



**INSTRUCTION BOOK**

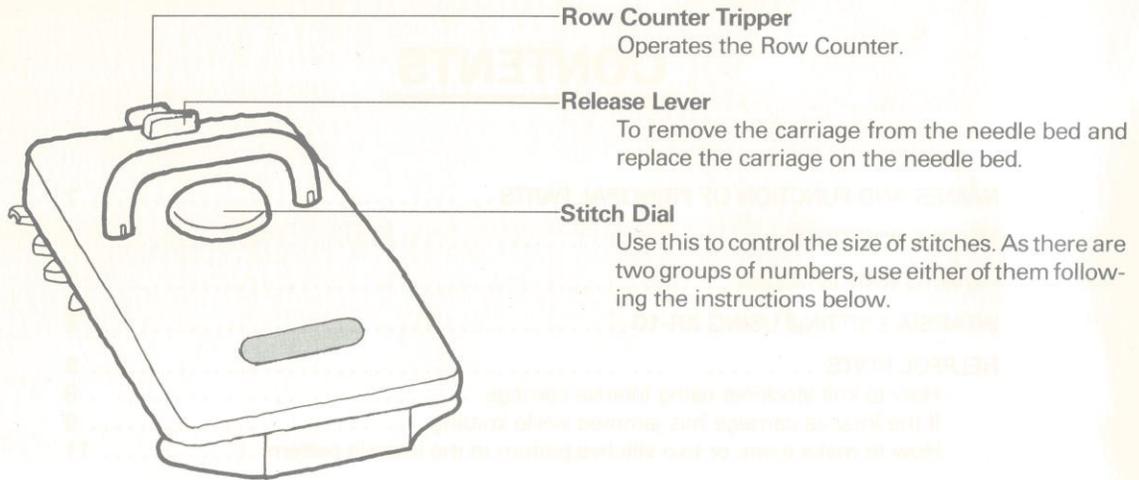
# NAMES AND FUNCTION OF PRINCIPAL PARTS

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# NAMES AND FUNCTION OF PRINCIPAL PARTS

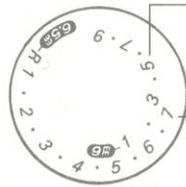
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**Row Counter Tripper**  
Operates the Row Counter.

**Release Lever**  
To remove the carriage from the needle bed and replace the carriage on the needle bed.

**Stitch Dial**  
Use this to control the size of stitches. As there are two groups of numbers, use either of them following the instructions below.

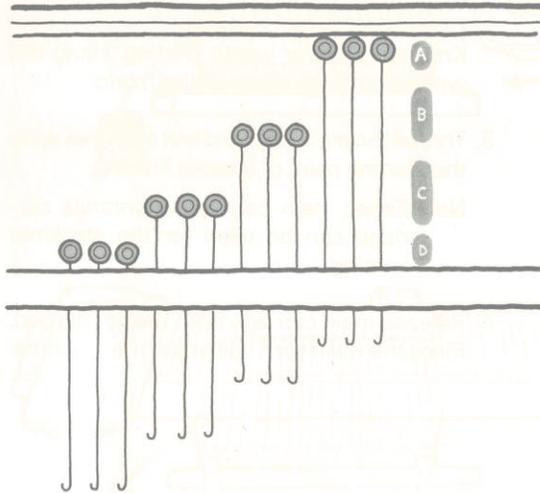


**Grey numbers (from 1 to 9)**  
For the machines whose needle pitch is 9.0mm, such as LK-100 (Zippy 90).

**Blue numbers (from R to 7)**  
For the machines whose needle pitch is 6.5mm, such as LK-140 (Zippy D.K.).

# NEEDLE POSITIONS

Needle position and its function when used with Intarsia carriage are as follows:—



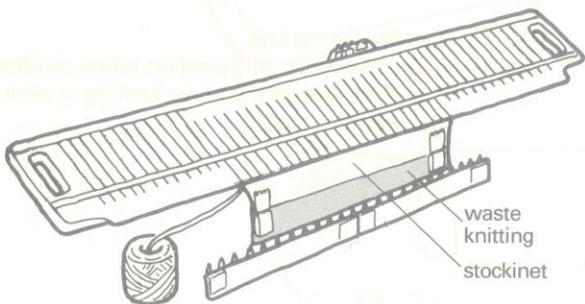
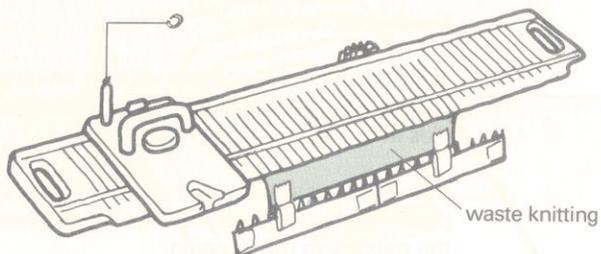
**A.....** Needles do not knit.

**B.....** Needles align in C position without knitting when Intarsia carriage moves over the needles in this position.

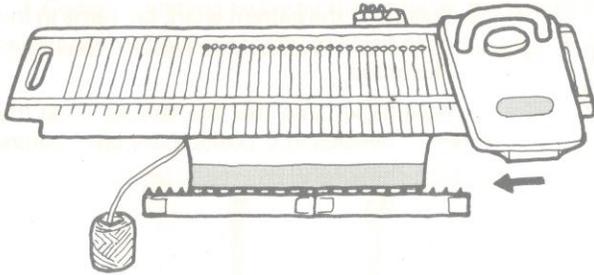
**C.....** Needles knit stockinet and always align in C position when Intarsia carriage moves over the needles in this position.

**D.....** Needles do not knit.  
Align needles in this position when moving the Intarsia carriage without knitting or working partial knitting.

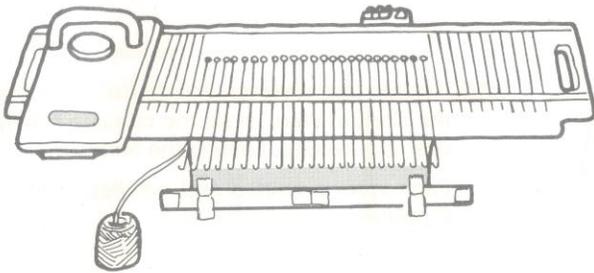
# HOW TO KNIT INTARSIA



1. According to the pattern chart, prepare the required number of yarn balls for each part sectioned in color.
2. Cast on with main carriage.  
Knit ten rows for waste knitting. Hang the weights on both edges of the fabric.
3. Thread the main yarn and knit stockinet up to the starting point of Intarsia knitting.  
Note: Either main carriage or Intarsia carriage can be used for the stockinet knitting.
4. Release main carriage from the needle bed.  
Place the main yarn ball under the machine.

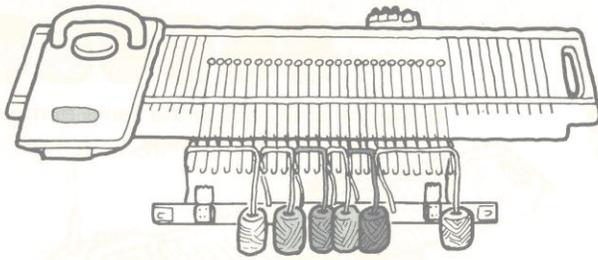


5. Place the Intarsia carriage on the opposite side of the yarn end.
6. Set the stitch dial to the same number as required for main carriage.



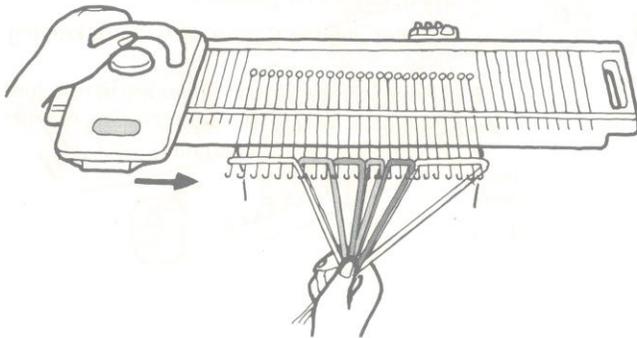
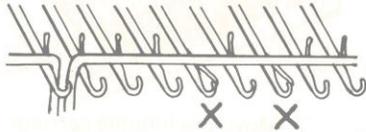
7. Move the Intarsia carriage slowly once over the needles in B position.  
Needles align in C position without knitting.
8. If Row Counter or Knit Radar are in use, feed them back for one row after aligning needles in C position without knitting.

# HOW TO KNIT INTARZIA



9. Following the pattern chart, lay yarns in the open hooks starting from the carriage side as illustrated.

Note: Make sure that the latches of all the needles in C position are open before laying yarns.

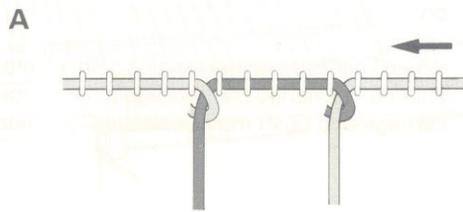


10. Holding the yarns down lightly to eliminate the slack of yarn, move the carriage slowly over the needles, knitting the first row.

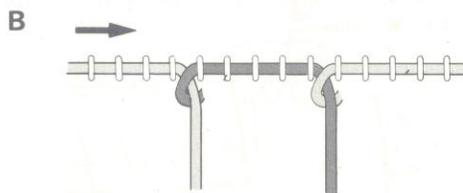
Each yarn is knitted and needles align in C position.

11. Continue knitting by laying the yarns in the needle hooks as done for the first row.

Note: To avoid separation of stitches at the edge of each colour yarn, twist yarns each other as follows:—

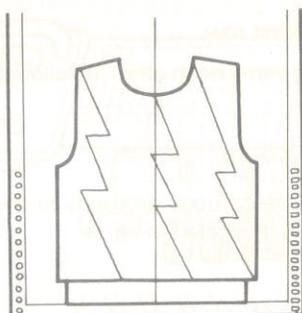


When the carriage proceeds to the left, twist yarns as illustrated in fig. A.



When the carriage proceeds to the right, twist yarns as illustrated in fig. B.

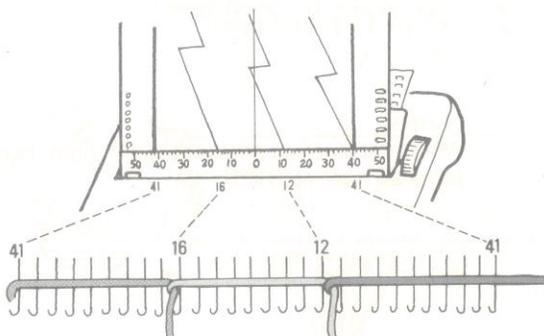
# INTARSIA KNITTING USING KR-10



Draw the pattern directly on the pattern paper.

Set the pattern paper in the knit radar and cast on.

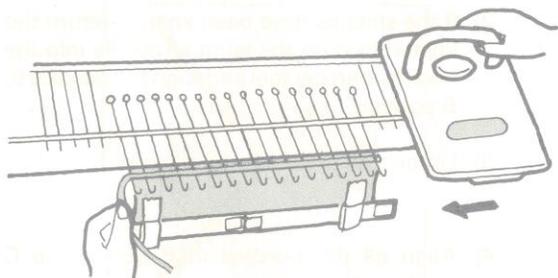
When knitting up to the starting point of Intarsia knitting, exchange the carriage for the Intarsia carriage and push the needles to C position.



Read the scale along the contour of each part sectioned in colour and according to the read number of stitch, lay the yarns in the hook of the needles.

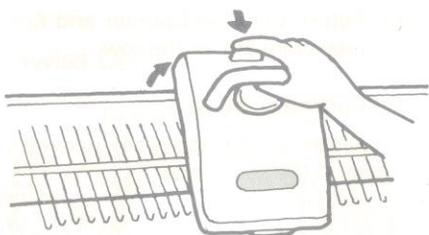
## HELPFUL HINTS

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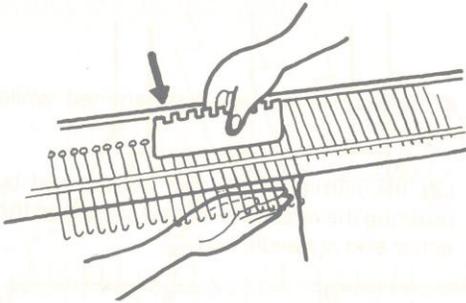
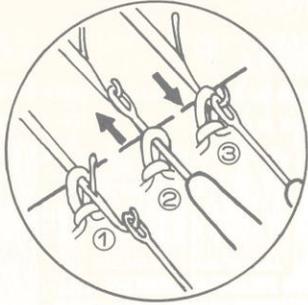
- ☆ How to knit stockinet using Intarsia carriage.

Lay the yarn in the hooks of all the needles in C position starting from the carriage side and move the carriage, knitting a row.

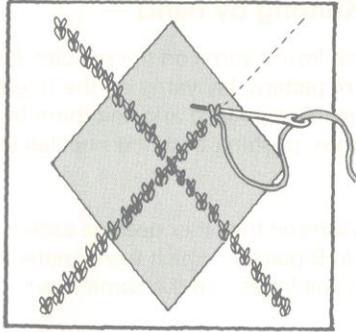


- ☆ If the Intarsia carriage has jammed while knitting.

- 1) Lift the carriage from the needle bed by pressing the release lever and place it on the either end of needle bed.



- 2) If the stitches have been knitted, return the knitted loop on the stem of needle into the hook by transfer tool and align the needles to B position.
- 3) Unravel all these knitted stitches.
- 4) Align all the needles in B position to C position.  
Note: Make sure that the latches of all the needles are open.
- 5) Return the Row Counter and Knit Radar if they were fed for the row.
- 6) Continue knitting.  
When knitted incorrectly, unravel the stitches in the same way.



☆ How to make a one or two stitches pattern in the Intarsia pattern.

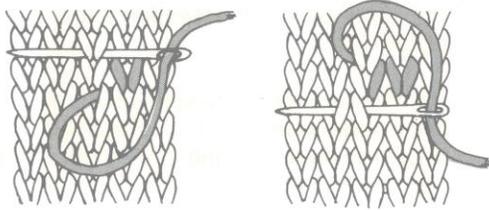
— **Swiss Darning** —

Knit main part of the Intarsia knitting except a few stitches pattern.

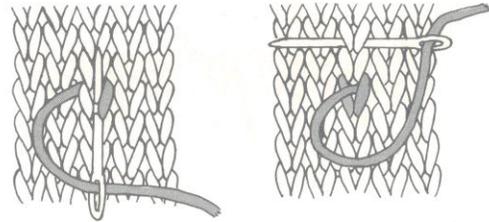
After removing the fabric from the machine, according to the pattern chart, Swiss Darn a few stitches pattern with a tapestry needle.

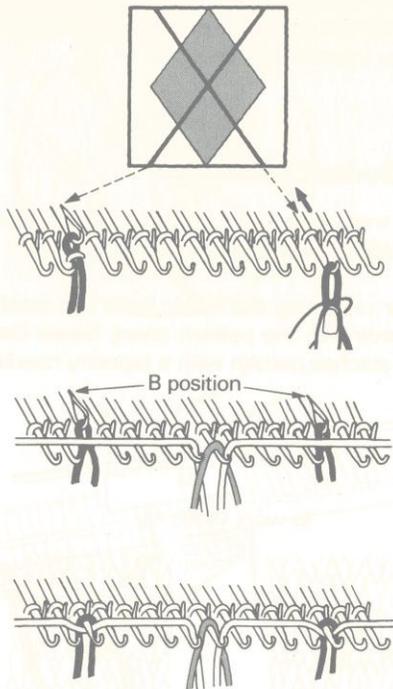
How to Swiss Darn

to work horizontally



to work vertically





— Knitting by hand —

Before laying yarns on the needles for a main part of pattern, lay yarns on the needles for a few stitches pattern and knit them by hand in advance, pushing back the needles to B position.

Lay yarns on the other needles except the needles in B position which were knitted by hand. Then knit Intarsia in the same way.

— Laying yarns under the needles —

Lay yarns on the needles for a few stitches pattern first.

Then lay yarns on the needles for a main part of pattern and under the needles for a few stitches pattern as illustrated and move the carriage.