

ELECTRONIC KNIT RADAR

KR10

INSTRUCTION BOOK

MEMORISING ROW GAUGE

PREPARATION FOR KNITTING

GARMENT KNITTING

HELPFUL HINTS

To confirm row gauge while knitting

If stop knitting for a while

If incorrectly knitted

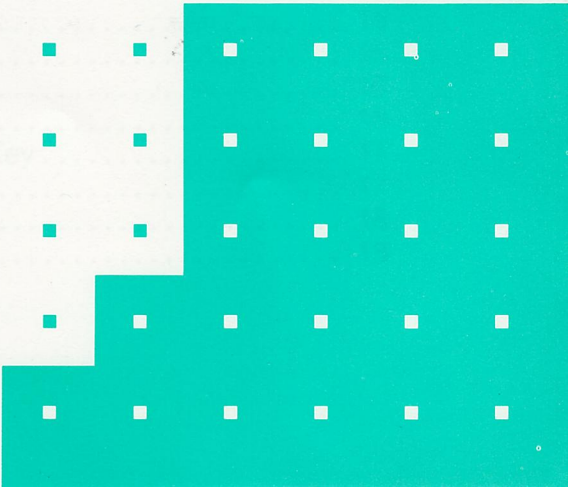
To stop row gauge reading

If pattern does not appear, set support while crossing Knit Key

To use the unit as a row gauge

When the unit is set to row gauge

If E appears in display

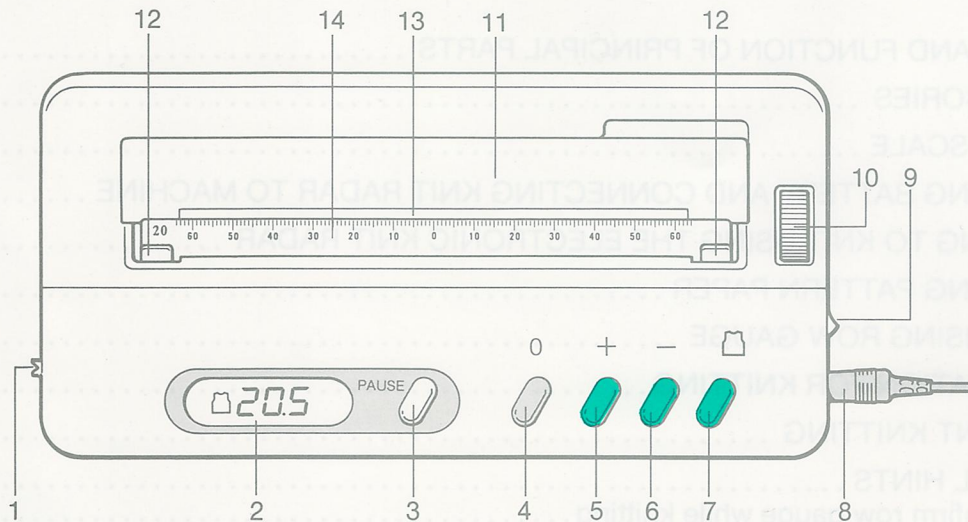


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# NAMES AND FUNCTION OF PRINCIPAL PARTS



1. Select Lever..... To set for 1/2 or 1/4 scale depending on the pattern used.
2. Display..... **00** Indicates row gauge.  
 Indicates rows knitted and covers up to 999 rows.  
 Indicates battery must be changed.
3. Pause Key..... To lock pattern paper feeding (number in display disappears)  
 To unlock pattern paper feeding (number appears in display)



# NAMES AND FUNCTION OF PRINCIPAL PARTS

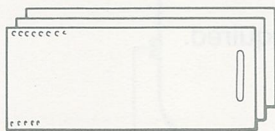
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4. Reset Key..... To reset row number to “0”.
5. Plus Key.....
  - a) To set number of rows measured on the tension swatch. Every time key is pressed number increases by 0.5 points e.g. 10.0, 10.5, 11.0, 11.5.
  - b) To transport pattern paper forward.
6. Minus Key.....
  - a) To reduce number of rows by 0.5 points if necessary.
  - b) To transport pattern paper backwards.
7. Set Key..... For setting and memorising number of rows required.
8. Connecting Cord..... To connect Knit Radar to machine.
9. ON/OFF Switch..... To switch unit ON or OFF.  
If unit is switched on, display shows “0”.
10. Feeding Dial..... To move pattern paper manually forward or backwards.
11. Paper Stand..... To hold pattern paper in position.
12. Clip..... To hold stitch scale in position.
13. Paper Slot..... To insert pattern paper.
14. Stitch Scale

# ACCESSORIES

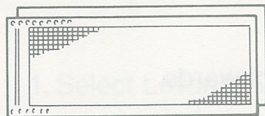


Connecting Cord: To connect Knit Radar to machine.



Knit Pattern Set: The following pattern styles are supplied.

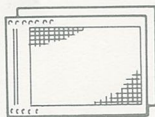
- 1) Lady's pullover 1/2 scale — use stitch scale h4-h14.
- 2) Lady's cardigan 1/2 scale — use stitch scale h4-h14.
- 3) Man's pullover 1/4 scale — use stitch scale Q1-Q6.
- 4) Child's cardigan 1/2 scale — use stitch scale h4-h14.



Blank Pattern Paper Set (1/2 scale, 3 pieces): To draw your own patterns.

Note: a) One small square on pattern paper equals 5mm. in actual size.

b) Use stitch scale h4-h14.

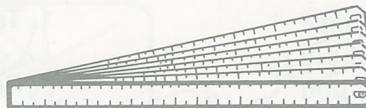


Blank Pattern Paper Set (1/4 scale, 3 pieces): To draw your own patterns.

Note: a) One small square on pattern paper equals 1cm. in actual size.

b) Use stitch scale Q1-Q6.

# STITCH SCALE



h4	h5	h6	h7	h8	h9	h10	h11	h12	h13	h14
15	17	19	21	23	27	31	35	39	43	47
15.5	17.5	19.5	21.5	24	28	32	36	40	44	48
16	18	20	22	25	29	33	37	41	45	49
16.5	18.5	20.5	22.5	26	30	34	38	42	46	50

Q1	Q2	Q3	Q4	Q5	Q6
9	11	13	15	17	19
9.5	11.5	13.5	15.5	17.5	19.5
10	12	14	16	18	20
10.5	12.5	14.5	16.5	18.5	20.5

1/2 Stitch Scale Set (11 pieces)

Scale marking h4-h14.  
("0" position on left side)

Stitch gauge between 15-50 stitches.

Note: These scales can only be used with 1/2 scale patterns and are mostly used when knitting with fine yarns.

1/4 Stitch Scale Set (6 pieces)

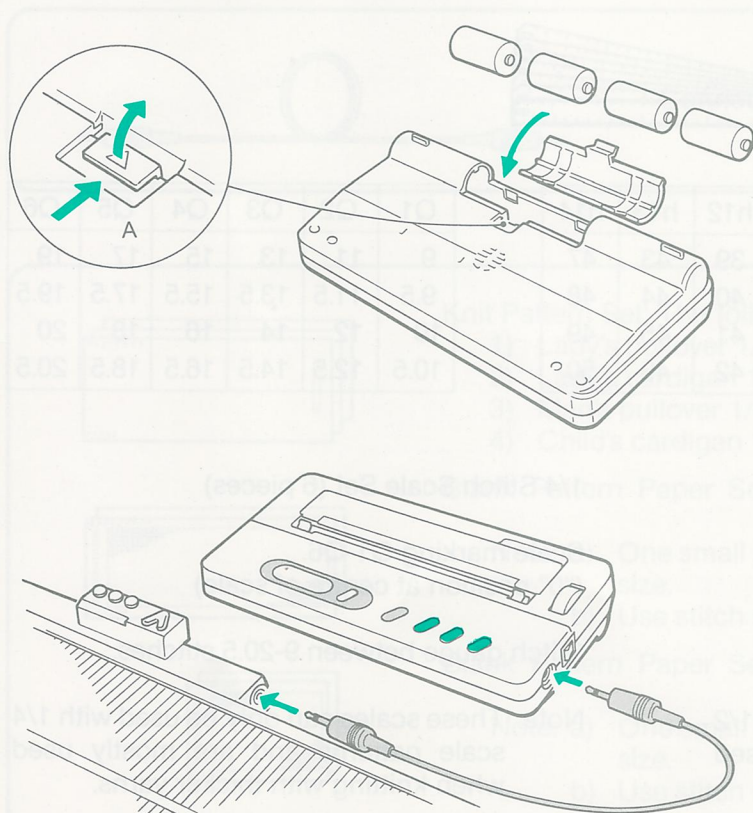
Scale marking Q1-Q6.  
("0" position at centre of scale)

Stitch gauge between 9-20.5 stitches.

Note: These scales can only be used with 1/4 scale patterns and are mostly used when knitting with thicker yarns.



# INSERTING BATTERY AND CONNECTING KNIT RADAR TO MACHINE

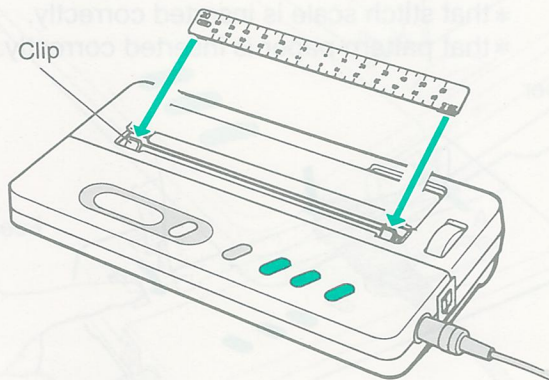
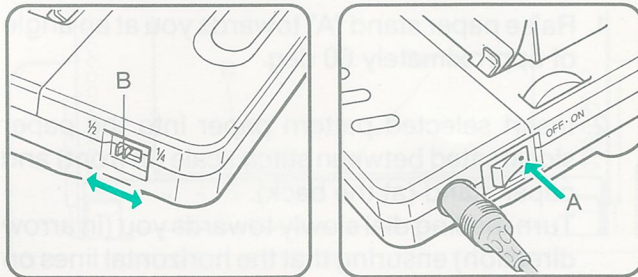


1. Turn Knit Radar upside down.
2. Remove battery lid by pushing lock "A" in arrow direction.
3. Insert 4 batteries in battery compartment. Ensure + sign on battery faces correct way.
4. Replace and lock battery lid.
5. Connect the plugs of the connecting cord to Knit Radar and machine.

**Note:**

As two plugs are identical, no special care need be taken when connecting Knit Radar to machine.

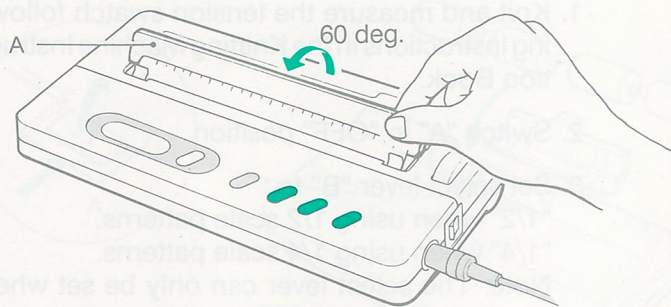
# STARTING TO KNIT USING THE ELECTRONIC KNIT RADAR



1. Knit and measure the tension switch following instructions in the Knitting Machine Instruction Book.
2. Switch "A" in "OFF" position.
3. Set select lever "B" to :  
"1/2" when using 1/2 scale patterns.  
"1/4" when using 1/4 scale patterns.  
Note: The select lever can only be set when switch is in "OFF" position.
4. Switch "A" in "ON" position.  
Display shows "0".
5. Select stitch scale with the number equal to that measured on tension switch.  
When using 1/2 scale patterns select from h4-h14 set.  
When using 1/4 scale patterns select from Q1-Q6 set.  
Insert the selected stitch scale with the number selected facing you into the clips.  
Push the stitch scale firmly into clip ensuring that scale is straight.



# INSERTING PATTERN PAPER

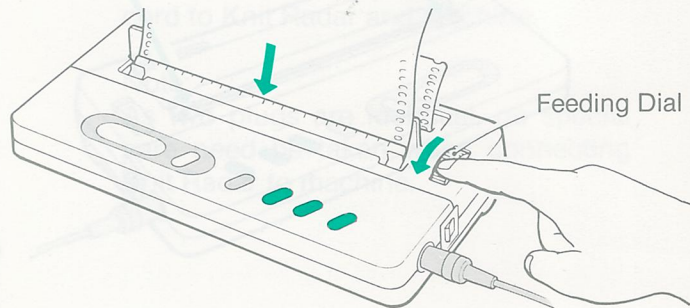
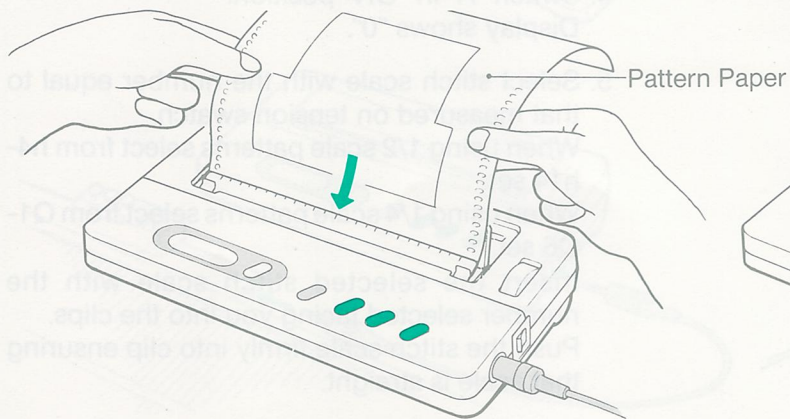


1. Raise paper stand "A" towards you at an angle of approximately 60 deg.

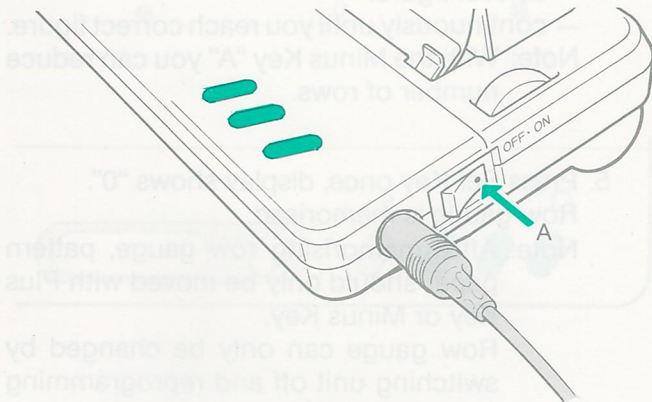
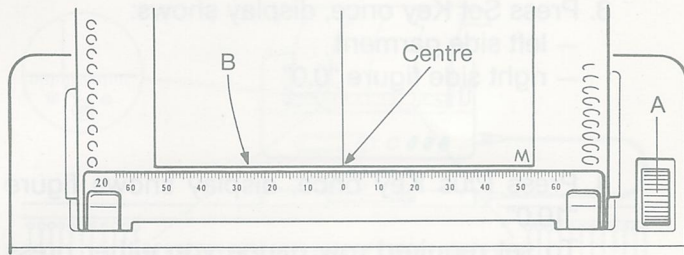
2. Insert selected pattern paper into the paper slot located between stitch scale (in front) and paper stand (at the back).

Turn feeding dial slowly towards you (in arrow direction) ensuring that the horizontal lines on pattern paper are parallel to the stitch scale. If horizontal lines are not parallel to the stitch scale, check

- \* that stitch scale is inserted correctly.
- \* that pattern paper is inserted correctly.



# INSERTING PATTERN PAPER

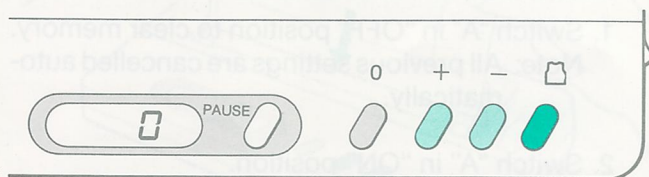
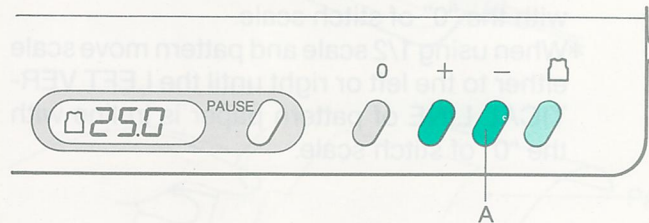
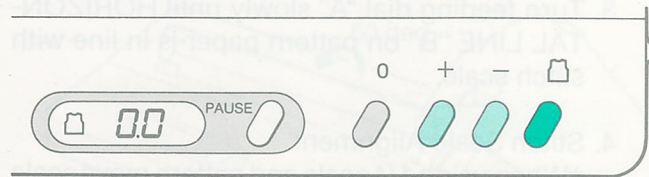


3. Turn feeding dial "A" slowly until HORIZONTAL LINE "B" on pattern paper is in line with stitch scale.
4. Stitch Scale Alignment.
  - \*When using 1/4 scale and pattern move scale either to the left or right until the CENTRE VERTICAL LINE of pattern paper is in line with the "0" of stitch scale.
  - \*When using 1/2 scale and pattern move scale either to the left or right until the LEFT VERTICAL LINE of pattern paper is in line with the "0" of stitch scale.

## MEMORISING ROW GAUGE

1. Switch "A" in "OFF" position to clear memory.  
Note: All previous settings are cancelled automatically.
2. Switch "A" in "ON" position.  
Display shows "0".

# MEMORISING ROW GAUGE



3. Press Set Key once, display shows:

- left side garment
- right side figure “0.0”

4. Press Plus Key once, display shows figure “10.0”.

To set required row gauge you either press key

- as many times as required until you reach correct figure.
- continuously until you reach correct figure.

Note: With the Minus Key “A” you can reduce number of rows.

5. Press Set Key once, display shows “0”.

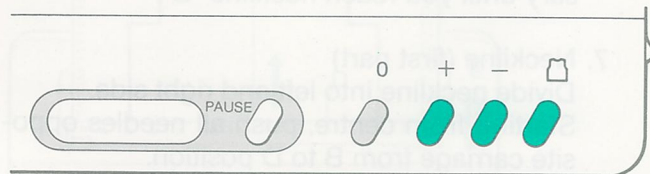
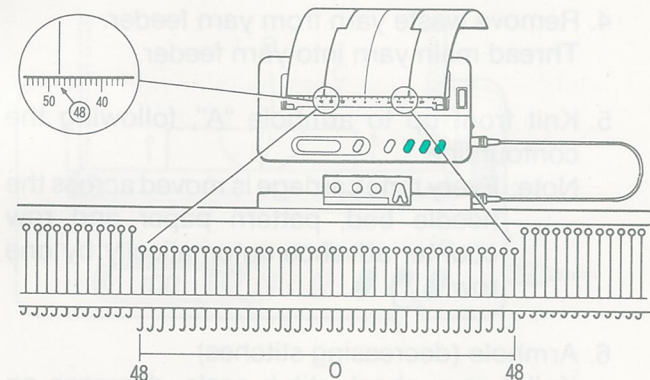
Row gauge is memorised.

Note: After memorising row gauge, pattern paper should only be moved with Plus Key or Minus Key.

Row gauge can only be changed by switching unit off and reprogramming starting from step 1.



# PREPARATION FOR KNITTING



## 1. Reading the contour line

Read the number of stitches required, for cast-on, off the stitch scale where the vertical contour line meets the stitch scale line.

Depending on stitch scale reading, push required number of needles on both sides of centre "0" on needle bed to B position.

Note: Should the vertical contour line come between two lines on scale, always take the higher number.

## 2. Waste Knitting

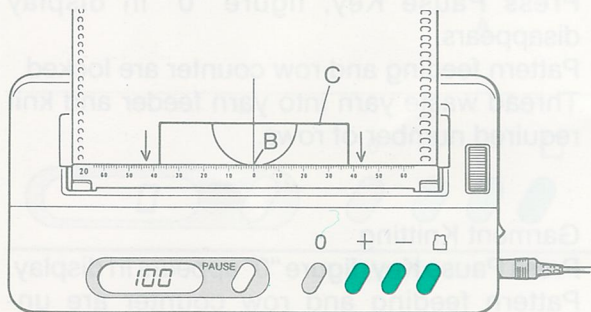
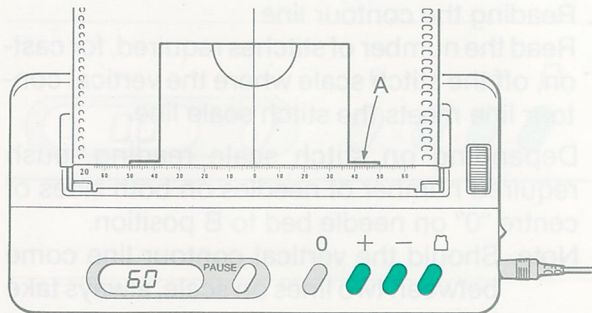
Press Pause Key, figure "0" in display disappears.

Pattern feeding and row counter are locked. Thread waste yarn into yarn feeder and knit required number of rows.

## 3. Garment Knitting

Press Pause Key, figure "0" appears in display. Pattern feeding and row counter are unlocked.

# GARMENT KNITTING



4. Remove waste yarn from yarn feeder.  
Thread main yarn into yarn feeder.

5. Knit front up to armhole "A", following the contour line.

Note: Every time carriage is moved across the needle bed, pattern paper and row counter advance automatically by one row.

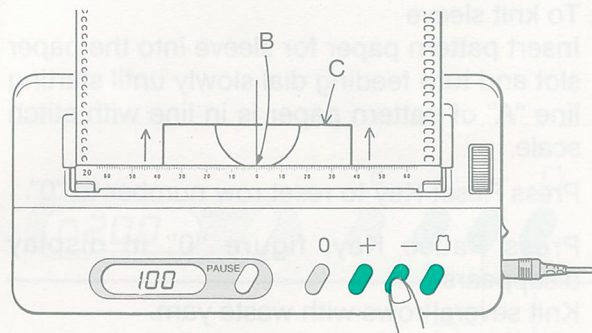
6. Armhole (decreasing stitches)  
Knit 1 row, check stitch scale, decrease on carriage side required number of stitches.  
Continue to knit and decrease where necessary until you reach neckline "B".

7. Neckline (first part)  
Divide neckline into left and right side.  
Starting from centre, push all needles opposite carriage from B to D position.  
Set the russel lever on carriage to I.

Continue to knit first part of neckline and decrease where necessary until you reach shoulder line "C".

Cast off with waste yarn.

# GARMENT KNITTING



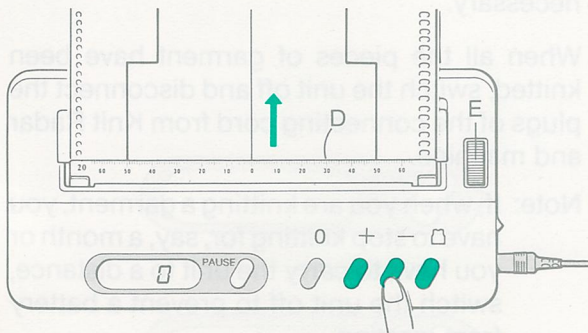
## 8. Neckline (second part)

Press Minus Key and return pattern paper to the beginning of neckline "B".

Knit second part of neckline decreasing where necessary until you reach shoulder line "C". Cast off with waste yarn.

Note: Any position on the pattern can be programmed by pressing Set Key and Minus Key simultaneously.

Press Minus Key to return pattern paper and it stops at the programmed position automatically.



## 9. To knit back.

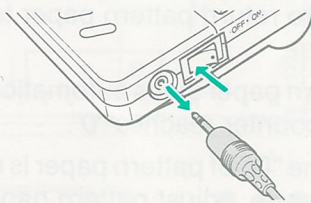
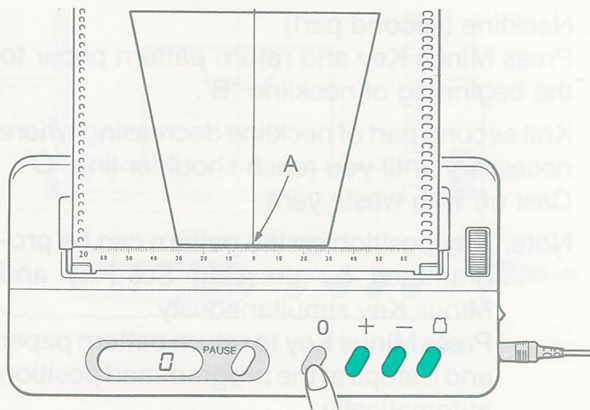
If same pattern is used as for front, press Minus Key to return pattern paper to starting line "D".

Note: Pattern paper stops automatically when row counter reaches "0".

If starting line "D" of pattern paper is not in line with stitch scale, adjust pattern paper manually using feeding dial "E".



# GARMENT KNITTING



## 10. To knit sleeve

Insert pattern paper for sleeve into the paper slot and turn feeding dial slowly until starting line "A" of pattern paper is in line with stitch scale.

Press Reset Key to reset row number to "0".

Press Pause Key, figure "0" in display disappears.

Knit several rows with waste yarn.

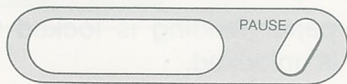
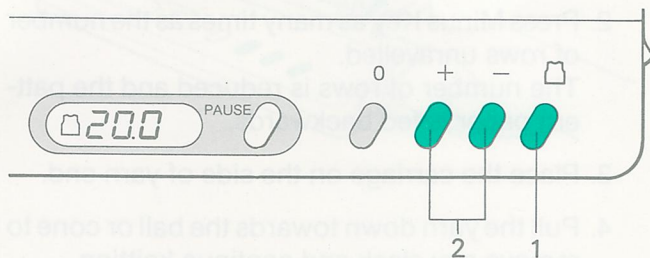
Press Pause Key, figure "0" appears in display.

Knit sleeve with main yarn, increasing where necessary.

11. When all the pieces of garment have been knitted, switch the unit off and disconnect the plugs of the connecting cord from Knit Radar and machine.

Note: If, when you are knitting a garment, you have to stop knitting for, say, a month or you have to carry the unit to a distance, switch the unit off to prevent a battery from wasting.

# HELPFUL HINTS



## TO CONFIRM ROW GAUGE WHILE KNITTING

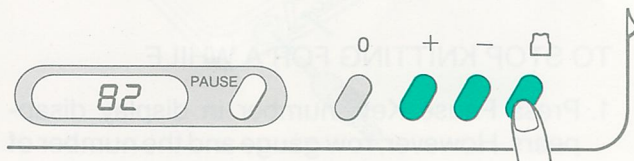
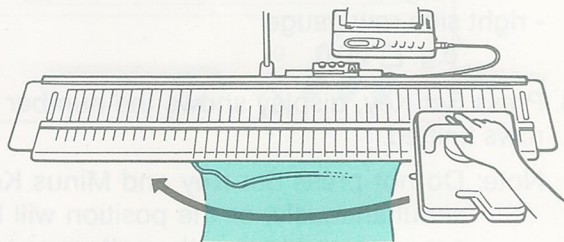
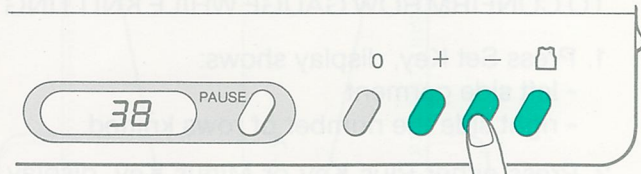
1. Press Set Key, display shows:
  - left side garment
  - right side the number of rows knitted.
2. Press either Plus Key or Minus Key, display shows:
  - left side garment
  - right side row gauge
  - e.g. □ 20.0.
3. Press Set Key, display shows the number of rows knitted.

Note: Do not press Set Key and Minus Key simultaneously, or the position will be programmed to stop the pattern paper. (see P.13)

## TO STOP KNITTING FOR A WHILE

1. Press Pause Key, number in display disappears. However, row gauge and the number of rows knitted are still memorised.
2. To start knitting again press Pause Key, display shows the number of rows knitted.

# HELPFUL HINTS



## IF INCORRECTLY KNITTED

1. Unravel the incorrectly knitted rows.
2. Press Minus Key as many times as the number of rows unravelled.  
The number of rows is reduced and the pattern paper is fed backwards.
3. Place the carriage on the side of yarn end.
4. Pull the yarn down towards the ball or cone to remove any slack and continue knitting.

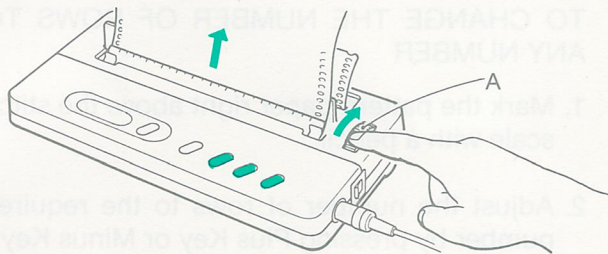
## TO STOP PATTERN PAPER FEEDING ONLY

1. Press Stop Key, display shows:
  - left side garment
  - right side the number of rows knittedPattern paper feeding is locked while row counter is unlocked.

Note: If you have to carry the unit while knitting, disconnect the plugs of connecting cord from Knit Radar and machine. Row gauge and the number of rows knitted are memorised.

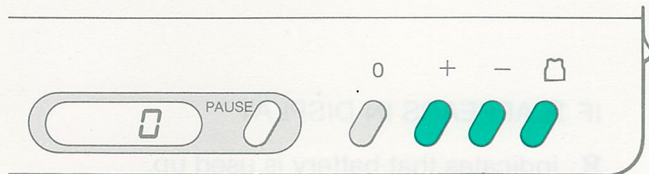


# HELPFUL HINTS



## IF PATTERN PAPER FEEDING GET STOPPED WHILE PRESSING MINUS KEY

Adjust pattern paper manually by turning feeding dial "A".



## TO USE THE UNIT AS A ROW COUNTER

1. Memorise any row gauge. (see P.9 ~ 10)

2. Start knitting.

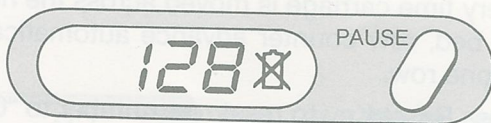
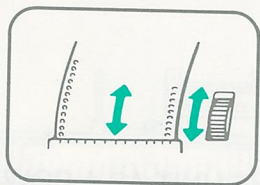
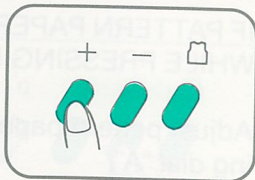
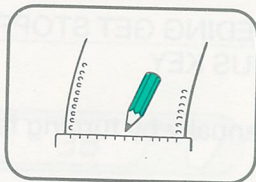
Every time carriage is moved across the needle bed, row counter advance automatically by one row.

Press Reset Key to reset row number to "0".

Press Plus Key to increase number of rows.

Press Minus Key to reduce number of rows.



# HELPFUL HINTS



## TO CHANGE THE NUMBER OF ROWS TO ANY NUMBER

1. Mark the pattern paper right above the stitch scale with a pencil.
2. Adjust the number of rows to the required number by pressing Plus Key or Minus Key.
3. As the pattern paper is fed by the same number of rows as are adjusted, return it to the marked position manually by turning feeding dial.

## IF APPEARS IN DISPLAY

 indicates that battery is used up. However, you can knit approximately one sweater after  appears in display.

MEMO

MEMO