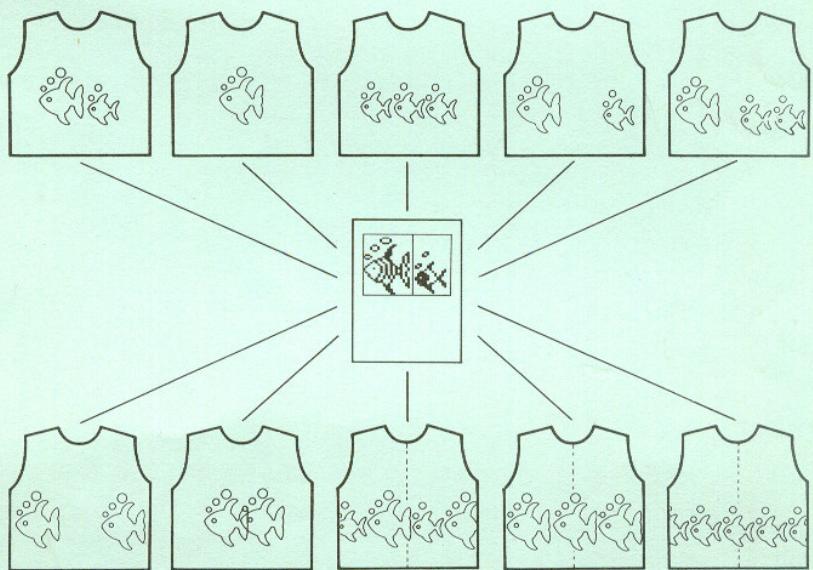


Electroknit

KH-910



Useful hints for KH-910

brother®

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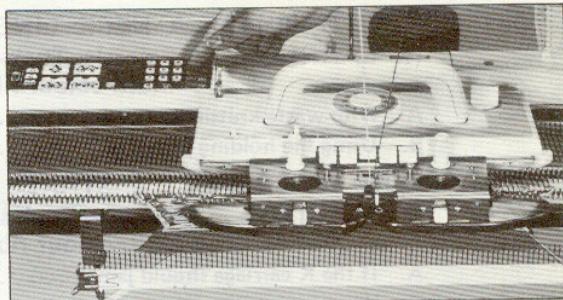
HOW TO SHAPE A NECK LINE IN PATTERN KNITTING (K CARRIAGE..... Fair-isle, Tuck-stitch, Plating-tuck stitch and multicolour rib pattern)

A. With waste knitting

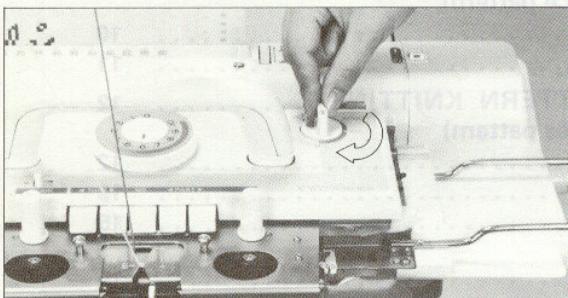
- Push "CR" key before changing the direction of the K carriage. (Error lamp goes on and off.)

* < REMARKS > *

If you changed the direction of K carriage before pushing "CR" key, enter "1" instead of "0" and push "CR" key at item 6.



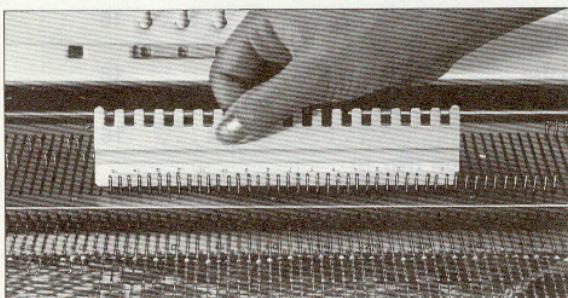
- Knit the second side of the shoulder with waste yarn.



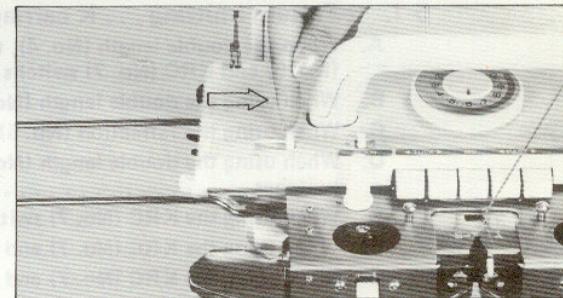
- Set the change knob to the "N.L". Bring back all the selected needles to position B.



- Push both "PART" buttons and move the K carriage to the opposite side of the machine without yarn in the yarn feeder. (When using the knit-leader and/or the row counter, set the row counter tripper to the non-working position.)

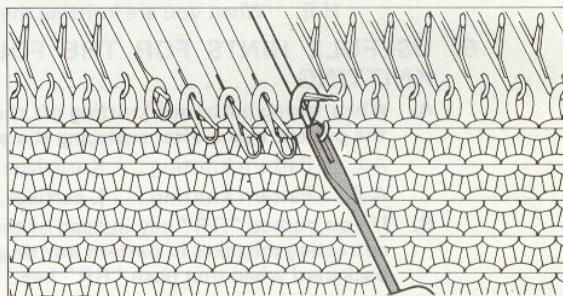


- Bring forward all the needles for the first side of the shoulder to position E.



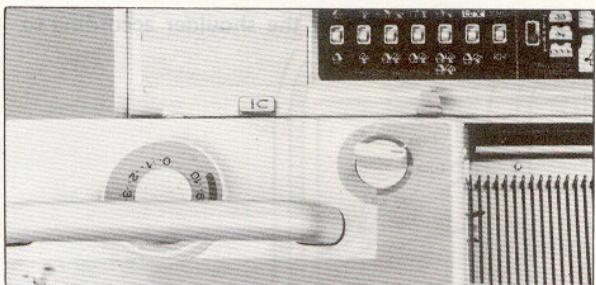
- Knit the second side of the shoulder in plain knitting with waste yarn.

- After knitting several rows, take them off the machine.

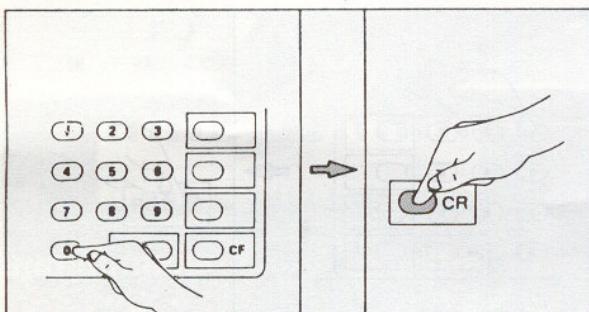


- Using the transfer tool, place the stitches for the first side of the shoulder onto the hooks of the needles and return them to position B.

4. Place the K carriage at the outside of "I C" or "I" mark.



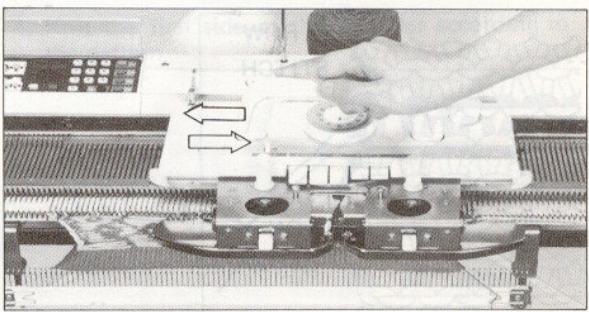
5. Set the change knob to "KC (I)" or KC (II)" and push both "PART" buttons.



6. Enter "O" and push "CR" key.

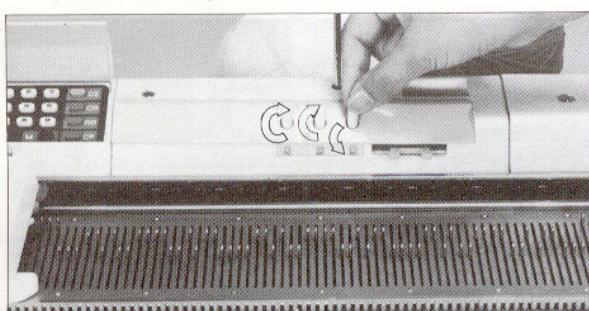
* <REMARKS> *

If you changed the direction of K carriage before pushing "CR" key, enter "1" instead of "0" and push "CR" key.

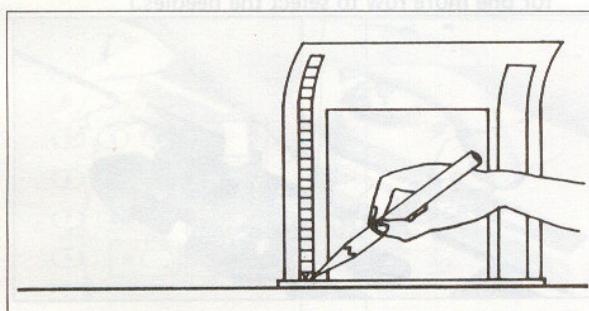


7. Move the K carriage from the outside of "I" or "I" mark until the needles are selected.
(When the K carriage is on the opposite side of the yarn, needles will be selected after one row, and when the K carriage is at the side of the yarn, needles will be selected after two rows.)

In the latter case, if you are setting the change knob at "KC (I)", push back both end needles to position B by hand after the first row, then move the K carriage for one more row to select the needles.



8. Change the figure of the row counter to "0" and set the row counter tripper to working position.

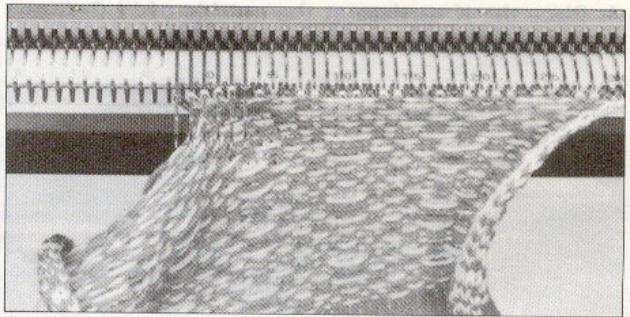


9. Put a reference mark in the L window at the card inlet.

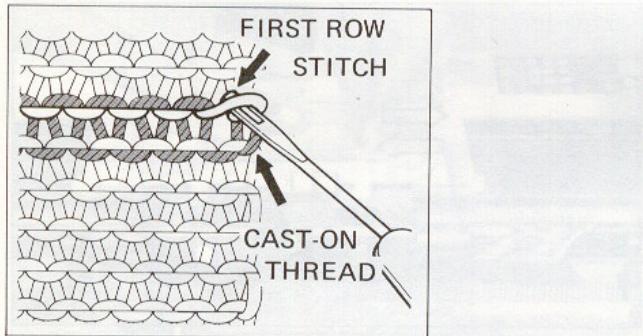


10. Push the cam button(s) according to the pattern knitting and thread the knitting yarn into the yarn feeder.

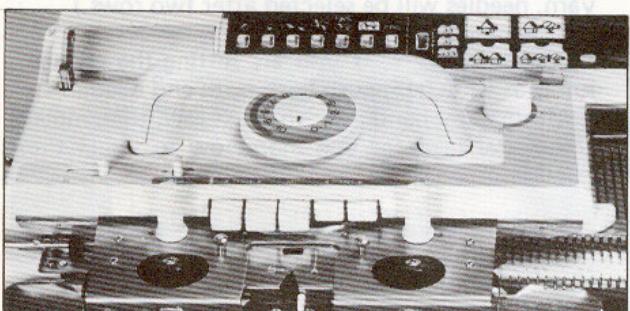
11. Knit the first side of the shoulder according to the pattern.



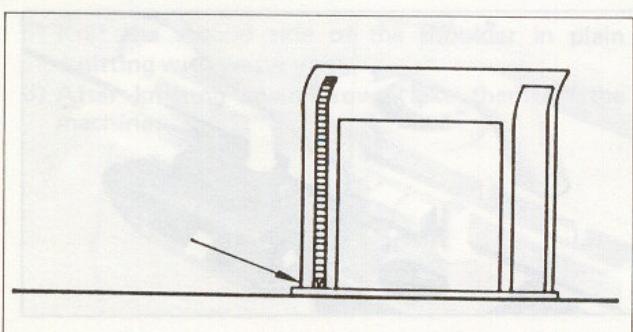
12. After knitting the first side of the shoulder, place the K carriage on the side toward which the K carriage was moved. (Leave the setting of the K carriage as it is.)



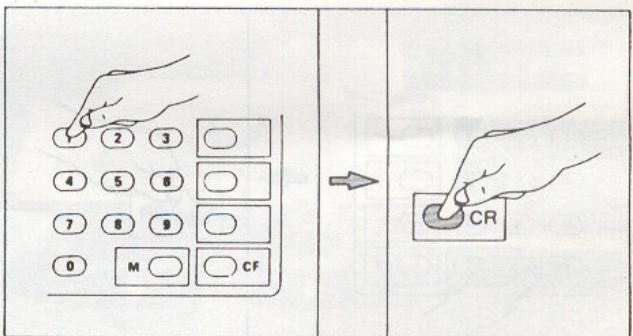
13. Pick up the stitches for the second side of the shoulder and hook them onto the needles. After picking up the stitches, bring back all the needles to position B.



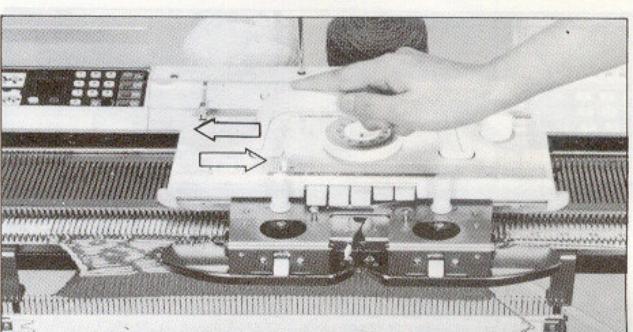
15. Push both "PART" buttons. (Make sure that the change knob is set on position "KC (I)" or "KC (II)".



17. Make sure that the reference mark in the L window is returned to the card inlet.



14. Enter the figure which shows on the row counter and push "CR" key.

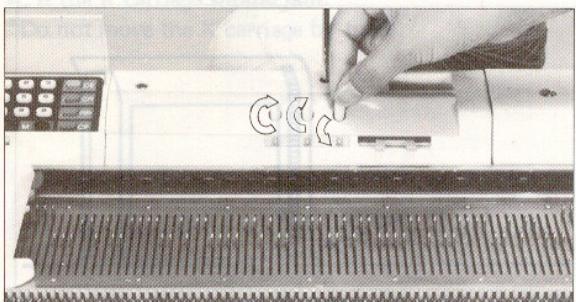


16. Move the K carriage from the outside of "I < " or "I" mark until the needles are selected. (If you are setting the change knob at "KC (I)", push back both end needles to position B by hand after the first row, then move the K carriage for one more row to select the needles.)

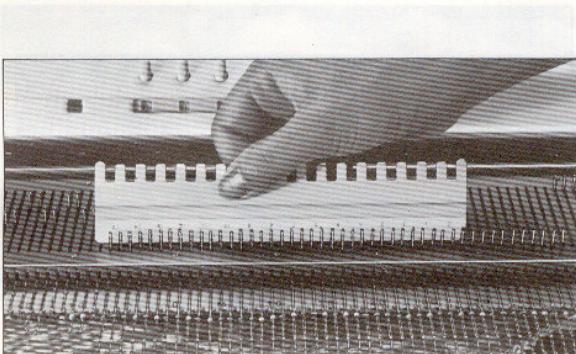


18. Push the cam button(s) according to the pattern knitting and thread the knitting yarn into the yarn feeder. Knit the second side of the shoulder according to the pattern.

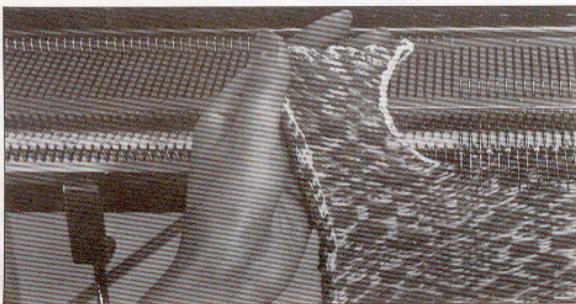
B. Using the holding cam lever



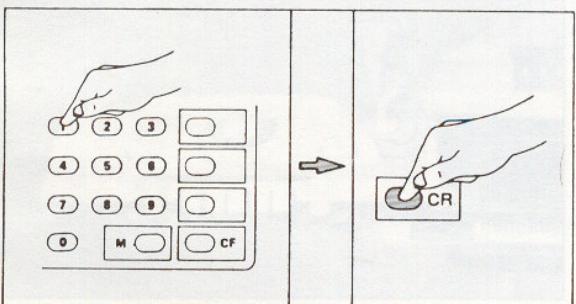
1. Change the figure of the row counter to "0" and set the row counter tripper to working position.



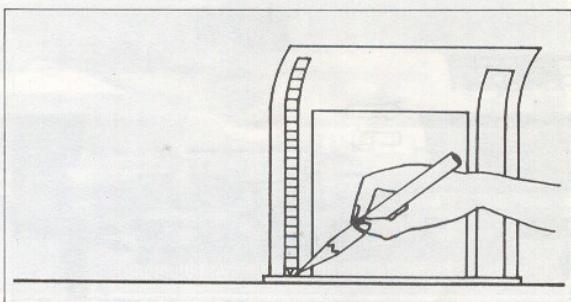
3. Set the holding cam lever to position H and bring forward all the needles on the opposite side of the K carriage including the stitches for the center neck line and opposite shoulder to position E. (These needles will not knit.)



5. After knitting the first side of the shoulder, place the K carriage on the side toward which the K carriage was moved. (Leave the setting of the K carriage as it is.)

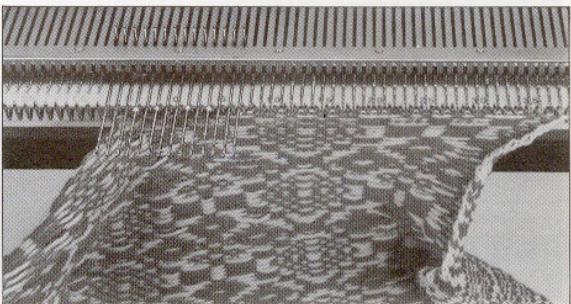


7. Enter the figure which shows in the row counter and push the "CR" key.



2. Put the reference mark in the L window at the card inlet.

4. Knit the first side of the shoulder according to the pattern.

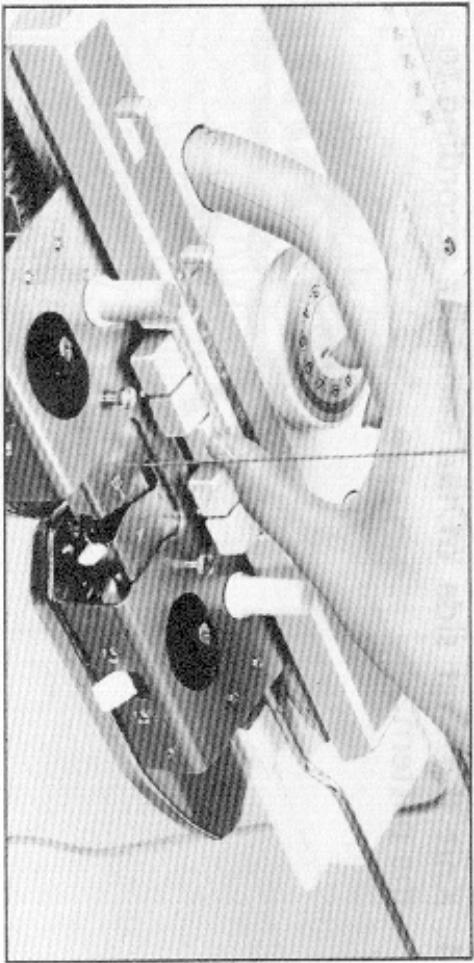


6. Leave the stitches for the center neck line in position E, place the stitches for the second side of the shoulder onto the hooks of the needles and return to position B.

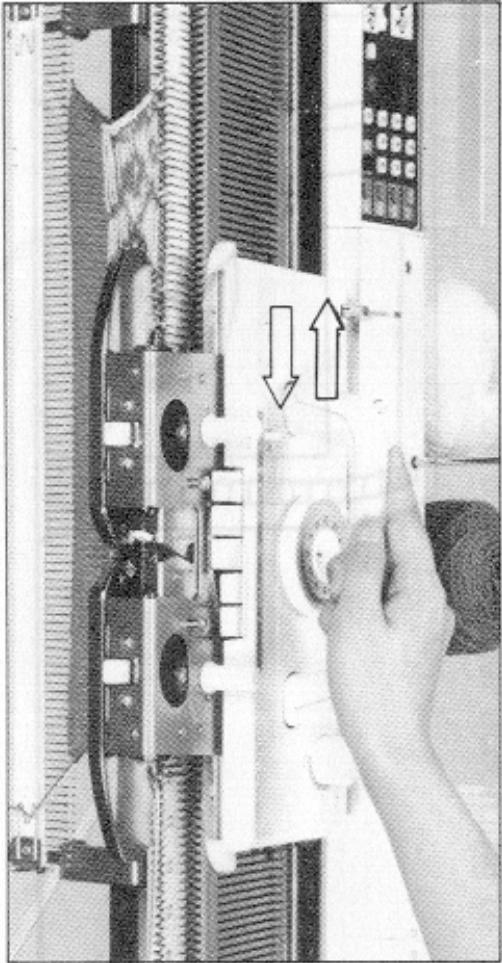


8. Push both "PART" buttons. (Make sure that the change knob is set on the position "KC (I)" or "KC (II)".

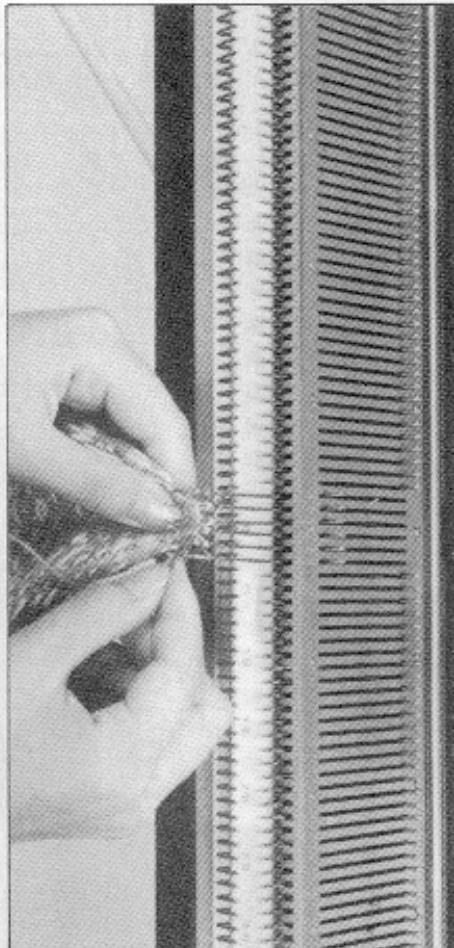
- Push the cam button(s) according to the pattern knitting and thread the knitting yarn into the yarn feeder. Knit the second side of the shoulder according to the pattern.



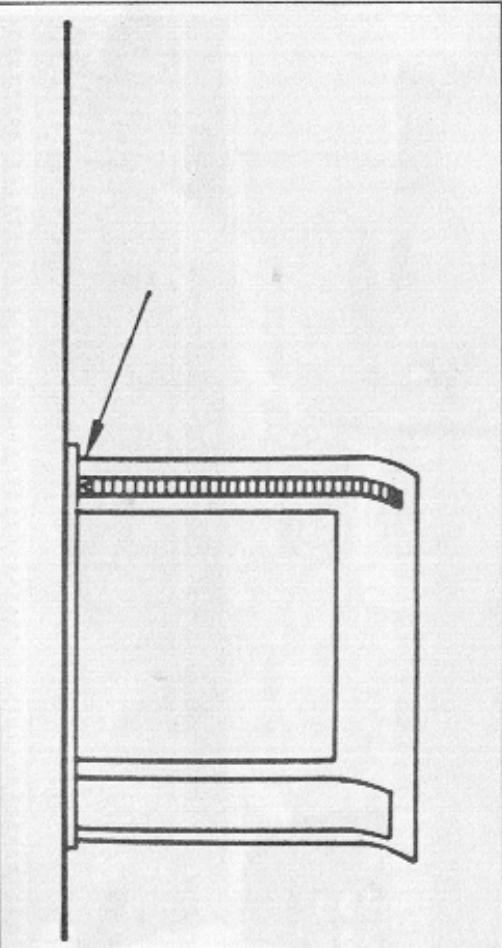
- Move the K carriage from the outside of "I C" or "I" mark until the needles are selected.
(If you are setting the change knob at "KC (I)", push back both end needles to position B by hand after first row, then move the K carriage for one more row to select the needles.)



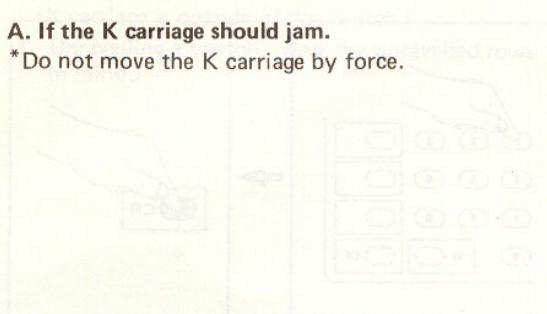
- When both sides of the shoulders are completed. Place the stitches for center neck line onto the hooks of needles and bind them off.



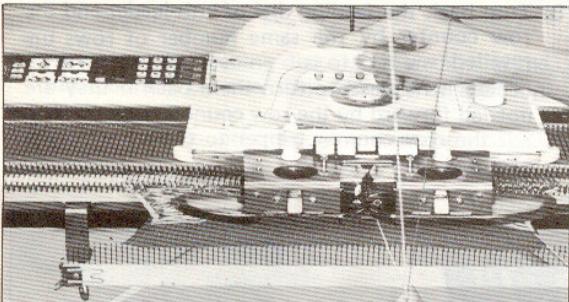
- Make sure that the reference mark in the L window is returned to the card inlet.



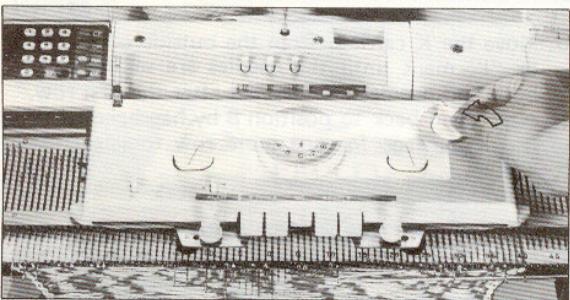
HOW TO CORRECT MISTAKES IN PATTERN KNITTING (K CARRIAGE..... Fair-isle, Tuck-stitch, Skip-stitch, Plating-tuck stitch and Multi-colour rib pattern.)



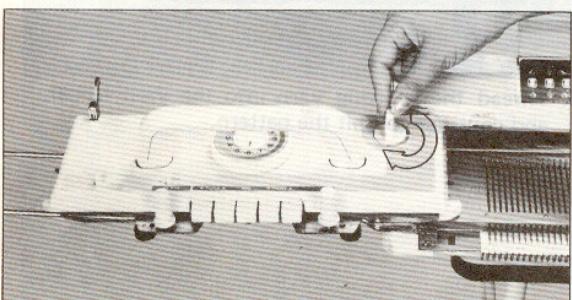
1. Push "CR" key. (Error lamp goes on and off.)



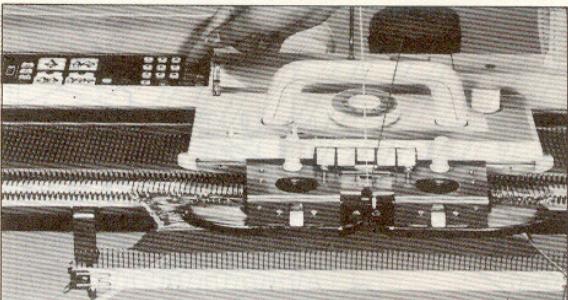
2. Take the yarn out of the yarn feeder. (When knitting fair-isle, weaving or plating-tuck stitch pattern, also take the second yarn out of the yarn feeder.)



3. Set the change knob to the "CR" to release the K carriage from the machine.



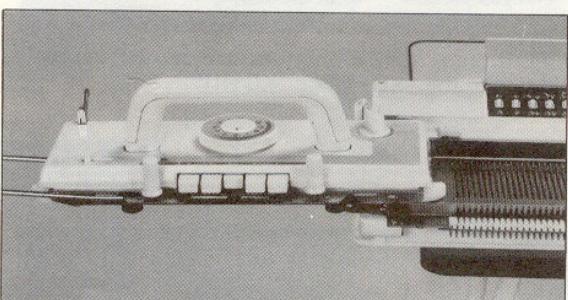
4. Set the change knob to the "N.L".
(The cam button(s) will be restored automatically.)



1. Push "CR" key. (Error lamp goes on and off.)



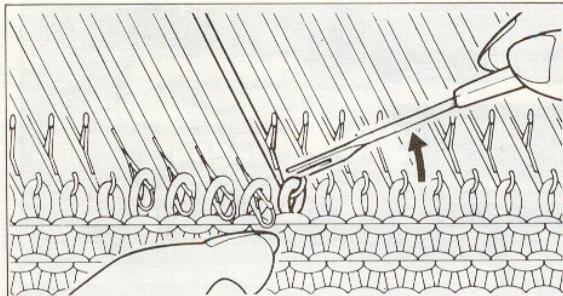
Loosen the knobs and remove the sinker plate assembly from the K carriage.



Lift the K carriage to remove, and place it at the outside of "I <" or "I" mark.



5. Return the sinker plate assembly to the K carriage.



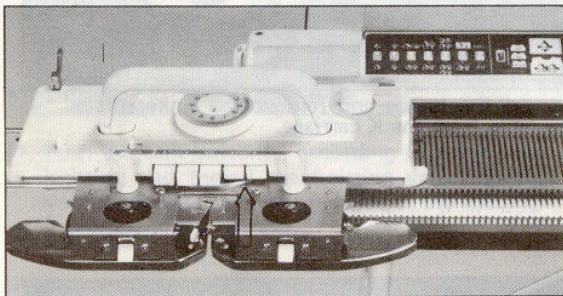
- If the stitches are on the stem of the needles, transfer them to the hooks of the needles by using the transfer tool.

Unravelling a row of knitting.

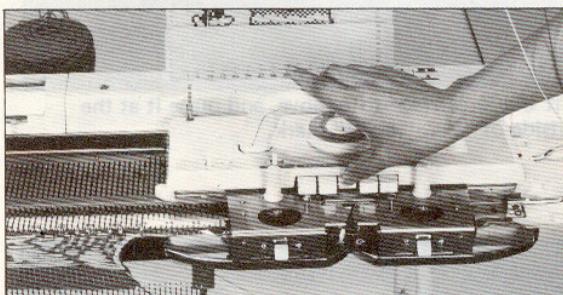
(When knitting fair-isle, weaving or plating-tuck stitch pattern, unravel the second colour yarn too.)

When unravelling several rows, bear the unravelled rows in mind.

(Even if you unravel one stitch, it must be counted as one row.)

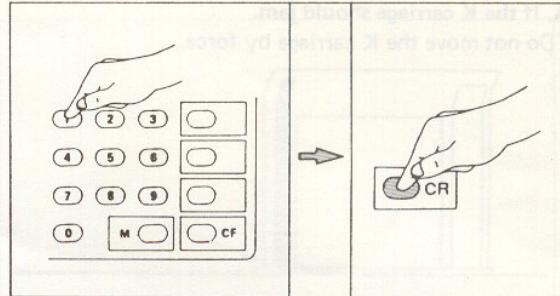


- Push both "PART" buttons and set the change knob to the "KC (I)" or "KC (II)".



- Push the cam button(s) according to the pattern.

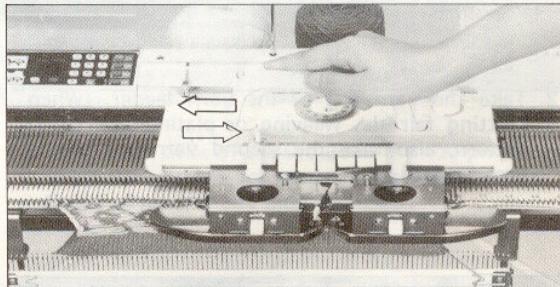
- When using the knit-leader and/or the row counter, set the row counter tripper to the working position.



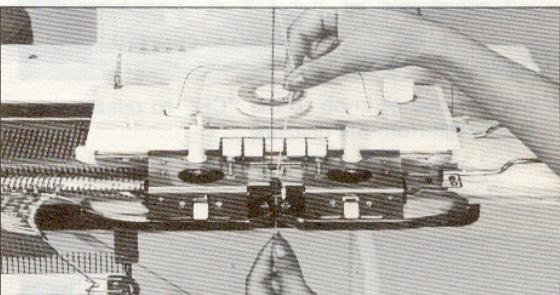
- Enter the figure for unravelled row, and push "CR" key. (Pattern card will be returned to the correct row of the pattern automatically.)

- Turn back the feeding dial of knit-leader and the row counter by the same number of rows unravelled.

(There is no need to turn them back if they are not fed forward by the row counter tripper.) Set the row counter tripper to the non-working position.



- Move the K carriage from the outside of "I C" or "I" mark until the needles are selected. (If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)

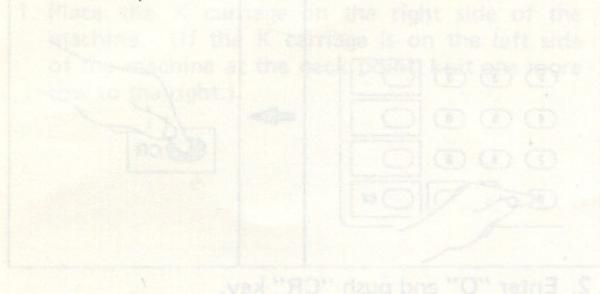


- Thread the knitting yarn into the yarn feeder, and continue to knit the pattern.

B. When unravelling several rows of a swatch.

(K carriage is outside of the swatch.)

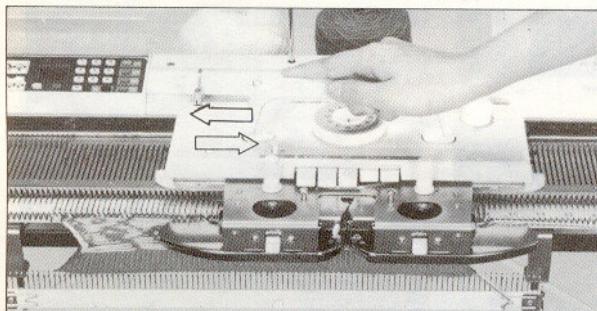
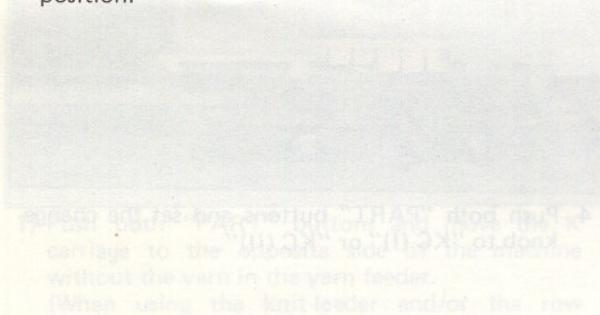
1. Unravelling a swatch. (Bear the unravelled rows in mind.)



① Knit the left side of the shoulder with waste yarn.

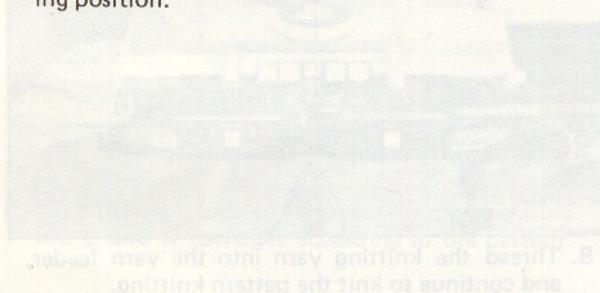
3. Turn back the feeding dial of knit-leader and the row counter by the same number of rows unravelled.

Set the row counter tripper to the non-working position.

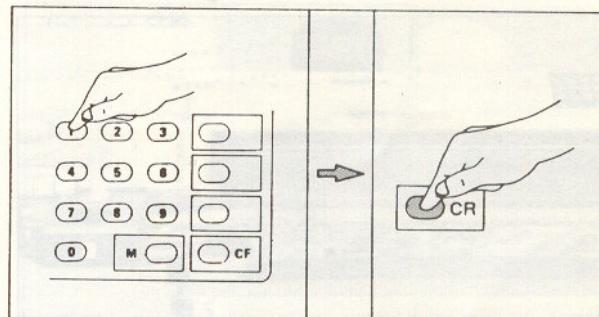


5. Move the K carriage from the outside of "I < " or "I" mark until the needles are selected.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)

7. When using the knit-leader and/or the row counter, set the row counter tripper to the working position.

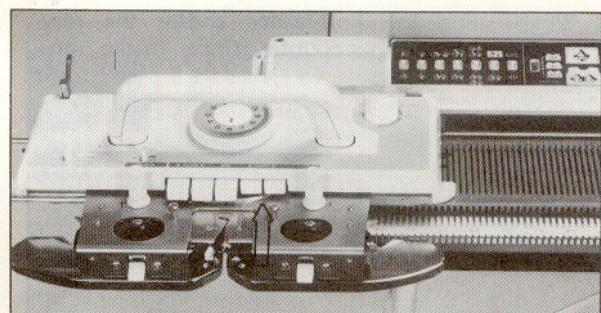


... aalatilm vyd nejvzd si noitoelos sibeen erit 11.0
... nangs noitoelos sibeen erit 11.0

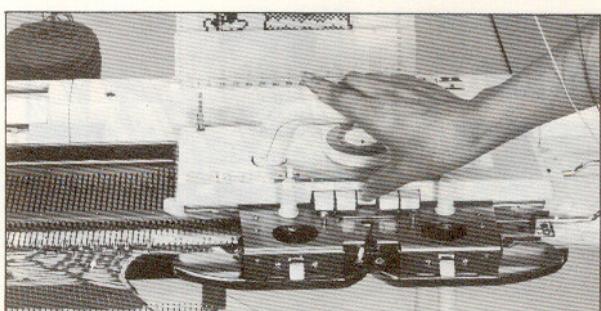


2. Enter the figure for the unravelled row, and push the "CR" key.

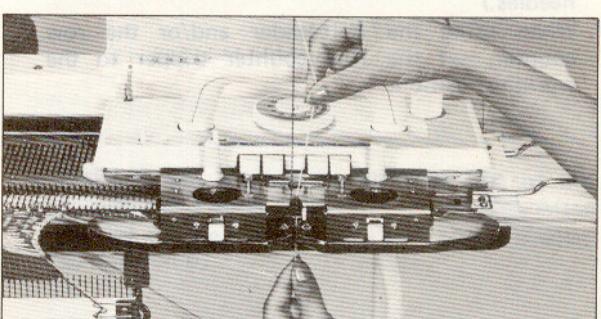
(Pattern card will be returned to the correct row of the pattern automatically.)



4. Push both "PART" buttons and set the change knob to the "KC (I)" or "KC (II)".

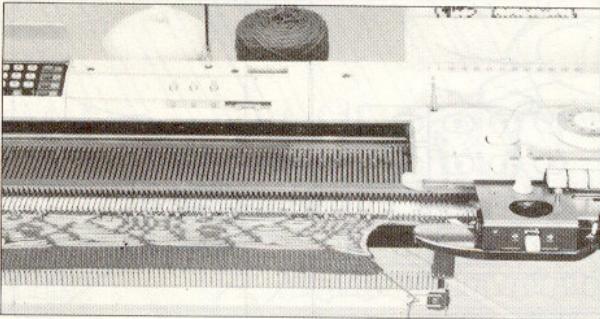


6. Push the cam button(s) according to the pattern knitting.

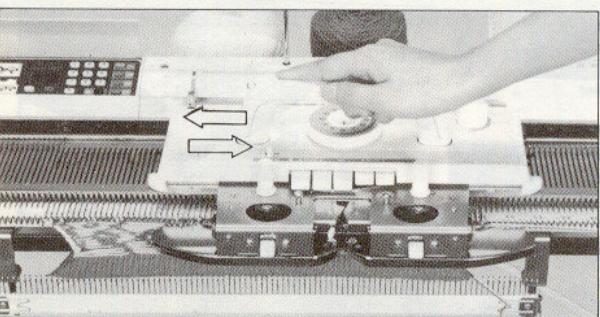


8. Thread the knitting yarn into the yarn feeder, and continue to knit the pattern knitting.

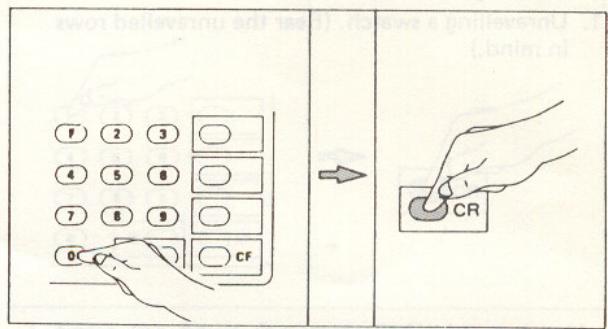
**C. If the needle selection is broken by mistake.
Make the same needle selection again.**



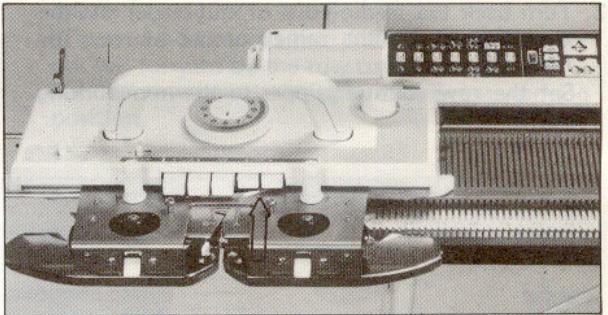
- Push back all the needles to position B and take the yarn out of the yarn feeder. (When knitting fair-isle, weaving or plating-tuck stitch pattern, also take the second yarn out of the yarn feeder.)
- When using the knit-leader and/or the row counter, set the row counter tripper to the non-working position.



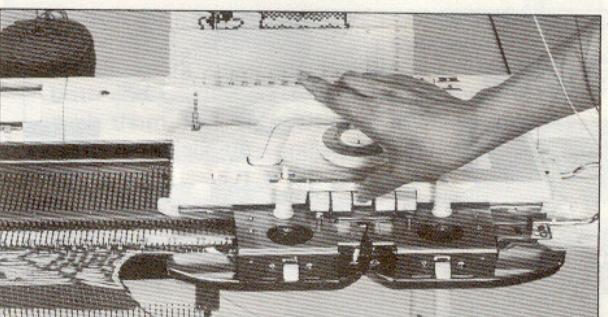
- Move the K carriage from the outside of "I <" or "I" mark until the needles are selected. (If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
- When using the knit-leader and/or the row counter, set the row counter tripper to the working position.



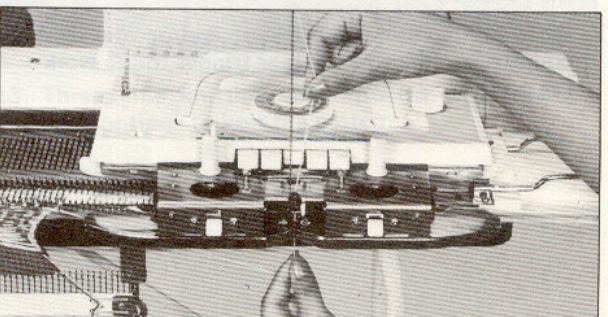
- Enter "O" and push "CR" key.



- Push both "PART" buttons and set the change knob to "KC (I)" or "KC (II)".



- Push the cam button(s) according to the pattern knitting.



- Thread the knitting yarn into the yarn feeder, and continue to knit the pattern knitting.

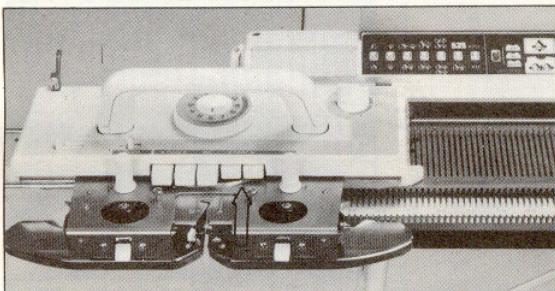
HOW TO SHAPE A NECK LINE IN PATTERN KNITTING (L CARRIAGE..... Normal-lace and finelace pattern)

A. With the waste knitting.

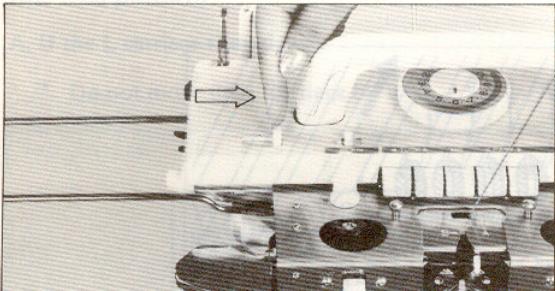
1. Place the K carriage on the right side of the machine. (If the K carriage is on the left side of the machine at the neck point, knit one more row to the right.)

...to right, turn counter set to gauge and start knitting. If this matching set to wrong, I am afraid it will not work. Then press "R/R" and then "P/P".

3. Knit the left side of the shoulder with waste yarn.



- 1) Push both "PART" buttons and move the K carriage to the opposite side of the machine without the yarn in the yarn feeder. (When using the knit-leader and/or the row counter, set the row counter tripper to the non-working position.)

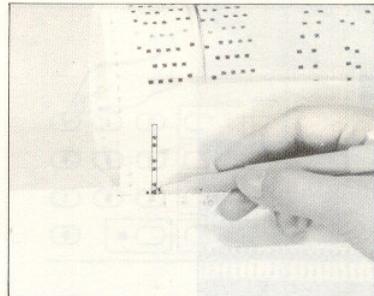


- 3) Set the holding cam lever to position H, knit the left side of the shoulder in plain knitting with waste yarn.
- 4) After knitting several rows, take them off the machine.

5. Thread the knitting yarn into the yarn feeder.

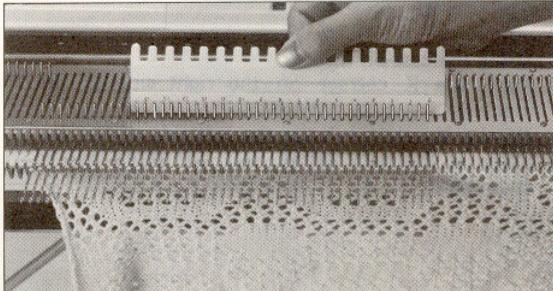
6. Knit the right side of the shoulder by operating the L and K carriages according to the pattern.

3. Put the waste knitting into the L carriage.

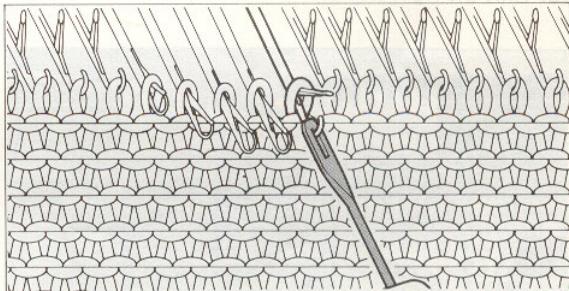


2. Put the reference mark beside the L window of the pattern card at the card inlet.

3. Knit the left side of the shoulder by operating the L and K carriages according to the pattern.



- 2) Bring forward all the needles for the right side of the shoulder to position E.

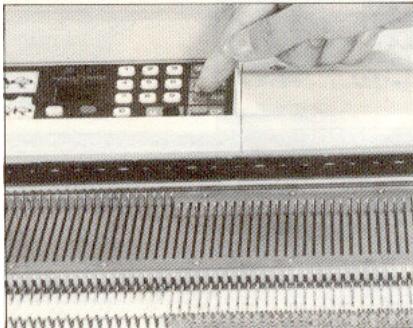


4. Using the transfer tool, place all the stitches for the right side of the shoulder onto the hooks of the needles and return them to position B.

5. Push "R/R" key. Pattern card returns to the set position.

7. Pick up the stitches for the left side of the shoulder and hook them onto the needles. After picking up the stitches, push back all the needles to position B.

After picking up the stitches, hook them onto the needles. A method of returning the needles to position B is to pull the release button and slide the air vent to the left edge of the rail.

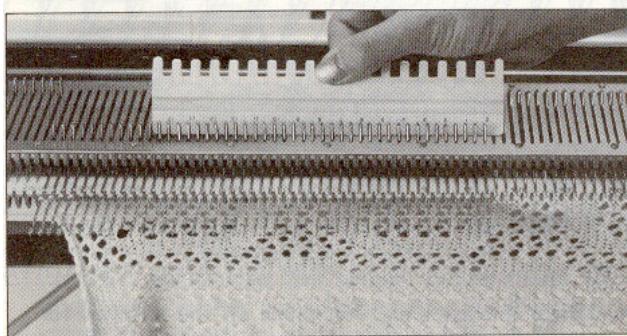


8. Push "RR" key. (Pattern card returns to the set line.)

B. Using the cast-on thread.

1. Place the K carriage on the right side of the machine.
(If the K carriage is on the left side of the machine at the neck point, knit one more row to the right.)

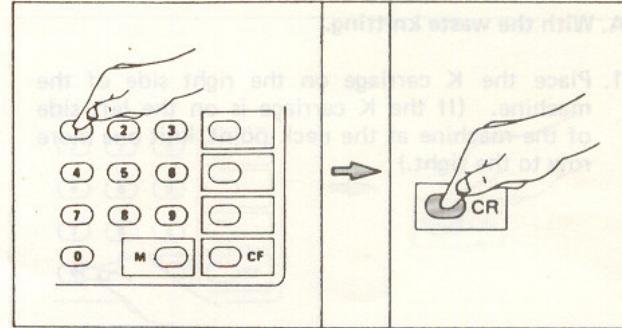
3. Knit the right side of the shoulder first.



- 1) Bring forward all the needles for the left side of the shoulder including the stitches for the center neck line to position E.

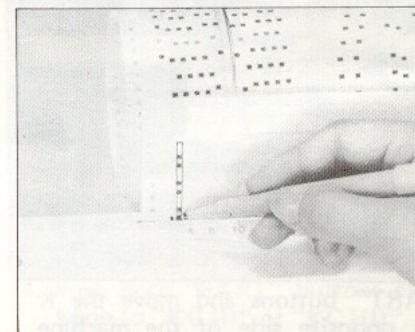
4. Knit the right side of the shoulder by operating the L and K carriages according to the pattern.

5. Transfer all the stitches for the left side of the shoulder from the needles in position A to the hooks of the needles and place them in position B. (Leave all the stitches for the center neck line as they are.)

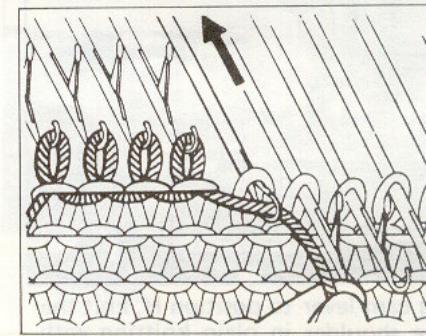


9. Enter the figure of the reference mark which is shown beside the L window of the pattern card and push "CF" key.

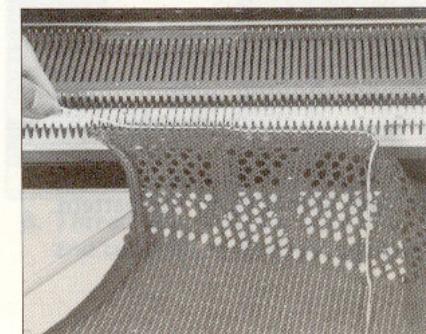
10. Knit the left side of the shoulder by operating the L and K carriages according to the pattern.



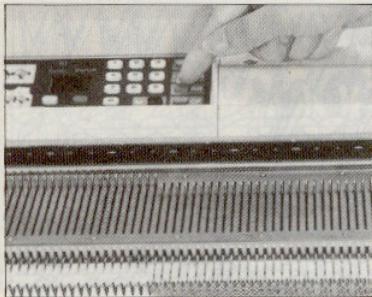
2. Put the reference mark beside the L window of the pattern card at the card inlet.



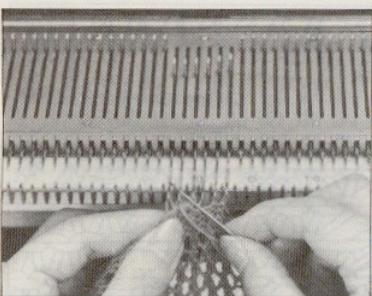
- 2) Lay the cast-on thread on the hooks of the needles in position E and push them back to position A one by one.
(At this time, make sure that the cast-on thread is between hook and latch of the needle to avoid dropping stitches.)



3. Unraveling a row of knitting.



- Push "RR" key. (Pattern card returns to the set line.)

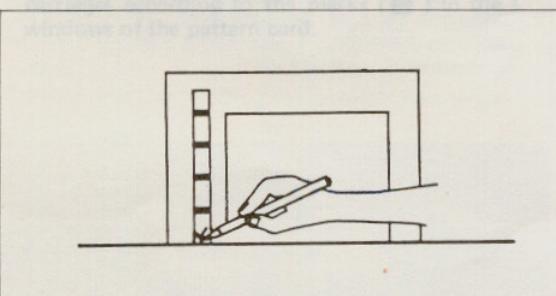


- Transfer all the stitches for the center neck line from the needles in position A to the hooks of the needles and place them in position B, then bind them off.

HOW TO CORRECT MISTAKES IN PATTERN KNITTING. (L CARRIAGE.....Normal-lace and fine-lace pattern)

A. If the L carriage should jam.

- * Do not move the L carriage by force.

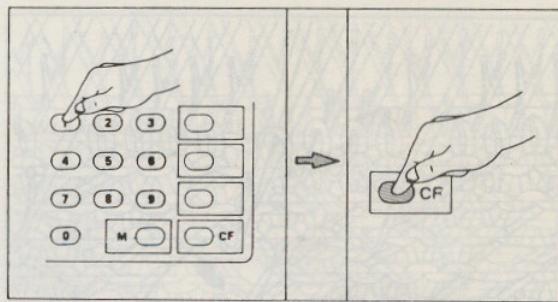


- Put the reference mark beside the L window of the pattern card at the card inlet.



- Pull the release button towards you and remove the L carriage.

Printed mist or acid contact with its surface? →
Cleaning mist?



- Enter the figure of the reference mark which is shown beside the L window of the pattern card and push "CF" key.

- Knit the left side of the shoulder by operating the L and K carriages according to the pattern.

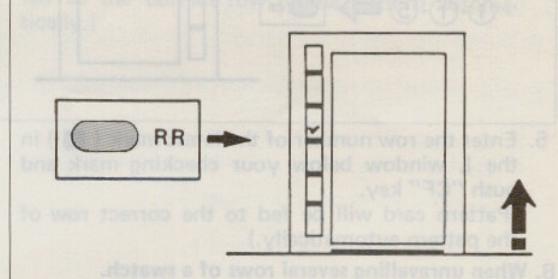
Printed mist or acid contact with its surface? →
Cleaning mist?

Find the mistake in the pattern card. In the

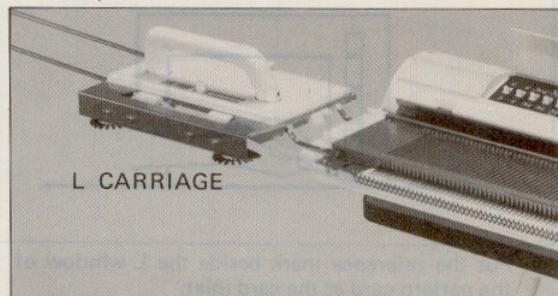
pattern card, if there is a mistake, it is necessary to make changes.

Enter the number of the row number of the mark

and push the "CF" key. The pattern card will be

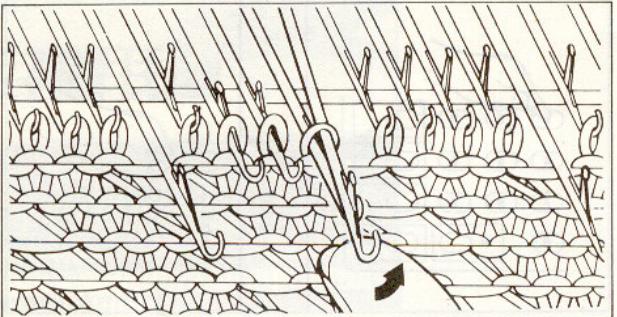


- Push "RR" key. (Pattern card returns to the set line.)

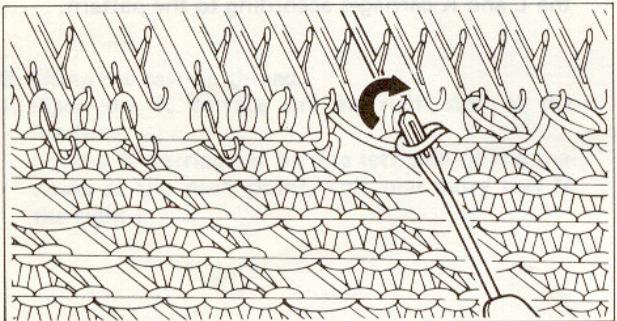


Pull the release button and place the L carriage firmly on the left extension rail.

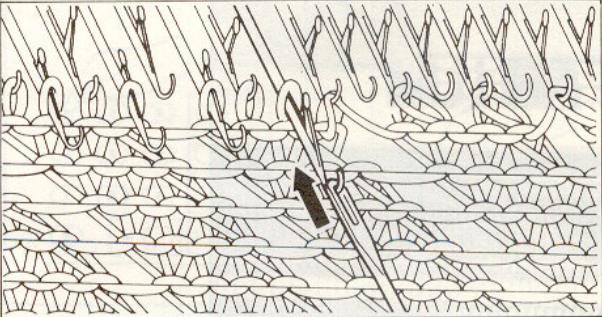
4. Transfer all the stitches back to plain knitting.
Plain knitting.



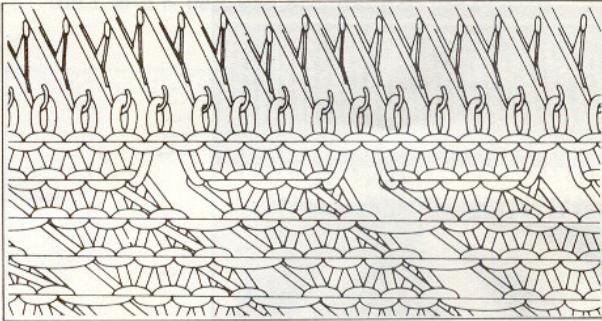
- 1) If needles get caught with each other, replace them by lifting tips.



- 3) Return the transferred stitches to the adjacent needles.

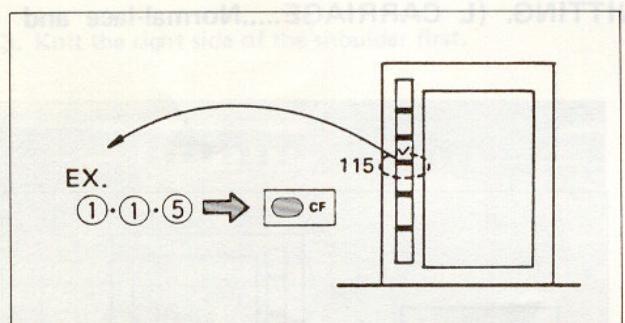


- 2) If the stitches are on the stem, transfer them to the hooks of the needles.



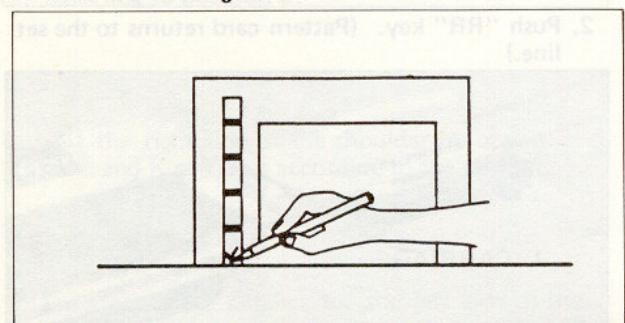
- 4) Return all the needles to position B.

6. Continue to knit by operating the L and K carriages according to the mark (■) in the L window of the pattern card.

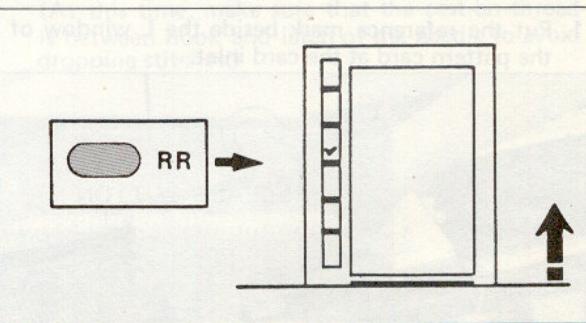


5. Enter the row number of the latest mark (■) in the L window below your checking mark and push "CF" key.
(Pattern card will be fed to the correct row of the pattern automatically.)

B. When unravelling several rows of a swatch.

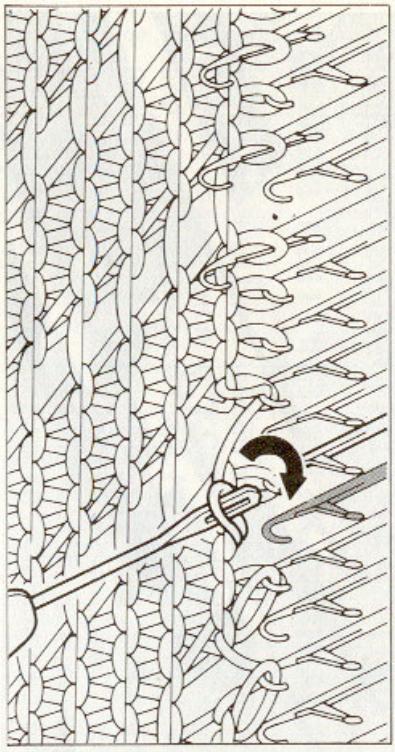


1. Put the reference mark beside the L window of the pattern card at the card inlet.

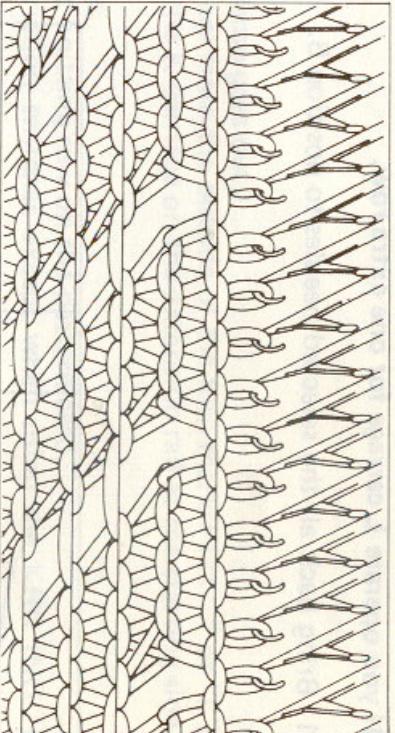


2. Push "RR" key. (Pattern card returns to the set line.)

3. Unravelling a row of knitting.



- 1) Return the transferred stitches to the adjacent needles and align all the needles in position B. (Return the stitches back to plain knitting.)



- 2) Unravel two rows.

- 3) Unravelling necessary rows by repeating these steps 1) and 2).

* At this time, bear in mind how many times you returned the stitches back to plain knitting.

(The number of times when returned to

PLAIN KNITTING

1 time	<input type="checkbox"/>
2 times	<input type="checkbox"/>
3 times	<input type="checkbox"/>
4 times	<input type="checkbox"/>

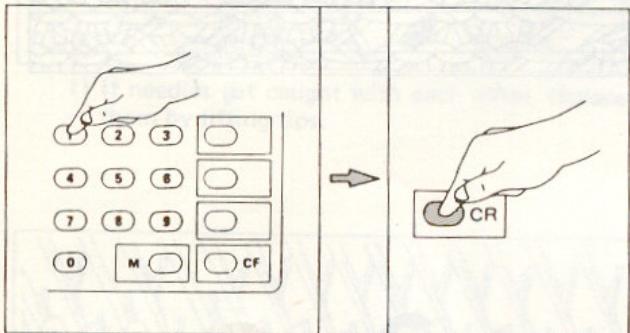
4. Find the row number of the mark (■) in the L window below your checking mark according

to the times you replaced the stitches to plain knitting. If you replaced the stitches to plain knitting 3 times, you have to read the row number of 3 marks below from your checking mark.

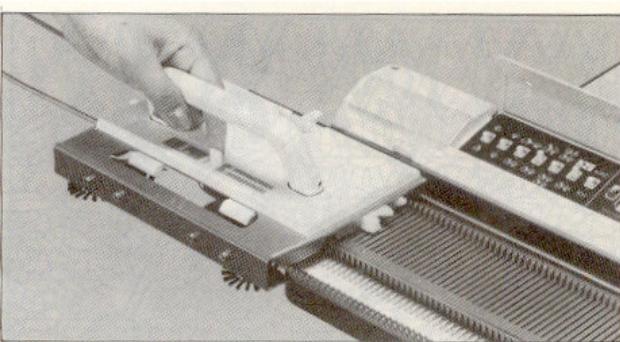
Enter the figure for the row number of the mark (■) and push "CF" key. (Pattern card will be fed to the correct row of the pattern automatically.)

C. If you operate L carriage for one extra row.

1. Bring back all the selected needles to position B.



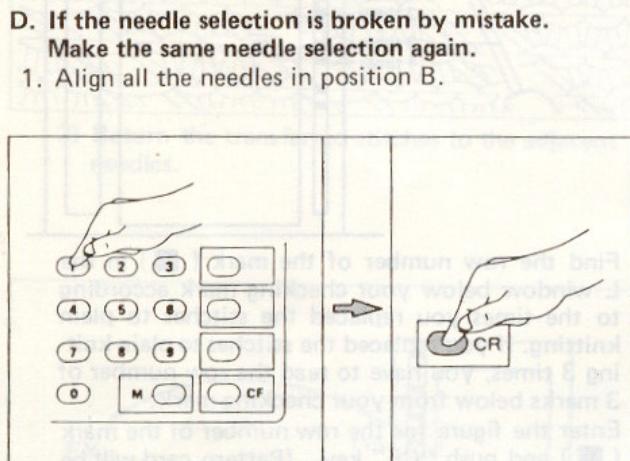
3. Enter "2" and push "CR" key.



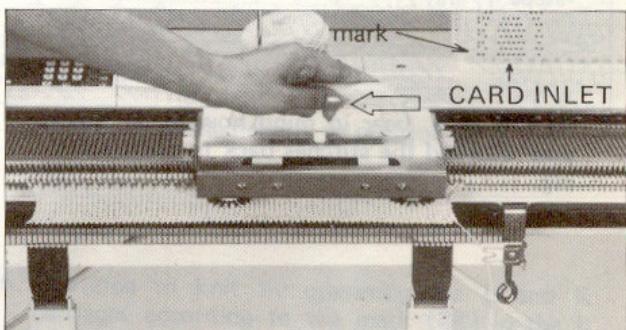
2. Move the L carriage to the left side of the machine and place it outside of the "I < " mark.

4. Knit 2 rows with the K carriage. (When L carriage moves from right to left, needles are sometimes selected. If so, you can leave them as they are.)

5. Continue to knit by operating the L and K carriages according to the marks (■) in the L window of the patterns card.



2. Enter "1" and push "CR" key.



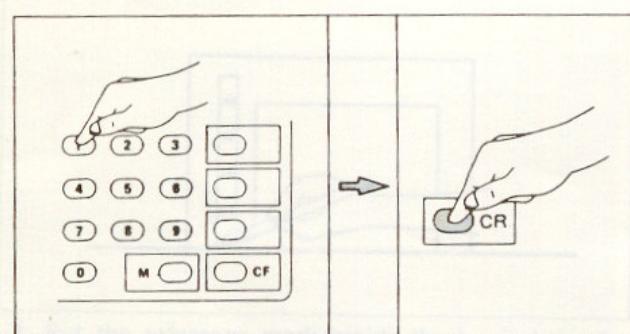
3. Operate the L carriage across and back. (Needles will be selected after the second row.)

4. Continue to knit by operating the L and K carriages according to the mark (■) in the L window of the pattern card.

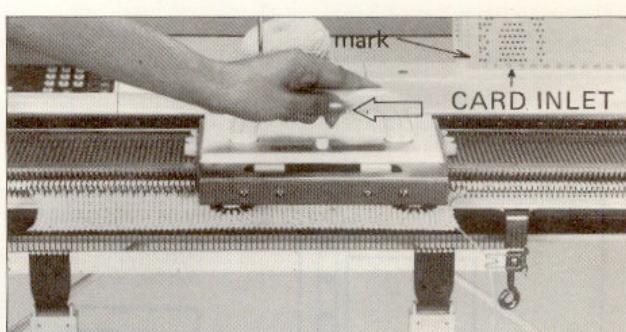
E. If you knit an extra row without any operation of the L carriage. When some needles are selected.

1. Unravelling the extra row of knitting.

2. Align all the needles in position B.



3. Enter "1" and push "CR" key.



4. Operate the L carriage across and back. (Needles will be selected after the second row.)

5. Continue to knit by operating the L and K carriages according to the marks (■) in the L window of the pattern card.

IF YOU CAN NOT REMEMBER THE NUMBER OF ROWS UNRAVELLED WHEN CORRECTING MISTAKES IN PATTERN KNITTING

PATTERN KNITTING K CARRIAGE

1. When the error lamp goes on and off, push "CE" key. (Error lamp goes out.)
2. Set the change knob to "KC(I)" or "KC(II)". Move the K carriage from the outside of the turn mark ("I < " or "I") and pass it to the turn mark ("I < " or "I"). Then, replace the K carriage on the extension rail at the starting side.
3. Push "RR" key. (Pattern card returns to the set line.)
4. Set the change knob to "N.L" and push both "PART" buttons.
5. Check the pattern swatch and find the row number of the next knitting row on the pattern card.
(This instruction applies to all combinations of pattern variation switches except when using the KRC (NO.7) switch.)

After this, follow the instructions according to the combination of pattern variation switches.

A. When the double length (No. 4), the reflection (No. 5) and the KRC (No. 7) switches are not in use.

1. Place the K carriage on the outside of the turn mark ("I < " or "I") at the opposite side of the yarn.
2. Enter the figure of next knitting row and push "CF" key.
3. Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I < " or "I" mark to select the needles.
4. Push cam button(s) according to the pattern knitting and continue to knit.

B. When using the double length (No. 4) switch.

- * Double length pattern knits the same row of the pattern twice.
 - * Check and find that whether the next knitting row is the first row or the second row of the double length pattern.
1. If the next knitting row is the first row of the double length pattern.
 - 1) Place the K carriage on the outside of the turn mark ("I < " or "I") at the opposite side of the yarn.
 - 2) Enter the figure of the next knitting row and push "CF" key.
 - 3) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I < " or "I" mark to select the needles.
 - 4) Push cam button(s) according to the pattern knitting and continue to knit.
 2. If the next knitting row is the second row of the double length pattern.
 - 1) Place the K carriage on the outside of the turn mark ("I < " or "I") at the side of the yarn.
 - 2) Enter the row number which is above the next knitting row and push "CF" key.
 - 3) Enter "0" and push "CR" key.
 - 4) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I < " or "I" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 5) Push cam button(s) according to the pattern knitting and continue to knit.

C. When using the reflection (No. 5) switch.

- * Check and find the knitting direction of pattern.
 - * When you are knitting the pattern from bottom to top, the next knitting row is the above row of the corresponding row.
 - * When you are knitting the pattern from top to bottom, the next knitting row is the below row of the corresponding row.
1. If you are knitting the pattern from bottom to top.
 - 1) Place the K carriage on the outside of the turn mark("I < " or "I") at the opposite side of the yarn.
 - 2) Push "CF" key.
 - 3) Enter the figure of the next (above) knitting row and push "CF" key.

- 4) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" or "I" mark to select the needles.
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.
2. If you are knitting the pattern from top to bottom.
- 1) Place the K carriage on the outside of the turn mark ("I <" or "I") at the opposite side of the yarn.
 - 2) Enter the last (top) row number of the pattern which is selected from the pattern card and push "CF" key.
 - 3) Enter the figure of the next (below) knitting row and push "CF" key.
 - 4) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" or "I" mark to select the needles.
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.

D. When using the double length (No. 4) and the reflection (NO. 5) switches.

- * Check and find the knitting direction of the pattern and whether it is the first row or the second row of the double length pattern.
- * When you are knitting the pattern from bottom to top, the next knitting row is the row above the corresponding row.
- * When you are knitting the pattern from top to bottom, the next knitting row is the row below the corresponding row.

1. If you are knitting the pattern from bottom to top and the next knitting row is the first row of the double length pattern.
 - 1) Place the K carriage on the outside of the turn mark ("I <" or "I") at the opposite side of the yarn.
 - 2) Reset the double length (No. 4) switch to the lower position.
 - 3) Push "CF:" key.
 - 4) Set the double length (No. 4) switch to the upper position.
 - 5) Enter the figure of the next (above) knitting row and push "CF" key.
 - 6) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" or "I" mark to select the needles.
 - 7) Push the cam button(s) according to the pattern knitting and continue to knit.
2. If you are knitting the pattern from top to bottom and the next knitting row is the first row of the double length pattern.
 - 1) Place the K carriage on the outside of the turn mark ("I <" or "I") at the opposite side of the yarn.
 - 2) Reset the double length (No. 4) switch to the lower position.
 - 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push "CF" key.
 - 4) Set the double length (No. 4) switch to the upper position.
 - 5) Enter the figure of the next (below) knitting row and push "CF" key.
 - 6) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" or "I" mark to select the needles.
 - 7) Push the cam button(s) according to the pattern knitting and continue to knit.
3. If you are knitting the pattern from bottom to top and the next knitting row is the second row of the double length pattern.
 - 1) Place the K carriage on the outside of the turn mark ("I <" or "I") at the side of the yarn.
 - 2) Reset the double length (No. 4) switch to the lower position.
 - 3) Push "CF" key.
 - 4) Set the double length (No. 4) switch to the upper position.
 - 5) Enter the row number which is above the next knitting row and push "CF" key.
 - 6) Enter "0" and push "CR" key.
 - 7) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" or "I" mark to select the needles. (If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 8) Push the cam button(s) according to the pattern knitting and continue to knit.

4. If you are knitting the pattern from top to bottom and the next knitting row is the second row of the double length pattern.

- 1) Place the K carriage on the outside of the turn mark ("I C " or "I") at the side of the yarn.
 - 2) Reset the double length (No. 4) switch to the lower position.
 - 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push "CF" key.
 - 4) Set the double length (No. 4) switch to the upper position.
 - 5) Enter the row number which is below the next knitting row and push "CR" key.
 - 6) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I C " or "I" mark to select the needles. (If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 7) Push the cam button(s) according to the pattern knitting and continue to knit.
- E. When using the KRC (No. 7) switch.**
- * Check the stitches which are on the needles and find the corresponding row number of the pattern on the pattern card.
 - * Mark the row number which is above the corresponding row number of the pattern.
 - * If you find the corresponding row number on the pattern card and it is the last (top) row of the pattern, the next row is the first (bottom) row of the pattern.
 - * Check the last unravelled row and find that whether it is the main yarn or the contrast yarn.
1. If the last unravelled row is the main yarn and it is on the left side of the swatch.
 - 1) Place the K carriage on the outside of the left turn mark "I C ".
 - 2) Enter the figure of the marked row number and push "CF" key.
 - 3) Enter "0" and push "CR" key.
 - 4) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I C " mark to select the needles. (If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.
 2. If the last unravelled row is the main yarn and it is on the right side of the swatch.
 - 1) Place the K carriage on the outside of the left turn mark "I C ".
 - 2) Enter the figure of the marked row number and push "CF" key.
 - 3) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I C " mark to select the needles.
 - 4) Push the cam button(s) according to the pattern knitting and continue to knit.
 3. If the last unravelled row is the contrast yarn and it is on the left side of the swatch.
 - 1) Place the K carriage on the outside of the left turn mark "I C ".
 - 2) Enter the figure which is above the marked row number and push "CF" key.
 - 3) Enter "2" and push the "CR" key.
 - 4) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I C " to select the needles. (If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.

4. If the last unravelled row is the contrast yarn and it is on the right side of the swatch.
- 1) Place the K carriage on the outside of the right turn mark "I".
 - 2) Enter the figure which is above the marked row number and push "CF" key.
 - 3) Enter "1" and push "CR" key.
 - 4) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.

F. When using the KRC (No. 7) and the double length (No. 4) switches.

- * Check the stitches which are on the needles and find the corresponding row number of pattern on the pattern card.
- * Mark the row number which is above the corresponding row number of the pattern.
- * If you find the corresponding row number on the pattern card and it is the last (top) row of the pattern, the next row is the first (bottom) row of the pattern.
- * Check the last unravelled row and find that whether it is the main yarn or contrast yarn.

1. If the last unravelled row is the main yarn and it is on the left side of the swatch.
 - 1) Place the K carriage on the outside of the left turn mark "I <".
 - 2) Enter the figure of the marked row number and push the "CF" key.
 - 3) Enter "0" and push "CR" key.
 - 4) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.
2. If the last unravelled row is the main yarn and it is on the right side of the swatch.
 - 1) Place the K carriage on the outside of the left turn mark "I <".
 - 2) Enter the figure of the marked row number and push "CF" key.
 - 3) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
 - 4) Push the cam button(s) according to the pattern knitting and continue to knit.
3. If the last unravelled row is the contrast yarn and it is on the left side of the swatch.
 - 1) Place the K carriage on the outside of the left turn mark "I <".
 - 2) Enter the figure of the marked row number and push "CF" key.
 - 3) Enter "2" and push the "CR" key.
 - 4) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.
4. If the last unravelled row is the contrast yarn and it is on the right side of the swatch.
 - 1) Place the K carriage on the outside of the right turn mark "I".
 - 2) Enter the figure of the marked row number and push the "CF" key.
 - 3) Enter "1" and "CR" key.
 - 4) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 5) Push the cam button(s) according to the pattern knitting and continue to knit.

G. When using the KRC (No. 7) and the reflection (No. 5) switches.

- * Check the knitting direction of the pattern.
- * Check the stitches which are on the needles and find the corresponding row of pattern on the pattern card.
- * Mark the row number which is next to the corresponding row number of pattern.
- * When you are knitting the pattern from bottom to top, the next knitting row is the row above the corresponding row.
- * When you are knitting the pattern from top to bottom, the next knitting row is the row below the corresponding row.
- * If you find the corresponding row number on the pattern card and it is the first(bottom) row of the pattern, the next row is the second row from the bottom of the pattern. If it is the last (top) row of the pattern, the next row is the second row from the top of the pattern.
- * Check the last unravelled row and find that whether it is the main yarn or the contrast yarn.

G-I. When you are knitting the pattern from bottom to top.

1. If the last unravelled row is the main yarn and it is on the left side of the swatch.

- 1) Place the K carriage on the outside of the left turn mark "I <".
- 2) Reset the KRC (No. 7) switch to the lower position.
- 3) Push "CF" key.
- 4) Set the KRC (No. 7) switch to the upper position.
- 5) Enter the figure of the marked row number and push the "CF" key.
- 6) Enter "0" and "CR" key.
- 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
- 8) Push the cam button(s) according to the pattern knitting and continue to knit.

2. If the last unravelled row is the main yarn and it is on the right side of the swatch.

- 1) Place the K carriage on the outside of the left turn mark "I <".
- 2) Reset the KRC (No. 7) switch to the lower position.
- 3) Push "CF" key.
- 4) Set the KRC (No. 7) switch to the upper position.
- 5) Enter the figure of the marked row number and push the "CF" key.
- 6) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
- 7) Push the cam button(s) according to the pattern knitting and continue to knit.

3. If the last unravelled row is the contrast yarn and it is on the left side of the swatch.

- 1) Place the K carriage on the outside of the left turn mark "I <".
- 2) Reset the KRC (No. 7) switch to the lower position.
- 3) Push "CF" Key.
- 4) Set the KRC (No. 7) switch to the upper position.
- 5) Enter the figure which is above the marked row number and push the "CF" key.
- 6) Enter "2" and push the "CR" key.
- 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
- 8) Push the cam button(s) according to the pattern knitting and continue to knit.

4. If the last unravelled row is the contrast yarn and it is on the right side of the swatch.
- 1) Place the K carriage on the outside of the right turn mark "I".
 - 2) Reset the KRC (No. 7) switch to the lower position.
 - 3) Push "CF" key.
 - 4) Set the KRC (No. 7) switch to the upper position.
 - 5) Enter the figure which is above the marked row number and push "CF" key.
 - 6) Enter "1" and push "CR" key.
 - 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 8) Push the cam button(s) according to the pattern knitting and continue to knit.

G-II. When you are knitting the pattern from top to bottom.

1. If the last unravelled row is the main yarn and it is on the left side of the swatch.
- 1) Place the K carriage on the outside of the left turn mark "I ⌂".
 - 2) Reset the KRC (No. 7) switch to the lower position.
 - 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push the "CF" key.
 - 4) Set the KRC (No. 7) switch to the upper position.
 - 5) Enter the figure of the marked row number and push the "CF" key.
 - 6) Enter "0" push the "CR" key.
 - 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I ⌂" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 8) Push the cam button(s) according to the pattern knitting and continue to knit.
2. If the last unravelled row is the main yarn and it is on the right side of the swatch.
- 1) Place the K carriage on the outside of the left turn mark "I ⌂".
 - 2) Reset the KRC (No. 7) switch to the lower position.
 - 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push "CF" key.
 - 4) Set the KRC (No. 7) switch to the upper position.
 - 5) Enter the figure of the marked row number and push the "CF" key.
 - 6) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I ⌂" mark to select the needles.
 - 7) Push the cam button(s) according to the pattern knitting and continue to knit.
3. If the last unravelled row is the contrast yarn and it is on the left side of the swatch.
- 1) Place the K carriage on the outside of the left turn mark "I ⌂".
 - 2) Reset the KRC (No. 7) switch to the lower position.
 - 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push "CF" key.
 - 4) Set the KRC (No. 7) switch to the upper position.
 - 5) Enter the figure which is below the marked row number and push the "CF" key.
 - 6) Enter "2" and push the "CF" key.
 - 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I ⌂" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 8) Push the cam button(s) according to the pattern knitting and continue to knit.

4. If the last unravelled row is the contrast yarn and it is on the right side of the swatch.

- 1) Place the K carriage on the outside of the right turn mark "I"
- 2) Reset the KRC (No. 7) switch to the lower position.
- 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push the "CF" key.
- 4) Set the KRC (No. 7) switch to the upper position.
- 5) Enter the figure which is below the marked row number and push "CF" key.
- 6) Enter "1" and push the "CR" key.
- 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
- 8) Push the cam button(s) according to the pattern knitting and continue to knit.

H. When using the KRC (No. 7), the double length (No. 4) and the reflection (No. 5) switches.

- * Check the knitting direction of the pattern.
- * Check the stitches which are on the needles and find the corresponding row of the pattern on the pattern card.
- * Mark the row number which is next to the corresponding row number of the pattern.
- * When you are knitting the pattern from bottom to top, the next row is the row above the corresponding row.
- * When you are knitting the pattern from top to bottom, the next row is the row below corresponding row.
- * If you find the corresponding row number on the pattern card and it is the first (bottom) row of the pattern, the next row is the second row from the bottom of the pattern. If it is the last (top) row of the pattern, the next row is the second row from the top of the pattern.
- * Check the last unravelled row and find that whether it is the main yarn or the contrast yarn.

H-I. When you are knitting the pattern from bottom to top.

1. If the last unravelled row is the main yarn and it is on the left side of the swatch.

- 1) Place the K carriage on the outside of the left turn mark "I <".
- 2) Reset the double length (No. 4) and KRC (No. 7) switches to the lower position.
- 3) Push the "CF" key.
- 4) Set the double length (No. 4) and KRC (No. 7) switches to the upper position.
- 5) Enter the figure of the marked row number and push the "CF" key.
- 6) Enter "0" and "CR" key.
- 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
- 8) Push the cam button(s) according to the pattern knitting and continue to knit.

2. If the last unravelled row is the main yarn and it is on the right side of the swatch.

- 1) Place the K carriage on the outside of the left turn mark "I <".
- 2) Reset the double length (No. 4) and KRC (No. 7) switches to the lower position.
- 3) Push the "CF" key.
- 4) Set the double length (No. 4) and KRC (No. 7) switches to the upper position.
- 5) Enter the figure of the marked row number and push the "CF" key.
- 6) Set the change knob to the "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I <" mark to select the needles.
- 7) Push the cam button(s) according to the pattern knitting and continue to knit.

3. If the last unravelled row is the contrast yarn and it is on the left side of the swatch.
- 1) Place the K carriage on the outside of the left turn mark "I ⌂".
 - 2) Reset the double length (No. 4) and KRC (No. 7) switches to the lower position.
 - 3) Push the "CF" key.
 - 4) Set the double length (No. 4) and KRC (No. 7) switches to the upper position.
 - 5) Enter the figure of the marked row number and push the "CF" key.
 - 6) Enter "2" and "CR" key.
 - 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I ⌂" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 8) Push the cam button(s) according to the pattern knitting and continue to knit.
4. If the last unravelled row is the contrast yarn and it is on the right side of the swatch.
- 1) Place the K carriage on the outside of the right turn mark "I ⌂".
 - 2) Reset the double length (No. 4) and the KRC (No. 7) switches to the lower position.
 - 3) Push the "CF" key.
 - 4) Set the double length (No. 4) and the KRC (No. 7) switches to the upper position.
 - 5) Enter the figure of the marked row number and push the "CF" key.
 - 6) Enter "1" and push the "CR" key.
 - 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I ⌂" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 8) Push the cam button(s) according to the pattern knitting and continue to knit.

H-II. When you are knitting the pattern from top to bottom.

1. If the last unravelled row is the main yarn and it is on the left side of the swatch.
- 1) Place the K carriage on the outside of the left turn mark "I ⌂".
 - 2) Reset the double length (No. 4) and KRC (No. 7) switches to the lower position.
 - 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push the "CF" key.
 - 4) Set the double length (No. 4) and KRC (No. 7) switches to the upper position.
 - 5) Enter the figure of the marked row number and push the "CF" key.
 - 6) Enter "0" and push "CR" key.
 - 7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I ⌂" mark to select the needles.
(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)
 - 8) Push the cam button(s) according to the pattern knitting and continue to knit.
2. If the last unravelled row is the main yarn and it is on the right side of the swatch.
- 1) Place the K carriage on the outside of the left turn mark "I ⌂".
 - 2) Reset the double length (No. 4) and KRC (No. 7) switches to the lower position.
 - 3) Enter the last (top) row number of the pattern which is selected from the pattern card and push the "CF" key.
 - 4) Set the double length (No. 4) and KRC (No. 7) switch to the upper position.
 - 5) Enter the figure of the marked row number and push the "CF" key.
 - 6) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I ⌂" mark to select the needles.
 - 7) Push the cam button(s) according to the pattern knitting and continue to knit.

3. If the last unravelled row is the contrast yarn and it is on the left side of the swatch.

1) Place the K carriage on the outside of the left turn mark "I C".

2) Reset the double length (No. 4) and KRC (No. 7) switches to the lower position.

3) Enter the last (top) row number of the pattern which is selected from the pattern card and push the "CF" key.

4) Set the double length (No. 4) and KRC (No. 7) switches to the upper position.

5) Enter the figure of the marked row number and push the "CF" key.

6) Enter "2" and push "CR" key.

7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I C" mark to select the needles.

(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)

8) Push the cam button(s) according to the pattern knitting and continue to knit.

4. If the last unravelled row is the contrast yarn and it is on the right side of the swatch.

1) Place the K carriage on the outside of the right turn mark "I".

2) Reset the double length (No. 4) and KRC (No. 7) switches to the lower position.

3) Enter the last (top) row number of the pattern which is selected from the pattern card and push the "CF" key.

4) Set the double length (No. 4) and KRC (No. 7) switches to the upper position.

5) Enter the figure of the marked row number and push the "CF" key.

6) Enter "1" and push "CR" key.

7) Set the change knob to "KC (I)" or "KC (II)" and move the K carriage from the outside of the "I" mark to select the needles.

(If both end needles are selected after the first row, push them back to position B by hand and move the K carriage for one more row to select the needles.)

8) Push the cam button(s) according to the pattern knitting and continue to knit.

USEFUL HINTS FOR THE FOLLOWING CASES OF PATTERN KNITTING.

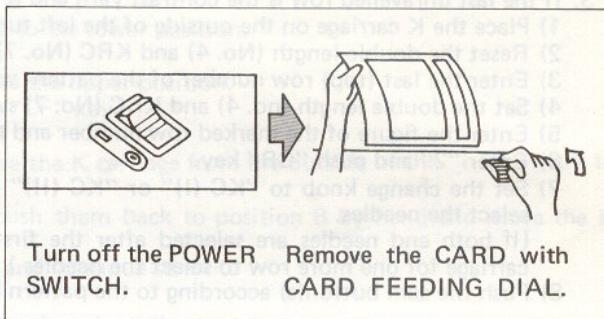
A. When taking pattern knitting off the machine with waste knitting, and re-knitting the pattern knitting again after replacing the swatch onto the machine.

I. Pattern Knitting . . . K carriage

1. Knit the waste knitting.

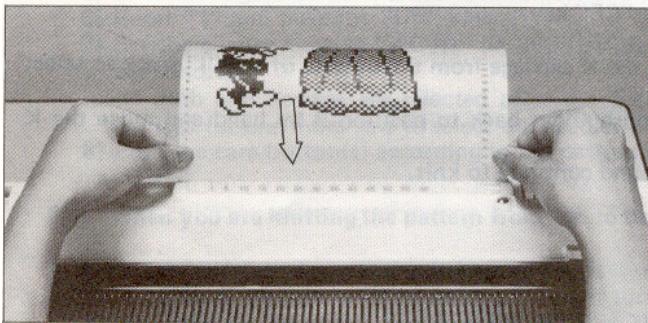
- 1) Turn off the power switch.
- 2) Remove the pattern card with card feeding dial.
(This time, do not use the "RR" key.)
- 3) Set the change knob to "N.L" and knit the waste knitting.

Take the swatch off the machine.



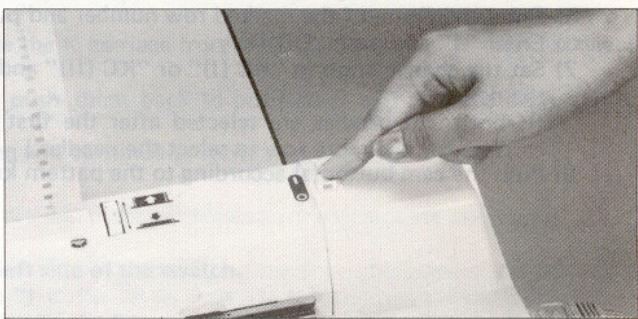
2. Replace the swatch onto the machine.

Using the transfer tool, pick up all the stitches and hook them onto the needles.

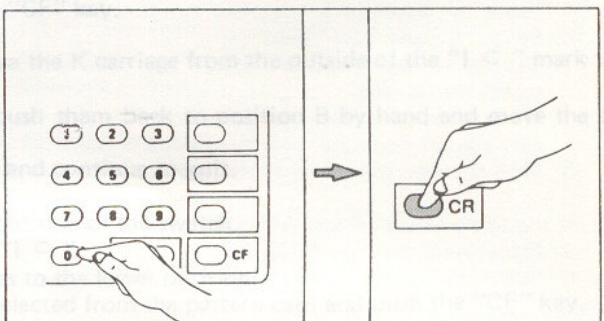


4. If the pattern card has been off the card inlet, insert it into the card inlet correctly. Then, feed the pattern card to the proper position which can be read at the row number of the L window.

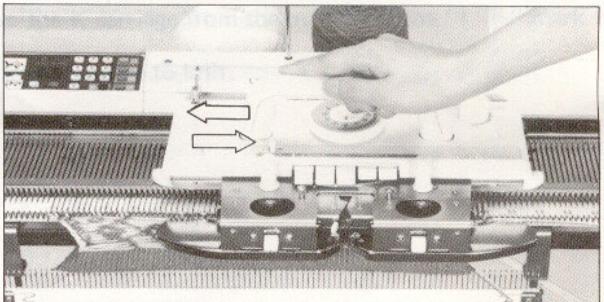
3. Place the K carriage on the outside of the turn mark ("I <" or "1") at the side of the yarn.



5. Turn on the power switch.



7. Enter "0" and push the "CR" key.

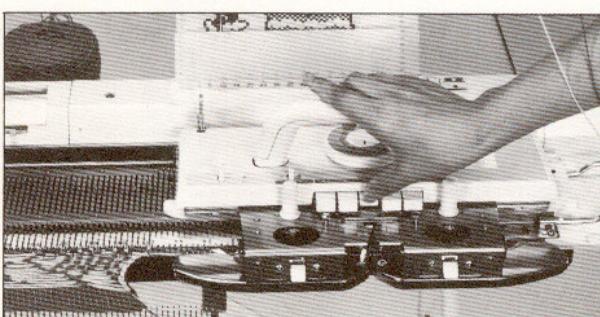


9. Move the K carriage from the outside of the "I <" or "1" mark to select the needles.

If you are setting the change knob at "KC (I)", push back both end needles to position B by hand after the first row, then move the K carriage for one more row to select the needles.



8. Set the change knob to "KC (I)" or "KC (II)" and push both "PART" buttons.

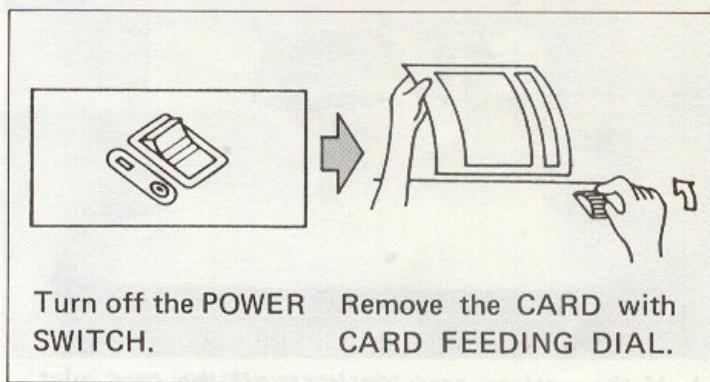


10. Push the cam button(s) according to the pattern knitting and continue to knit.

II. Pattern knitting L carriage

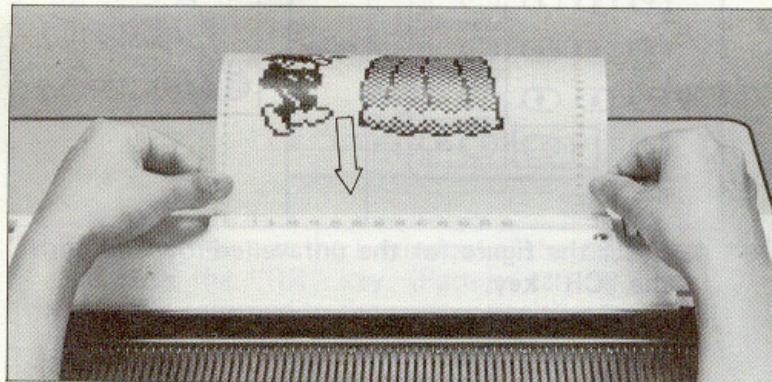
1. After knitting with the K carriage, knit the waste knitting.

- 1) Turn off the power switch.
- 2) Remove the pattern card with the card feeding dial. (This time, do not use the "RR" key.) Knit the waste knitting and take the swatch off the machine.



2. Replace swatch onto the machine.

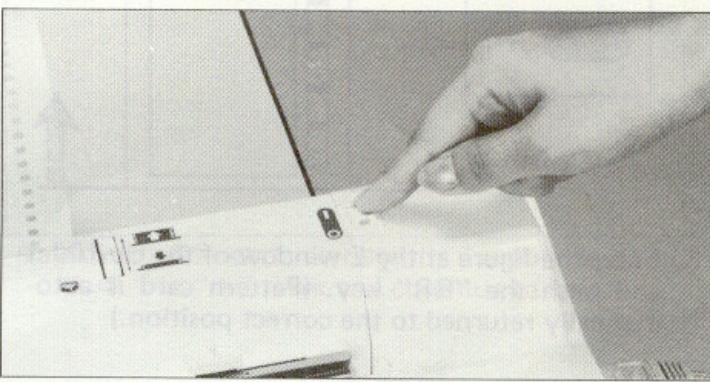
Using the transfer tool, pick up all the stitches and hook them onto the needles.



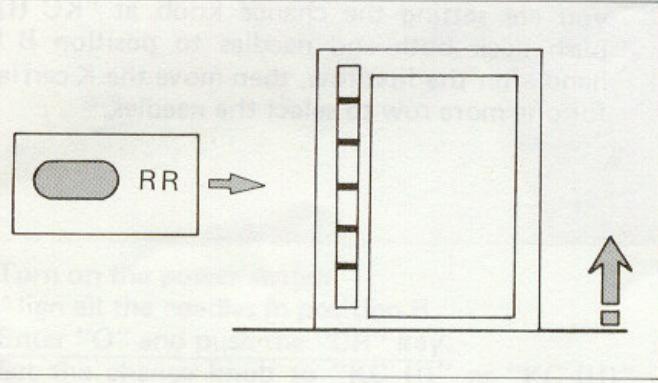
4. If the pattern card has been off the card inlet, insert it into the card inlet correctly.

Then, feed the pattern card to the proper position which can be read at the row number of the L window.

3. Place the L carriage on the outside of the turn mark ("I < " or "I") at the side of the yarn.



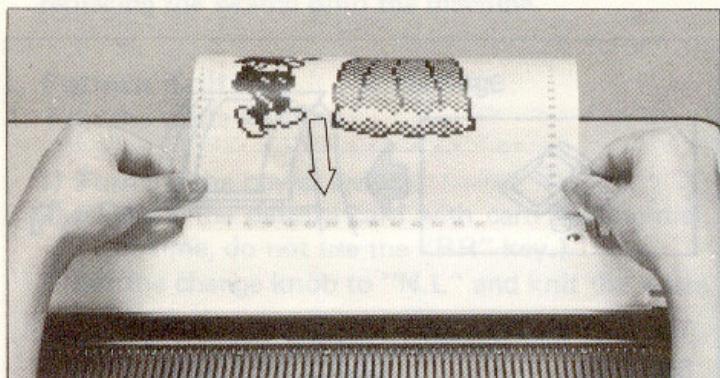
5. Turn on the power switch.



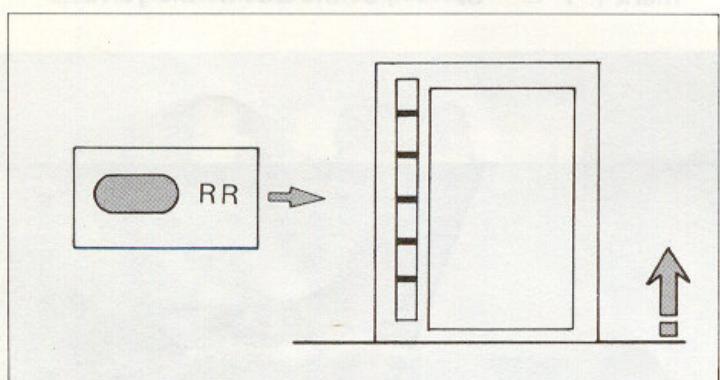
6. Enter the figure at the L window of the card inlet and push the "RR" key. (Pattern card is automatically returned to the correct position.)

7. Move the L carriage to the outside of the "I <" mark, and continue to knit.

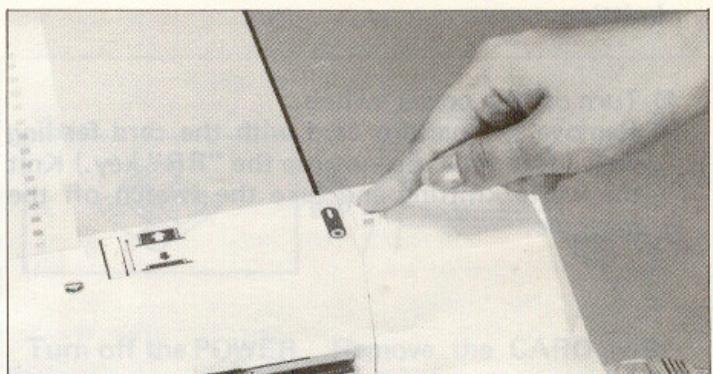
B. If you pushed the "RR" key instead of the "CR" key by mistake when you are correcting mistakes in pattern knitting. (Pattern card is moved forward or backward when you push "RR" key.)



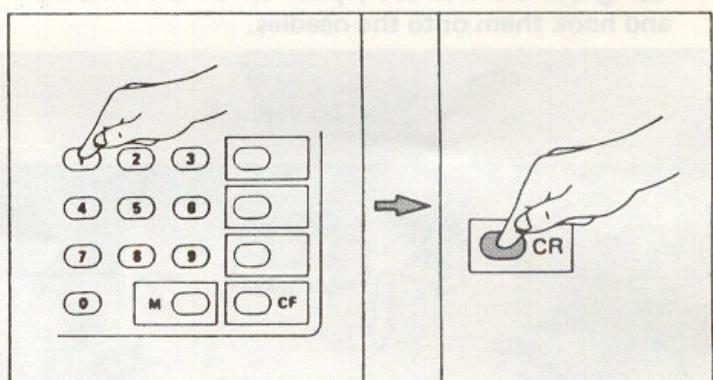
1. If the pattern card has been off the card inlet, insert it into the card inlet correctly. Then, feed the pattern card to the proper position which can be read at the row number of the L window.



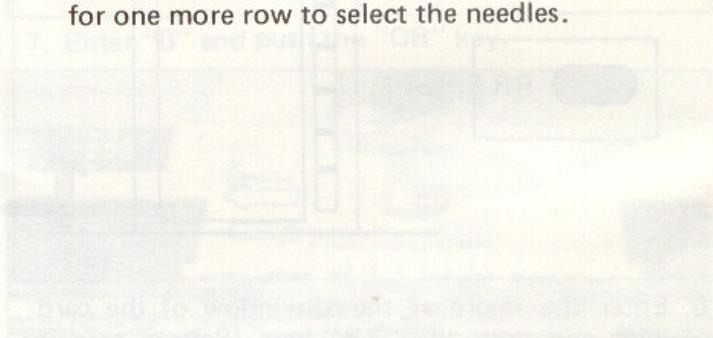
3. Enter the figure at the L window of the card inlet and push the "RR" key. (Pattern card is automatically returned to the correct position.)

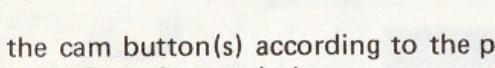


- ## 2. Turn on the power switch.

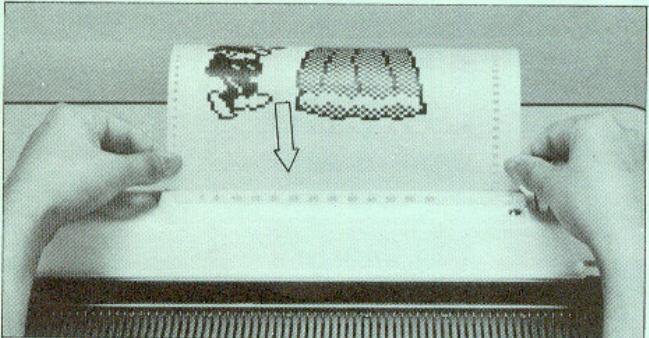


4. Enter the figure for the unravelled row and push the "CR" key.

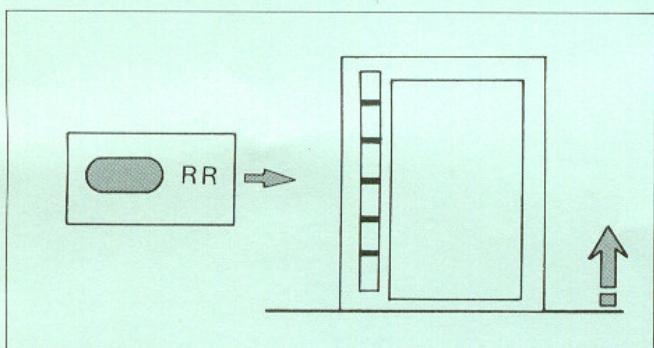


5. Set the change knob to "KC (I)" or "KC (II)" and push both "PART" buttons.

 7. Push the cam button(s) according to the pattern knitting and continue to knit.

C. If you moved the pattern card by mistake when the power switch is off. (For all pattern knitting)



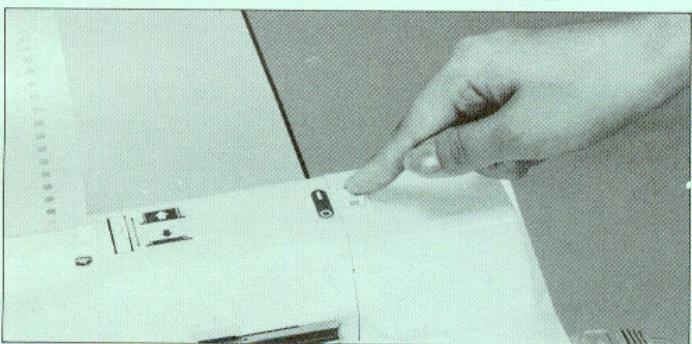
1. If the pattern card has been off the card inlet, insert it into the card inlet correctly.
Then, feed the pattern card to the proper position which can be read at the row number of the L window.



3. Enter the figure at the L window of the card inlet and push the "RR" key. (Pattern card is automatically returned to the correct position.)

D. If the power switch is cut off when the K carriage is outside of the swatch.

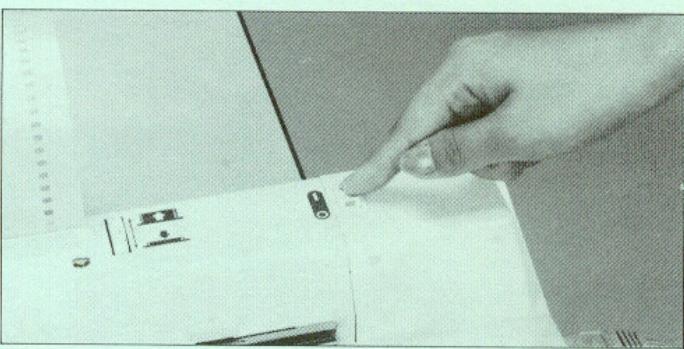
I. When the needle selection is broken.



1. Turn on the power switch.
2. Align all the needles in position B.
Enter "O" and push the "CR" key.
3. Set the change knob to "KC (I)" or "KC (II)" and push both "PART" buttons.

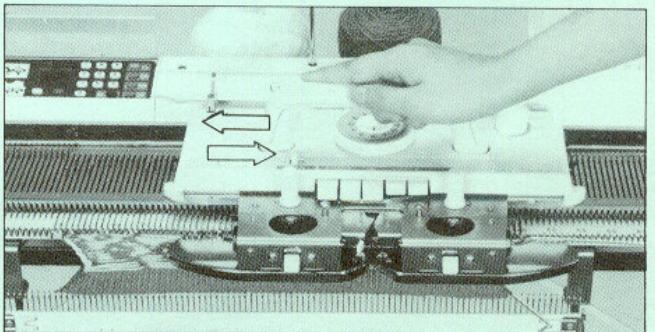
II. When the needle selection is not broken.

1. Turn on the power switch.
2. Move the K or L carriage to the outside of the "I C" or "I" mark and continue to knit.



2. Turn on the power switch.

4. Move the K or L carriage to the outside of the "I C" or "I" mark and continue to knit.



4. Move the K carriage from the outside of the "I C" or "I" mark to select the needles.
If you are setting the change knob at "KC (I)", push back both end needles to position B by hand after first row, then move the K carriage for one more row to select the needles.
5. Push the cam button(s) according to the pattern knitting and continue to knit.