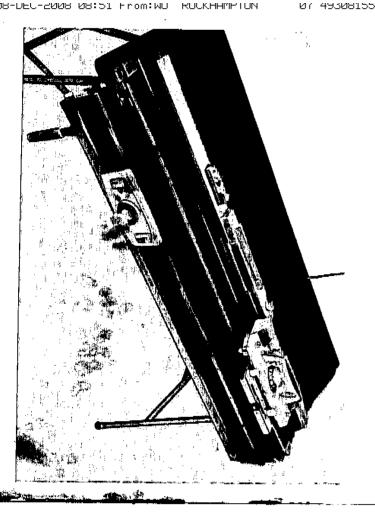
We thank you very much for your buying our SINGER Rib

corn pattern, herring bone swing, pin tuck, variation knitting. make it easy to make many elaborate patterns such as 1Knit confident that it will give you full and complete satisfaction. Purl rib, couble rib, 2Kart 2Purl rib, and also English rib, pop painstaxing efforts in research and development and we are The new set-lever system and the improved swinging device SINGER Rib Knitter is the fruit of our technical staff's

greater delight in your knitting work ble SINGER Rib Knitter for many and many years and find a We hope that you will use the highly versatile and dependa-



SALIENT FEATURES OF SINGER RIB KNITTER

Operational Features

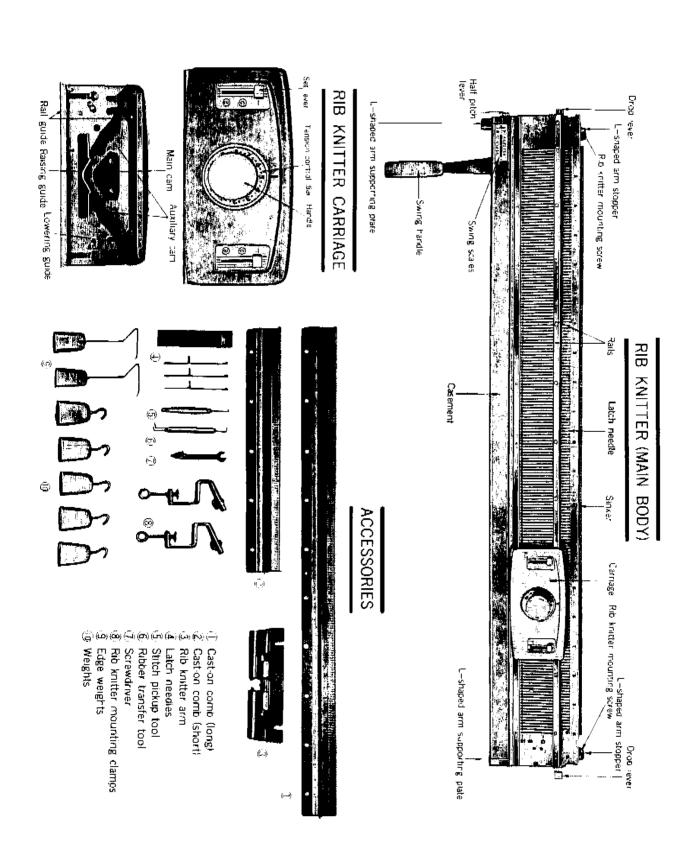
- Set levers make it possible to automatically remove the yarn from the latches of the needles simply by moving the carriage so that various elaborate patterns can be knit with great efficiency.
- operation of the swing, swinging, eliminating the possibility of making an error in the Swing scale clearly show the number of rows and the direction of
- If the drop levers is pushed down, the rib knitter will be lowered detaching the rib knitter. It is also very convenient when you pick up dropped stitches. two centimeters so that you can work the main machine without
- bed so that it may be very easy to find where the needles are The needle positions $(A_{\rm tot}(B))$ and (C) are engraved on the needle
- will be placed opposite the rib knitter needles simply by setting Half picth lever makes pitch setting very easy with the rib knitter needles by setting the same lever to (H). the half pitch lever to (P) and the sinker needles will be staggered The sinker needles

Constructional Features

- knitting. The swing scales clearly show the number of swing rows. The swing handle has six settings to give a great variety to pattern
- The sinker needles are made in U-shaped steel wire so that they mage to the yarn to be knit on the machine. may be smooth enough to eliminate the possibility of causing da-
- A leaf spring is used for the needle brake. It is very strong and the the carriage to knit fabric. needies will be neid stable no matter how fast you may operate
- clearance is maintained between the main machine and rib knitter A damaged needle can be easily replaced simply by pulling out the Since the Lishaped arm is provided with a stopper, a constant needle retainer band without removing the fabric from the knitting

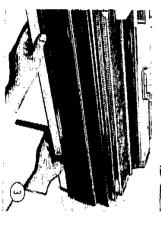
and it is very easy to install the rib knitter onto the main machine

and detach it



CONTENTS

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«5» Variation swifig
★ 2Knit 1Purl rib
≪ 3 ≫ 2Krut 2Purl rib
: :
. 4 : Herring bone swing
. 3 . Pop com pattern
12 Swing English rib
}
* 2 > Double rib
_ d
Instr
r transier 100
. Edge weights
ı į i Castion combi.
3. Accessories
r.6. Drop lever 9
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Half pitch lever
ontrol dial
of rib knitter needles
nowledge of Rib Knitt Knowler Operation
1. Setting up 3
· ·

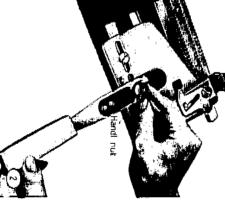


How to replace damaged needle ...

w

with the front edge of the needle L-arm stopoers come into contact the main machine as far as the

bed. (Phto.3)



Make sure that the carriage is Maunt the rib knitter to the main

unlocked.

fitted to both ends of the rib Place both L-arm supporting plates screws and vinyl washers from the Remove the rib knitter mounting Learms into the rib knitter slots on knitter on the table and insert the L-shaped arms on both sides.

SETTING UP



TO:UEEWR Righthax

Mount the knitting machine on the

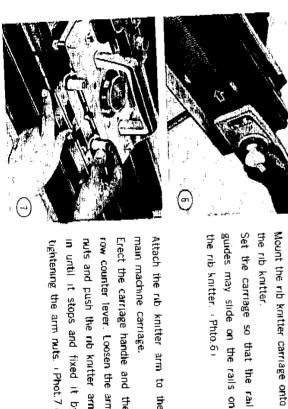
machine and hold the machine seclamps on the back of the main the screws of the clamps. curely on the table by tightening Fasten a pair of the accessory

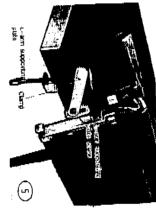
clamps) (Plato. L) Be sure to use the accessory

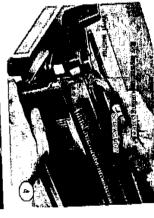
back of the rib knitter. Install the swing handle ಕ Ħe

Remove the swing handle nut, set replace the nut and tighten it the handle in place by aligning the firmly. (Phto.2) hole in the handle with the pin,

@







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down until it is parallel to the screw, move the Larm up and Loosen the L-arm aupporting plate surface of the table and then fix supporting plate, iPhto.51 tighten the screw of the Liarm the accessory clamp, and finally the Larm to the table with one of

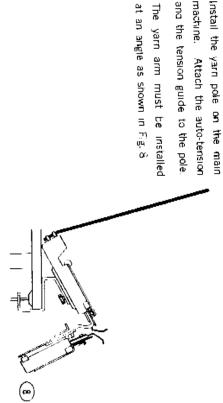
Install the hand to the rib knitter

Attach the rib knitter arm to the

main machine carriage. nuts and push the rib knitter arm Erect the carriage handle and in until it stops and fixed it by row counter lever. Loosen the arm tightening the arm nuts. (Phot.7) ŧ

to securely fasten the rib knitter en the screws with a screwdriver knitter mounting screws and tight-Replace the vinyl washers and rib machine Phto.4 the needle bed of the main

> and the tension guide to the pole machine. Attach the auto-tension at an angle as shown in Fig. 8 The yarn arm must be installed



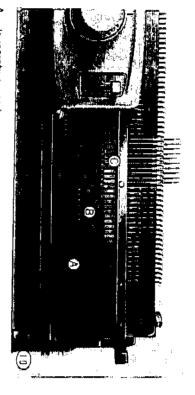
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BASIC KNOWLEDGE OF RIB KNITTER OPERATION

Position of the rib knitter needle

10 The rib knitter needles are used at the three positions, A ${\mathbb B}$ and ${\mathbb C}$ Photo



Hi∪perative position

The needles are in their lowest position.

The carriage remains inoperative rno knitting.

B... The needle butts are approximately 2cm up from "A" position. Push up a required number of needles to this position when you start

Ö

goes behind latches without making stitches. When the yarn is caught inside the hook, stitches are made or loose yarn The needles butts are approximately 3cm up from "A" position. and left-hands sides; have three Both set levers con the right-hand 2) Set lever



B. (Phto.II) positions marked with -. C and

use these set levers. The following chart shows how to

(How to use the set levers) (When the carriage is moved from left to right)

icn:	(D).	(cci)	(C)	ens.	IC1.		Ĉ		Left Right	Positions of
	*	•		*	Non uniting, yero goes benind lapthes, and nee- des dome to (f. pos- hon,	whit and come to a gostion	Kirl and come to § position.	Kink and come to coposition.	i(¬)	Positions
Tanning designations archites and meedles come to \$100,000 position	Tarn goes beautifatories, and needles come to finds hori	Non-affecting and come to \$ cosition	Year goes beautiful laters and needles come to construct.	Norvaiteding and come to Brighstion	Tarri goes penind atch- es, and needles come to 5 position	Montafeating and come to a position	Non-knitting, yarn goes benard lattines, and move to 3 position	Mon-knitting jam gaes behand lattnes land moved to flatos tran	نعا	Positions of needles
	Partial voiling	ಗರ್ಷ ಒಂಚು kn:tt:ng		English to Swing English to Herning cone twing	Partial enting	bubular kentang sepadah pattern pattern set Louis kentang		Implier rooms double ro Implier rooms Implier rooms	7	4 :s: (-4 : -

(3) Tension Dial (Stich Adjusting Dial)

main machine and the rib knitter. to the thickness of the yarn used. The tension dial has graduations from 0 to 10. Select a dial setting suitable Use the same tension dial setting on the

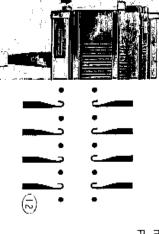
(Standard dial settings for different sizes of yarns

Heavy weight	Medium weight	Light weight	Type of yarn
7 - 8	5 - 6	F-3	1 knit l purl
	5 - 6	3 - 4	Double
00	6 - 7	.ta. - 	2 kmit 2 purl
6 – 8	5 – 6	2 – 3	Circular

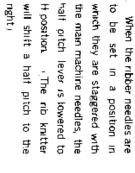
٧,

4) Half pitch lever

This lever is used to set the ribber needles right in front of the main machine needles or to stagger them in between the main machine needles. This lever has two positions, P and H.



P...When the ribber needles are to be set right in front of the main machine needles as in the case of I Knit I Purl knit ting, the half pitch lever is raised to P position. (Fig.12). The swing index indicates the numbers in P position i upper row...



The index indicates the numbers in Hiposition (lower row).



Pitch means the distance between

The swing handle is used to swing the ribber lengthwise for knitting "swing patterns" such as "herring bone". "web" etc. rPhoto.14;

00

The swing handle can de moved over the range of six graduations from 0 to 6 on the scale. The swing index is usually set to 3 in the center of the scale. When the half pitch lever is set in P position, the index indicates the numbers in P position.

When the half pitch lever is in H position, the swing index indicates the numbers in H position. (Fig.16)

The number indicated by the swing index shows the number of swing rows.



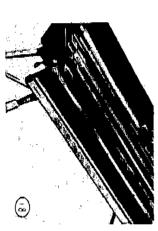


6 Drop lever



Push down the drop levers located at both ends of the rib knitter and the main body of the rib knitter is sowered about 2 centimeters.

Photo .17



The rip knitter is set in this lowered position when the knit fabric is set on the main machine with the rib knitter attached or when only the main machine is operated or when dropped stitches are picked up.

Photo, 18

To return the rib knitter to its original position, simply push it up and it will easily click back into its former position.

j o

1

ACCESSORIES

Cast-on comb

to 100 stricties. Use either of them according to the number of stricties desired. The long comb is used to make statches up to 200 while the short comb up

(2) Weights

balanced and remain in a horizontal position. to be knitted. The more stitches you knit the more weight are needed. Hang the weights from their holes in the cast-on comb so that it may be well There are five weights provided for use according to the number of stitches

(KThe standard numbers of weights for different numbers of strickes)

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80-120	4 C - 8 C	Jp to 40	Number of stitches
5 44	w	1.0		Weights
- :			FO	Edge weights

Θ There are two edge weights

edges of the knitted fabric by putling and the rib knitter (Fig.19) Which are used for weighing down both ught by the needles of the main machine the hanger over the yarn alternately ca



ce both edge weights. As you knit on (20 to 30 rows), advan-

$\widehat{\mathfrak{L}}$ Ribber transfer tool

This tool is used to pick up dropped stitches or to transfer the stitches.

9 Hook tool

This is to pick up dropped stitches or to transfer stitches.

- 10 -

KNITTING INSTRUCTIONS

(1) 1 Knit 1 Purl Knit



make a soft and elastic fabric. ning on both sides of the fabric. These stitches needles are used alternatery. This elastic fabric The main machine needles and the rib knitter This is the most rypical form of ribbed stitches has knit and pur stitches on alternate rows run-

Shown in the figure is the ribbing in medium weight yarn.

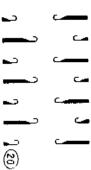
\Box Bound off cast on.

Pitch setting

Set the half pitch lever to P.

Needle arrangement

- Pull out every other needles as many as the desired stitches on the main machine to B position.
- (b) On the rib knitter, move every other with the main machine needles that manner in which they will be staggered have previously been pulled out. needles up to 8 position in
- (Note) Mare sure that both of the end pulled out. (Fig. 20) needles on the main machine are



9 Carriage setting

Tension control dial1	Set lever Left	<rib carriage="" knitter=""></rib>
of dial 1	11	age>

and leave it on the left side of the Move the carriage back and forth two or three times to align the needles

5	
o. 5	0
Ë	(2)
(Fig. 21)	

position with their latches ope

- = -

The needles are now aligned

Wove the carriage back and forth two or three times and leave it on the left side of the needle bed. Now the needles are aligned in B	1 • · · · · · · · · ·
	ockinet enter (Blue) on both sides (Stockinet card is used)

position with their latches open. Threading

Fig 22:

a. Move the main machine's carriage from left to right. Fig. go down between the main machine and the rib knitter

(The yarn is hocked zigzag alternately by the main machine

and 댦

2

knitter needles. i - Fig. 24

rriage from left to right. (Fig. 25)

Turn the set lever on the rib knitter carriage to 6 and move the

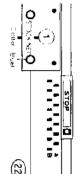
The rib knitter needles with the

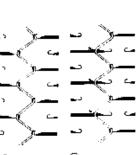
yarn hooked on move down to B position. i (Fig.26)

Pass the yarn through the auto-tension and the yarn reeder and let its

enc

(3)





(2)

 $(\overline{2})$ (8)

(23)

main machine and the rib knitter sinker hooks. Pull out the cast-on comb wire until means of the wire, onto the strickes. the main machine and the rib knitter the yarn that is hooked alternately on the comb's teeth come out through that the cast on comb is nung, by needles and then replace the wire so

Place the castion comb behind the rib knitter and move it up between the

Lowering the cast-on comb

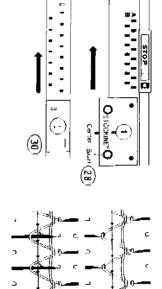
it hangs down from the stitches. mains in a horizontal position when Make sure that the cast-on comb re

- 12

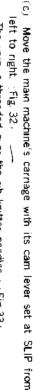
Weights

be balanced in a horizontal position Hang a required number of weights onto the castion comp so that it may

- Bound off casting on
- rai. Move the main machine's carriage from right to left Only the main machine needles will work (Fig. 29) ûn ⊒i 8
- ib. Move the rib knitter carriage from right to left. iFig.30 The yarn is behind the latches and the needles come to C position:



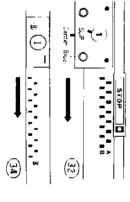
(29)

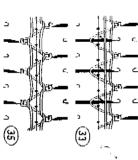


<u>3</u>

d. Move the rib knitter carriage from left to right. (Fig. 34) The yarn is threaded over the rib knitter needles. i i Fig. 33

The rib knitter needles will knit and come to B position. (Fig. 35)





- (e) Set the cam lever on the main machine's carriage to STOCKINET and move the carriage from right to left. (Fig. 36) (The main machine needles alone will knit) (Fig. 37)
- (f) Move the rib knitter carriage from right to left. (Fig. 38) The yarn is behind the latches and the needles go to C position.) (Fig. 39)

Ţ G (Mainm achine)

Side levers .

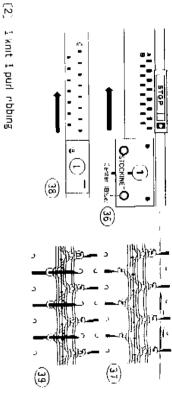
Tension control dial

Russel lever

Center (Blue) Stockinet

on both sides

Cam lever



<Rib kmtter carriage> Stop lever • (Stockinet card is used)

Set lever Left Tension control dial

(a) Move the main machine's carriage from left to right. (The main machine needles knit and the rib knitter needles catch the

0 (The rib knitter needles knit and come to C position) Move the rib knitter carriage from left to right

(d) Move the rib knitter carriage from right to left. (c) Move the main machine's carriage from right to left (The main machine needles knit and the rib knitter needle catch the (The rib knitter needles knit and come to C position.

The above operations from (a) to (d) are repeated to knit a continuous 14 —

,

length of fabric.

Double rib



of the main machine and the rib writter. Shown here is the ribbing knit in light weight This is 1 knit 1 purl rib that is knit with all needles

Bound off cast on

Pitch setting

The rib knitter needles will be staggered with the needles of the main Set the half pitch lever to H

Needle arrangement

with the teethless side of the needle pusher.

(b) Move the 4b knitter needles to B "Note! Both end needles of the main maposition in the same manner. (Fig. 42)

ia. Pull out a required number of the main machine needles to B position

chine should be gulled out.

C. Carriage setting

<Rib knitter carriage> Set lover Left Teusion control dial.

Move the carriage back and forth two or three times and leave it on the with their latches open. (Fig. 43) left side of the needle bed. The needles are now aligned in C position



- ic. Move the main machine's carriage from right to left.
- The main machine needles knit and the rib knitter needles catch yarn.

the

- d. Move the rib knitter carriage from right to left.
- The rip knitter needles knit and come to C position

Repeated the above operations from (a) to (d).

(I) English Rib



This is the I knit I purl or double rib with one side tucked.

ĺ

Swung English Rib

Repeated the above operations from (a) to (d)

(it) Move the rib knitter carriage from right to left

The rib knitter needles knit and come to C position i

c) Move the main machine's carriage from right to left

Only the main machine needles knit and the rib knitter needles catch the

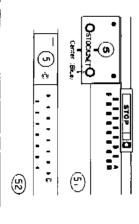
b. Move the rib knitter carriage from left to right.

The yarn is behind the latches and the rib knitter needles come

₽

Shown here is 1 knit I purl enigsh rib in medium weight yarn. Bound off cast on for 1 knit 1 purl r.b is applied. (Refer to page 11)

When light weight yarn is used, double rib is preferred and therefore bound off cast on for double rib is applied.) (Refer to page 15)



Tension control dial 5
Stop lever • (Stockinet card is used)
It builter carrieses

<Main machine>

Cam lever Stockinet
Russel lever Center (Blue)

Side levers

..... • on both sides

<Rib knitter carriage>
Set lever Right C
Set lever Left =
Tension control dial5

(a) Move the main machine's carriage from left to right.(The main machine needles knit and the rib knitter needles catch yarn.)

듅

18

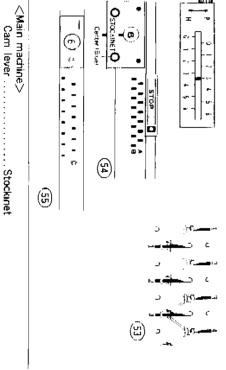
This is a variation of English rib which is worked by a 2 pitch swing in 1 km; 1 purl or a 1 pitch swing in double rib

Shown here is the Swung English rib of I knit I purl and I knit I purl bound off cast on is applied. (Refer to page 11)

For the Swung English double rib, use light weight yarn. I (Refer to page 15)

Set the swing index to 3 on P scale.

And the needles of both machines will position as shown in Fig. 53.



— 19 .

Stop lever

Russel lever Side levers

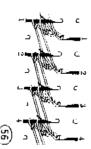
...... Center (Blue)

on both sides

(Stockinet card is used)

<pre> <pre> <pre></pre></pre></pre>	
to righ	

- i Only the main machine needles knit and the rip xnitter needles catch the
- (ib) Move the rib knitter carriage from left to right. The yarn is behind the latches and the rib knitter needles come to cosition.,
- (c). Swing the rib knitter two pitches to the left, using the swing handle The swing index points at 5 on Piscale. (Fig. 56)





d. Move the main machine's carriage from right to left.

The main machine needles knit and the rib knitter needles catch the

of . Move the main machine's carriage from left to right ie). Move the rib knitter carnage from right to left. The main machine needles knit and the rib knitter needles catch The rib knitter needles knit and come to C position.

the

Move the rib knitter carriage from left to right.

position.) The yarn is behind the latches and the rib knitter needles come to

(h) Swing the rib knitter two pitches to the right (The swing index points at 3 on P scale.)

(i.) Move the main machine's carriage from right to left.

(i) Move the rib knitter carriage from right to left (The main machine needles knit and the rib knitter needles catch the yarn.

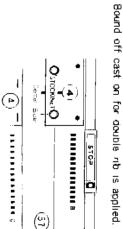
Repeated the above operations from (a) to \oplus (The rib knitter needles knit and come to C position.)

20 -

1 21 (£)



(3) Pop Corn Patterr Shown here is a fabric knit in light weight yarn. every other stich staggered and slip tucked This is a variation of the double rib, which is tucked on the rib knifter for three rows with

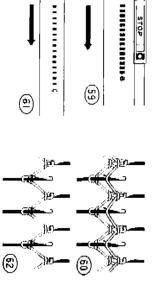


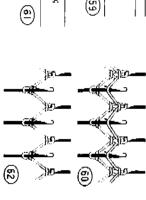
(6)

<rib carriage="" knitter=""></rib>	Stop lever	Tension control dial	Side levers	Russet lever	Cam lever	<main machine=""></main>
	 (Stockinet card is used, 	.4	 on both sides 	Center (Blue)	Stockinet	

(a) Move the main machine's carriage from left to right. (Fig. 59) (The main needles knit and the rib knitter needles catch the yarn) (Fig

(b) Move the rib knitter carriage from left to right. (Fig. 61) (The rib knitter needles knit and come to 0 position.) (Fig. 62,





The rib knitter needles are now posi

tioned alternately in B and C positions. I

Fig. 67 i

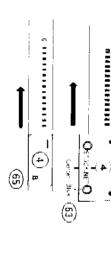
aving the needle on the left hand side

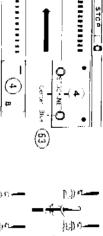
the needle pusher, to C position, le-

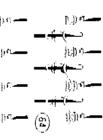
Move up the rib *nitter needles, using

- (c.) Move the main machine's carriage from right to left (Fig. 63) if he main machine needles knit and the rib knitter needles catch the
- (d) Set the right-hand set lever on the rib knitter carriage to B and move the carriage from right to left, (Fig. 65)

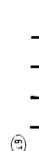
(The rib knitter needles knit and come to B position... (Fig. 66







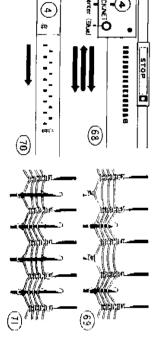




The main machine needles knit three rows and the rib knitter needles in Move the main machine's carriage back and forth three times. (Fig. 68) position catch three strands of yarn.) (Fig 69

Ţ

(g) Move the rib knifter carriage from left to right. (Fig. 70) yarn behind them. (Fig. 71) The rib knitter needles both in B and C positions come to C with the



Server (Blue)

 Move the main machine's carriage from left to right yarn. J The main machine needles knit and the rib knitter needles catch the

(E)

- k) Set the left-hand set lever on the rib xnitter carriage. the carriage from left to right. The rib knitter needles knit and come to B position. to B and move
- These needles are staggered with those previously brought up.) to C position, including the one on the left hand end

(1) Move up every other needle on the rib kniffer, using the needle pusher

- rm.) Move the main machine's carriage back and forth three times, starting (The main machine needles knit three rows and the rib knitter needles in from the right.
- The rib knitter needles both in B and C positions come with the yarn behind them.) ₽

C position

C position catch three strands of yarn.)

- (b) Move the main machine's carriage from left to right yarn. j (The main machine needles knit and the rib knitter needles catch
- (p) Set the left hand set lever on the rib knitter carriage to -(The rib knitter needles knit and come to C position.) the carriage from left to right. and move

(q) Move the main machine's carriage from right to left

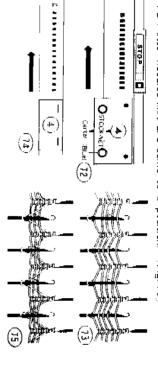
(The main machine needles knit and the rib knitter needles

catch

Ħe

- (r) Set the right hand set lever on the rib knitter carriage to B and move (The rib knitter needles knit and come to B position) the carriage from right to left.
- Repeated above operations from (a) to (r).

- The main machine's carriage from right to left. (Fig. 72) (The main machine needles knit and the rib knitter needles catch the yam, j. Fig. 73 i
- $G_{\rm CP}$. Set the right-hand set lever on the rib knitter carriage to \blacksquare and move the carnage from right to left. (Fig. 74) The rib knitter needles knit and come to C position. (Fig. 75)



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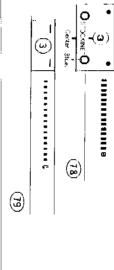


တ Pin Tuck

of knitting double rib, knit three or four rows more on the main machine only. The extra row knit on one side give the pin tucked effect.

Shwon here is pin tuck in light weight yarn, using the bound off cast on double rib. (Refer to page

15



<Rib knitter carriage> <\Main machine> Set lever Right Side levers Russel lever Tension control dial3 Tension control dia:.. Cam lever.... - : .. Stockinet Center (Blue Stockinet card is used

(a) Knit in double rib for a desired number of rows. (Terminate the last row with both main machine and rib knitter carriages coming to the right-hand side of the needle bed.)

(b) Move the main machine carriage from right to left

(The main machine needles knit and the rib knitter needles catch the

(c) Set the right-hand set lever on the rib knitter carriage to 8 and move

the carriage from right to left. (The rib knitter needles knit and come to B position.)

(d) Move the main machine's carriage back and forth three times, starting from the left. (Fig. 80)

(e) Move the rib knitter carriage from left to right. (Fig. 82) (The main machine needles knit three rows.) (Fig. 81) The rib knitter needles come to C position with the yarn behind

1

8

the

This is a variation of double rib. In the course

(<u>.</u>)

3.11.11.11.11.11.11

(8<u>)</u>

. ₽

(5)

STOP D

- The rib knitter needles knit and come to C position. the carriage from right to left.
- Repeated the above operations from (a) to (g) to obtain a pick tuck

(The main machine needls knit and the rib knitter needles catch the yarn.)

Move the main machine, s carnage from right to left.

Set the right-hand set lever on the rib knitter carriage to - and move

(6) 2 knit 2 purl rib



yarn. stiches. This is a rib with 2knit and 2 purl alternating Shwon here is knit in medium weight

Bound off cast on for 2 knit 2 puvi

Pitch setting

Set the half pitch lever to H.

(The main machine needles are staggered with those of the rib knitter half pitch.) ģ

Needle arrangement

(a) The total number of stiches to be cast on should be a multiple of 4 plus 2.

(b) On the main machine, bring out three-fourths of the required needles (fractions, if any, should be counted as one) to 8 position by using the tlat side of the needle pusher.

õ to 6 position. the left end back to A position needle in A position (Fig. 84) Push back every third needle from 2 the rab kniter, bring up needles leaving every third



Needle arrangemement

Ö

<Rib kn:tter carriage> Set lever Left Tension control dial

Move the carriage back and forth two or three times The needles are now aligned in C position with their latches open leave it on the left side of the needle bed to align the needles

<Main mac⊓ine> Cam lever ... Stop lever .. Side levers Russel lever Tension control dial • on both sides Center : Blue Stockinet "Stockinet card is used."

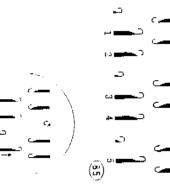
Move the main machine's carriage back and forth two or three times to align the needles and leave it on the left side of the needle, bed

position The needles are now aligned in B

Ď Threading

- ★ Swing the rib knitter one pitch to ★ On the right side of the rib knitter the left. (Fig. 85)
- right end that has already been needle second from the one at the bring out to C position one more pulled out into C position. Fig. 86.)
- ★ Pass the yarn through the autoend hang down between the main machine and the rib knitter tension and yarn feeder and let its

Š



- (a) Move the main machine's carriage from left to right. (Fig. 87) The yarn is hooked zigzag between the main machine and rib knitter needles, a liFig. 88 in their hooks. . . Fig. 90 The rib knitter needles come down to E the carriage from left to right. iFig. 89 Set the left, hand set lever on the rib knitter carriage to B and move (3) (8) position with the yarn caught
- Lowering the cast on comb

 $c_{
m OHow}$ the instructions given on page 12

Hang an appropriate number of weight onto the comb in a manner in which the comb may be balanced in a horizontal position. (Refer to page 10)Weights

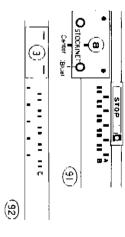
G. Bound off casting on

- (a) Move the main machine's carriage from right to Only the main machine needles knit.
- (b) Move the rib knitter carriage from right to left The rib knitter needles come to C position with the yarn behind the
- ic). Set the cam lever on the main machine's carriage to SLIP and move the carriage from left to right.
- The yarn pass over the rib knitter needles.
- (d) Move the rib knitter carriage from left to right
- The rib knitter needles knit and come to B position.
- (e) Set the cam lever on the main machine's carriage to STOCKINET and move the carriage from right to left.
- (Only the main machine needles knit.)
- (f) Move the rib knitter carriage from right to left (The rib knitter needles come to C position with the yarn behind 듅
- now swing it back one pitch to the right Since you had swung the rib knitter one pitch to the left for casting 2
- right end of the main machine. Transfer the stitch on the right end of the rib knitter to the needle on the

B. Needle arrangement (Fig. 93)

Set the half pitch lever to P as an the case of 1 knit 1 purl rib

 ∇ 2 Kn:t 2 Puri 1 Rıb



<Rib knitter carnage> Main machine> Set lever Left Stop lever • Stockinet card is used Tension control dial3 Tension control dial Side levers ... Russel lever.... Cam lever..... Center - Blue i Stockinet on both sides

ia. Move the main machine's carriage from left to right b. Move the rib knitter carriage from left to right. The main machine needles knit and the rib knitter needles catch The rib knitter needles knit and come to C position. yarn, 🤉

Ħe

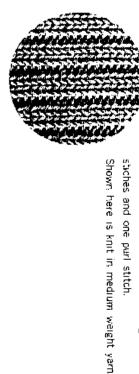
- (c) Move the main machine's carriage from right to left The main machine needles knit and the rib knitter needles catch the yarn. j
- (d) Move the rib knitter carriage from nght to left. Repeated the above operations from (a) to (d) for knitting a 2 knit 2 purl rib pattern. The rib knitter needles knit and come to C position.)
- A. Pitch setting ★The following is another method of needle arrangement for the knitting of 2 knit 2 purl rib
- Set the half pitch lever to P and swing Set the half pitch lever to H and swing the rib knitter one pitch back to the i puri rio. then applie bound off cast on for 1 knit the rib knitter one pitch to the left and

manner as 2knit 2 purl rib. right and do the knitting in the Same

8

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2 Knit I Purl Rib



stiches and one purl stitch. This is another variation of ribbing with two knit

Bound off cast on

 \mathcal{Z}

Pitch setting

Set the half pitch lever to P The main machine and rib knitter needles are staggered with one another.

Needle arrangement

The total number of stiches to be cast on should be a multiple of 3 plus

ib. On the rib knitter, pull out to 8 a: Bring out a required number of the main machine needles to B position directly opposite to the every third Push back every third needle from position every third needle that is the left end back to A position. needle pushed back to A psosition

Carriage setting

on the main machine, (Fig. 94)

9

<Rib knitter carriage> Set lever Right Tension control dial3

and leave it on the left side of the needle bed. The needles are now aligned Move the carriage back and forth two or three times to align the needles in C position with their latches open.

31

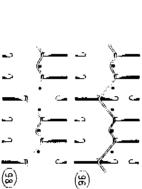
Move the carriage back and forth two or three times to aligned the needles.	Stop lever	Tension control dial	Side levers • on both sides	Russel lever Center i Blue	Cam lever Stockinet	<main machine=""></main>
r three times to aligned the needles.	Stop lever • (Stockinet card is used)		• on both sides	Center i Blue	Stockinet	

The needles are now aligned in B position with their latches open

Threading

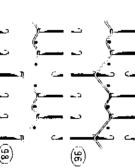
down between the main machine and the rib knitter Pass the yarn through the auto-tension and yars feeder and let its end hang

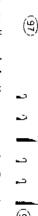
- Move the main machine's carriage from left to right, Fig. 95,
- The yarn is hooked zigzag between the main machine and rib knitter needles, j. (Fig. 96



 (\mathfrak{g})

-





- (b) Set the left hand set lever on the rib knitter carriage to B and move The rib knitter needles are lowered to B position with the yarn behind the carriage from left to right, (Fig. 97)
- (c) Pick up the yarn between the main machine needles and hook it onto their latches.) (Fig. 98)
- 1Fig. 99 the rib knifter needles in 8 position by using the stich pickup tool



32 |-

Hanging the cast-on comb

follow the instructions given on page 12.

F. Weights

Hang an appropriate number of weights onto the comp so that it may be balanced in a horizontal cosition, i Refer to page 10

Bound off cast on

fai. Move the main machine's carriage from right to left.

Only the main machine needles knit.

The rib knitter needles come to C position with the yarn behind their Move the rib knitter carriage from right to jeft

(c) Set the cam lever on the main machine's carriage to SLIP and move the carriage from left to right.

The yarn is passed over the rid knitter needles.

d: Move the rib knitter carriage from left to right.

The rib knitter needles knit and come to 8 position

move the carriage from right to left. Only the main machine needles knit. Set the carr lever on the main machine's carriage to STOCKINET and

i. Move the rib knitter carriage from right to left.

The rib knitter needles come to C position with the yarn behind their

2 knit 2 purl rıb

proceed as in the case of knitting 2 knit 2 pur nb Set the tension control dial to 5 on both main machine and rib knifter and

8) Tubular Knitting



Shown here is knit in medium weight yarn. This is a tubular form of stockinet knitting King

from right to left. (Fig. 107)

hind their latches, j

1

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1

\(
Main machine
\)

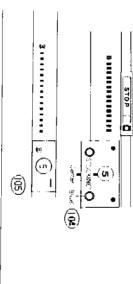
tubular knitt ng.

9) Haif Tubular (Double Width) Knitting

fabric cr double width. with one side open to provide a This is a tubular stockinet knitting



(2) Half tubular knitting



(a) Move the main machine's carriage from right to left. Only the main machine needles <Rib knitter carriage> Russe: lever Set lever Left ... Stop lever • (Stockinetcard is ussd) Tension control dial Side levers. Cam lever Tension control dial ... (Fig. 106) dial 5 Center (Blue) Stockinet STOP : D <u>(</u>5

(b) Move the rib knitter carriage to C position with the yarn be-(The rib knitter needles come \$ (5) OSTOCKINETO Center (Blue! (106)

> ic. Set the cam lever on the main right. (Fig. 108) move the carriage from left to machine's carriage to SLIP and

The yarn goes over

left to right. (Fig. 109) and move the carriage from the rib knitter carriage to (-The rib knitter needles knit Set the left hand set lever on

(e) Move the main machine's ca rriage from right to left Fig. 110)

Center Studie (10)

STOP

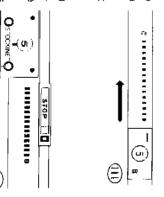
and come to C position.

(f) Set the right-hand set lever knitter needles.

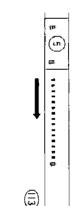
The yarn goes over the rib

right to left. (Fig. 111) 8 and move the carriage from (The rab kniiter needles kniit on the rib knitter carriage to and come to B position.)

(g) Set the cam lever on the main machine's carriage to STOCKI from left to right. (Fig. 112) NET and move the carriage Only the main machine needles



O: DOME O Center (9)_{Let}



and move the carriage to the

the rib knitter carriage to B

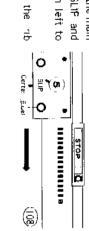
right. (Fig. 113)

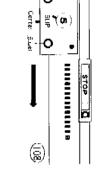
(Set the right-hand set lever to

(h) Set the left-hand set lever on

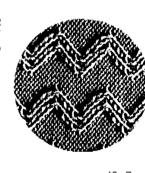
knitting Repeated the above operations from (a) to (h) to make a half tubular

. 37 —





(10) Variation Swing



Shown here is in medium weight yarn. can be knyt by swinging the rib knitter This is one of the many possible patterns that

<Main machine>

Cam lever

Stockinet

Side levers on both sides

Russel lever Center (Blue)

Tension control dial

Stop lever.

..... • (Stockinet card is used

Cast on

A. Pitch setting

Set the half pitch lever to H. Swing the rib knitter full to the left.

(The swing index points at 6 on H



scale and the main machine needles are staggered with the needles of the (Fig. 114)

(a) Bring out a required number of the main machine needles to B position

Needle arrangement

needte pusher.

(b) Bring out to 8 position are required for the desired the rib knitter needles that by using the flat side of the

(Example: 8, 10, 18, 28, 30 needles are pulled out.)

pattern. (Fig. 115)

ဂ္ဂ Carriage setting

Tension control dial5	TETT	Set lever Right	5	< Rib knitter carriag
ďa		:	(Ď
_	P		,	
:	:			
	•			
:	:			
		1		
ת	1	1		
	•	•		

and leave it on the left side of the needle bed. The needles are now aligned Move the carriage back and forth two or three time to align the needles

in C position with their latches open. 38

	C-3	
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	- 2.7	
'] v.	
	J	

(a) Thread the yarn through the auto-tension and the yarn feeder and

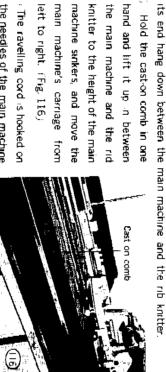
륹

in 8 position with their latches open.

Threading

and leave it on the left side of the needle bed. The needles are now aligned Move the carriage back and forth two or three times to align the needles

(b) Hold the cast on comb in one left to right. (Fig. 116) main machine's carriage from knitter to the height of the main machine sinkers, and move the hand and lift it up in between the main machine and the rid



and rib knitter, passing through the teeth of the comb. (Fig. 117)

the needles of the main machine : The ravelling cord is hooked on

(c) Move the rib knitter carriage from left to right.

(The rib knutter needles come to C position with the yarn behind their

Weights

Following instructions given on page 10.

Pull the ravelling cord out of the yarn feeder and thread a medium weight yarn through the feeder.

- ia. Move the main machine's carriage from right to left. The main machine needles knit and the rib knitter needles catch the
- c.) Swing the rib knitter one pitch to the right. (b) Move the rip knitter carriage from right to left. The rib knitter needles knit and come to C position.)
- The swing index points at 5 on H scale.
- (d) Repeated the above operations from (a) to (c) six times
- ie. Move the main machine's carriage from right to left. The main machine needles knit and the rib knitter needles catch the
- Move the rib knitter carriage from right to seft The rib knitter needles knit and come to C position is
- ig. Swing the rib knitter one pitch to the left The swing index points at 1 on H scale.
- the Repated the above operations from feet to fg., six times

Repeated all the above operations from (a) to (b)

the left. Swing the rib knitter afternately 6 pitches to the right and 6 pitches to

PARTIAL KNITTING

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Example 1: Partial knitting (decreasing) applied to I knit I purt rib in me dium weight yarn.

and there is one row to go before starting partial knitting. The carriages of both main machine and rib knitter are on the right side

<pre><rib carriage="" knitter=""> Set lever Right B</rib></pre>	Stop lever • (Stockinet card is used)	Side levers • on both sides	Russet lever Center (Blue)	Cam lever Stockinet	<main machine=""></main>	
---	---------------------------------------	-----------------------------	----------------------------	---------------------	--------------------------	--

(a) Move the main machine's carriage from right to left. (The main machine needles knit and the rib knitter needles catch Tension control dial4

(b) Move the rib knitter carriage from right to left. The rib knitter needles knit and come to 8 position.

yarn. J

(Fig. 112, 123)

(3)

(Partial knitting)

- ia). Bring out to D position the first group of the needles on the right side of the main machine to be decreased
- the Leave the first group of needles on the right side of the rip knister in 8 position and bring out the rest of needles to C position.
- ic). Move the main machine's carriage from left to right. /Fig. 1187

catch the yarn. knitter needles in C position B position knit and the rib The main machine needles in

> OSTORINGO Certer (Brue)

* | 1111111111 B

STOP |

(d) Set the right-hand set lever from left to right. (Fig. 119) to B and move the carriage and the left-hand set lever on the hib knitter carriage to

(<u>4</u>)

(m-

(<u>a</u>)

ie. Bring all the working neeposition.

*. On the main machine, pass the yarn around the innermost resting nee chine's carriage fromright to dles and move the main madles out again to C position with the resting needles remaining in B

g: Set the left-hand set lever rriage from right to left. on the rib knifter carriage to and the right-hand lever to B and move the caeft., (Fig. 120) (Fig. 121) æ

o

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OSTOCKAE O

Certar Idiae ([20]

STOP | C

(ALC)

(+)

B position.j C position knit and come to The rib knitter needles in

One partial knitting (two short rows, is now completed.

while the resting needles reand on the rib knitter place the On the main machine, place the Repeated the above operations maining in B position. working needles in C position resting needles in D position for desired stitches and rows.

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(1

NOTE: For partial knitting (increasing), first place resting needles of the main machine in D position and push back to C position each group of in C position each time. needles as you proceed. On the rib kritter, repeat placing working needles

Example 2: Partial knitting decreasing applied to english rib

<pre><rib carriage="" knitter=""> <right< th=""><th><main machine=""> Cam lever</main></th></right<></rib></pre>	<main machine=""> Cam lever</main>
--	------------------------------------

Place the group of the main machine needles to be decreof the rib knitter needles to be ased in D position and the grou operate the carriages in the 124, 125, 126 and 127. rib knitting, referring to Fig. same marmer as iknit ipur decreased in B position, and

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swing English rib, herring bone swing and so forth. This method can be apllied to

remain inactive.

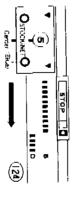
NOTE in 0 position back to C posiof needles to be increased rib, pushing back the group increasing with 1 knit 1 puri manner as partial knitting increasing, knit in the same tion. (Refer to Fig. 124, 125 For partial knitting

۵ HIMINIT (F)

knit and come to 8 position.) (Ribber needles in C position

- 42 -

and 127)

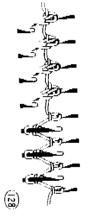


((3) have loops behind latches and Ribben needles in C position ribber needles in 3 position Grace Control (<u>X</u>)

STOP | D OSTOCK ACT O Centre letter (26)

Example 3: Partial knitting decreasing applied to variation swing

- (a) It is necessary to reset the main machine and rib knitter carriages which have been set for variation swing
- ib. Transfer the loops on the rib knitter needles to be decreased to the main machine needles to be decreased. to A position. (Fig. 128, Push the vacated needles back



- (c) Bring the resting needles of the main machine to D position and knit 3
- (d) Pass the yarn under the first resting needles in D position on the main machine needle bed and knit another row
- Repeated the above operations from (a) to (d)

NOTE: This method of transferring the loops on the resting needles of the no knitter to the resting needles of the main machine and bringing out to any pattern knitting. partial knitting only on the main machine needle bed, and can be applied those resting needles to Diposition is the same with as the method for

NOTE: Partial knitting increasing

of loops to be increased, which have been resting on the main machine Knit in the same manner as 1 knit 1 purl rib knitting, transferring the group needles, to the needles of the rib knitter

Methed No.

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the third needle. (Fig. 133)

back to A position. (Fig. 134)

1

needle and push the vacated edge needle Transfer the edge strtch to the

second

Transfer the second stitch from

the

edge

DECREASING

STITCHES

★Decreasing one stitch at the edge of the

Method No 1

INCREASING STICHES

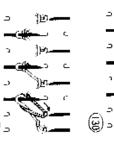
★Increasing one stitch at the edge of iñe

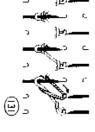
Method No. 1

Method No. 2

at the end on the side where the carriage Bring out to C position one resting needle is placed if ig. 129) and knit on.







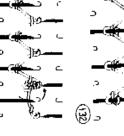
the vacated needle. (Fig. 131

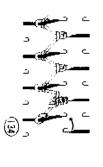
Pick the next back loop and hook it onto

resting needle, i Fig. 130,

Transfer the stitch at the edge to the next











(3)

needle i from the main machine to the rib knitter or vice versay. Push the vacated

Transfer the edge stitch to the next inside

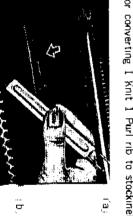
needle back to A position, (Fig. 132)



Using a needle pusher, bring up ouiling force of the weight. of further stitches by the downward Remove the weight from the cas Pick up the dropped strich with lever gently to lower the ribber ton comb to prevent the dropoing position. Then, press down the grop the ribber needles to their highest the stitch pick up toot and hook it

putting I back onto the needle. the tappet and crochet up before rows down, When a stitch is dropped several pick up the stitch with

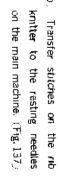
back onto the needle. Fig 135,



How to use the ribber transfer tool

<For converting 1 Kinit 1 Purl rib to stockinet knitting>

(a) Bring out every other resting B position and open their latch needle on the main machine to ë



- 45

HELPFUL HINTS

How to pick up dropped stitches



Transfer the stitches from the main <For converting stockinet to I knit

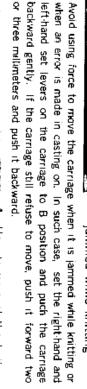
the previous case. (Fig. 138) needies in the same manner as in machine needles to the rib knitter For knitting only on the main ma-

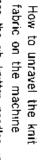
on. (Fig. 139) main machine and thread the yarn carriage with the arm arm fixed to the main machine's knitter needles to the resting nee-Transfer the stitches on the rib knitter. Replace the rib knitter the ribber transfer tool. Pushd own dles on the main machine by using through the yarn feeder, and knit on the drop lever to lower the rib chine fitted with the rib knitter> Š

jammed while knitting When the rib knitter is

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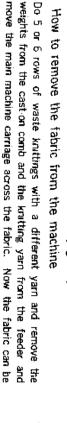
B position. place the rib knitter needlee alternately and the next stitches Move the yarn up and down while main machine and the rib knitter the hooks of the needles of the pulling it so that it may come off 5





or three millimeters and push it backward.

dles. (Fig. 140) may slide into the hooks of nee



readily removed from the machine.

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knitter. It should be apolied to the following points. main machine is used for the rib

a Rais

stide back and forth, (Fig.141). outsides of the two parallel rails The depressed surfaces on the where the carriage fit on and

The slits on the needle bed.

(c) The backside of carnage. parts indicated by dotted lines. Apply oil particularly to 듅



How to Replace the Needles

Replace a damaged needle with one of the spare needles.

It can be changed without removing the fabric from the machine.

first, holding the butte in thumb Insert a new needle, and foretinger.



47

Lubrication

in the case of the main machine

sure that the rib knitter is lubricated properly before after it is used The same oil as that used for the

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of the main machine. (Fig. 144) in the same manner as in the case Pull out the needle retainer band and remove the damaged needle the hook

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(b) Turn the set lever on the rib knitter carriage to

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mave the

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carriage from left to right. (Fig. 47) in

(The rib knitter needles with the yarn hooked up are lowered to B

tion.) (Fig. 48)

and the rib knitter.) (Fig.46)

The yarn is hooked alternately onto the needles of the main machine

Move the main machine's carriage from left to right. Fig. 45

Move the carriage back and forth two or three times and leave it on the left side of the needle bed. The needles are now aligned in (B) position with their latches open. (Fig. 44)	<pre> </pre> <pre> <pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre< th=""></pre<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>

Pass the yarn through the auto-tension and the yarn feeder and let its end hang down between the main machines and the rib knitter. Threading

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Follow the instructions given on page 12 Hanging the cast-on comb

Weights

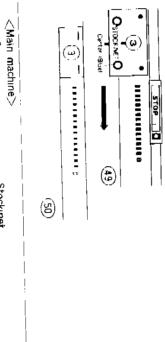
lanced in a horizontal position. (Refer to page 10) Hang a required number of weights onto the comb so that it may be ba-

一年一日

- Boundoff cast on
- Only the main machine needles will knit Move the main machine's carriage from right to left.
- ib. Move the नी knitter carriage from right to left The yarn is behind the latches and the needles come to C position. Set the cam lever on the main machine's carriage to SulF and move

the carriage from left to right The yarn is threaded over the rib knitter needles.

- Move the rib knitter carriage from left to right.
- Set the cam lever on the main machine's carriage to STOCKINET and The rib knitter needles knit and come to B position i
- Only the main machine needles will knit. move the carriage right to left.
- fi. Move the rip knitter carriage from nght to left . The yarn is behind the latches and the needles come to \bar{C} position. : \bar{a}
- 2) Double ripbing



<rib carriage="" knitter=""> Set lever Right</rib>	<pre></pre> <pre></pre> <pre> <pre></pre></pre>
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- (a) Move the main machine carriage from left to right. (The main machine needles knit and the rib knitter needles catch the yarn, :
- (b) Move the rib knitter carriage from left to right The rib knitter needles knit and come to C position.

ij

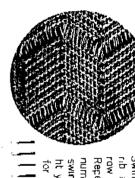
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No.

4

4 Herring Bone Swing

If y Swing the rib knitter one pitch back to the right.
The swing index points at 3 on H scale.)



swing. Shown here is a herring bone in light weight yarn, a variation of double rib, bound off cast Repeat the swinging back and forth for a desired rib and one pitch for double rib and tuck one number of rows, then change the direction of row on the 4b knitter before swinging it back. for double r.b. (Refer to page 15)

(j) Swing the rib knitter one pitch to the left.

(The swing index points at 4 on H scale.)

(i) Move the rip knitter carriage from left to right.

(The yarn is behind the latches and the needles come to C position.)

The main machine needles knit and the rib knitter needles catch the yarn.

Move the main machine's carriage from left to right. Repeated the above operations from a) to f) nine times.

iii Move the rib knitter carriage from right to left.

The ho knitter needles knit and come to C position.)

(m) Move the main machine carriage from left to right

(The main machine needles knit and the rib knitter needles catch the yarn.)

NOTE: From here the direction of the swing is changed

(n) Move the rib knitter carriage from left to right.

The rib knitter needles come to C position with the yarn behind

;

(k) Move the main machine's carriage from right to left

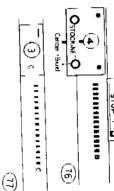
The main machine needles knit and the rib knitter needles catch the yarn.

(Needle Arrangement

needles, and push the empty needchine and rib knitter to the next transfer stitches on the main ma-Referring to the above diagram. les back to A and A positions, respectively.

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<Main machine>



		\Rib				_ /
Tension control dial3	Set lever Left	⟨Rib knitter carriage⟩	Stop lever	Side levers 6 on both sides	Russel lever	Cam lever

used)

- <u>(</u>2 (b) Move the rib knitter carriage from left to right. , Move the main machine's carriage from left to right. (The main machine needles knit and the rib knitter needles catch the yarn.)
- (The yarn is behind the latches and the needles come to ${\tt C}$ position.)
- Swing the rib knitter one pitch to the left.
- C (The swing index points at 4 on H scale.)
- (d) Move the main machine's carriage from right to left. (e) Move the rib knitter carriage from right to left. (The main machine needles knit and the rib knitter needles catch the yarn.) (The rib knitter needles knit and come to C position.)

24

- Swing the rib knitter two pitches for i knit 1 pur This is a combination of tucking and swing.
- (a) Swing the rib knitter one pitch to the right (The swing index points at 3 on H scale.)

latches, i

- (p) Move the main machine's carriage from right to left The make machine needles knit and the rib knitter needles catch the yarn.)
- Move the rib knitter carriage from right to left. The rib knitter needles knit and come to C position)
- (r) Swing the rib knitter one pitch back to the left.
- (s) Repeat the the above operations from (m) to (r) nine times (The swing andex points at 4 on H scale.)
- (t) Nove the main machine's carriage from left to right. ℓ The main machine needles knit and the rib knitter needles catch the yarn.)
- rui. Move the rib kmitter carriage from left to right. latches. (The rib knitter needles come to C position with the yarn behind the
- (v) Swing the rib knitter one pitch to the right (The swing index points at 3 on H scale.)
- (w) Move the main machine's carriage from right to left. (The main machine needles knit and the rib knitter needles catch the yarn.)
- (x) Move the rib knitter carriage from right to left. (The rib knitter needles knit and come to ${\tt C}$ position.)

Repeat all the operations from (a) to (x) for knitting a herring bones swing NOTE: Here, the direction of the swing changes again.

ß needles, and leave it on the left side of the needle bed.

Move the rib knitter carriage back and forth two or three times to align the

The needles are

[1] Cast on

A. Pitch setting Set the half pitch lever to P.

Needle arrangement

(a) Bring out a required number of main machine needles to B position by using the flat side of the needle pusher.

 $\langle \Sigma \rangle$

(b) Bring out an equal number of needles on the rib knitter, too, (Fig.100)

Set the half pitch lever to H.

<Rib kmitter carriage>

Tension control dial -

Carriage setting

now aligned in C position with their latches open. <Main machine> Side levers. Russel lever Center (Blue) Cam lever Stockinet Tension control dial I on both sides

in 8 position with their latches open. and leave it on the left side of the needle bed. The needles are now aligned Move the carriage back and forth two or three times to align the needles Stop lever • (Stockinet card is used)

Threading

The main machine needles are staggered half pitch with the rib knitter needles.

(a) Thread the ravelling cord through the yarn feeder and move the main The ravelling cord is hooked zigzag between the needles of the main machine's carriage from left to right.

machine and the rib knitter. the carriage from left to right. Set the left-hand set lever on the rib knitter carriage to B

and

caught in their hooks.) The rid knitter needles come to B position with the ravelling cord

1

m,

(a) . Move the main machine's carriage from right to left, (Fig. $101)\,$ (Only the main machine needles knit. Tension control dial

b. Move the rib knitter carriage to C position with the yarn be-(The rib knitter needles come from right to left. hind their latches.

(c) Set the cam lever on the main move the carriage from left to right. (Fig. 102) machine's carriage to SLIP and (The yarn go over the rib kni

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(d) Move the rib knitter carriage from left to right. and come to B position. The rib knitter needles knit

tter needles.)

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(8)

Repeated the above operations from (a) to (d) to make a tubular form of 35 1

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E. Hanging the cast-on comb Follow the instructions given on page 12.

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<pre><pre></pre> <pre></pre> <pre>Right</pre> <pre>Set lever Left</pre> </pre>	<pre><main machine=""></main></pre>	weights Follow the instructions given on page 10 Set the half pitch lever to P. Replace the ravelling cord with a medium weight yarn threaded inrough the yarn fedder (2) Tubular knitting
∠Rib knitter carriage Right Set lever Left B	Sto Ce of dial	weights Follow the instructions given on page 10 Set the half pitch lever to P. Replace the ravelling cord with a medium weight yarn threaded through the yarn fedder 2) Tubular knitting

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