# HOW TO USE KNITTING CRLCULATOR



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#### CAUTION -

#### Do not use or leave the calculator:

- · In direct or strong sunlight.
- · Close to a hot object such as a heater.
- · In humid or dusty places.
- Close the lid when you are not using the calculator.
- Do not give the calculator a shock such as dropping or hitting it.
- Clean the calculator with a soft, dry cloth.
  - \*Do not use water or volatile liquids such as benzine or thinners.

FRONT PANEL Sections of Patterns shown with alphabetical signs A,B,C, ... K,L are called MODE.

#### DIGITAL INDICATOR DISPLAY

MODE SELECTOR BUTTONS These buttons select signs in alphabetical order A,B,C, ... K,L for picking sections of Patterns.

- Forward
- Backwards

#### CLEAR BUTTON

Push this button to eliminate any incorrect numeral value which was mistakenly put in.

ALL CLEAR BUTTON All present calculations are released and put back to the original position with this button.

## NAME AND FUNCTION OF CONTROLS















In this example, enter the number in cm. (Ex. (1) (8) )





Check display window. Press m then S. The display shows as below.





The display shows that the width of neckline should be 32 stitches which is equal to 18cm long. Record the figures as shown above.



Press the "UP" arrow button. C + 2 7.7 Now you can obtain the length of the curve in cm. Ln = Length



The depth of neckline is 20 rows corresponding to 8.5cm. \*Please note the calculator will always work to an even number of rows when you enter the depth in rows.









#### Press mode selector button to MODE D.



In this example, enter the number in stitches and rows. Enter shoulder width.

(Ex. 2 0 S)









\*Please note the calculator will always work to an even number of rows in this type of situation. For example if you enter 9 rows the calculator will read 10—this will give an even finish to your work.









You may also enter the shoulder width and height in cm at MODE D instead of stitches and rows, as you did at MODE C.



#### MODE G



#### MODE H













When you wish to reset press the (C) button.

#### HOW TO CALCULATE THE CORRECT STITCHES AND ROWS FOR PULLOVER

Let us try to compute the dimensions of the pullover below. We will use the following stitch gauge (tension): 16sts, 22rows = 10cm



#### **1** ON-OFF SWITCH

Turn On-Off switch to ON. Set the indicator opposite 2 using the change over switch.

#### **2** GAUGE (TENSION)

Press the following buttons. (1) (6) (S) (2) (2) (R) in that order.

The alphabetical modes from A to L appears on the left side of the display.



If the armhole is standard press the "UP" arrow button NOT the numbered buttons.



Continue pressing the "UP" arrow button and write down the figures on your pattern chart. It is possible to go back one step while the "UP/DOWN" arrow is on the display.



Armhole consists of 20 rows for a curved line and another 20 rows for a straight line. Write in the total height of armhole as 26 rows even by adding a straight 20 rows to the 6 rows even.



#### REMARKS

Press the C button to correct entries. If you find a mistake after pressing any of the following buttons, S, R,  $\Huge{Cm}$  to correct press either mode selector buttons and start again. If you press the RCbutton by mistake you lose your stitch gauge (tension).



 BACK NECK LINE Set to MODE F. Press the "UP" arrow button and calculate the dimension of the back neckline after pressing the following seven buttons 1 8 m S 2
m R in order. Write the result on the pattern chart.





#### 4 CALCULATIONS OF DIMENSIONS FOR FRONT

The body width, side height, armhole height, length of waist band and shoulder slant are all computed in the same way as the back body.

#### **(1) FRONT ARMHOLE SHAPE**

Calculation is exactly the same as for the back armhole shape. Write the last computation as 4 rows even plus 26 rows, making a total of 30 rows even (straight up). Armhole curve is 10.4 cm long. Calculate the total length of front armhole as follows; 17.5cm - 6cm = 11.5 cm 11.5cm + 10.4cm = 21.9cm





#### ② FRONT NECKLINE

Set at MODE H by pressing the mode selector buttons. As the back neckline is 29 stitches wide, the number of stitches is 14 (by dividing 28 by 2 after deducting 1 stitch at the center of neckline). The height of the neck line is 46 rows. (46 = 40 (armhole height) plus 6 (shoulder slant height) ) Push the following six buttons (1) (4) (S) (4) (6) (R).



Press the "UP" arrow button three times for calculation of stitches and rows. The readout is as follow. 1-2-6, 1-4-8 and 2 rows even. Add one stitch for the center of neckline on the pattern so as not to forget it.



#### 5 HOW TO COMPUTE SLEEVE

#### **1 HEIGHT OF SLEEVE CAP**

Use the length of front armhole, 21.9cm plus 1/2 the sleeve width, 18cm.

Set to MODE K and press the following eight buttons, (2) (1)  $(\bullet)$  (9) (m) (1) (8) (m) in order. The display will show 12.5cm as the height of the cap.



#### **② SHAPE OF SLEEVE CAP**

Set to MODE L. Push the following 10 buttons. (1) (8) (m) (S) (1) (2) (5) (m) (R) in order. The "UP" arrow appears on display window. Press "UP" arrow button. Write results on the pattern chart.



#### **③ UNDERARM**

To obtain length deduct cuff and sleeve cap. 52cm - 12.5 cm - 6 cm = 33.5cm. Set to MODE H. Press the following buttons (4) (m) (S) (3) (3) (•) (5) (m) (R) in order. Press "UP" arrow button and record figures.

#### **(4) LOWER SLEEVE WIDTH**

Using figures obtained from 5-2 and 5-3, 29 stitches -6 stitches = 23 stitches.



- (5) SLEEVE CUFF WIDTH Set to MODE A. Press the following 3 buttons (9) (m) (S). Shows 14 stitches.
- SLEEVE CUFF HEIGHT Set to MODE A. Press the following 3 buttons (6) (m) (R). Shows 14 rows.

#### 6 DECREASING EVENLY (SLEEVE CUFF)

Use the number of stitches of lower sleeve width, 46 (23sts.  $\times$  2) plus the sleeve cuff width, 28 (14sts.  $\times$  2). Set to MODE B. Press the following buttons (4) (6) (S) (2) (8) (S). Press the "UP" arrow button and record figures.

This concludes the computations for a pullover. From this example you can recognize that the calculator is a very convenient and easy way to accurately compute measurements.

(Ex.) gauge (tension): 16sts, 22rows = 10cm



14 c (23 sts.) 9 c (14 sts.)



This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and televisions reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Relocate the computer with respect to the receiver

Move the computer away from the receiver

Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC20402, Stock No.004-000-00345-4.

