

If you overlay one character onto another, you can create an overlapped pattern.

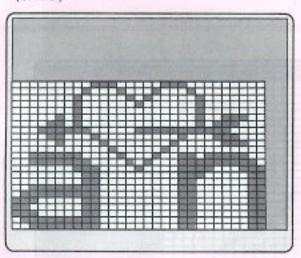
(ex. 1)



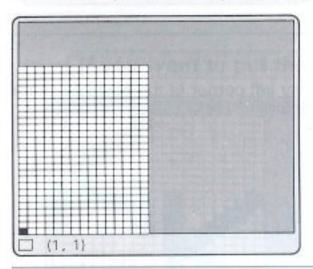
(ex.2)



(ex.3)



This example uses the pattern (ex.2). Operation for (ex. 1) and (ex. 3) is the same as for (ex. 2)



Prepare the pattern creating screen. Refer to steps 1-6 on pages 11-12. Enter the pattern area as below.

Pattern area-

Number of stitches: 15 stitches Number of rows : 26 rows

When the pattern creating screen appears, push the HELP key.

- HELP MENU -

- END CREATION
- TRANSFER CURSOR
- SET COLOUR
- 4. CHANGE COLOUR
- 5. REDUCTION
- ERASE PART OF PATTERN
- LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- CHANGE PATTERN AREA
 - * SELECT 1-10 = ■

Choose option 7 from the HELP MENU, and push the STEP key.

STEP

— LOAD STORED PATTERN —

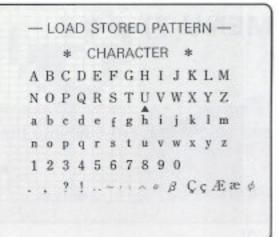
- FROM BUILT-IN PATTERN
- 2. SELECT CHARACTER
- 3. EXTERNAL MEMORY
- (4. FROM OTHER PAGE)
 - * SELECT 1-3(4) = ■

Choose option 2 from the menu of LOAD STORED PATTERN, and push the STEP key.

STEP

This option does not appear on the screen when MODE 1 is





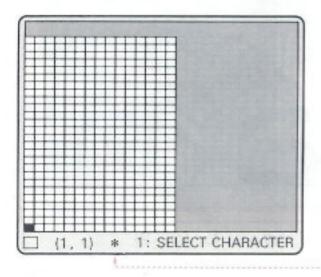


Characters appear on the screen.

Using the cursor keys (▲・▼・■・▶), move the cursor "▲" under the character you want to use. (ex. Move the cursor "▲" under the "U".)

Push the STEP key.

STEP

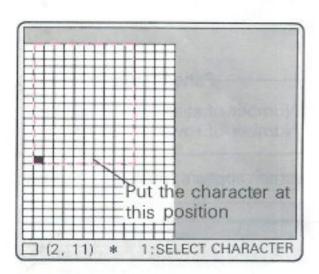




The screen returns to the pattern creating screen, and "*" appears on the screen.

This mark indicates that the selected character is ready to appear on the screen.

When KH900 mode is set, "LOAD PATTERN" appears in the comment area instead of *.

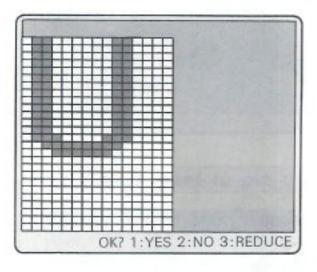




Move the cursor to the lower left corner of the position where you want to put the character.

Push the STEP key.

STEP





The character appears on the screen. Check the position of the character.

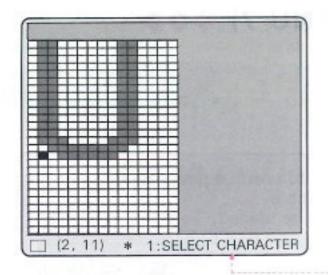
If you check the whole pattern by reducing the pattern... –

Select 3. The reduced pattern appears on the screen.

- If you want to see another part of pattern on the pattern creating screen, move the white frame with the cursor keys.
- If the pattern exceeds 200 rows, you can roll the screen up or down by selecting 1 or 2.
- @Push the STEP key.

The screen returns to the pattern creating screen.

- When the position of the character is correct, select 1.
- When you want to change the position of the character, select 2. The screen will return to 6.



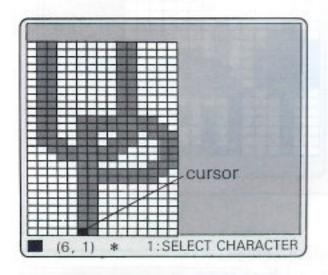
8

You have finished setting the character.

If you want to select another character, select 1.
The screen returns to ④.

(ex. Choose character "P") Select 1.

1

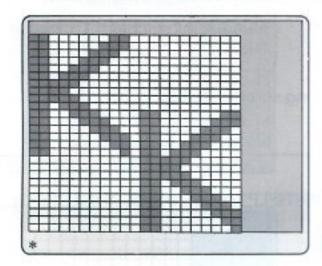




Set "P" in the same way you set "U". (Refer to steps ④ – ⑦.)

When you want to choose other options from the HELP MENU, push the HELP key.

If you want to put the same character in several places...



Whenever " * " is on the bottom of the screen, the selected character is ready to appear on the screen.

Repeat operation steps 6 - 7 on page 29.

 The character does not change until you choose another character or pattern or you choose "END CREATION".

+++

7. LOAD STORED PATTERN (HELP MENU 7) ***



EXTERNAL MEMORY

You can load patterns stored on the external memory and modify or combine them in order to create a new pattern.

See the instruction manual of the external memory for detail.

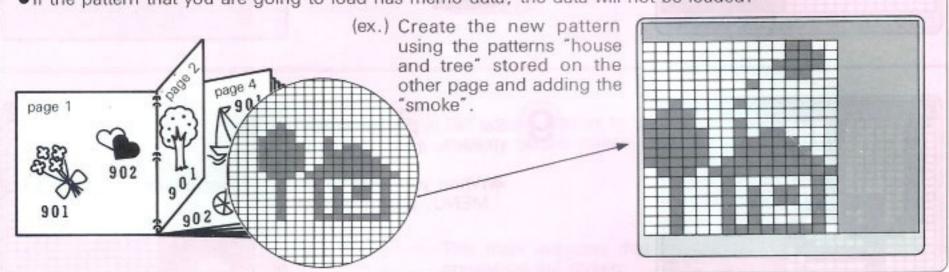
** ** 7. LOAD STORED PATTERN (HELP MENU 7) **

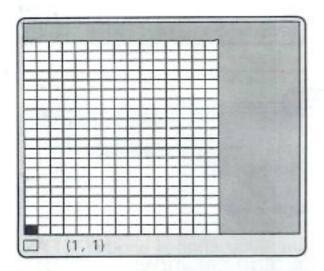




FROM OTHER PAGE

- You can use this option only when you set other mode than mode 1. (See page 51 for detail about "PAGE".)
- You can load a pattern stored on another page and modify or combine it to create a new pattern.
- · If you overlay one pattern onto another, you can create an overlapped pattern.
- If the pattern that you are going to load has memo data, the data will not be loaded.





Prepare the pattern creating screen. Refer to steps ①-⑥ page 11-12. Enter the pattern area as below.

Pattern area

Number of stitches: 15 stitches Number of rows : 20 rows

When the pattern creating screen appears, push the HELP key.

- HELP MENU -
- END CREATION
- 2. TRANSFER CURSOR
- 3. SET COLOUR
- CHANGE COLOUR
- 5. REDUCTION
- ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1-10 = ■

Choose option 7 from the HELP MENU, and push the STEP key.

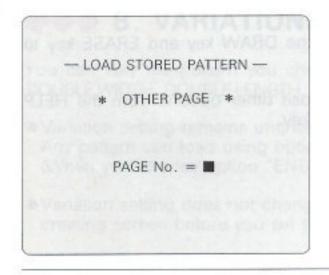


- LOAD STORED PATTERN -

- FROM BUILT-IN PATTERN
- SELECT CHRACTER
- EXTERNAL MEMORY
- FROM OTHER PAGE
 - * SELECT 1-4 = ■

Choose option 4 from the LOAD STORED PATTERN menu, and push the STEP key.

STEP

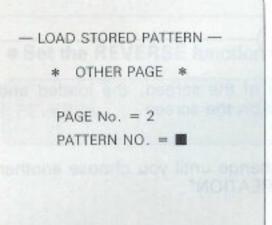




Enter the page number where the required pattern is saved, and push the STEP key.

(ex. page number...2)

2 • STEP



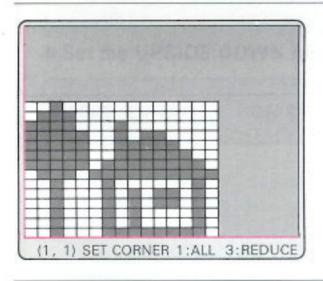


Enter the pattern number, and push the STEP key.

(ex. pattern number...901)



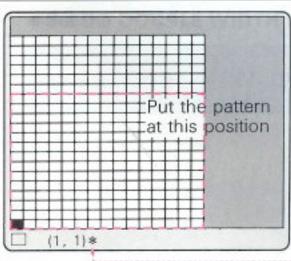
If the entered pattern number disappears, it means that there is not that pattern number in the page.





The pattern you chose appears on the screen. Specify the part of the pattern you want to use. (ex. To use the whole pattern, select 1.)

If you want to use part of the pattern, frame the part referring to page 43.





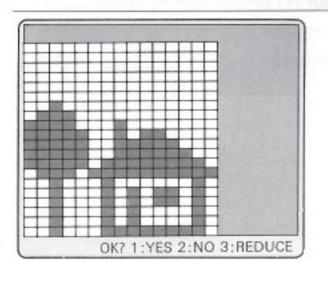
The screen returns to the pattern creating screen and "*" appears on the screen.

This mark indicates that the loaded and framed pattern is ready to appear on the screen.

When KH900 mode is set, "LOAD PATTERN" appears in the comment area instead of *.

Move the cursor to the lower left corner of the position where you want to put the pattern. Push the STEP key.

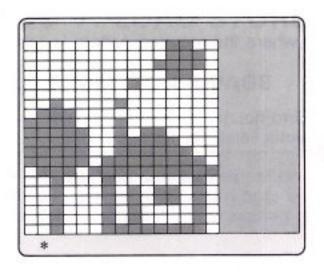
STEP





The pattern appears on the screen. Check the position of the pattern.

- If you check the whole pattern by reducing it, refer to 10 page 27.
- When the position of the pattern is correct, select 1.
- When you want to change the position of the pattern, select 2.
 The screen will return to ②.

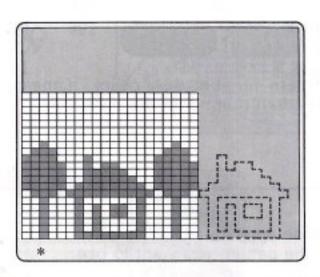




Modify the drawing with the DRAW key and ERASE key to complete the pattern.

When you want to choose other options from the HELP MENU, push the HELP key.

If you want to put the same pattern in several places...



Whenever "*" is on the bottom of the screen, the loaded and framed pattern is ready to appear on the screen. Repeat operation steps 7-8.

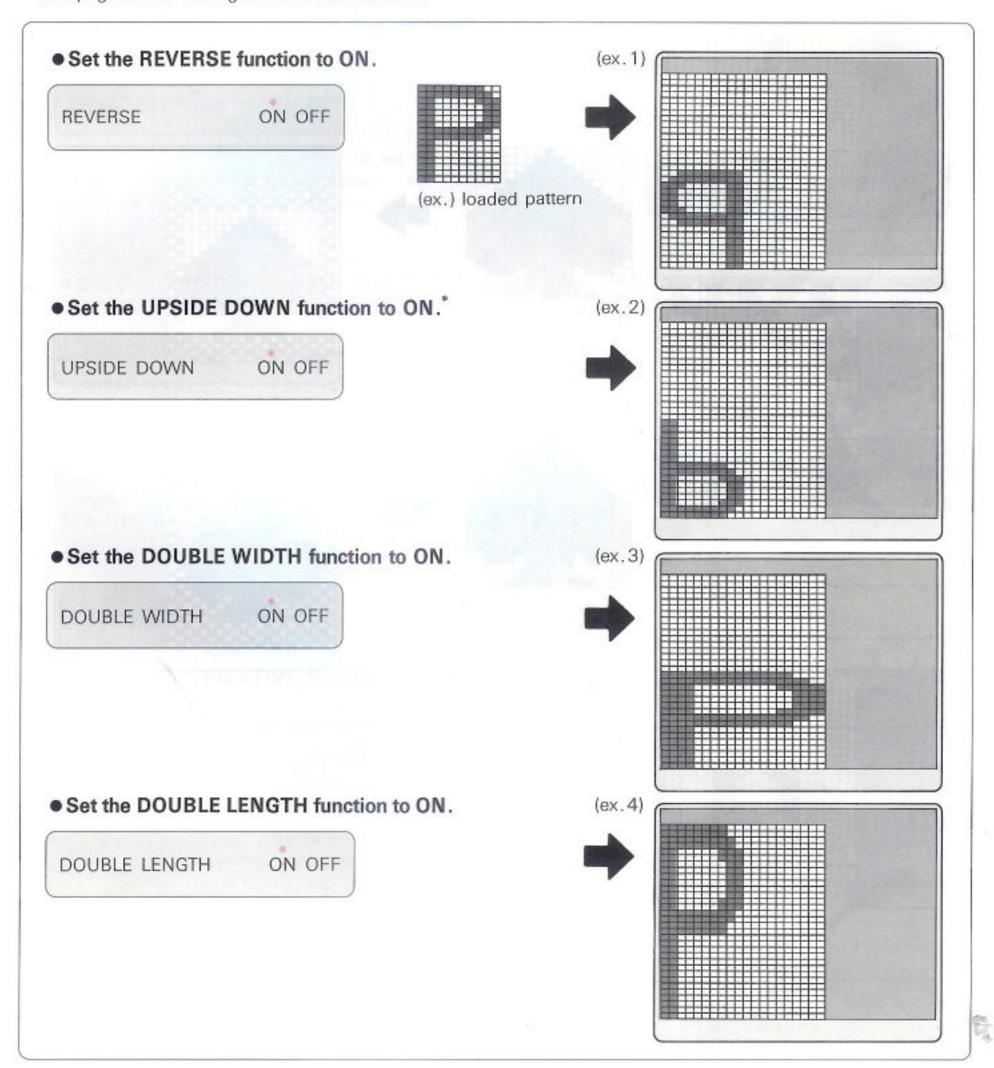
 The framed pattern does not change until you choose another pattern or you choose "END CREATION".

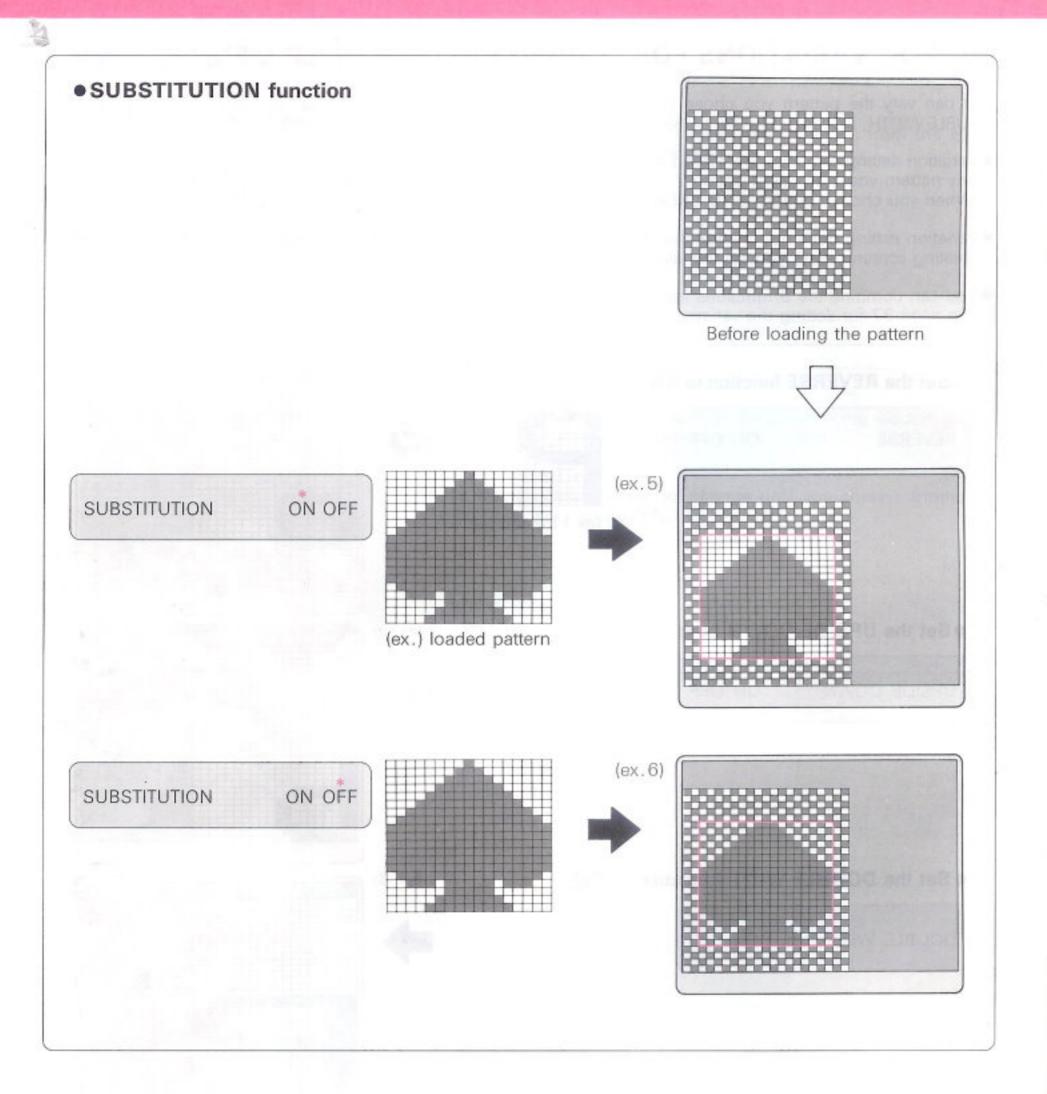
8. VARIATIONS FOR LOADED PATTERN (HELP MENU 8)



You can vary the pattern you chose by option 7 (LOAD STORED PATTERN) into REVERSE, UPSIDE DOWN, DOUBLE WIDTH, DOUBLE LENGTH, SUBSTITUTION, SPREAD (HORIZONTAL), SPREAD (VERTICAL), NEGATIVE, ROTATION.

- Variation setting remains unchanged until you set it again. Any pattern you load using option 7 will be changed according to variation setting. (When you choose option "END CREATION", all-functions are set to OFF.)
- Variation setting does not change the picture drawn by the DRAW key or the pattern you loaded on the pattern creating screen before you set the variation function.
- You can combine the 9 functions freely. See page 37 for setting the variation function.





● Set the SPREAD (HORIZONTAL) function to ON. (ex. 7)

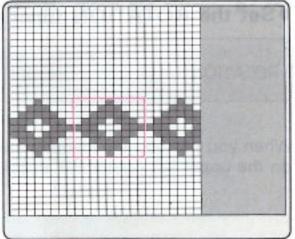
SPREAD (HORIZONTAL) ON OFF





(ex.) loaded pattern

When you position the loaded pattern, the same pattern will automatically repeat to the left and right sides of it.

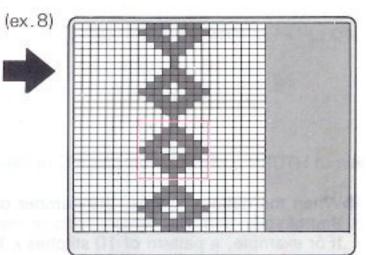


Set the SPREAD (VERTICAL) function to ON.

SPREAD (VERTICAL)

ON OFF

When you position the loaded pattern, the same pattern will automatically repeat above and below it.

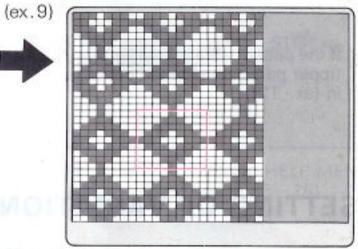


 Set both the SPREAD (HORIZONTAL) and the SPREAD (VERTICAL) functions to ON.



SPREAD (VERTICAL) ON OFF SPREAD (HORIZONTAL) ON OFF

When you position the loaded pattern, the same pattern will automatically repeat around it all over the pattern creating area.

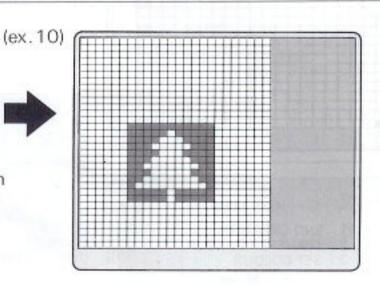


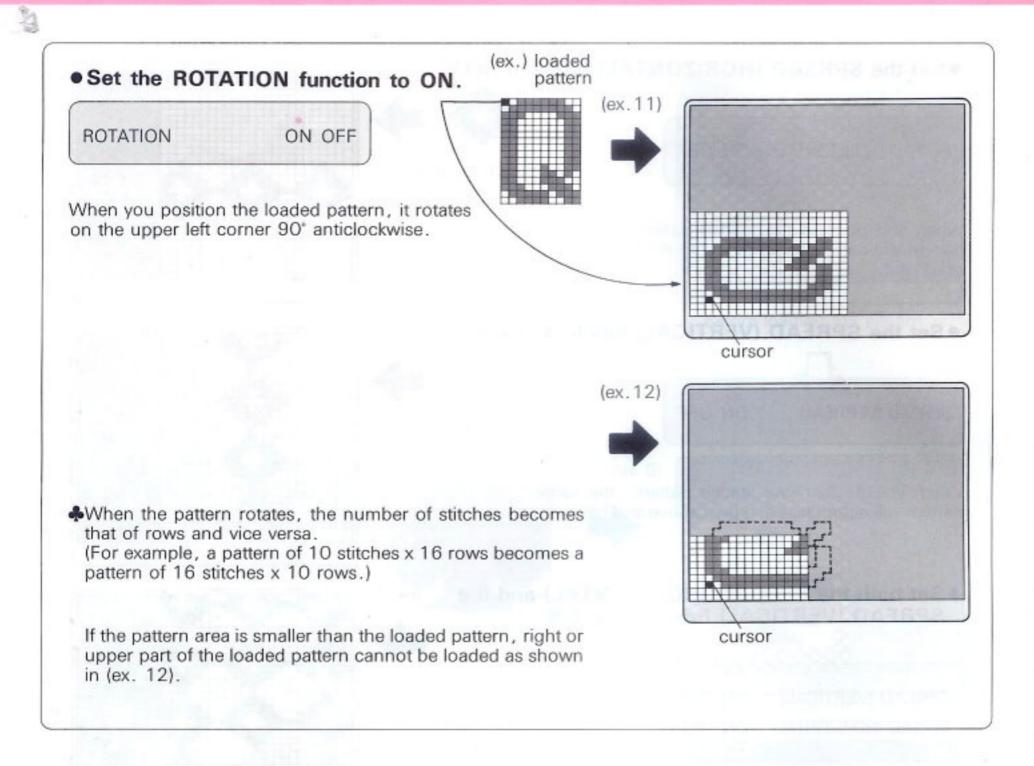
Set the NEGATIVE function to ON.

NEGATIVE

ON OFF

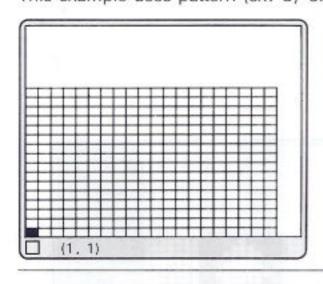
(ex.) loaded pattern





SETTING OF VARIATION FUNCTION

This example uses pattern (ex. 3) on page 34.



Prepare the pattern creating screen.

(Refer to steps ① – ⑥ on page 11 – 12.

Enter the pattern area as below.)

(ex.3) Pattern area

Number of stitches: 20 stitches Number of rows : 16 rows

When the pattern creating screen appears, push the HELP key.

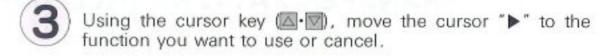
- HELP MENU -
- 1. END CREATION
- 2. TRANSFER CURSOR
- 3. SET COLOUR
- 4. CHANGE COLOUR
- REDUCTION
- 6. ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1-10 = ■



Choose option 8 from the HELP MENU by entering 8 with the numeral keys, and push the STEP key.

8 • STEP

- VARIATION	S -	*
REVERSE	ON	OFF
UPSIDE DOWN	ON	OFF
▶DOUBLE WIDTH	ON	OFF
DOUBLE LENGTH	ON	OFF
SUBSTITUTION	ON	OFF
SPREAD (HORIZONTAL)	ON	OFF
SPREAD (VERTICAL)	ON	OFF
NEGATIVE	ON	OFF
ROTATION	ON	OFF



(ex. Choose the DOUBLE WIDTH.)
Move the cursor "▶" to DOUBLE WIDTH.

- VARIATION	5 -	160
REVERSE	ON	OFF
UPSIDE DOWN	ON	OFF
▶ DOUBLE WIDTH	ON	OFF
DOUBLE LENGTH	ON	OFF
SUBSTITUTION	ON	OFF
SPREAD (HORIZONTAL)	ON	OFF
SPREAD (VERTICAL)	ON	OFF
NEGATIVE	ON	OFF
ROTATION	ON	OFF

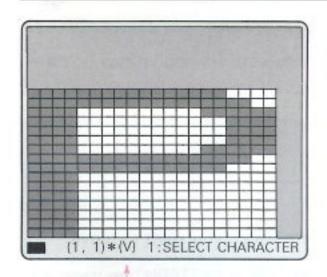


(ex. Set the DOUBLE WIDTH to ON.)



The asterisk moves to ON and now DOUBLE WIDTH function works.

When you want to choose other functions, repeat steps ③-④.





When you finish VARIATION setting, push the STEP key. The pattern creating screen reappears.

STEP



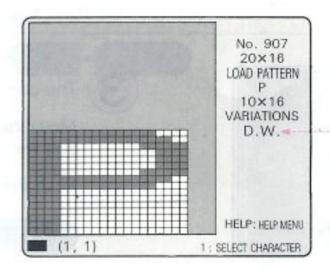
Push the HELP key and choose option 7 from HELP MENU. Load the character "P" (refer to ②-⑦.page 28-29). The double width pattern appears on the screen.

When KH900 mode is not set...

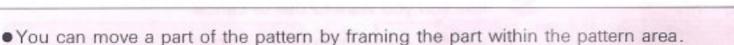
When some variation function is set to ON, (V) appears at the bottom of the screen.

When KH900 mode is set...

When some variation function is set to ON, that function is indicated at the comment area.

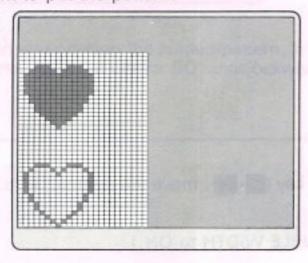


9. TRANSFER PATTERN (HELP MENU 9)

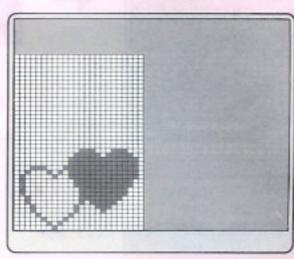


 If the transferred pattern has colours, the colours change according to the colours on the position where you want to put the pattern.

(ex.)





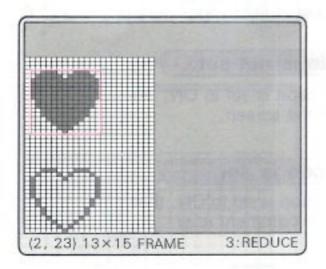


- HELP MENU -
- END CREATION
- TRANSFER CURSOR
- 3. SET COLOUR
- 4. CHANGE COLOUR
- 5. REDUCTION
- 6. ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1-10 = ■



Choose option 9 from the HELP MENU, and push the STEP key.

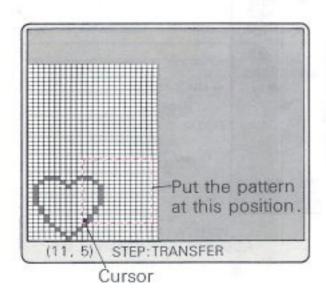
9 STEP





Frame the part of the pattern which you want to move.

- Refer to "FRAMING A PART OF A PATTERN" on page 43.
- If you want to move the whole pattern part, select 1 and advance to 3.



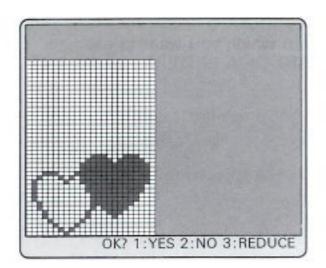


The part in the frame will disappear.

Move the cursor to the lower left corner of the position where you want to put the pattern.

Push the STEP key.

STEP





The pattern appears on the screen. Check the position of the pattern.

─♥If you check the whole pattern by reducing it...

Select 3. The reduced pattern appears on the screen.

- If you want to see another part of the pattern on the pattern creating screen, move the white frame with cursor keys.
- If the pattern exceeds 200 rows, you can roll the screen up or down by selecting 1 or 2.
- ②Push the STEP key. The screen returns to the pattern creating screen.
- When the position of the pattern is correct, select 1.
- When you want to change the position of the pattern, select 2.
 The screen will return to ③.
- When you want to choose other options from the HELP MENU, push the HELP key.

♦♦♦ 10. CHANGE PATTERN AREA (HELP MENU 10) ♦♦♦♦



REDUCE PATTERN AREA

You can reduce the area of the pattern you are creating now.

-HELP MENU-

- 1. END CREATION
- TRANSFER CURSOR
- 3. SET COLOUR
- 4. CHANGE COLOUR
- 5. REDUCTION
- 6. ERASE PART OF PATTERN
- 7. LOAD STORED PATTERN
- 8. VARIATIONS
- 9. TRANSFER PATTERN
- 10. CHANGE PATTERN AREA
 - * SELECT 1-10 =



Choose option 10 from the HELP MENU, and push the STEP key.

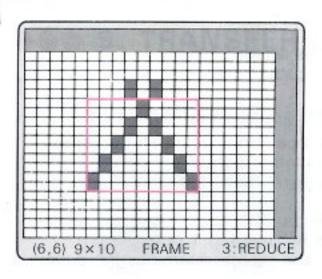


- CHANGE PATTERN AREA -
- REDUCE PATTERN AREA
- 2. INCREASE PATTERN AREA
 - * SELECT 1-2 = ■



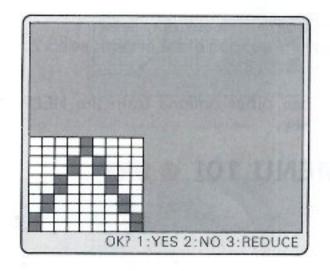
Choose option 1 from the CHANGE PATTERN AREA menu, and push the STEP key.





Frame the part of the pattern which you want to use.

• Refer to "FRAMING A PART OF A PATTERN" on page 43.



The pattern is reduced to its new area and appears on the screen.

Check the new pattern area is correct.

- -\ff you check the whole pattern by reducing it...-
- Select 3. The reduced pattern appears on the screen. Check the pattern area.
 - If you want to see another part of the pattern on the pattern creating screen, move the white frame with cusor keys.
 - If the pattern exceeds 200 rows, you can roll the screen up or down by selecting 1 or 2.
- Push the STEP key. The screen returns to the pattern creating screen.
- When the pattern area is correct, select 1.
- When you restore the pattern, select 2.

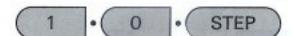
♦♦♦ 10. CHANGE PATTERN AREA (HELP MENU 10) ♦♦♦

2 INCREASE PATTERN AREA

- You can increase the area of the pattern you are creating now.
 - HELP MENU -
 - 1. END CREATION
 - 2. TRANSFER CURSOR
 - 3. SET COLOUR
 - CHANGE COLOUR
 REDUCTION
 - 6. ERASE PART OF PATTERN
 - 7. LOAD STORED PATTERN
 - 8. VARIATIONS
 - TRANSFER PATTERN
- CHANGE PATTERN AREA
 - * SELECT 1-10 = ■

1

Choose option 10 from the HELP MENU, and push the STEP key.



- CHANGE PATTERN AREA -
- 1. REDUCE PATTERN AREA
- 2. INCREASE PATTERN AREA
 - * SELECT 1-2 = ■



Choose option 2 from the CHANGE PATTERN AREA menu, and push the STEP key.

2 · STEP

- INCREASE PATTERN AREA
CURRENT STITCHES = 8

CURRENT ROWS = 10

INPUT NEW STITCHES

STITCHES = ■

The display shows the current number of stitches and rows of the pattern.

Enter the new number of stitches, and push the STEP key.

- When KH900 mode is set, you can enter up to 24 stitches. When other mode is set, you can enter up to 200 stitches.
- A smaller number cannot be entered.

(ex...12 stitches)

1 • 2 • STEP

- INCREASE PATTERN AREA
CURRENT STITCHES = 8

CURRENT ROWS = 10

INPUT NEW STITCHES

STITCHES = 12

MAXIMUM ROWS: 872
INPUT NEW ROWS

ROWS = ■



The display shows the maximum number of rows available for you to use for your pattern.

(You can use up to 872 rows in this example).

Enter the new number of rows, and push the STEP key.

NOTE: A smaller number than the current one or a number bigger than the maximum cannot be entered.

(ex...20 rows)



- INCREASE PATTERN AREA
CURRENT STITCHES = 8

CURRENT ROWS = 10

INPUT NEW STITCHES

STITCHES = 12

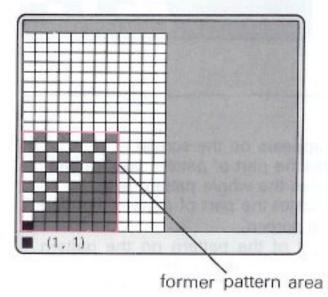
MAXIMUM ROWS: 872

ROWS = 20 OK? 1:YES 2:NO



Check the number of stitches and rows.

- When number of stitches and rows is correct, select 1.
 The screen will advance to the next step.
- If you want to change the number of stitches or rows, select 2.
 The screen will return to ③.



6

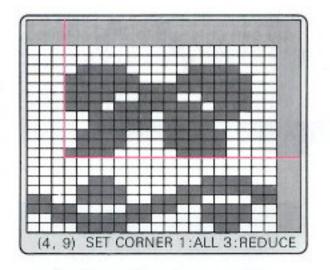
The screen returns to the pattern creating screen, and you can see that the pattern area is increased as specified.

- The pattern area spreads rightward and upward.
- When the pattern is coloured before, the part which is spread upward has the colour of the main yarn on the last row of the former pattern.

If you draw a picture on that part, the drawn square has the colour of the contrast yarn on the last row of the former pattern.

FRAMING A PART OF A PATTERN 🌢

•When you specify the part of the pattern you want to use or erase, frame the part with white square.

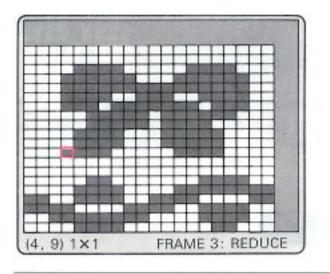




A cross line is displayed on the screen.

Move the cross line to the lower left corner of the area you want to use or erase.

If you want to check the whole pattern by reducing it, refer to the lower part of this page.

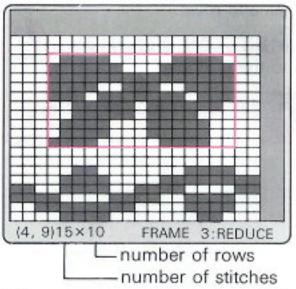




Push the STEP key.

STEP

Cross line is changed into a white square frame.



3

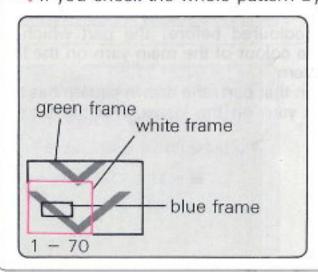
Frame the area you want to use or erase with the cursor key. (For example the square expands right-upward with the N key.)

If you want to check the whole pattern by reducing it, refer to the lower part of this page.

After framing, push the STEP key.

STEP

- These numbers show the width and length of the framed pattern.
 - If you check the whole pattern by reducing the pattern...



- Select 3. The reduced pattern appears on the screen.
 - The blue square frame indicates the part of pattern you framed.
 - The green square frame indicates the whole pattern area.
 - The white frame of square indicates the part of pattern that you can see on the pattern creating screen.
 - If you want to see another part of the pattern on the pattern creating screen, move the white frame with cursor keys.
 - If the pattern exceeds 200 rows, you can roll the screen up or down by selecting 1 or 2.
- @Push the key. The screen returns to pattern creating screen.

EDIT PATTERN (MAIN MENU 2)

- You can modify the pattern you created.
- You can use HELP MENU functions when you work with EDIT PATTERN as you do with CREATE NEW PATTERN.
 - MAIN MENU -
 - 1. CREATE NEW PATTERN
 - 2. EDIT PATTERN
 - 3. DELETE PATTERN
 - 4. INPUT MEMO DATA
 - 5. TRANSFER CREATED DATA
 - 6. PRINT OUT PATTERN
 - CHANGE MODE (PAGE)
 - * SELECT 1 7 = ■



Select option 2 from the MAIN MENU, and push the STEP key.



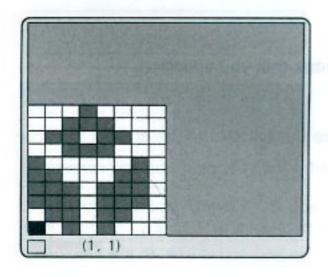
ATTERN No.	STITCHES	ROWS
▶901	8	10
902	16	28
903	15	26
904	15	20
THE RESERVE	some ran	



The list of patterns you created is displayed on the screen.

Using the cursor keys (△・☑) move the cursor "▶" to the pattern number you want to edit.

This mark shows that there are more patterns. Push 1 key to roll the screen.





Push the STEP key.

STEP

The pattern you chose appears on the screen.

- Edit the pattern using the same procedure as "CREATE NEW PATTERN" (Refer to ⑦—® page 13—14).
- When you load the pattern you coloured with option "SET COLOUR" or "CHANGE COLOUR", the pattern on the screen has no colour on it, but memo data remains in the memory as it is.

DELETE PATTERN (MAIN MENU 3)

You can delete an unnecessary created pattern or all created patterns (saved on the page you are now using).

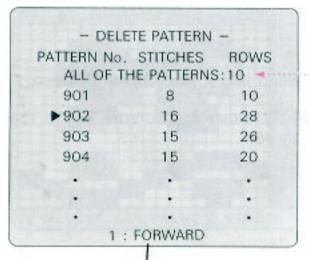
- MAIN MENU -
- 1. CREATE NEW PATTERN
- EDIT PATTERN
- DELETE PATTERN
- 4. INPUT MEMO DATA
- 5. TRANSFER CREATED DATA
- PRINT OUT PATTERN CHANGE MODE (PAGE)

 - * SELECT 1-7 = ■



Select option 3 from the MAIN MENU, and push the STEP key.





This mark shows that there are more patterns. Push 1 key to roll the screen.



The list of patterns you created is displayed on the screen.

Using the cursor keys (△-), move the cursor ">" to the pattern number where you want to delete.

When you want to delete all the created patterns (saved on the page you are now using), move the cursor "▶" to the item "ALL OF THE PATTERNS".

The number of all the pattern (saved on the page that you are now using).

Push the STEP key.

STEP

DELETE PATTERN —

PATTERN No. = 902

OK? 1:YES 2:NO 3:REDUCE

Confirm the pattern number that you specified.

If you want to see the pattern on the screen...

Select 3. The reduced pattern appears on the screen. Check the pattern.

If the pattern exceeds 200 rows, you can roll the screen up or down by selecting 1 or 2.

②Push the STEP key. The screen returns to the previous screen.

 When the pattern number is correct, select 1. The pattern that you chose is deleted and the MAIN MENU will appear on the screen.

 When you want to change the pattern number, select 2. The screen returns to 2.

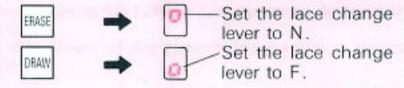
INPUT MEMO DATA (MAIN MENU 4)

- You can enter memos with information for pattern knitting, and they will be shown in the knitting machine display while you knit.
- You can also easily enter, delete and modify the memo data.
- Use the numeral keys 1−9 and the DRAW and ERASE keys to enter the information.

⟨INDICATION IN THE DISPLAY⟩
When you enter pattern knitting information using keys 1-9:



When you enter pattern knitting information using the DRAW and ERASE keys, you can use it to show which lace change lever setting to use, etc.

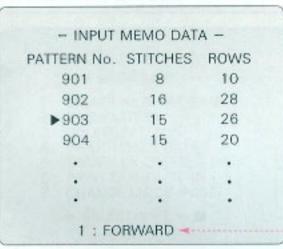


- MAIN MENU -
- CREATE NEW PATTERN
- EDIT PATTERN
- 3. DELETE PATTERN
- 4. INPUT MEMO DATA
- TRANSFER CREATED DATA
- 6. PRINT OUT PATTERN
- CHANGE MODE (PAGE)
 - * SELECT 1 7 = ■



Select option 4 from MAIN MENU, and push the STEP key.



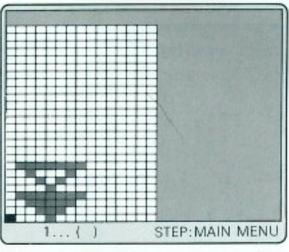


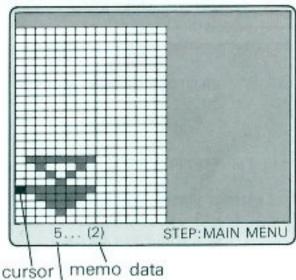
2

The list of patterns you created is displayed on the screen.

Using the cursor keys (△•☑), move the cursor "▶" to the pattern number where you want to input the memo data.

This mark shows that there are more patterns. Push 1 key to roll the screen.





row number

3

Push the STEP key, and the pattern that you specified will appear on the screen.

STEP

4

Move the cursor to the row where you want to input the memo data, and input the memo data with the numeral keys, DRAW key or ERASE key.

(ex. Input 2 on 5th row.)

- Move the cursor to the 5th row.
 - It does not matter if the cusor is on any stitch.

@Enter 2.

- If you make a mistake, push the correct key to rewrite the data.
- If you clear the memo data, push the C key.
- Continue to input as much memo data as you want.
- When you finish inputting memo data, push the STEP key. The MAIN MENU appears on the screen.

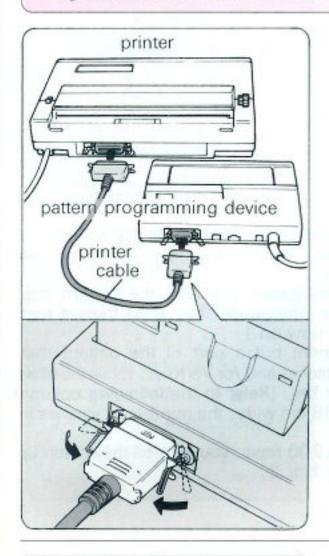
TRANSFER CREATED DATA (MAIN MENU 5)

Select this option when you use the external memory (optional).

See the instruction manual of the external memory for detail about the operation.

PRINT OUT PATTERN (MAIN MENU 6)

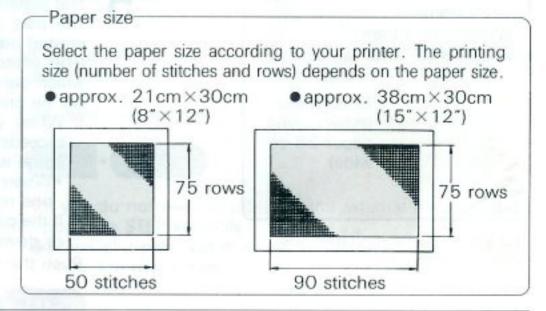
- You can print out the pattern with the optional printer.
 - \$It is recommended to use a Brother 9-pin or 24-pin dot matrix printer.

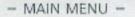


Preparations for the printer

Please read the instruction book accompanying the printer before you use it.

- Turn off the power of the pattern programming device and the printer.
- Connect the printer to the pattern programming device with the printer cable.
- Switch on the power of the pattern programming device and the printer.





- 1. CREATE NEW PATTERN
- 2. EDIT PATTERN
- DELETE PATTERN
 INPUT MEMO DATA
- 5. TRANSFER CREATED DATA
- 6. PRINT OUT PATTERN
- 7. CHANGE MODE (PAGE)
 - * SELECT 1-7 = ■



Select option 6 from the MAIN MENU, and push the STEP key.



PATTERN No.	STITCHES	ROWS
901	8	10
902	16	28
▶903	15	26
904	15	20

2 The list of patterns that you created is displayed on the screen.

Using the cursor keys (▶) move the cursor * ▶ " to the pattern number which you want to print out.

Push the STEP key.

STEP

- PRINT OUT PATTERN -

PRINTER TYPE?

- 1. 9-PIN DOT MATRIX PRINTER
- 2. 24-PIN DOT MATRIX PRINTER
 - * SELECT 1 2 = ■

3

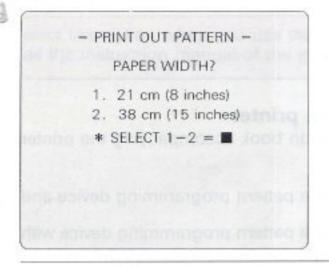
Select the printer type.

(ex...9-pin dot matrix printer)



When KH900 mode is set, skip step

and advance to step

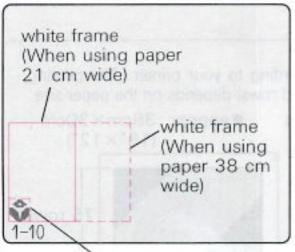




Select the width of the paper

(ex.21cm)





The green frame indicates the whole pattern area.



The pattern that you specified is displayed on the screen. The part of a white frame displayed on the screen will be printed out from now on.

(The white frame on the screen indicates the pattern size which can be printed on one paper. The white-framed part

will be printed out from now on.)

When you want to print out a part of the pattern that exceeds 50 (or *90) stitches and /or 75 rows, move the white frame with the cursor key. (Refer to the following column). *When using paper 38 cm wide, the number of stitches in

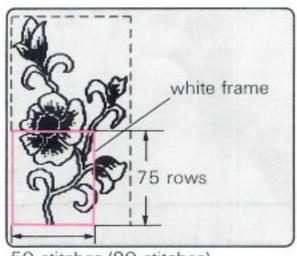
one row is 90. If the pattern exceeds 200 rows, you can roll the screen up

or down by selecting 1 or 2.

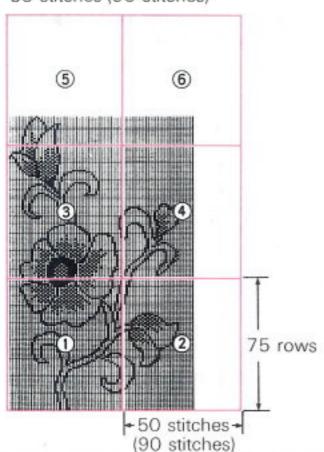
Push the STEP key.

STEP

♥WHEN YOU WANT TO PRINT OUT A PATTERN THAT EXCEEDS 50 (or 90) STITCHES AND/OR 75 ROWS



50 stitches (90 stitches)



- When the pattern exceeds 50 (or 90) stitches and/or 75 rows, the pattern is divided into a few parts and printed out in the order shown in the figure.
- If you do not want to print out part ①, move the white frame with the cursor key to the part you want to print.
 - For example, if you move the white frame to ③, the pattern will be printed out in the order of 3 · 4 · 5 · 6.

- PRINT OUT PATTERN
* INDEX *

EXTERNAL MEMORY No. = |

IF YOU DO NOT NEED EXTERNAL MEMORY No., PUSH STEP KEY.

When you print out the pattern stored in the external memory, enter the external memory number as a reference, and the external memory number will also be printed out.

(ex. external memory number...1)



If you do not need to print out the external memory number, push the STEP key only.

-PRINT OUT PATTERN
* INDEX *

EXTERNAL MEMORY No. = 1

EXTERNAL PAGE No. = ■

IF YOU DO NOT NEED EXTERNAL

PAGE No., PUSH STEP KEY.

If you enter the external page number as a reference, the external page number will also be printed out.

(ex. external page number...1)



If you do not need to print out the external page number, push the STEP key only.

When you print out the pattern stored in the cartridge, page number is automatically printed out.

-PRINT OUT PATTERN-

PRINTER READY?
PUSH STEP KEYII

8 Insert a paper into the printer and turn on the printer online lamp. Push the STEP key.

STEP

-PRINT OUT PATTERN -

PRINTING WAITH

Printing out begins.

In the case where the pattern exceeds 50 (90) stitches and/ or 75 rows, the screen returns to ® when the printer finishes printing out one paper, then repeat step ®.

10 When the MAIN MENU appears on the screen, printing will soon be finished.

CHANGE MODE (PAGE) (MAIN MENU 7)

MODE

- CHANGE MODE -
- 1. MODE 1 (KH-940, 950i, 270)
- 2. MODE 2 (KH-930)
- MODE 3 (KH-930M)
- 4. MODE 4 (KH-900)
 - * SELECT 1-4 = ■

The pattern programming device has several modes. The difference between them is the amount of knitting data that can be transferred at one time between the pattern programming device and the electronic knitting machine. You need to select the mode according to your electronic knitting machine. There are some types of electronic knitting machine which have different memory capacities for created patterns. The amount of data transferred at one time should correspond to the memory capacity of the knitting machine.

Unless you select the proper mode, you cannot transfer the pattern data created with pattern programming device to the knitting machine. In that case you cannot knit the pattern which took great effort to design. Therefore it is very important to select the proper mode before designing the pattern. (HOW TO SELECT THE MODE...see page 52.)

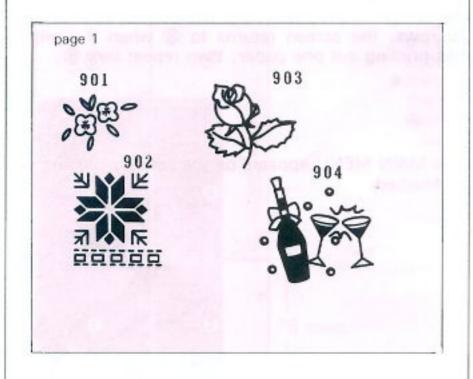
PAGE

The memory capacity of the pattern programming device is as big as the capacity of the knitting machine with the biggest memory capacity. When you use a knitting machine with smaller memory, the memory capacity is divided into several parts by selecting the proper mode. Each part is called one page. The amount of one-page memory capacity is as same as the knitting machine memory capacity.

MODE 1

When using a knitting machine with bigger memory capacity, select MODE 1. In this case the memory of the pattern programming device has only one page.

Think of it as designing on a big piece of drawing paper.

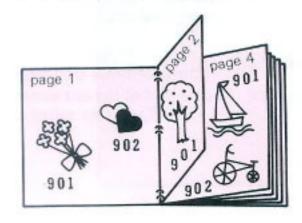


MODE 2/3/4

When using a knitting machine with smaller memory capacity, select MODE 2, 3, or 4. Pattern programming device memory is divided into following pages according to the mode:

MODE 2...16 pages MODE 3...4 pages MODE 4...8 pages

Think of it as designing in a drawing notebook with 16 (4, 8)pages.



When you use all the space on one page, use a new page.

(HOW TO CHANGE THE PAGE...See page 53.)



 Select the mode according to your knitting machine. Once you set the mode, you do not have to reset it until you use the different knitting machine.

NOTE: Once you use this option, all the created patterns in the pattern programming device will be deleted.

-MAIN MENU-

- CREATE NEW PATTERN
- EDIT PATTERN
- DELETE PATTERN
- 4. INPUT MEMO DATA
- 5. TRANSFER CREATED DATA
- 6. PRINT OUT PATTERN
- CHANGE MODE (PAGE)
 - * SELECT 1-7 = ■

MODE = 1 PAGE = 1

The screen indicates the mode number and page number you are now using.



Select option 7 from the MAIN MENU, and push the STEP key.



If MODE 1 is set now, proceed to step ③.

- CHANGE MODE (PAGE) -
 - CHANGE MODE
 - CHANGE PAGE
 - 3. DELETE PAGE
- * SELECT 1 3 = ■



Choose option 1 from the CHANGE MODE (PAGE) menu, and push the STEP key.



- CHANGE MODE -

- 1. MODE 1 (KH-940, 950i, 270)
- 2. MODE 2 (KH-930)
- MODE 3 (KH-930M)
- 4. MODE 4 (KM-900)
 - * SELECT 1 4 = ■



Select the mode according to your knitting machine, and push the STEP key.

(ex. Choose MODE 2)

STEP

- CHANGE MODE -

- 1. MODE 1 (KH-940, 950i, 270)
- MODE 2 (KH-930M)
 MODE 3 (KH-930M)
- 4. MODE 4 (KH-900)
 - * SELECT 1 4 = 2

SELECTED MODE = 2 ALL DATA IS DELETED. OK? 1:YES 2:NO



Check that you selected the proper mode.

- When the mode you selected is correct, select 1. (If created) patterns are saved in the pattern programming device, they will be deleted.)
 - Mode setting is completed and the MAIN MENU appears on the screen.
- When you want to change the mode, select 2. The screen returns to 3.
- When you want to stop using this option, push the HELP key until the MAIN MENU appears on the screen.



CHANGE PAGE



You can use this option when setting MODE 2, 3, or 4.

You can select the page.

The pattern programming device memory is divided into following pages according to the mode: MODE 4... 8 pages MODE 2... 16 pages MODE 3... 4 pages

You can select any of them.

- MAIN MENU -
- CREATE NEW PATTERN
- 2. EDIT PATTERN
- DELETE PATTERN
- INPUT MEMO DATA
- TRANSFER CREATED DATA
- 6. PRINT OUT PATTERN
- CHANGE MODE (PAGE)
 - * SELECT 1-7 = ■

MODE = 2 PAGE = 1



Choose option 7 from the MAIN MENU, and push the STEP key.

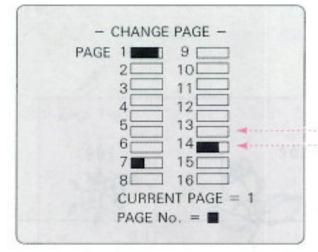


- CHANGE MODE (PAGE) -
 - 1. CHANGE MODE
 - 2. CHANGE PAGE
 - DELETE PAGE
 - SELECT 1 3 = ■



Choose option 2 from the CHANGE MODE (PAGE) menu, and push the STEP key.





The screen shows how much of each page is used.

If the inside of the white frame is empty, the page is empty.

The white part in the frame shows how much of this page is used.

Enter the page number you want to use, and push the STEP key. (ex. page number...2)

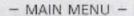


The page number is changed, and the MAIN MENU appears on the screen.



You can use this option when setting MODE 2, 3, or 4.

All the patterns the specified page can be deleted at one time.



- CREATE NEW PATTERN
- EDIT PATTERN
- **DELETE PATTERN**
- INPUT MEMO DATA
- TRANSFER CREATED DATA
- 6. PRINT OUT PATTERN
- CHANGE MODE (PAGE)
 - * SELECT 1 7 = ■



Choose option 7 from the MAIN MENU, and push the STEP key.



STEP

CHANGE MODE (PAGE) -

- CHANGE MODE
- CHANGE PAGE
- DELETE PAGE
- * SELECT 1 3 = ■



Choose option 3 from the CHANGE MODE (PAGE) menu, and push the STEP key.



STEP

- DELETE PAGE -

PAGE No. =



Enter the page number of the patterns you want to delete, and push the STEP key.

(ex. page number...3)



STEP

- DELETE PAGE -

PAGE No. = 3

OK? 1:YES 2:NO



Check that the specified page number is correct.

- When the page number is correct, push 1 key. All the patterns in the page will be deleted, and the MAIN MENU will appear on the screen.
- When you want to change the page number, push 2 key. The screen returns to step 3.

IN THE FOLLOWING CASES

If the following message appears on the screen...

*** WARNING 1 ***

MEMORY IS COMPLETELY FULL!

DELETE SOME PATTERNS.

PUSH STEP KEY!!

*** ERROR MESSAGE 1 ***

PATTERN DATA IS DAMAGED.

PUSH STEP KEY!!

Cause

The memory of the page you are now using is full.

Suggested action

When using MODE 1...
 Push the STEP key and the MAIN MENU appears.
 After deleting unnecessary patterns using "DELETE PATTERN", create your pattern.
 If all your patterns are necessary, purchase a new cartridge and save the patterns into it (see page 4).

When using MODE 2, 3, or 4...
 Push the STEP key and the MAIN MENU appears.
 Using option "CHANGE PAGE", choose a page which has blank space.

If all the pages are full, delete an unnecessary page using option "DELETE PAGE", and use that page for your new pattern.

Or purchase a new cartridge and save a page onto it as you do in MODE 1.

Cause

Pattern data is damaged for some reason, for example, the battery to keep the pattern data is used up.

Suggested action

You can create the pattern after deleting the damaged pattern data, but if the battery energy has been used up, the pattern programming device cannot save the pattern.

Make cure that the battery energy has been used up following.

Make sure that the battery energy has been used up following the steps below.

- 1 Push the STEP key (Damaged pattern data will be deleted).
- ② The screen of "SELECT MODE" appears, Select the mode according to your knitting machine (see steps ①-③ on page 1).
- On Push the step key twice. The MAIN MENU appears.
- Choose option 1 "CREATE NEW PATTERN" from the MAIN MENU and enter the pattern area you want. (ex. 10 stitches × 10 rows)
- When the pattern creating screen appears, push the HELP key.
- © Choose option 1 "END CREATION" from the HELP MENU, and turn off the power switch of the pattern programming device.
- Wait for a few minutes and turn on the power again.
 - If the screen appears as shown in step ⑤—B on page 8, the battery is all right. Continue pattern creation.
 - If the same error message appears, the battery has been used up.
 - Ask the dealer to change the battery.
 - If another error message appears, see the instructions about that message.

*** ERROR MESSAGE 2 ***

THERE IS SOME DEFECT
IN THE CARTRIDGE/MAIN BODY.
IT MUST BE REPAIRED

PUSH STEP KEYII

Suggested action

The pattern cartridge or the pattern programming device itself has some defects. Ask the dealer to check them.

If the maximum row is indicated as 0 when specifying the pattern area for option "CREATE NEW PATTERN"...

- STITCH-ROW SET UP
PATTERN No. 908
HOW MANY STITCHES
STITCHES = 80

MAXIMUM ROWS: 0 HOW MANY ROWS
ROWS = ■

Cause

There is not enough memory for the entered number of stitches.

Suggested action

- Enter a smaller number of stitches than you entered before.
 - 1 Push the HELP kev.
 - Enter a new number and push the STEP key.
- Delete the unnecessary patterns or change the page number if you are using MODE 2, 3, or 4.
 - Push the HELP key two times. The MAIN MENU appears on the screen.
 - Pollow the suggested action for the message "MEMORY IS COMPLETELY FULL!" on page 55.

If the pattern on the screen is disturbed or indicates that something is wrong, or any key does not function...

Cause

The pattern data in the pattern programming device is damaged. (It may happen if you insert or pull out the cartridge while the power switch of the pattern programming device is on, or if you touch the connectors.)

Suggested action

Delete the damaged pattern data.

- Turn off the power switch of the pattern programming device, then switch on the power.
- Select option 7 from the MAIN MENU. Reset the mode referring to p. 52 (all the pattern data in the pattern programming device will be deleted).
- Start all over again.
 - If more than 10 years have passed since you purchased the pattern programming device, the battery may be used up.

Please ask your dealer for advice.

If the message "WAIT..." does not change more than 3 minutes...

Suggested action

Turn off the power switch of the pattern programming device and then turn it on again.

- If the screen appears as shown in step ⑤—B on page 8...
 Start the operation all over again.
- If an error message appears...
 See the instruction about that message.
- If this happens time and time again, the cartridge or the main body may have some defects. Ask the dealer to check them.

When the printer does not work

Cause 1

No paper is inserted into the printer, or online lamp of the printer is not turned on.

Suggested action

- Insert paper into the printer.
- Turn on the online lamp of the printer.

Cause 2

Power switch of the printer is not turned on or the printer is not connected to the pattern programming device.

Suggested action

- Turn off the power switch of the pattern programming device and the printer.
- ② Check that the pattern programming device and the printer are connected correctly.
- Switch on the power of the pattern programming device and the printer.
- Turn on the online lamp of the printer.

If the pattern is not printed out normally

Cause

The DIP switch of the printer is not set correctly.

Suggested action

Refering to the instruction manual of your printer, set the DIP switch "Control Mode" or "Emulation Mode" to Epson FX Compatible.

TRANSFER CREATED DATA FROM/TO KNITTING MACHINE

Transferring the data to the knitting machine (LOADING)

In order to knit the pattern created with the pattern programming device you must transfer the pattern data in the device to the knitting machine.

REMARK: When transferring the pattern data to the knitting machine, all the pattern data in the memory of the knitting machine will be deleted.

Transferring the data from the knitting machine (SAVING)

You can transfer all the pattern data in the knitting machine to the pattern programming device.

REMARK: When setting MODE 1)

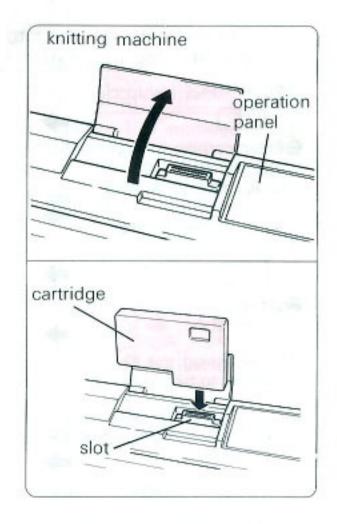
When transferring the pattern data to the pattern programming device, all the pattern data in the memory of the device will be deleted.

When setting MODE 2/3/4)

All the pattern data in the knitting machine is transferred to an empty page of the pattern programming device. If there is no empty page, delete an unnecessary page with option "DELETE PAGE" before transferring the data.

When using the KH900/270

- Switch off the power of the pattern programming device and TV set. Take out the cartridge from the main body.
- 2 Switch off the power of the knitting machine.
- 3 Open the lid of the cartridge slot to the left of the operation panel. Insert the cartridge into the slot.
- Operate the knitting machine and transfer the data to/from the cartridge. Follow the steps ③—④ of "SAVING AND LOADING" of the knitting machine instruction manual.



When using the KH-940/930/930M

1 Switch off the power of the pattern programming device and TV set.

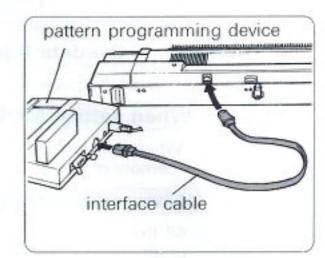
2 Disconnect the pattern programming device from the TV set.

Switch off the power of the knitting machine. Connect the FB connector of the knitting machine to the KH/ACC connector of the pattern programming device with the interface cable. Connect the pattern programming device to the main supply using the A. C. Adaptor.

Switch on the power of the pattern programming device and the knitting machine (check that the ready lamp is lit).

Operating the necessary procedure on the panel of the knitting machine transfers the created pattern.

Do not operate the pattern programming device.



If the knitting machine does not work normally while transferring the data, turn off the power switch of the knitting machine and pattern programming device, and start from the beginning.

Transferring the data to the knitting machine Push the CE key to clear the display. Enter command number 551. This number tells the computer you want to transfer a pattern to your knitting machine. OPUSH the STEP key. STEP When using the KH-940, enter page number 1. When using the KH930/930M, enter the page number to be transferred into the knitting machine. @Push the STEP key, and the indication in the display and all the lamps go out. STEP Data transfer begins. (It may take 20 — 30 seconds.) When the pattern has been transferred, you will hear the buzzer, and the indication and lamps are set. After pattern program, you can knit the pattern transferred to the knitting machine. (Pattern program: refer to the electronic knitting machine manual.)

Transferring the data from the knitting machine
CE °
②Enter command number 552. This number tells the computer you want to transfer a pattern from your knitting machine.
5 5 2 → ° 552 ° °
Push the STEP key. When using the KH-940, number 1 is indicated on the display and ready lamp and pattern number lamp are lit.
STEP • C
When using the KH-930/930M, the page number where data will be transferred is indicated.
Push the STEP key, and the display and all the lamps go out.
Data transfer begins. (It may take 20-30 seconds.)
(5) When the pattern has been transferred, you will hear the buzzer, and all the indication and lamps

are as they were before you pushed the CE key.

When the pattern has been transferred, you will hear the

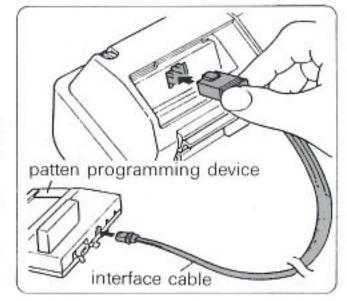
option "EDIT PATTERN" (See page 44).

pattern programming device on the TV screen, work the

NOTE: While the knitting machine is connected with pattern programming device, do not enter the command number 550 and 553.

When using the KH-950i

- Switch off the power of the pattern programming device and TV set.
- Disconnect the pattern programming device from the TV set.
- Switch off the power of the knitting machine. Connect the FB connector of the knitting machine to the KH/ACC connector of the pattern programming device with the interface cable.
- Switch on the power of the pattern programming device and the knitting machine (check that the ready lamp is lit).
- Operating the necessary procedure on the panel of the knitting machine transfers the created pattern. Do not operate the pattern programming device.



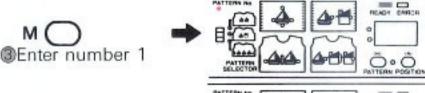
If the knitting machine does not work normally while transferring the data, turn off the power switch of the knitting machine and pattern programming device, and start from the beginning.

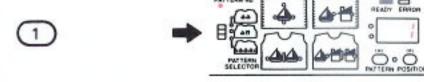
Transferring the data to the knitting machine

Enter command number 551. This number tells the computer you want to transfer a pattern to your knitting machine

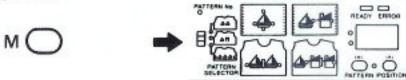


Push the M key.





@Push the M key, and the display and all the lamps go out.



Data transfer begins.

- buzzer, and the indication and lamps are set.
- @Turn the power switches off and disconnect the Interface cable.
- After the pattern program, you can knit the pattern transferred to the knitting machine.

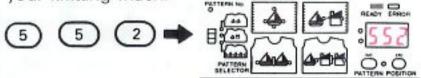
NOTE:

- When you program a pattern created with the pattern programming device, program it as you do "Stitch World" patterns.
- When you program a pattern which is created on a mylar sheet and then modified with pattern programming device...
 - If the pattern has memo data stored by "SET COLOUR", "CHANGE COLOUR", or "INPUT MEMO DATA", work with it as you do "Stitch World " patterns.
 - · If the pattern has no memo data, work with it as you do mylar sheet patterns.

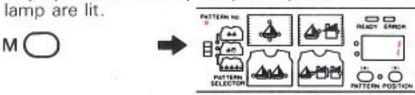
(Pattern program: see the electronic knitting machine manual.)

Transferring the data from the knitting machine

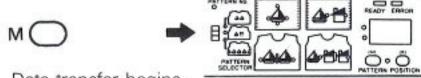
①Enter command number 552. This number tells the computer you want to transfer a pattern from your knitting machi



Push the M key. Number 1 is indicated on the display, and the ready lamp and pattern number



@Push the M key, and the indication in the display and all the lamps go out.



Data transfer begins.

- When the pattern has been transferred, you will hear the buzzer, and all the indication and lamps are as they are before you entered command number 552.
- When you want to see the pattern transferred to the pattern programming device on the TV screen, work the option "EDIT PATTERN" (See page 44).

NOTE: While the knitting machine is connected with pattern programming device, do not enter command numbers 550 or 553.

DIAGRAM OF CHARACTERS

