

With the Compliments

of

Girotex Quick Knitters

32 CHILTERN STREET, BAKER STREET, LONDON, W. 1

TEL. WELBECK 2423.

To our dear customer!

Now that you have purchased your GIROTEX you are longing to start knitting. We are equally anxious that you should do this well. But before you start, please remember that the machine is only as good as its master, and that, as with a piano, you cannot expect to play the right tune if you hit the wrong notes - nor can you blame the typewriter for having spelt the wrong words!

So, please have patience and try not to expect too much of yourself, at the beginning. If you practice, follow the instructions implicitly, and bear in mind that you did not learn to cook, bake, sew, read, write or even walk or talk, in one day, then you cannot possibly go wrong.

The instructions are set out so simply that even a child can follow them. In addition there are a number of patterns given at the end of the book. This will enable you to make a good start with your knitting very soon. Once you have actually knitted a garment you will want to try out ordinary hand-knitting patterns. This CAN be done of course! Because on the amazing GIROTEX you can actually reproduce genuine hand-knitting tensions!

'Good luck' to you then with your knitting and may your machine give you many pleasurable hours of enjoyment and be the fascinating means of providing you with a very profitable source of income, as it has already done for thousands of others.

Yours sincerely,
Girotex Quick-Knitters

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Girotex-Double-bed Machine

Both cam-boxes slide along in the grooves of the rails and enable slides to move across so far as to knit a stitch on the extreme end needles. The function of the cambox is to bring the needles to the required knitting position by moving the slide to and fro. Both cam-boxes are identical and with the help of the 2 slide brackets, any difference in the distance of the needles is automatically equalized. In the centre of the brackets, the 2 handle-knobs are fixed. The backslide carries the wool-guide, which is fixed into its socket when the machine is set up. Each cam-box contains 2 tension-cams and 2 centre-cams. The centre-cams push the needles up to start the actual knitting. The tension-cams (or knitting-cams) are fitted to the tension regulators and these determine the size of the stitch.

1. The CAM-BOX

Tension regulator-cams Centre-Cams

illustration 1 A and B Knobs for Circular-Knitting

Procedure for Knitting.

On a double-bed machine (see illustration) there are four knitting cams, i.e. 2 on either side of the cam-box, which are always described as the "leading" cam and the "following" cam. When the slide is moved from left to right, the righthand cam is called the "leading" cam, and the left-hand cam the "following". When the slide is moved from right to left, the opposite applies. Here we must note that it is always the "following" cam, together with the centre-cam, that does the knitting. The centre-cam pushes the needles up, while brushes on the shuttle open the needle latches and keep them open until the wool is laid in. Then the needles holding the laid-in wool are pulled down by the "following" cam, and a new stitch is formed on the needle. All cams can be put out of action, i. e. the four tension cams are pushed up to "P". As a result, the needles are not pulled down by the cams and the stitches remain on the needles. Pushing the "leading"-cams up to "P", eases the strain on the knitting

and is useful when changing from a tight to a medium tension, and from a medium to a loose tension. Also when reweighting the work or changing from one pattern to another, or when several stitches have been transferred onto one needle, for all this puts an extra strain onto the wool and there is a danger of it breaking.

Pull up all four centre-cams. Now the slide can be moved either way without action. When the centre-cams are pulled up and out of gear, the needles on that particular bed are not moved and therefore, no stitches are formed. The size of the stitch depends on the setting of the tension cams: "L" is the largest stitch and "F" the smallest one.

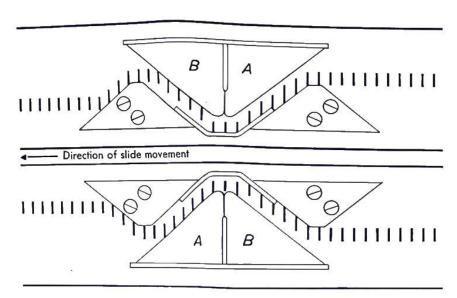


Illustration 2

Formation of a stitch

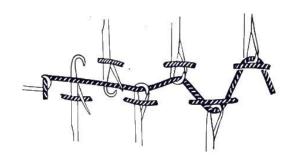


Illustration 3

2. The Needle-Bed

The needle bed is all metal and of one piece. It is of high-grade alloy with a hardened surface. The needle bed slides into a groove in the frame where it can be shifted the needles in the required position.

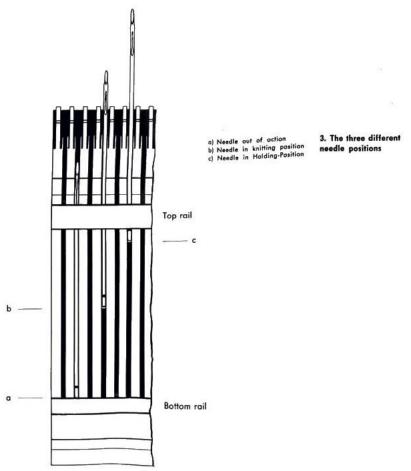
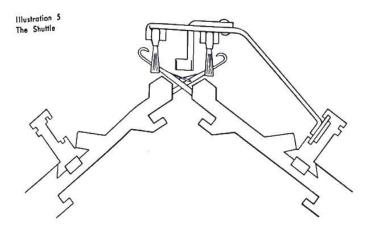


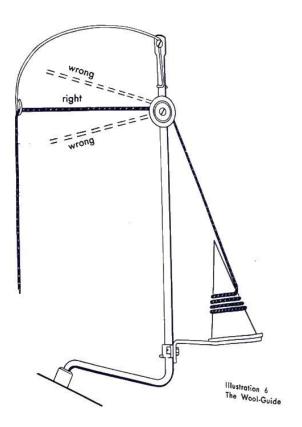
Illustration 4

The shuttle aggregate consists of a brush-assembly with 2 brushes and a metalslot.

The whole shuttle moves in the top rail of the back bed and is hooked into a carrier base. When adjusting the shuttle, it is important to see that the metal slot runs approximately '1/6", above the needle crossings, and that the front brush does not interfere or catch in the slot. Should the brushes interfere or become ragged with use, they may be trimmed with scissors. If required, the whole shuttle aggregate can be exchanged within a few minutes.



5. The Wool-Guide The complete wool-feed assembly is fixed into the cone upright collar at the back half of the cam-box. This is carried along with every movement of the slide.



The Wool-guide consists of a tension disc with a spring-regulator, tension wire and cone stand. The cone stand is fixed to the wool-guide with a bracket and 2 screws. Wool into the needles and thereby a regular formation of stitches.

The lever is fixed into the left hand corner of the frame on the front bed. This enables the front bed to be moved, in contrast to the back bed, which is rigid. The front bed can be racked over 5 needles, which enables us to knit various zig-zag and racked patterns. Position "0" in the centre of the lever scale is only used when knitting, K.1, P.1, every other needle.

6. The Lever

The GIROTEX needles are made of the finest rust-less steel and constist of 3 parts.

a) Needle-head. b) Needle-latch. c) Needle-shaft and foot.

7. The Needles

It is important that the latches of the needles always move freely, because uneven stitches will result if they are stiff through strain or wool fluff.



Bodkins: One-eyed for transferring stitches, crochet-hook for picking up stitches and pattern making, and pointed for re-hooking or catching dropped stitches.

8. Accessories (see illustration 16)

Bodkin combs: Are used for increasing and decreasing in the middle of row, dividing and transferring a larger number of stitches, or turning round for socks.

Side weights: Are used for casting-on extra stitches, or for casting-on a smaller number of stitches, as for front bands on cardigans, etc. or adding extra weight whenever necessary.

Clamps: Are used to fasten the machine on to the table. They fit into the 2 outside slots in the base on the back bed.

The Cone: The wool is wound on the cone either by hand or by a woolwinder (This is available from The Main Distributors or Agents) Wool which is already wound on a cone can be purchased from Stores. Care should be taken that the wool is wound evenly and not too close to the tip and base of the cone.

Stocking-Stitch-Bar: This is fastened to the rear slide after the front bed of the machine has been removed. This holds the fabric in place while knitting.

Spare Needles: In case of strained latches or breaking of needles, these are a stand by. See instruction on page 17 on how to change needles.

The Row-Counter: This is fitted into the rear of the bottom rail back bed, can be secured in any position along. This rail, and records the number of rows knitted. On the right hand side is a thumb screw which turns the row-counter back to 0 when commencing a new piece of work.

The Needle-Counter: This is fixed all along the back bed. It is used for a quick and well belanced selection of the required number of needles.

Long and Short double-bed combs: With wire this is used for casting-on, on the double-bed machine.

Open-Hooked Single Bed Comb: Is used for casting-on, on the single-bed machine, when the front bed is taken off. Also for Reweighting the wolk when knitting stocking stitch.

'.ong and Short Weights: With the Hooks provided attach weights to combs as instructed.

9. Care and maintenance of the GIROTEX

It is advisable for any machine which is in constant use to be maintained as follows. With a soft brush clear needle beds as well as needles of wool fluff, dust and oil. This should be done regularly, as otherwise the latches will become clogged and prevent the free movement of needles in their grooves. Remove cam-boxes and clean out fluff from under the cams. The slide and shuttle rails should be oiled very lightly once a month. Once a year, all needles should be removed and cleaned, the whole needle bed should be brushed and cleaned as well. When oil is used, care should be taken to use acid free machine oil (three-in-one). When this has been done, remember there could be a danger of oil soiling the work, so remove surplus oil from rails with a clean cloth. It should be noted that if the machine is moved from a cold room to a warm one, condensation will form, and should carefully be wiped off. Keep your machine in a dry room at an even temperature. After use, cover with clean cloth or plastic cover or replace it into the carton it was delivered in.

10. Correct Tensioning

- P Patent of Fisherman's Rib.
- F Fine, for very thin wool.
- M Medium, 3-4 ply wool.
- L Loose, four-ply and double knitting wool (knitted only on every other, or third needle).

Knitting on the Double Bed

11. How do I set up my machine?

The Girotex can be fastened to any strong and firm table or to a stand which is specially designed for this machine. The machine is fastened with 2 clamps, which fit into the 2 outside slots in the base of the back bed. If a table is used, the front bed overhangs. On a stand, the front bed rests on the frame of the stand. Secure clamps and see that the machine is absolutely rigid. The edges of the clamp should be flush with the edge of the table and with the edges of the back bed.

The wool-guide and cone stand are assembled (see page 8) and fixed into the round boss at the back of the cam-box.

The lever, which can be moved from 0 three positions to the left and three positions to the right, should be set to the desired position (see note on this). The back bed needles make the purl stitch and the front bed needles the knit stitch. It should be noted that the wrong side of the knitting faces the knitter.

12. The right distance between 2 needle beds

At each end of the machine frame, there are 2 serrated screws holding the side bars, which connect the 2 beds together. By loosening these screws, the front bed can be moved nearer of farther apart from the back bed. [Fasten screws after distance has been established]. The right distance for the average knittingwool is 5 mm. With very fine wool, silk or other yarn, to obtain a closer stitch, it is advisable to narrow the gap to 3 mm. However, if rug-wool or other thick yarn is used, the distance can be increased by bringing the front bed slightly forward. It is important, that both sides of needle beds should be seperated by equal distances. On the needle selector these given a secure side screws as instructed.

13. Cast-on K.1, P.1, every other needle

When using every other needle, first place racking-lever on 0. Starting from the centre of the needle-counter, push up the required number of needles on both sides of the beds (needle-heads flush with the top of the needle beds). Start with a knit needle and finish with a purl. Bring slide across these needles once or twice to open latches.

From the cone, the wool passes between tension discs into the slot between them, then is hooked into the loop of the tension wire, and finally trough the metal slot of the shuttle down between the needle beds, and attached to the handle of the lever.

How to tread the wool

The tension discs should now be either tightened or loosened with the adjustable screw, so that it holds the wool tight enough for the tension wire to be held in a horizontal position. It is very important to have the right flow of wool into the needles. If tension discs are too tight, the machine becomes stiff, stitches are pulled together and the wool breaks.

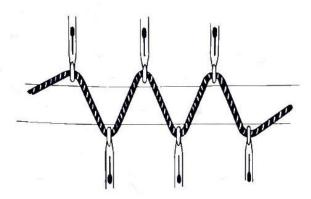
15. Setting up the Wool-Guide (see par. 5 and illustration 6)

Now move the slide slowly over the needles until all the stitches are cast-on. At this stage, the tension of the wool may pull the last few needles slightly towards each other. To avoid this, the last needles should be held down with a finger. Now take a comb, remove the wire and place it, with the weights attached to it, centrally underneath the neelde beds and push it up between the beds until the comb teeth are above the cast-on stitches. Insert the wire through the holes in the comb until it is opposite the last cast-on stitch. Lower the comb until it is suspended from the stitches by the wire. It is important to place comb always centrally onto your cast-on stitches, for a wrong position will cause uneven weighting. There would be more tension on one side of the work than on the other, and this may cause dropped stitches.

16. Process of Knitting

In order to get a real nice, firm edge to the work, it is advisable to knit a circular hem. First note position of the slide and needles. If the needle nearest to the slide is a purl, lift up nearest half centre-cam to the work on the back slide. And lift up the one farthest from the work on the front bed. Knit 2 rows. This completes one consular row. (It should be noted that it is always the apposite bed which knits when the centre-cam is out of gear). Repeat if required. I or 2 complete rows are usually sufficient. Replace cams. After knitting the circular hem one continues knitting in rib. To do this, first of all ensure that both centre-cams are in gear, that tension regulators are set to the tension required, but make sure that for the first row after the circular hem the 2 tension cams nearest to the work are brough up to "P." Knit I row and replace both cams to normal tension. Carry on knitting, by moving the slide over the needles and back, taking care to see that the last stitch has been knitted in each direction. Please note that it is most important for the slide to be moved far enough to knit the last stitch, but not further. For instructions on how to continue on Stocking-Stitch from K.1, P1, welt. (see page 20 par. 3 and foll. of page 21)

17. Circular Hem



lilustration 8

sion-Scale TENSION SCALE

 $_{\rm f}$ following chart is an approximate guide only and varies slightly according to ferent thicknesses of wool.

insion-scale of the needle arrangement most frequently used.

Thickness of wool	K1, P1 every needle	K1, P1 every 2nd needle	K2, P2	K3, P3	K3, P5
Fine wool (machine wool) 2-ply, usually 1 weight	M M		<u>M</u> <u>M</u> <u>M</u>	<u>м</u> <u>м</u> м м	M M M M M M M M M M
Average 3-ply usually 2 weights	M M M	M M M	м м м м	м м м м	M M
Thick 4-ply, usually 2 or 3 - weights	M M M	M M M	<u>M</u> <u>M</u>	<u>M</u> <u>M</u>	<u>M</u> <u>M</u>
Double-Knitting every 3 rd needle usually 3 weights		M M M M			

 $p = Patent, M = Medium, \overline{M} = 1$ tension above Medium, M = 2 tensions below Medium

Tension-Scale for knitting-patterns most frequently used

Thickness of wool	pate eve nee	ent ry 2	pote ever neer	ent y 2	pal eve nee	ent	pal eve	ent ry dle	Circ	ular		king- itch
Fine wool (machine	M	Р	М	м	۷	Р	м	м	P	М	М	М
wool) 2-ply, usually 1 weight	P	М	P	M	P	≝	Р	м	М	Р		-
Average 3-ply	M	P	M	М	M	Р	M	М	Р	М	М	M
usually 2 weights	P	M	P	М	P	M	- P	М	M	Р		
Thick 4-ply, usually 2 or 3	M	P	M	M			M	М	Р	M	≝	M
eights	P	M	P	M			P	М	M	Р		
Double-Knitting every 3 rd needle usually 3 weights											<u>¥</u>	M

P = Patent, M = Medium, \overline{M} = 1 tension above Medium, \underline{M} = 2 tensions under Medium

It should be noted that strokes indicate the needles in use, dots those which are not in the working-position.

For all pattern-settings except K.1, P.1, every other needle, the racking-lever can be in any one of the positions 1, 2, 3.

For K.1, P.1, every other needle, however, only position "0" is to be used. For rib K.2, P.2, see page 13.

Needle-Settings for different ribbed patterns

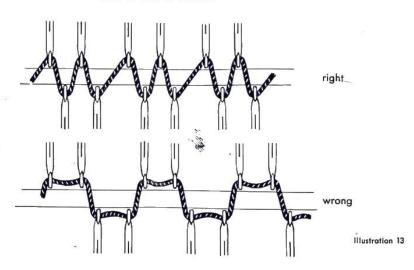
K.1, P.1, every other needle	puri bed knit bed	1.1	· · ·	1.	· . . .	i -i	1.1.	<u> • • </u>
K. 2, P. 2,	purl bed knit bed	1	80 W				++	
P. 3, K. 3,	purl bed	···	••	•••				•
P.4, K.1, P.4, K.3,	puri bed	411	Ш	··]	Щ.	Ш		

Place racking-lever in any one of basic positions 1, 2, or 3. Push up required number of needles on each bed, starting from the centre mark of the needle counter, then cast-on in the same way as in paragraph 12. (every other needle).

19. Cast-on K.1, P.1 using every needle

Set racking lever in position 3 left. Bring up needles K.2, P.2. Now move racking lever to position 2 left and cast on. Insert comb and move racking lever back to position 3. Continue to knit. Circular hem as normal.

20. Cast-on K.z, Pz.



By altering the position of the needle beds with the racking-lever, very attractive patterns can be knitted on the GIROTEX. There are 6 positions, 3 each side from the centre "0" mark. It is to be noted that racking should be done step by step, moving the lever only one number further after each row knitting as show:

21. The Racking-Action

3 2 1 1 2 3 and back 3 2 1 1 2 3;

repeat as often as required.

Position "0" is used only for setting needles for K.1, P.1, every alternate needle. It is advisable to use one grade looser tension for zig-zagging patterns that for an ordinary rib.

Particularly effective patterns are: K.1, P.1, every needle zig-zagged after every row. (Suitable for thin wools).

K.2, P.1, zig-zagged after every row or every second row.

K.2, P.2, zig-zagged after every row or every second, and racked over one or several needles.

22. Fisherman's Rib or raised rib

Cast on as for ordinary rib. It is important to set needles according to diagrain below. If the first needle is on the front bed (a knit stitch) the last must be on the back bed (a purl stitch). Set cams as follows: The slide is on the left hand side. Set left front tension to "P" and left back tension between "M-L" Knit one row. Now set right front tension to "M-L" and back right to "P" Go on knitting.

Last needle in p	url bed	W	P
First needle in knit bed		P	M
<i>₹</i> 8	Illustration 9		

For fisherman's rib it is necessary to use more weights than for ordinary rib. The tension through the wool guide should also be slightly looser. For increasing and decreasing on the fisherman's rib, it is important to keep the end stitches in the original setting. It is advisable, therefore, to increase or decrease, as the case may be, two stitches at one time, and so keep the needle position correct. For several increases use side weights. For this raised rib, only fine and 3-ply soft wool should be used. For a 4-ply and double knitting, every third needle should be used.

23. Increasing of one stitch

The increasing is done at the wool end, i. e. the same side as the slide, by pushing up one empty needle with open latch opposite the last knitted stitch.

Increasing of several stitches

Push up the required number of needles with open latch on the side opposite to where the slide is. Knit across and the needles will have cast on. Now insert the side weights (pear shape wire hook) or if number of new cast-on stitches is more than then, use the short casting-on comb (the one with the wire) and weight the newly cast-on stitches. If you are knitting a pattern, transfer stitches according to the pattern after another row has been knitted.

25. Decreasing of one stitch

Decreasing can be done on both sides of beds if required. Open the latch of the first three needles (counting alternately from knit bed to purl bed). Using the bodkin, taking second stitch off the needle, and place it on to the third. Now take the first stitch and place it on to the new empty second needle. Now push the first empty needle to the non-working position.

26. Decreasing of several stitches or casting off

By using the bodkin, transfer the first stitch to the second (on the opposite bed). Now push up the needle which has two stitches on it until the stitches lie behind the latch. Lay the wool by hand in to the needle (between hook and latch), and pull this needle down until the stitch has been knitted. Now transfer this stitch on to the next needle and repeat. Push empty needles to the non-working position.

27. Reweighting the work (Ribbing)

Remove casting-on comb from the work, holding knitted fabric down by hand. Push up comb centrally between needle beds and re-thread ware. Re-hang weights. For the first row only push up leading tension buttons to "P".

Remove weights. Holding the wool-end between fingers and as near as possible to the work with a sharp tug, pull wool backwards over each needle so that it will unhook. Proceed to the end of the row, or as far as required. If slide and end of wool are at opposite sides, lift up all four centre cams, push up all four tension buttons to "P", and bring over slide to the wool end without knitting. Replace tensions and push down centre cams. Rethread wool and proceed knitting.

28. To pull back

Circular knitting can be done only in stocking stitch. Therefore, only stocking stitch patterns can be knitted e. i. lacy stitch, stripes of different colours etc. Circular knitting is suitable for socks, scraves, children's underwear, leggings, etc.

29. Circular Knitting

To cast on: K.1, P.1, every needle. This will give a locked edge at the bottom of the garment, which is later opened and finished by casting off or sewing a hem. After casting on the slide is on the right hand side. On the front bed lift up the left centre cam. On the back bed, lift up the right hand centre cam

At the same time, set tension buttons as follows: On the front bed left tension to two below "M" (for 3-ply wool) and right tension to "P". On the back bed, left tension to "P" and right tension two below "M" See diagram

Racking lever should now be placed in position "0". It is necessary to use more weights for circular knitting than rib. It may be advisable to pull down work by hand from time to time when using thicker wool. Use side weights as well as the bar weights.

- A) Counting from the side opposite to the slide approximately 30–35 stitches, push these needles into holding position (see paragraph 31) Knit one half and decrease for shaping the neck (round or V) as required. As there is no weighting in the middle, hook one side weight into the fabric to ensure sufficient pulling down.
- B) Transfer 32 knit stitches from the centre, on the opposite purl needles with two bodkin combs, so that there are two stitches on each of the 32 purl needles. Now transfer these stitches on to the two bodkin combs and attach the clips. Push the empty needles down to the bottom of the bed. Knit the section on the slide side and shape as required. When one side is knitted and cast off, replace stitches from the bodkin combs and knit second half the same way.

30. Neck Shaping

SMALL: Open the latches of two needles on the front bed and two needles on the purl bed facing each other. Transfer the left hand stitch from the front bed on to the next needle on the left of the purl bed. Now the right hand stitch from the purl bed on the next needle to the right on the front bed. Leave the two empty needles in the working position with latches open. See diagram.

31. Buttonholes



LARGER: Open the latches of four needles on the purl bed and two needles (facing this four) on the front bed. Working on the back bed only, transfer the second stitch on to the first stitch and the third stitch on to the fourth. On the front bed transfer

the first stitch on to the second. Leave all empty needles in working position, latches

LARGE BUTTONHOLES: According to the size of the buttonhole required, push up the number of needles so that the stitches are behind the latches. Take a piece of wool in a different colour and lay it in te open latches. Pull the needles down by hand to knit-in the new wool. Continue knitting. When the garment is finished, thread a sewing needle with the wool (same colour as garment) and thread it trough each of the buttonhole stitches. Remove the differently coloured wool and finish the buttonhole off.

32. The Holding

The Girotex double-bed has a holding position as all the single bed machines, i. e. a third needle position. It is mostly used for turning the heel on a sock, fancy patterns, Fair Isle, or dividing and neck shaping. Needles not required are pushed up against the top rail, so that all stitches are beyond the latch. For example, push every fourth needle into holding position. Now knit slowly across needles in working position for 1–3 rows. Bring back needles from holding position replace stitches with a bodkin and for the first row bring up leading tension button to "P". Make sure that all latches are open on those needles which have been brought back from holding position, to prevent dropping of stitches.

FAULT	CAUSE	REMEDY
Dropping of ena stitches.	a) The slide is pushed too far past the end stitches and the wool coming through the tension regulator is too slack and will loop underneath the needles when pushing slide across.	a) Push the shuttle approximately 11/3 inches beyond the last stitch. If slide is for any reason farther away, bring it nearer and pull surplus wool back through the tension discs.
	 b) Slide is not taken far enough across all the needles, and therefore wool is not fed into all the end need- les. 	b) as for a)
	c) Tension regulator on the wool guide is too loose and, wool is coming too freely into and over the need- les.	 Set tension disc so that the woo lies horizontal between tension disc and tension wire.
	d) There is not enough weight on the double-bed or sides are not weighted. For single bed side weighting is not done properly.	 d) Hook on more weight and side weights.
	e) Shuttle lays in wool too soon, i. e. above the latch instead of into it. Stitch drops.	 e) With screw-driver ease out two screws on the carrier base and se it approximately I mm. into oppo site direction to the knitting. Fasten screws.
	f) Bristles on the brush assembly be- come entangled into the metal slot. This prevents free flow of wool into the needles.	f) Trim bristles:
2	g) It has been forgotten to unhook the wool from front lever where it was placed after casting on. This causes uneven weighting.	g) Release wool.
	h) Comb and weights caught on the clamp or side connecting bar of the two beds.	 h) Push clamp handle out of the wa (inwards) and pull down work from time to time.
Dropped stitches in the middle.	a) Shuttle is too high.	 a) Lower the suttle by pushing it gentl downwards approximately 1 ms above the needle crossings.
	b) Brushes do not open needles.	 b) Press gently brush holders so the brushes are pointing slightly in ward.
	c) Bent needle latch.	c) With pliers, bend latch sideway to straighten it. Check whether opens and closes freely. If this not the case, exchange needle.
Uneven knitting.	 a) Bent needle latch. b) A row of small stitches and a row of large stitches is caused by cams set to different tensions. 	a) as above for c) b) Set all four tension pointers same scale.
Uneven size of stitches within a row.	a) Uneven weighting.b) Badly wound wool on the cone or wool used from ball.	 a) insert comb in the centre of wor b) Well wound and only coned wo used.

FAULT	CAUSE	REMEDY
Wool breaks and holes in the fabric.	a) Tension too tight.b) Too much weight.c) Badly knotted wool.	a) Loosen spring on the wool-feed.b) Less weight.c) Make smaller knots.
Slide stops when knitting across fabric.	 a) One or more needles are not in knitting position nor quite at the bottom of the needle bed. 	 a) Push needles right down and make this sure always before bringing slide across.
	 Racking lever was moved unknowingly when needles were working. This causes jamming of needles. 	 b) Bring all four tension buttons to P, pull up all four centre cams. Now move slide slowly to clear work. After rectifying mistake, replace tensions and push down centre cams.
	c) After changing from K.1, P.1, every other needle (lever position "0") to any other rib and you have forgot- ten to move lever to neutral posi- tion as 1, 2 or 3.	c) as for b)
After changing from rib to stocking stitch, the first row wont knit.	a) It was omitted to alter the tension to a lower setting for the stocking stitch, or not pushed up the leading cam to P for the first row.	a) Pull back too tightly knitted first row. Push up leading cam to P (for the first row only) and set fol- lowing cam to required tension for stocking stitch. (one or two below M for 3-ply wool). After first row set both cams to same tension.
Wool breaks after loos- ening tension from tight stitch.	a) Leading cam was not pushed up to P for the first row after transit	 a) Pull back wrongly knitted row, join wool and set leading cam to P for first row.
Machine stops knitting.	 a) Needles are not brought up into working position when centre cams are out of action (as after circular knitting). 	a) Return slide and release centre cams by pushing knobs gently down.
One needle does not knit.	a) Latch of needle is broken off.	a) Mark place where needle is broken by coloured pencil. Change needle as follows: Ease out five grub-screws on the top rail on that bed where needle is broken. Holding the protruding foam rubber band under the rail at both ends, slide out rail completely. Keep rubber under rail as originally- (do not reverse rubber). Now take out damaged needle and replace it by a new one. Now with the long weight push up needles so that when replacing rail latches will not interfere or jam under rail. Holding both ends of rail, keeping foam rubber in same position as before

rubber in same position as before, slide back slowly rail so that first and

last needle are covered by it. Tighten grub-screws and see that all needles move freely but not too loosely.

All the above mentioned faults are due to inexperience and will soon disappear. Keep your machine in good condition and it will serve you well.

Cast on 64 stitches K.1, P.1, every other needle. Lever in position "0" and tension on "M" (32 stitches on each bed). Knit two circular rows and join. Knit 60 rows. This is

the ribbed welt.

Now pull back 16 stitches and transfer all the purl stitches on to the empty needles on the front bed. Push empty purl needles down to the bottom of needle bed. Alter the position of racking lever from "0" to "1".

Counting from the stitch where the wool has been pulled back to, push up 32 needles on the purl bed (every needle) and open latches. Remove weights from the bottom of the work (but leave the casting on comb). Widen gap between two beds slightly. Open the latches of 16 needles on both sides on the front bed (32 in all). Transfer first one set of 16 stitches with a bodkin comb, as follows: Remove safety clip. Hook on 16 bodkins onto 16 needles. Pull up needles so that the stitch passes the latch. Push down so that all stitches are now on the bodkin comb. Secure clip. Drop the bodkin comb down in between the needle beds, with the clip uppermost. Turn round the bodkin comb so that the outside stitch comes round to the centre of the purl needle. Push the bodkin comb up from below (Never pull from above) between the beds, remove the clip and transfer the stitches on to the 16 empty purl needles. Repeat this on the other end of the work. Replace weights, bring beds closer together (as previously) and knit circular as follows. On the side where the slide and wool are, and where the first needle is, pull up the nearest centre cam. On the opposite bed push up nearest tension button to P and the following between M-L (on

nearest tension button to P and the following as follows:
4 ply wool) knit one row and repeat this setting as follows:
Nearest centre cam out of action. Leading tension button up to P, following between M-L. See diagram
Knit 50 circular rows.

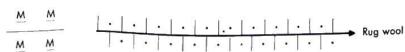
Turning the heel. Push down centre cams from the purl side and set tension as follows. For the first row only leading cam to P and following to M-L. On the front bed both centre cams out of action and push both tension cams to P. The heel is knitted on the back bed only. As a result of this, the weights will not function correctly and therefore the knitting should be held down firmly by hand (pulling on the back half of the fabric). Now starting with the side where the slide is, push up one needle to the holding position and knit across. Repeat the operation taking one stitch at the beginning of each row until you have ten stitches held at either end of the purl bed. Hold the work down very firmly. Starting from the centre, to the outside edge, transfer the first stitch and the loop from the holding position back to the needle. In the same way, transfer on stitch at a time at alternate ends, until all needles are back in knitting position. The foot: Release front centre cams and set for circular knitting as before, and knit approximately 60 circular rows or the required length for the foot. The toe: working on both beds and on both sides of needle beds decrease one stitch as follows. Transfer second stitch on to the third and first stitch onto the second. Empty first needle down. Knit-two circular rows and repeat this whole procedure six times. Continue decreasing in the same way, only knit one row in between. Repeat this until eight stitches remain. Cast off or graft.

This method of knitting is used for rugs, blankets, string or cane mats and any thick fabric you may wish to procedure.

Cast on K.1, P.1, every other needle; lever position "0", Make sure that first and last needle are on the back bed. Widen distance between two beds to allow thick rug wool to be laid over the knitted row, into the gap between two beds. Holding rug wool firmly down, knit one row. Repeat this after each row knitted. It is advisable to use cotton as knitting yarn for rugs to give hard wear.

Tension

Needle setting



34. Sock pattern

5. Knitting and Weaving

Girotex single bed

1. Stocking stitch or plain knitting

After the ribbed welt of K.1, P.1, every other needle (lever position "0") has been knitted, stocking stitch is continued as follows: Push up all needles which have been used on the front bed with a ruler or bodkin comb until the latches open, but not further. Now using the bodkin (see illustration) transfer all stitches from the front bed on to the

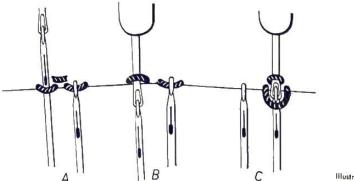


Illustration 10

empty needles on the back bed, as follows: — Holding bodkin in the right hand, hook on needle, so that the bodkin faces parallel to the needle, pull up needle so far that stitch goes beyond latch. Push down to secure stitch on the bodkin, unhook from needle. Now with the left hand push in empty purl needle from behind into the stitch, and pull out bodkin. Repeat this all along the line. Now push down all empty knit needles to the bottom of needle bed into resting position.

2. Tension Setting

Immediately after having transferred from rib to stocking stitch, the tension is reduced to approximately half of that used on a rib, for example, if knitted on "M1" for 3-ply wool in rib, set tension two below "M" for stocking stitch. (See direction for tension settings).

3. Converting GIROTEX to Single bed machine

Unscrew the two handle knobs as well as the two serrated screws from the connecting bars on both sides of the needle beds. Pull forward the front bed and detach completely. Now see paragraph top of page 21, beginning "the stocking stitch".

Casting on for Stocking Stitch

Push up the required number of needles, counting from the centre. From the left hand side move the slide across the needles to open latches, and leave slide on the right hand side. Now push up needles approximately 1/4" above the needle bed. Thread wool-fed and shuttle as for the double bed and fasten end of wool loosely on the first needle on the left hand side. Holding the open single bed comb in left hand, loop the wool under the tooth of the comb and then round the needle anti-clockwise (see illustration) all along.

It is important that this should be done loosely. Now set tension (see par 2) and push leading cam to P for the first row only. Move slide very slowly to ensure that the first needle has cast on properly. After the first row add required number of weights. ness of the needle bed.

The stadics still the stadics of the comb ale below the thick-

The stocking stitch attachment should now be fastened on the back slide brackets by screwing on the two handle knobs. Machine is now ready for stocking stitch. To knit the

first row push up leading cam to "P" for one row only. Please remember to replace cam to required tension after first row has been knitted.

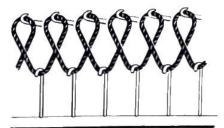


Illustration 11

Casting on. Apart from the above mentioned casting on, there is a quick way. However, this has its drawback in that the cast-on stitches are not locked. Push up required number of stitches, move slide across 1–2 times to open latches. Thread wool. Now insert double bed comb without removing wire between needles holding in left hand and slowly move slide from left to right across. Now you have cast on automatically. Continue as for par. 4.

Increasing must always be done on the side where the slide is standing. Push up the next needle into working position with latch open. Move slide over the work and this stitch will cast on automatically. Care should be taken that on the needle which is pushed up to working position the wool lies underneath the needle when moving slide across it. To increase two stitches, push up the next two needles, transfer the last stitch on to the first empty needle, and the second needle will cast on automatical Make sure that the latches of newly brought up needles are open.

To increase several stitches, push up required number of empty needles, open latch and holding the wire of side weight under the needles, cast on as you have previously done on the single bed comb. Remember to push up leading cam to: P for the first row after several increases have been done, and replace it afterwards to required tension.

To increase or decrease in the middle of the fabric, proceed as follows:

To increase. Push up next empty needle to the left or right as required. Open latch. With the bodkin comb transfer stitches so that the first existing stitch is moved on to a new needle and the rest of the stitches moved all along one needle outward. Now

6. Fully fashioned Increase and Decrease

5. Increasing

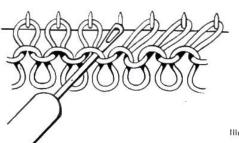


Illustration 12

with the help of bodkin transfer the back of an existing stitch onto the needle which was vacated in the middle of the fabric. Continue as often as required, remember to push up leading cam to P after every change has been made for one row only. To decrease. As previously, only move inward. Push down vacated first empty needle to the bottom of needle bed.

7. Decreasing

Decrease one stitch by using the bodkin, taking the second stitch onto the third stitch, and take the first stitch onto the second needle which has been previously made empty. Now push first empty needle to the bottom of needle bed. To decrease more than one stitch is like casting off. Using the bodkin transfer the first stitch onto the second than one stitch is like casting off. Using the bodkin transfer the first stitch onto the second needle. Now needle. Now push up this needle which has two stitches on it until both stitches lie behind the latch. push up this needle which has two stitches on it until both stitches lie behind the latch. Push up this needle which has two stitches on it until both stitches lie behind the latch. Push up this needle which has two stitches on it until both stitches lie behind the latch. Push up this needle down until the Lay the wool by hand in the hook of the needle, and pull this needle and repeat the whole stitch has knitted. Now transfer this stitch on to the next needle and repeat the whole stitch has knitted. Now transfer this stitch on to the next needle and repeat the whole stitch has knitted. Remember to push down empty needles into the resting position. When procedure. Remember to push down empty needles into the resting position. When laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not pull it, lay it loosely to avoid having a tight cast-laying wool into the needles do not

8. Buttonhole

Move one stitch to the left and one to the right and leave both empty needles up in the working position with the latches open. Knit two rows. Now cross the two loops to make two separate stitches. Larger buttonhole can be made as follows: Push up to make two separate stitches are behind the latch. Take another piece required number of needles so that the stitches are behind the latch. Take another piece of wool (of different colour) and lay it in the open latches. Now pull the needles of wool (of different colour) and lay it in the open latches. When garment is finished down by hand to knit the new wool. Continue knitting. When garment is finished down by hand to knit the same colour of wool as the garment, and thread it thread a sewing needle with the same colour of wool as the garment coloured wool and through each of the buttonhole stitches, remove the different coloured wool and finish the buttonhole off.

9. Knitting of Pockets

Work pocket lining according to pattern, holding these stitches on Bodkin Comb. When row for inserting pocket is reached, cast off required number of stitches using spare piece of wool, replacing these with those held on Bodkin Comb. Reweight whole row (as para 13 page 23) and continue to knit.

10. Double Hem

Cast on the single bed comb and knit the required number of rows. For 1" double hem knit 2". Now slightly push forward needles and rehook now open casting-on comb (as for reweighting). Remove the comb at the base of the knitting. Now with bodkin transfer each cast-on stitch onto the corresponding needle. Adjust the comb so that it secures both rows of stitches. For the first row only, push up leading cam to P. Rehook weights and continue knitting. To have a picot edge, after casting on knit 1" and make a row of buttonholes close to each other. Continue knitting for another inch. Now make double hem as described above.

11. To knit on

Old or partly finished garments can be knitted on by placing every stitch on a needle with a bodkin. Make sure that the knit stitches are hung on the front bed needles and the purl stitch on to the back bed. Bring in comb as for reweighting and hook on weights. For the first row only push up leading coms to P.

12. Fair-Isle

Select needles with which you want to knit in new colour. * Push these needles up into holding position, and knit one row with the basic colour. Now pull needles down to knitting position, open latch and lay in new colour, and pull only so far down as to catch wool between hook and latch. Lift up both centre cams and bring slide along to knit in new stitches. Keeping centre cams still out of action, return slide to the basic wool end to enable you to knit next row. Repeat this from * as often as required.

However, if you want to knit both colours simultaneously, select needles for new colour, push them up so that basic colour comes beyond the latch of needle. Now place new that the laying-in wool is loose and free to be knitted in by the slide.

First of all remove single bed knitting bar. With the base of the single bed comb (see Accessories) extend all needles in working position approximately 1/4" beyond the edge of the needle bed (see that the stitches do not go behind the latch). With the left hand swing the work slightly outwards until all stitches are in the crooks of the needles. With the right hand in the middle of the single bed comb with the hooks already attached, take it up to the back of the work in between the needles, and lower it until each tooth is resting on the garment. See that it is evenly spaced over the knitting. Bring up weights now on this comb, and remove original comb. Lift the tension nearest the work for this row up to "P", remembering to set it to its original tension before returning. Knit two or three rows and then replace stocking stitch bar.

13. Reweighting the work (Stocking-Stitch)

```
Double-Bed Pattern No. 1 D K.1, P.1, every other needle
                           " 2 D K.1, P.2, Zig-Zag
Machine Patterns
                           " 3 D Raindrops
                              4 D Double-row Lace-stitch
                           " 5 D Zig-Zag Lace-stitch
                           " 6 D Cable-stitch
                           7 D Tight rib with K.1, P.1, every needle
                            " 8 D Horizontal tucks
                            " 9 D Open work Pattern
                            " 10 D Arched Pattern
                            " 11 D Criss-Cross Pattern
                            " 12 D Pleating
                            " 13 D Large Zig-Zag Pattern
                            " 14 D Racking Pattern
                             " 15 D K.2, P.2, Rib
                             " 16 D K.2, P.2, Zig-Zag
                             " 17 D Stole Pattern
                             * 18 D Patent Herringbone Pattern
                             " 19 D Patent-Stripes
                             * 20 D Fisherman's Rib every other needle
                             " 21 D Half Fisherman's Rib or Holf Patent Rib
                             * 22 D Fisherman's Rib Diagonal Pattern
                              " 23 D Full Fisherman's Rib
                              " 24 D Zig-Zag Pattern
                              * 25 D Zig-Zag Pattern
                             " 26 D K.2, P.1
                              " 27 D Simple Lace Pattern
                              " 28 D K.2, P.2, Zig-Zag
                              " 29 D Large Zig-Zag
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Weaving-Patterns for the Double-Bed

Pattern for the Single-Bed

Pattern	No	30	ח	Weaving-Pattern	Patte	rn i	fo	r	the Single-Bed
	"	22	2	weaving-Pattern					
		31	D		D		-	c	D. Harfly Pattorn
	H	32	D		rattern	No.			Butterfly Pattern
*	*	33		w		"	2	S	Honeycomb Pattern
*	*	34			**	"	3	S	Lace Pattern
H	*	35		*	**	"	4	S	Knit according to Diagram
**	*	36	D			"	5	S	Lace-Pattern
	•	37	D	Open Stole Pattern		"	6	S	Two-Coloured Stripes

List of	Illustration No	. 1	6
Illustrations	" "		Cam-Box (from
osirations	,,	2	Proced above and I I
		3	Cam-Box (from above and below) Procedure of Knitting
	" "		
	"	4	The 3 different needle positions
		5	The Citterent needle
	" "		The Shuttle Positions
		6	The Wool-Guide
	"	7	Latch-Needle
	"	8	Controlledie
	" "		Casting-on
		9	
	,,	10	Diagram for Fisherman's Rib or raised Rib Casting-on for Single-bed Increasing and Decree
		11	Consterring from piles Rib Or served Pib
	" "	10	Casting-on for c: Nib to Stock: Idised Kin
	" "	12	Increasing Single-bed Sking-Stitch
		13	Cast and Decrease
		14	Increasing and Decreasing in the middle of fabric Cast-on K.2, P.2, Rib Double-Bed Machine
	" "	14	Double-Bed Machine
		15	Single-Bed Machine Parts of K
		16	Part Machine
		17	dis of Knitting M.
		17	Parts of Knitting-Machine Accessories to the Machine
			the Mach

NOTE: PAGES 25 & 26 ARE BLANK PAGES IN THE MANUAL

Double Bed Machine Patterns



M M

Pattern No. 1 (D) K.1, P.1, every other needle.

Racking-lever position 0

Pattern No. 2 (D)

K.1, P.2, Zig-Zag.
Cast on as for K.1, P.1, every needle. On the knitbed transfer every other stitch on to the next needle. Push down empty needles.

Racking-lever position 3.

Knit 1 row, move lever posi-tion 2. Kit 1 row, lever po-sition 1. Knit one row move lever to 1, to 2, to 3, and so



Pattern No. 3 (D) RAINDROPS

Cast on as for pattern No. 1. Transfer all stitches to the back bed. Push empty needles down. bed. Push empty needles down.

On the front bed, push up every 8th needle, latch open.

Knit 6 rows. Transfer each knit stitch on to the purl needle. Push B needles down. Push up A needles, latches open. Knit 6 rows. Continue in this way with alternating positions.



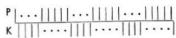
Pattern No. 4 (D)

Double-row Lace-stitch.

Double-row Lace-stitch.
Cast on K.1, P.1, every needle and reset your stitches as shown below: (K.4, P.5) Knit 2 rows. *
On the front bed only, transfer first stitch on to 2nd, 3rd stitch on to 4th. Leave empty needles up, latches open. Repeat this on each group of 4 to the end of row. Knit 2 rows. Again on each group of 4 stiches now transfer the 2nd stitch on to



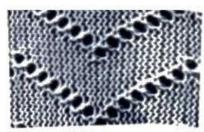
the 1st, and 4th stitch on to 3rd. Leave empty needles up. latches open. Knit 2 rows. Repeat from *



Pattern No. 5 (D)

ZIG-ZAG LACE-STITCH.

Cost on as pottern No. 1. Transfor all plindes to the buck bed On the front bed push up writy 8b needle, latch open. Knit 2 rows. Transfer these stitches from the front bed on to the back bed. Push empty needles down. Push up every this needle, latch open. Knit 2 rows. Continue un-



fill you have probed up the 13th headle. then have opinin to the 8th needle. HIIIIIIIIIIIII M M

Pattern No. 6 (D)

CABLE-STITCH.

Cost on K.1, P.1, every other needle. Transfer oil knit shi-dres us to the back bed. Now-bring up needles on the frush-bed as shown on the diagram. Knit 8 rows, " With a backin in each hard cross the 2 stin-dles on the frush bad oil along the row. (Always cross the stin-dless from right to left or flows. thes from right to left or from

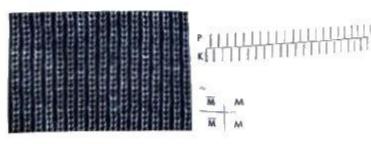


left to right). Push up the leading termin can to P for the first row offer tradeony has been much Replace cam to tension and but it rows for as desired). Repeat from *

M

Pattern No. 7 (D) Tight eib with K.1, P.1,

Racking-lever in position 1.



Pattern No. 8 (D)

Harizontel Tusks.

Cost on K.1, P.1, every needle (os on pattern No. 7). Knit to rows. On the back slide lift up both centre-canst. On the front slide change (when slide is on the left hand side) the left bond tension to one before Al. Knit 1 row. Bring other sension knob on the font slide some before the sension and be-



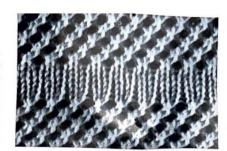
low M. \$40 4-4 years. Replace contra-cons of the feeth stige, values from transfer to original series () obove M) and Amir 10 years. Separat From 1

M

Pattern No. 9 (D)

Open Work Pattern

Cast on K.1, P.1, every needle. • O the front bed only transfer 1st stitch on to 2nd, 3rd on to 4th, 5th on to 6th, and so on. All needles remain in knitting position, open latches. Knit 2 rows. Still working on the front bed only, transfer 2nd stitch on to 3rd, 4th on to 5th, and so

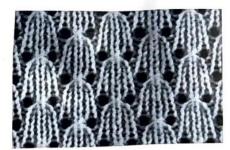


on. Repeat this approximately 5 times and starl again from *

Pattern No. 10 (D)

Arched Pattern.

Cast on K.1, P.1, every needle. *
On the front bed only transfer
1st stitch on to 2nd, and 3rd
on to 2nd. Now 7th stitch on to
8th and 9th on to 8th. Continue
in this way all along the line.
Knit 4 rows. Now transfer 4th
stitch on to 5th and 6th on to
5th, and 10th stitch on to 11th

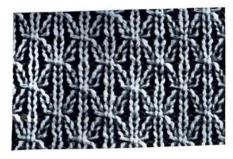


and 12th on to 11th. All along the line follow this pattern. Knit 4 rows. Repeat from *

Pattern No. 11 (D)

Criss-Cross Pattern

Cast on K.1, P.1, every needle. *
Knit 4 rows. On the front bed
only, with a bodkin in each
hand cross over the following
stitches: 1st and 3rd, 5th and
7th, 9th and 11th and so on.
Knit 4 rows. Now cross over these
stitches: 3rd and 5th, 7th and
9th, 11th and 13th and so on.
Knit 4 rows. Repeat from*.



Remember to bring leading cams up to P every 1st row after stitches have been crossed over. Replace cams to normal tension after 1st row.

Pattern No. 12 (D)

PLEATING.

This pattern is best knitted in 3-ply wool. Cast on K.1, P.1, every needle. Complete one circular hem. Before joining transfer needles according to diagram below. (8th knit stitch onto 9th purl, and 4th purl on to 5th knit stitch. Repeat all along the line. Push down empty needles to the bottom of the bed).





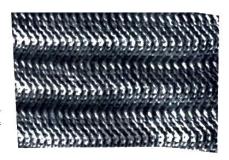
$$\overline{M}$$
 \overline{M}

Pattern No. 13 (D)

Large Zig-Zag Pattern

Cast on K.1, P.1, every needle.* From the left hand extreme position move racking-lever after every other row, as follows: 3-2, 2-1, 1-1, 1-2, 2-3.

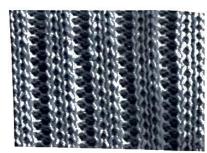
Repeat from *



Pattern No. 14 (D)

Racking Pattern.

Cast on as shown below. * Rakking-lever position. 1 Knit 1 row. Move lever to 2. Knit 1 row. Move lever to 1. Knit 1 row. Repeat * as from beginning.



Pattern No. 15 (D)

K.2, P.2, Rib.

Lever on 3 on extreme left. Set needles as shown below. 2 up 1 down, on both beds. Push slide across to open latches. Move lever into position 2 and cast on. After casting on move lever into position 3 and knit circular hem. Continue knitting.



$$\begin{matrix} P & \cdot & | \\ \tilde{K} & | & \cdot & | \end{matrix}$$

Pattern No. 16 (D)

K.2, P.2, Zig-Zag.

Cast on as for pattern 15. Move racking-lever after every row from 3-2 and from 2-3.

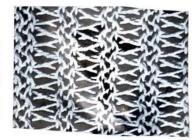


Pattern No. 17 (D)

Stole Pattern.

This pattern is knitted in cardigan stitch (half Fisherman's rib). Set needles as shown below. Move racking-lever in every 2nd row from 1–2 and back from 2–1.

Important! Pattern must end with 3 stitches on the right hand side on the back bed.



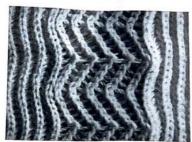
Р	• •	1	1	11	11
K	1	[]	[]		·· ··

Pattern No. 18 (D)

Patent Herringbone Pattern

Cast on K.1, P.1, every other needle. Lever position 0. After casting on, move lever to 1.* Knit 10 rows, changing position of lever before every row from 1-2 and back to 2-1. Now knit 1 row without changing position of lever.

Repeat from *



Important! During Zig-Zagging it will be found necessary to push up one extra needle at each end to keep correct needle position (see instruction on Fisherman's rib).

Pattern No. 19 (D)

Patent-Stripes.

Tensions and setting of needles as for pattern 18. Change position of lever after every 2nd row from 1–2 and back from 2–1.



Pattern No. 20 (D)

Fisherman's rib every other needle.

Cast on according to the diagram. It is important to have the correct needle setting as shown in the diagram.





Pattern No. 21 (D)
Half Fisherman's rib or half
Patent rib.

Needle setting as for pattern

Pattern No. 22 (D) Fisherman's rib Diagonal

Tensions and needle setting as for pattern 20.* On the front bed transfer every 7th stitch on to the 7th stitch on to the 7th stitch on the back bed. Leave empty needle in knitting position with open latch. Knit 2 rows. Now transfer every 8th stitch from front bed to 8th needle on back bed and leave empty needle up with



open latch. Knit 2 rows. Repeat the pattern row moving it 1 stitch to the right and knit 2 rows, until you have 9 stitches (or as many as you like) at the beginning of the row without pattern.

Repeat from *.

M P

M

M

Pattern No. 23 (D)

Full Fisherman's Rib.

Cast on as for K.2, P.2, rib. Circular hem. Position of needles K.2, P. 2. Change to full Fisherman's rib (see instruction note for patent setting).



 $\begin{smallmatrix} P & \cdot & | \\ K & | & \cdot & | \\ \end{smallmatrix}$

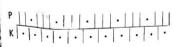
M P P M

Pattern No. 24 (D)

Zig-Zag Pattern.

Cast on K.1, P.1, every needle. Rearrange the position of the needles according to the diagram. Move racking-lever from position 1-2 and from 2-1 and from 1-2, always knitting 1 row in between each movement.





Pattern No. 25 (D)

Zig-Zag Pattern

For casting on and position of needles see illustration 2. Move lever from 2-3 and back again from 3-2 then again to 3. Knit 1 row in between each move-



Pattern No. 26 (D)

K2, P2

For casting on and position of needles see illustration 23. This pattern can be knitted continuously.



Pattern No. 27 (D)

Simple Lace Pattern

Cast on K.1, P.1, every other needle. Transfer the stitches according to the diagram. On the front needle bed transfer the first stitch on to the 2nd. Knit 2 rows. Now the 2nd stitch on to the 1st stitch. Knit 2 rows. Again 1st stitch on to the 2nd stitch, and so on.

Leave empty needles in working-position with the latches



Pattern No. 28 (D)

K2, P2 Zig-Zag

Cast on K.2, P.2, lever in position 3 and knit 2 rows then to position 2, again knit 2 rows. Move lever to position 1, knit 2 rows, again knit 2 rows in position 2 and so on. (see illustration 13).



Pattern No. 29 (D)

Larg Zig-Zag

For casting on and position of needles see pattern No. 2 (D). Lever in position 2. Knit 2 rows. Move lever into position 3. Knit 2 rows. Move lever back into position 2. Knit rows. Move lever into position 1 and knit 2 rows, again to position 2 and knit 2 rows and so on.



M M

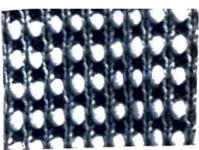
M

Weaving Patterns for the GIROTEX Double-Bed Machine

Pattern No. 30 (D)

Cost on K.1, P.1, every other needle. Lever in position 0.

Widen the gap between the needle beds. After every 3rd row lay the rug wool in between the needle beds. Hold the rug wool well down to prevent the wool from knitting into the needles.



M M

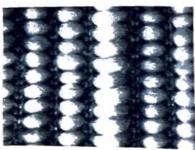
M

M

For 3 or 4 ply wool.

Pattern No. 31 (D)

Cast on according to diagram. Using a 2-ply wool. Lay over rug-wool. Knit 1 row. Lay over rug wool and knit 1 row. Zig-Zag each row, from 1-2, from 2-1 and from 1-2 and so on.

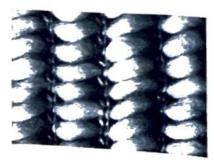


 $\begin{matrix} P & \cdot & | & \cdot \\ K & \cdot & | & \cdot \\ \end{matrix}$

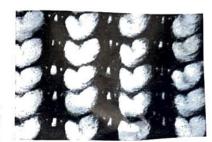
Pattern No. 32 (D)

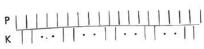
...

Cast on K.1, P.1, every other needle and transfer stitches according to diagram. Knit 1 row. Lay over rug-wool, knit 1 row and so on.



M





M M M

Cast on K.1, P.1, every needle. Transfer stitches according to diagram using 2-ply wool. Every 3rd row lay over the rug-wool.

Pattern No. 33 (D)

Pattern No. 34 (D)

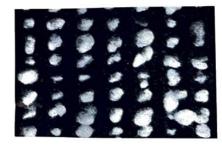


M M

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Pattern No. 35 (D)

Cast on K.1, P.1, every other needle using 4-ply wool. Lay over soft rug-wool. Knit 1 row. Lay over the rug-wool. Knit 1 row. Repeat.



M M M

Pattern No. 36 (D)

Cast on according to diagram with lever in position 1 on left hand side. Use 2-ply crochet cotton. Move lever after each row. From 1-2, from 2-1 and



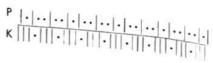
P | . . . | . . . | . . . | . . . |

M M Pattern No. 37 (D)

Open Stole Pattern

Cast on K.1, P.1, and transfer according to diagram. Racking lever on left. Change lever from pas. 1 to pas. 2 after every 2nd row when slide on left hand side.





P M

Patterns for the Single-Bed

Pattern No. 1 (S)

Putterfly Pattern

Knit 4 rows. Drop every 4th stitch down 4 rows and pick up with crochet hook. Pass behind 3 loops, knit 4th and pull trough and over the front of the work. Replace the stitch on the needle. Knit 4 rows and repeat some pattern. This time start to drop the 2nd stitch and every 4th all the way along the row.



м м

Pattern No. 2 (S)

Honeycomb Pattern.

Knit 4 rows. * Push up every 4th needle into holding position. Knit 4 rows. Push up now all the needles into holding position, lay a new coloured wool into the needles and knit one row. Starting now with 2nd needle pushed into the holding position and every 4th all along the line. Repeat from *

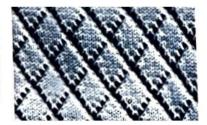


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Pattern No. 3 (S)

Lace Pattern.

Cast on. * Transfer every 8th stitch onto the 7th all along the row. Leave empty needles in knitting position with open lotch. Knit 2 rows. Now transfer every 9th onto 8th, 17th onto 16th, 25th onto 24th and 7th onto 8th, 15th onto 16th, 23rd onto 24th and so on. Empty needles remain in knitting position latch open. Knit 2 rows.

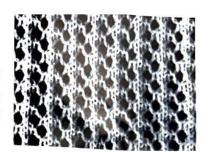


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Pattern No. 4 (S)

Lace Pattern.

Knit 2 rows. * Transfer 5th and 7th stitches onto the 6th all along the line. Empty needles remain in knitting position with open latch. Knit 2 rows. Now transfer 2nd and 4th stitches onto the 3rd, 8th and 10th onto



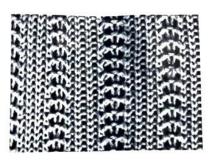
9th, and 14th and 16th onto the 15th all along the row. Knit 2 rows. Repeat from *

M M

Pattern No. 5 (S)

Knit According to Diagram.

Knit 3 rows. Push up centre needle in each group of five stitches into holding position. Knit 3 rows. Now bring back needles from holding position by laying in wool into needles as stide is brought along. Knit one row and repeat currently.



1:1:11111-1:11111-1:11111

M M

Pattern No. 6 (S)

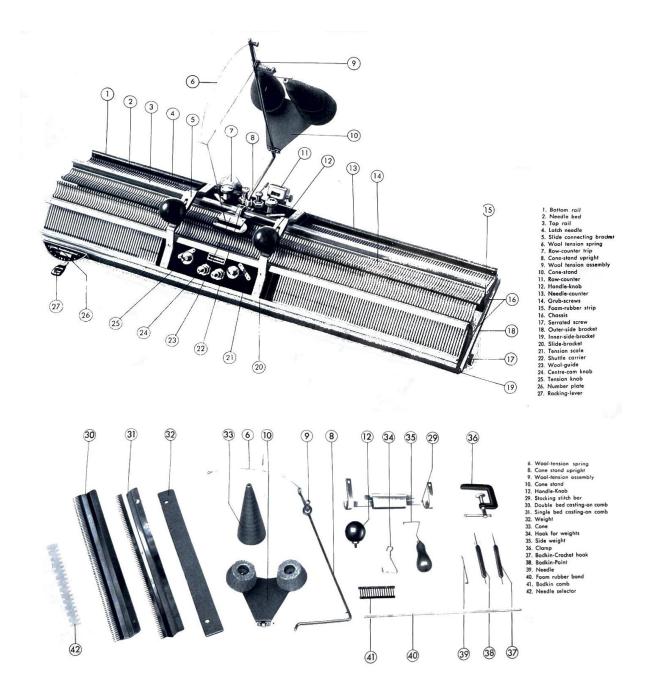
Two-coloured Stripes

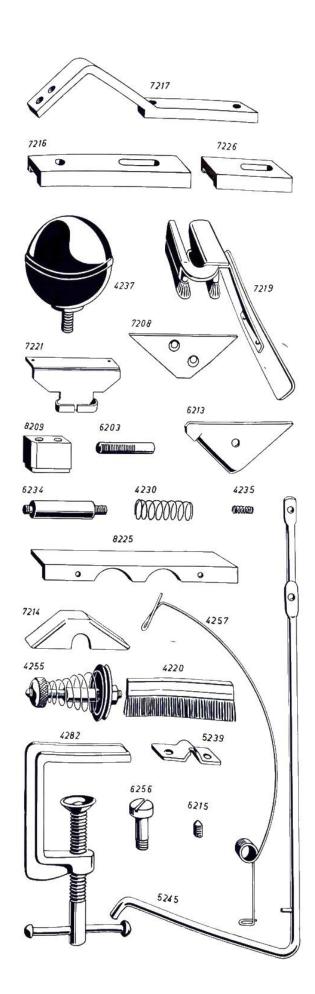
Cast on every needle. * Knit as many rows as required of one colour. Change wool and insert new colour, knit as many rows as required.

Repeat from start. *



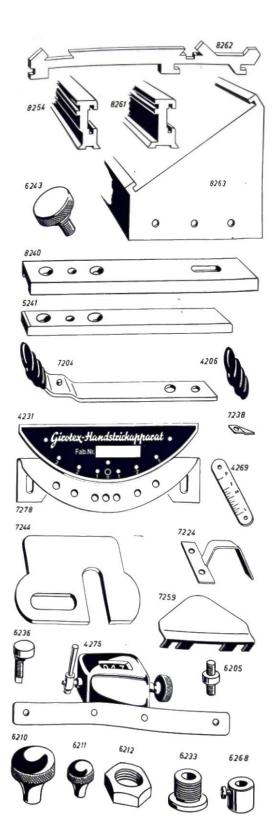
M





for accessories Order No. 7217 Slide bracket 7216 Slide connecting bracket 7226 Pressure-bar bracket 4237 Knob-handle 7219 Shuttle 7221 Wool-guide of shuttle 7208 Tension-regulator cam Tension-regulator holder cam 6203 Bolt for cam holder 6213 Centre-cam section 6234 Centre-cam bolt 4230 Centre-cam spring "A" Centre-cam spring "B" 4235 8225 Centre-cam angle bracket 7214 Needle bridge Wool-tension assembly 4225 4257 Wool-tension spring 4220 Shuttle brush 4282 Clamp 5239 Cone stand bracket 6256 Cone upright screw 6215 Grub-screw (needle bed)

5245 Cone stand upright



Order No. for accessories							
8262	Needle bed						
8254	Top rail						
8261	Bottom rail						
6243	Serrated screw						
8263	Chassis						
8240	Outer-side bracket						
5241	Inner-side bracket						
7204	Racking-lever						
4206	Racking-lever handle						
4231	Number-plate						
7238	Tension-regulator pointer						
4269	Tension-scale						
7278	Needle bed setting-plate						
7244	"G"-Plate						
7224	Shuttle carrier						
7259	Row-counter-trip						
6236	Eccentric bolt						
4275	Row-counter						
6205	Racking-lever bolt						
5210	Tension-regulator knob						
5211	Centre-cam knob						
5212	Centre-cam nut						
233	Centre-cam bush						
268	Cone upright collar						