DFAFF

AUTOMATIC

230-26£:



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Automatic 230-260

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FOREWORD

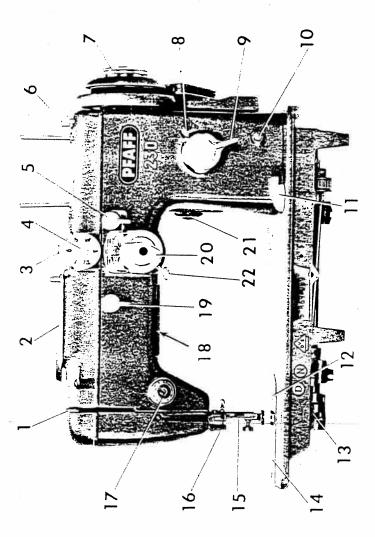
Your dream has come true!

You are now the proud owner of a PFAFF 230-260 Automalic —— the sewing machine with unlimited possibililies.

This instruction book will help you understand the machine and give you valuable tips to make sewing more fun Even if you are an experienced seamstress, you will find this book a valuable guide to easy sewing —— PFAFF

Follow these simple instructions and familiarize yourself with the exclusive automatic features of your machine.

Plaff International Corporation If you have any sewing problems, please contact your Plaff dealer. He will be glad to help you at any time. New York, N.Y.



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Thread take-up lever

Top control cover (A)

Embroidery pattern length lever (E)

Buttonhole slide lever

Stop motion knob

Bobbin winder

8 Stilcti length stop control

9 Statch length forward and reverse lever

R 7079

16 Automatic needle threader

17 Upper tension 18 Sewlight

11 Drop feed control 10 Light switch

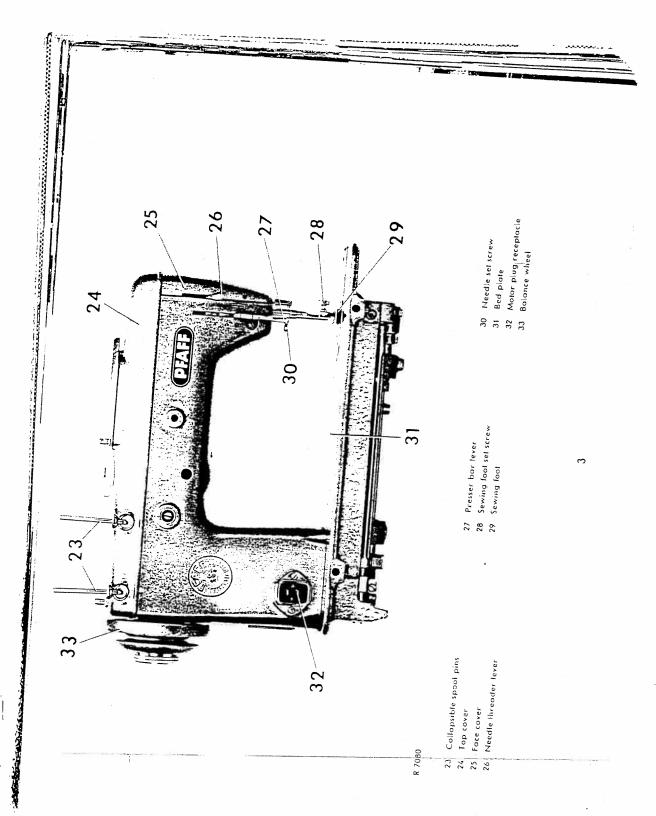
12 Needle plate

"13 Transverse rotory sewing hook

14 Bed slide 15 Needle

20 Stitch width control (D)
21 Motor
22 Needle position lever (C)

19 Sewlight swing-out lever



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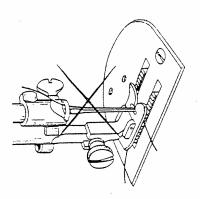
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Fundamentals of Machine Operation

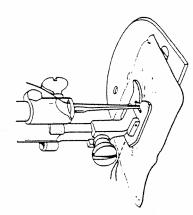




(3) Raise presser bar lever c and place both threads under and behind the sewing foot. Slide material under needle, lower sewing foot — and you're ready to sew.



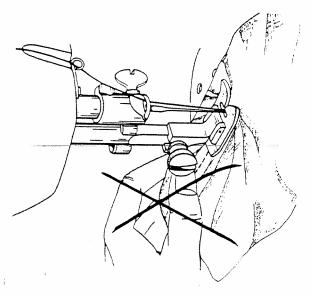
(4) Never run a threaded machine unless you have fabric under the presser foot.



R 7074

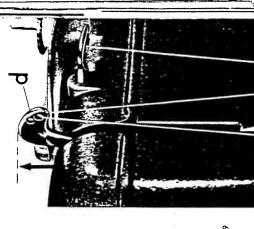
R 6808

Dmportant Points to Remember



The machine will feed the material under the sewing foot automatically. All you have to do is guide the work. Never try to hasten feeding by pushing or pulling the fabric while stitching because the needle may bend or break.

A woman sewing by hand will normally draw one stitch tight before making another. On a sewing machine, this is done automatically by take-up lever d.



Therefore, always turn the balance wheel toward you begin and after you have until the take-up lever is at its highest position before you completed a seam. Failure cause the thread to tangle to observe this rule may under the needle plate or slip out of the needle eye.

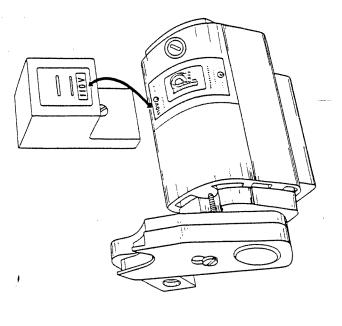
Starting the Machine

When your PFAFF Automatic is delivered to your home, it is ready for sewing.

The machine is driven by an electric motor which requires no attendance, except that the brushes should be replaced after about 400 hours of service.

When you replace the brushes, also check whether the driving belt has the correct tension. If not, adjust the belt idler.

The sewing speed is regulated either by knee or foot control.



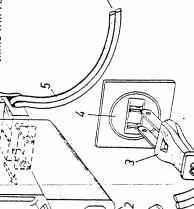
Before you connect the plug with the electric outlet, make sure that the voltage indicated on the motor name plate is within the tension range marked on the electric meter.

Knee Control

Connect electric cords as shown in

illustration

Press the right knee lightly against the knee control lever. The harder you press, the faster the ma-



Foot Control

Push plug 1 into three-pin receptacle 2, and plug 3 at other end of cord into wall outlet 4. The foot control cord is permanently connectIf machine is fitted with knee control, also connect plug of cord 5 with outlet at opposite

end of motor.

ed with plug 1.

Place the foot control under the cabinet within Rest the right foot on the speed control and press. The harder you press, the easy reach of your foot. faster the machine will



R 7132

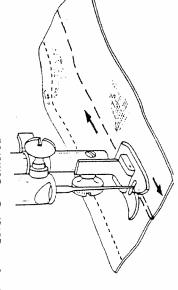
chine will run.

Straight Stitch Sewing

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Set:

Lever C - Centered Lever E - 0 Dial B - 0 Control D - 0



fore setting stitch length). Control e (Lever should be in vertical position be-Lever fregulates the stitch length and controls forward and reverse sewing. stops stitch on length desired.



R 7066

Set e on number that indicates stitch length γ ou want (1-5; the higher the number, the longer the stitch). Turn f right as far as it will go.

Forward Sewing

R 6629

Turn fleft as far as it will go. (The reverse stitches will be the same length as forward

Reverse Sewing

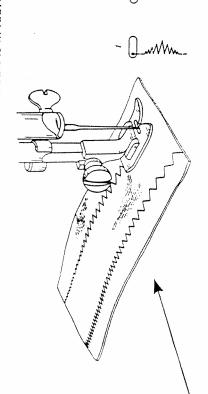
stitches.)

Ligzag Sewing

Lever E - 0 Dial B - 0

Turn control ${\bf D}$ left to desired stitch width (indicated by numbers 1 to 4; the higher the number, the wider the stitch).

Do not move C or D while needle is in fabric.



Lever C changes needle position from left to right. Thus the stitching can be moved from the center to the left or right of the needle plate slot. To change needle position, press lever C down and move into: Notch 1 — The needle is at the extreme left of the needle plate stol in stroight sewing, and swings to the right in zigzag stitching. Lever f lengthens zigzag stitches or packs them more closely together. To form the satin stitch gradually de-

stitching.

crease stitch length almost

to 0 until you get the de-

sired effect.

Notch 3 - The needle is at the extreme right of the needle plate stat in straight sewing, and swings to the left in NoIch 2 - The needle is centered in the needle plote slot in straight sewing, and swings both ways in zigzag zigzog stitching.

Pointer z indicates the position of the needle on the top scale.



Setting Machine for Antomatic Embroidery R 6631

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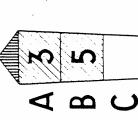
Set: Lever E - 3

Swing back the cover on control A.

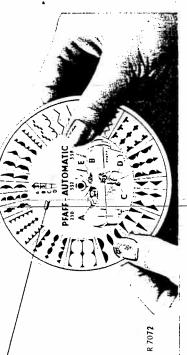
Pick your design and turn the dial so it points to that design. The numbers in the slot indicate the machine dial settings which will give you the design Your embroidery design dial shows all the primary designs you can make with the Automatic. you have chosen.

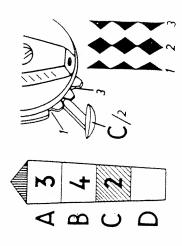
For example:

Turn A (clockwise) so 3 is opposite n. Turn B (clockwise) so 5 is at top.



If embroidery design dial shows no symbol for lever C or control D, Set stitch length lever f (page 8) so stitches are closely packed. disregard them. For such designs C and D will operate automatically. Do not touch





If number 1, 2 or 3 appears in box C, move lever C to the appropriate slot. An arrow → or 0 in box D indicates that control D should be turned to the right as far as it will go without applying force.

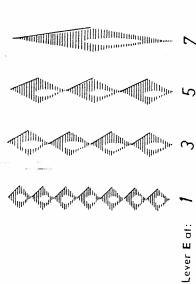
If a 2 appears in box D, you may set the dial exactly at "2"; or, if you want a narrower design, you may set it somewhat lower, say between "1" and "2". Pattern is not clear, if **D** is set above "2".



R 7095

A Big Advantage of the PFAFF Automatic

Each of the primary designs pictured on the embroidery design dial can be sewn in different lengths. Therefore you can vary the appearance of the pattern without changing the stitch length. The pattern length is controlled by lever E, which has seven gradations—four numbered (1, 3, 5 and 7) and three unnumbered. Maximum pattern length is obtained by setting lever E on "7", and minimum length by setting it on "1". When it is set on "0", the Automatic mechanism is disengaged.

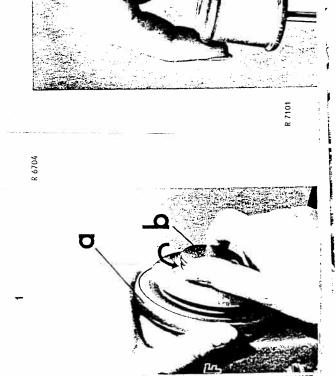


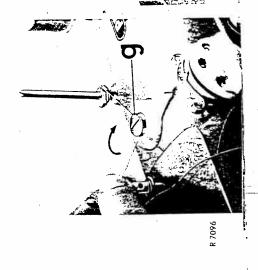


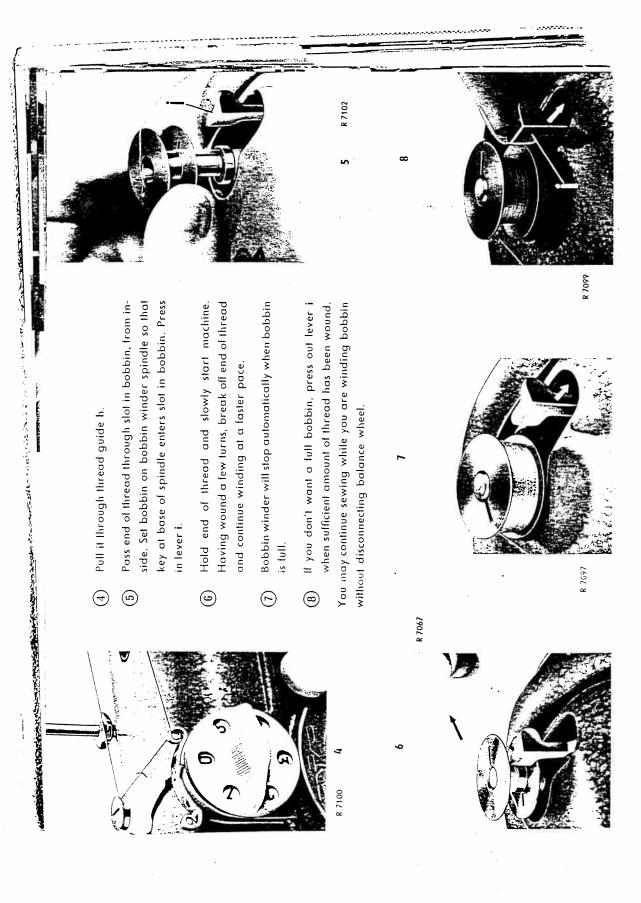
Winding the Bobbin

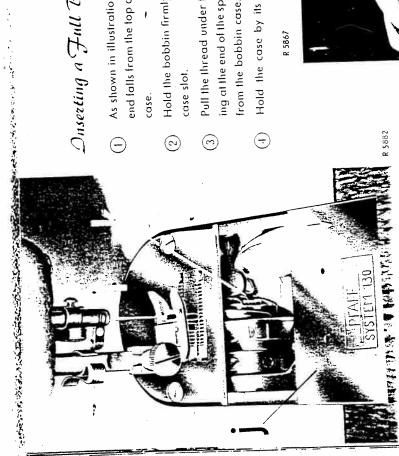
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- Hold balance wheel a and turn stop motion knob b all the way to the left (counter-clockwise). \odot
- Place spool of thread on right-hand spool pin. The bobbin thread should always be the same size as that used on the spool, or a little finer. (2)
- Pull thread from spool and lead it clockwise around thread retainer g. crossing the thread. \odot









Inserting a Full Bobbin into Bobbin Case

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- end falls from the top down toward you, and insert bobbin into bobbin As shown in illustration 1, hold bobbin in left hand so that the thread
- Hold the bobbin firmly in the bobbin case and pull the thread into the $\mbox{\sc Hold}$ case slot. (2)
- ing at the end of the spring. Leave about three inches of thread hanging Pull the thread under the tension spring untit it emerges from the openfrom the bobbin case. (7)
 - Hold the case by its open tatch, so that the bobbin cannot fall out. **(**

R 5869 R 5867

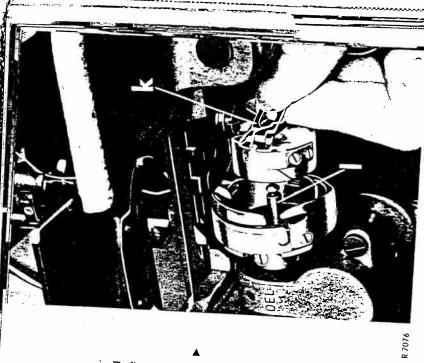
Removing the Bobbin Case

R 5882

Reach under the machine with your left hand and lift ▲ Raise needle to its highest point and open bed slide j. latch k with your forefinger. Pull out bobbin case with bobbin by holding the latch. When you release latch k, the empty bobbin drops out. so you can see sewing hook.

Insecting the Bobbin Case

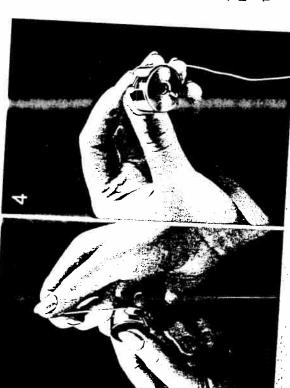
It is best to tilt machine back when inserting bobbin case the first time. After you have become more practiced, you will manage without tilting it. Move bed slide i all the way to the left so you can see the hook. Make sure the needle is still at its highest point. With the thumb and forefinger of left hand, lift latch k and turn bobbin case until slot at end of latch points up. Then place it on center stud 1 of hook.



R 5868

R 5870

In replacing the bobbin case, it is best to hold the loose end of thread so that it will not get jammed between bobbin case and hook. Release latch k and press against bobbin case until you hear it snap into place. An improperly inserted bobbin case will cause needle breakaae.



Recommended Needle and Thread Sizes

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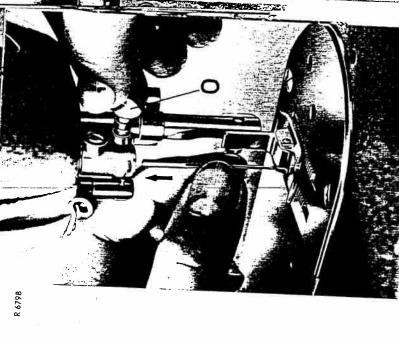
The appearance of the finished seam is dependent on the correct relationship between needle, thread and fabric. Select the proper thread sizes and needles from this chart.

The same size threads should be used in the needle and on the bobbin. Some experienced seamstresses prefer a somewhat thinner bobbin thread. However, the bobbin thread never should be thicker than the needle thread.

Types of Fabrics	Mercerized	Silk	Needle Size	
Fine Fabrics such as georgette, chiffan-batiste, voile, lawn, silk.	80 to 100	0 10 000 1wist	60 or 70	.'
Lightweight Fabrics such as dress silks and cottons, sheer, woolens, shirting, dra- peries.	70 to 80	A & B twist	80	
Medium Fabrics such as lightweight woolens, madras, muslin, brocades, heovy silks and rayon, gabardine.	50 to 70	B & C twist	. 66	
Heavy Fabrics such os coating, denim, corduroy, stipcover fabrics, bed tickings, lightweight convas.	40 to 50	C & D twist	100	
Very Heavy Fabrics such os heavy tickings, convas, overcoating, sailcloth, upholstery.	24 to 40	E twist	90 10 110	
Synthetics, Rayon, Acetate including nylon, orlon, dacron, plastics, etc.		Determined by weight of tabric 40 to 50	Determined by thread size 60 to 80	az p

Important Facts about Needles

On PFAFF Automatic sewing machines, System 130 R, flat-shank needles are used for all ordinary sewing and embroidery work. The needle system is stamped on the bed slide. Genuine Pfaff needles, System 130, not be used.



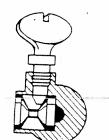
Changing the Needle

Bring needle bar to its highest point and lower sewing foot.

Loosen needle set screw o half a turn Law and pull old needle clamp. Insert new needle into opening of needle clamp and push it up as far

as it will go. Make sure that the flat side of shank faces toward the back and long groove toward you. Fighten needle set screw a

The illustration (left) shows you how the needle clamp works. The needle sel screw presses against the tapered needle positioning roller which presses against the flat side of the needle shank and holds the needle in place.



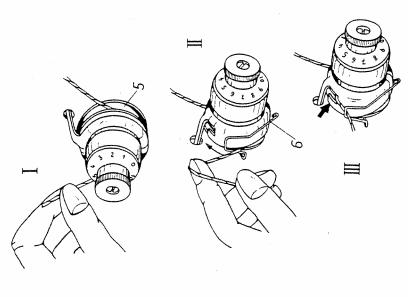
Upper Threading

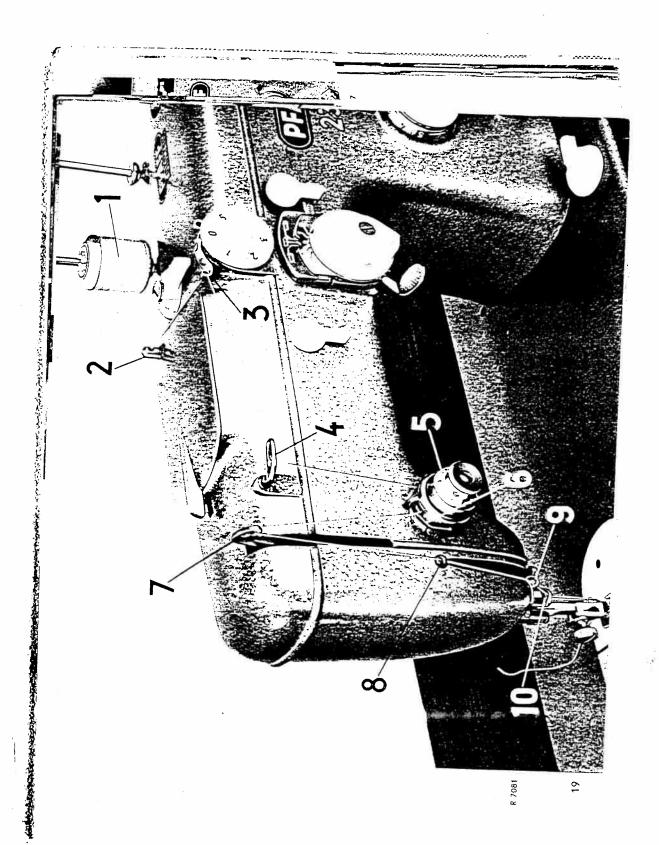
Place thread on spool pin 4 and lead thread end through holes in thread guides 2 and 3 and through both thread retainer openings 4 (see illustration opposite).

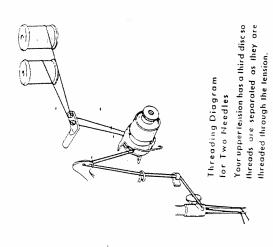
Pull thread between any two of the tension discs **5**, (Fig. 1) and lead it clockwise (Fig. II) until it snaps into the square notch in the tension cup (Arrow, Fig. III). The thread passes underneath the thread check spring which holds it down permanently.

Bring take-up lever 7 as high as it will go and pass thread from right to left through one of the holes at its end. Pull thread into slots at left of thread guides 8 and 9, and then into the slot at left of needle clamp 10.

Then thread needle, front to back, PFAFF's Automatic needle threader will do this for you easily and $q \, \text{vickly}.$







your cording so il keeps its shape in the laundry. Filler cord thickness depends Increase the bobbin tension slightly for cording. Pfaff recommends you fill on cording size you want. To sew filled cording use the two cording plates with cord ducts.

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Only very narrow tucks are made without filler cord.

Machine Setting:

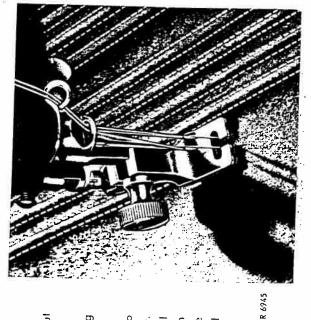
Additional Information on Cording

Ordinary cording in medium-heavy fabric is made with cording foot No. 41319 and cording plate No. 41842.

For thicker cording use foot No. 41.318 with cording plate No. 105996.

Cording foot No. 41641 and plate No. 41842 (with center claw, but without cord duct) serve to make narrow air tucks in light-weight material.

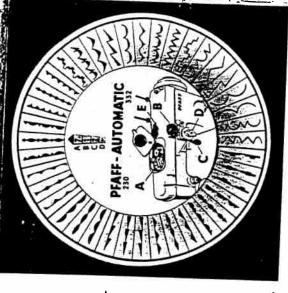
Pin tucks also are made with cording foot No. 41641, but without cording plate. Cording height and width are determined by the distance between the two tucks, attach an adjustable guide to the cording foot. When space between needles, the cord diameter and the height of the ridge on the cording plate. Thread tensions also influence cording size. For uniform spacing of parallel lucks is very narrow, place the preceding seam into one of the grooves of the foot and use it as a guide. This procedure insures uniform and parallel





Two-Needle Decorative Sewing

All patterns on the narrow-stitch side of the embroidery design dial can be sewn with two needles, if the distance between the needles does not exceed \$\frac{5}{44}\$ inch. This also applies to the eight B - 3 designs shown on the other side of the design dial, if control **C** is not set beyond 11/2. The above patterns can be sewn without changing machine parts. If any of the other designs are sewn with two needles, the needle plate, machine feed and sewing foot must be changed. Your Plaff dealer will do this for you at extra cost. These parts have wider slots to allow for movement of both needles.



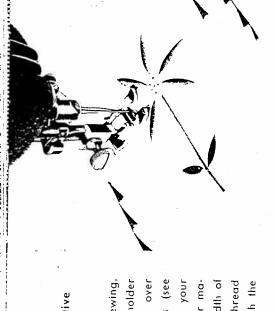
R 5966

R 7178

 Two-needle designs are particularly attractive when sewn with different color threads.

The sewing abilities of your PFAFF Automatic are practically unlimited. Interesting effects can be obtained by combining various designs, embroidering colored ribbons, glamorizing a garment with lace or rick-rack attached with a line of Automatic stitches and —— well, you probably can think of many PFAFF Automatic will help you solve decorative problems and will stimulate your creative fancy.





Three-Needle Decorative Sewing

To do three-needle sewing, you must buy spool holder No. 153137 which slips over the regular spool pins (see illustration) and have your Pfaff dealer convert your machine to sew a stitch width of about "/4 inch. The third thread is led to the needle with the second thread.

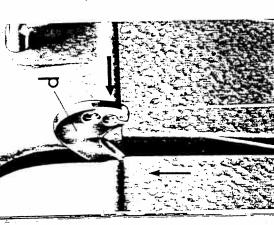
After your machine has been converted, you can sew all patterns on the narrow-design side of the embroidery dial with three needles.

Automatic Embroidery

R 7175

Interesting design effects are easy to make by combining Automatic patterns. Now you can make flower petals, and other intricate designs.

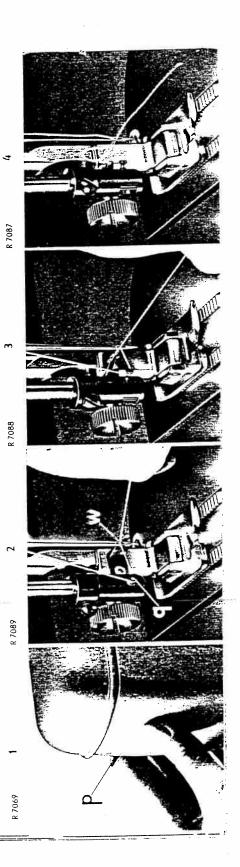
The more familiar you are with your machine, the more inspired you will be toward creative sewing.



Operating the Automatic Needle Threader

- Before you begin, make sure that the needle is at its highest position when the lower hole of the ascending take-up lever d is in line with the bottom edge of the top cover. Now lower the sewing foot and –
- (1) With your left hand push threader engaging lever **p** up until threader prong penetrates needle eye. Keep lever **p** in this position.
- (2) Hold thread loosely and lead from left around pin q behind look of prong w on needle threader.
- (3) Slowly lower lever ${\bf p}$ part way until prong ${\bf w}$ reverses and pulls thread through the eye.
- (4) Jerk lever **p** up slightly so the thread loop will fall off the prong. Release lever **p**. Pull thread through needle eye.

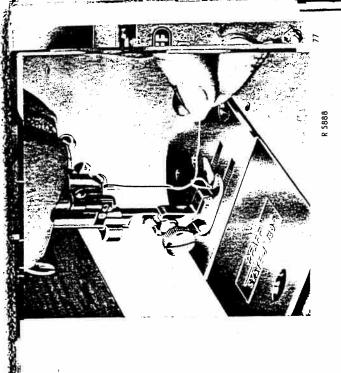
R 7068



When you have had sufficient needle threading practice, you may shorten the procedure as follows:

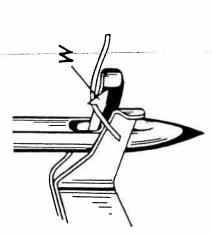
Push lever **p** up. Pface thread behind hook of prong **w** so that its end is about 1/2 inch to the right of the prong. Slowly lower lever **p**. Prong **w** now pulls end of the thread – instead of the loop – through needle eye.

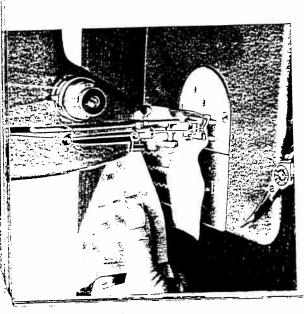
Since take-up lever d is not at its highest point when you thread the needle, pull about four inches of thread through the needle eye before you begin sewing.



Drawing Up the Bobbin Thread

Hold needle thread lightly in your left fiand. Turn balance wheel toward you until the needle moves down and upagain and take-uplever reaches its highest position. Lightly pull needle thread to draw bobbin thread up through needle plate slot. Place both threads back under sewing foot before you put fabric into machine.





R 7070

To check whether the tensions are correctly balanced, take a closely woven piece of fabric and sew a few straight and zigzag seams. If the straight stitches are tightly drawn in on both sides of the fabric (see seam sketch III), the tensions are correct. The surest way to double-check this is by examining a zigzag seam. If the zigzag seam is equally wide on surface and underside of the fabric, that is, if the threads are locked exactly at the zigs and zags of the seam, the tension adjustment is correct.

Cozzect Tension Regulation

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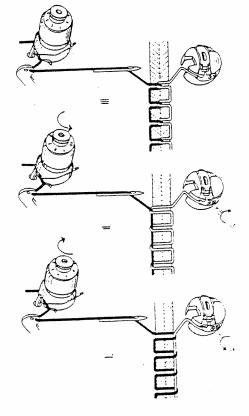
Balanced tensions are essential for sewing. If your tension is correct, you will have perfect seams as sketched (III) below.

Sketch1 - The threads interlock on the underside of the fabric.

Cause: Upper tension too loose or lower tension too light.

Sketch II - The Hireads interlock on the surface of the fabric.

Cause: Upper tension too tight or lower tension too loose.



Regulating Thread Tension

Bobbin tension rarely needs adjusting, except for embroidery when it should be a little fighter than for ordinary sewing. Adjustment is made by the small screw (x) on the bobbin case:

Turn it left x-4 for looser tension.

Turn it right 💝 🐪 for tighter tension.

thumb and forefinger and letting the bobbin case hang freely. The Determine correct bobbin tension by holding the thread end between tension should be strong enough to keep the bobbin case from being pulled down by its own weight. However, as you jerk your hand slightly, the bobbin case should gradually slide down.

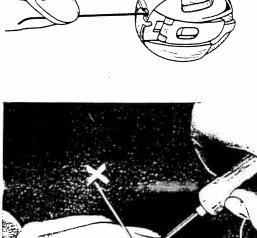
R 6946

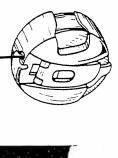


The final stitch appearance can be regulated by upper tension knob (y) as follows:

Turn right ** for lighter tension. Turn left x (for looser tension.

The upper tension is so designed that all grades of tension - loose to tight - can be covered with one complete turn of the tension knob. The numbers on the tension dial indicate different degrees of tension. The higher the number, the greater the tension. For ordinary sewing, the upper lension should be set between 3 and 5.









Stitch Length Regulation

Set f in neutral (vertical position).

Set e so its pointer is on the indicator scale number corresponding to the desired stitch length. Turn lever f to the right as far as it will go.

To sew backwards, turn lever f toward the left as far as it will go.

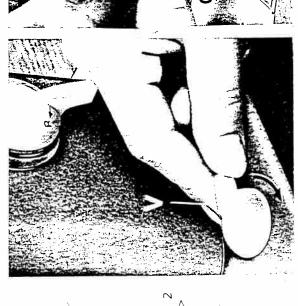
Control e stops stitch length, 1 to 5, on indicator scale. Stitch length may also be regulated by turning e all the way left and f in the forward sewing position as far as it will go. Sew a few stitches and regulate the stitch length by turning f slowly toward the right. To hold the stitch length in position, turn e until it stops.

: 6705

Dropping the Machine Feed

The machine feed is dropped for darning, hoop Pembroidery and button sewing.

- To lower feed below the needle plate, turn drop feed control v clockwise. Fabric will cease feeding.
- (2) When control v is turned to the right as far as it will go, feeding of the fabric resumes automatically when you start sewing.

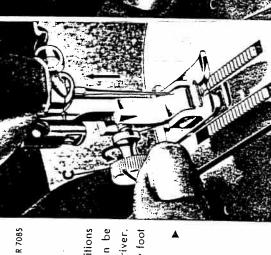


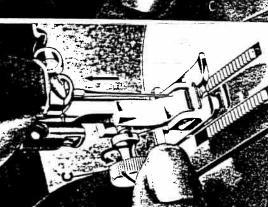
Changing the Sewing Foot

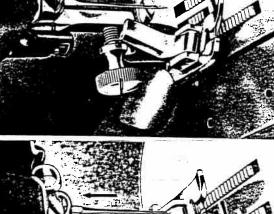
and turn screw c to the left. The screw usually can be Lift both needle and presser bars to their highest positions loosened by hand, but if it is too tight, use a screw driver. Till the foot sideways and pull it down. Slip on new foot and tighten screw c.

R 6592

R 6591



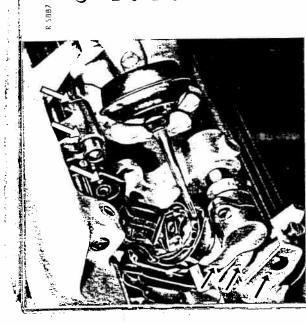




The Darning Foot

Hold spring clip **b** so that it is behind the needle set screw, and lighten screw ϵ . Attach darning hook d as illustrated Remove the sewing foot. Attach darning foot from the rear. so that when you lower presser bar lever e, the darning fool will stay in position. Remember to lower presser bar lever e so that the upper tension is activated.





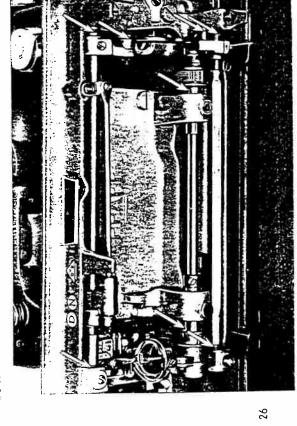
Care and Maintenance

Longevity and smooth machine performance are dependent on regular and proper cleaning and oiling.

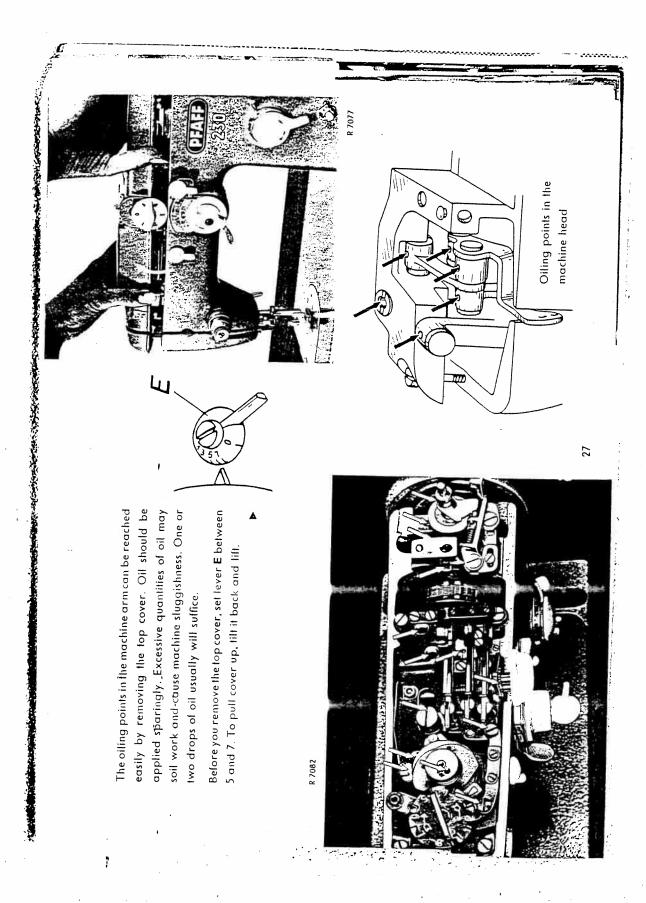
Use Pfaff sewing machine oil only. Never lubricate machine with animal or vegelable oils. Remove all lint before oiling.

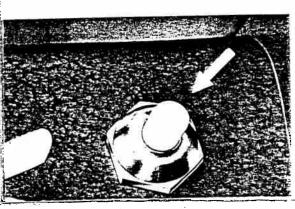
All moving and rotating parts require regular lubrication. It is advisable to establish a pattern when oiling your machine. Begin under the bed plate. The principal oiling points are marked by arrows.

R 6799



The raceway in the sewing hook is the most important oiling point. Put one drop of oil into the raceway each day you sew. A dry raceway will couse rapid wear. Don't forget to oil the bearings and bevel gears of the short hook shaft (black arrows).





R 7066

Press this button to switch sewlight on and off

Sewlight Facts

The 25-watt sewlight is recessed under the machine arm. Lever \boldsymbol{u} swings out the light to illuminate a larger working area.

To change the light bulb:

Swing lever \boldsymbol{u} up (see arrow) and hold. Push bulb up into socket, turn left, and pull out.

When inserting the new bulb, be sure to slide bulb pins into bayonel socket slots

Press bulb in and turn right.



Trouble Shooting

1. Machine Skips Stitches

Cause:

Needle incorrectly inserted.

Wrong needle.

Needle bent.

Machine threaded improperly.

Needle too fine or too thick for the thread.

2. Needle Thread Breaks

Cause:

The above menlioned may cause thread

breakage.

Thread tension too tight.

Poor or knotly thread used.

Hook race is jammed with thread or needs

Burrs or sharp edges on needle plate slot.

Remedy:

Push needle up as far as it will go and be sure that the long groove faces you, and flat part of needle away from you.

The correct needle system is stamped on bed slide.

Insert new needle.

Check and correct threading as instructed.

Use correct needle and thread.

Remedy:

See remedies listed under 1. above.

Adjust lensions as instructed.

Use good quality threads only.

Clean and oil hook raceway.

Polish needle plate slot with fine emery cloth.

3, Needle Breaks

Cause:

Bent needle strikes point of sawing hook.

Needle too thin or thread too heavy.

Fabric pulls needle so it bends and strikes needle plate.

Bobbin case inserted incorrectly.

Remedy:

Replace needle at once to prevent further damage.

Use correct needle and thread sizes.

Don't force the feeding motion. Guide the material lightly.

Push bobbin case until you hear it snap into place.

4. Faulty Stitch Formation

Cause:

Improper tension.

Thread too heavy, knotty or hard.

Bobbin unevenly wound.

Pieces of thread between tension discs.

Adjust tensions as instructed.

Remedy:

Use only first-rate thread -- the correct size for the needle and fabric. Don't run thread over finger when winding the bobbin, but lead it around tension stud on top cover and through thread guide h.

Release upper tension by setting it on "0" and remove thread.

5. Machine Feeds Improperly

Cause:

Feed dog set too low and does not rise up enough above needle plate level.

Have your Plaff dealer make the necessary adjustment.

Remedy:

Take off needle plate and remove lint with a slift brush. Accumulations of lint packed between feed leeth.

6. Machine Works Heavily

	S
	, or has
	or
	slips,
•	and
•	loose
	5.
	pelt
	Motor

Loosen or tighten motor belt by adjusting idler. hrunk and causes excessive pressure on bearings.

Remedy:

Clean and oil hook raceway. Hook raceway lacks oil or is obstructed by pieces of thread.

Mechanism clogged by inferior oil.

Use only Plaff sewing machine oil – never salad oil or glycerine.

Stop bobbin winder. Bobbin winder working while sewing. (When a bobbin is not being filled)

Unwind and remove thread. Snarled thread between balance wheel and bushing.

Thread Jamming

If thread jams in the sewing hook mechanism and blocks it, proceed as follows:

- The thread will come out more easily if you put a few drops of oil or cleaning fluid into the hook raceway.
- Tighten the stop motion knob. (2)
- Move the balance wheel away from you. (c)
- Take the end of the thread and pull it out while rocking the balance wheel. 4
- Thread jamming can be avoided by following the instructions on pages 4 and 5. If thread is still jammed, call your Pfaff dealer for help.

Zipper Insertion

Machine Setting:

E - 0

Zipper Foot No. 41350.

stitch across lower end and up the or not you want the edge of the fabric other side in one continuous operation. Use right edge of foot as a guide. Follow directions in your zipper Position of zipper depends on whether to overlap the zipper. Run a straight seam close to lelt edge of zipper, Pin or baste closed zipper on fabric. package.



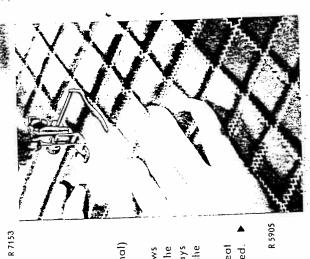
Edge Stitching

Machine Setting:

D - 0 to 4 (optional) Edge Stitcher No. 41350.

to the machine bed with the thumb justable seam guide No. 53077 and the edge stitcher (without quilting gauge). The seam guide is fastened Sew parallel rows of straight or zigzag stitches at various distances from the fabric edge by using ad-

screw.



Quilling

Machine Setting:

D - 0 or 2 (optional) Edge Stitcher No. 41350. B - 0 E - 0

parallel rows of stitching over the entire surface of the fabric. Always guide the gauge finger along the Used with the quilting gauge sews preceding row of stitches.

pads, and covers can be quilted. Attractive tea cosies, slippers, seat



32



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Flat Felled Seams

Machine Setting: E - 0

in two operations.

D - 0 or 2 (optional)

Flat felled seams are used to durably join two pieces of fabric. They are made

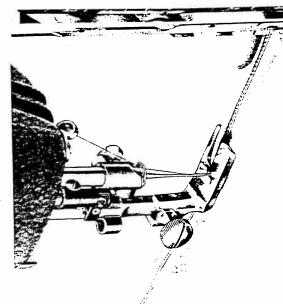
Flat felled seams usually are straight stitched. Narrow zigzag stitches are used for felling on elasticized fabrics only.

First Seam

1/9 inch. Feed both pieces into felling foot, as illustrated, so that the bottom Lay pieces together wrong sides facing up with the bottom piece protruding

sure that protruding seam allowance is not folded twice. fabric is folded over edge of top piece and stitched down. Make

R 7171



Second Seam

Open the two pieces, place them under the needle right side up, insert seam ridge into felling foot opening, and stitch down to the left. Make sure that second seam is placed close to the edge but not beyond it.

The felling foot has a needle slot, rather than a needle hole, to permit zigzag



Rolled Hems

Machine Setting:

E - 0

D - 1 to 4 (optional)

ease thread tension slightly and set D on 1 to 3. To hem tricot labrics increase the tension, and use the widest zigzag stitch so cate fabrics. For a smooth, unpuckered hem, Rolled hems are used to finish sheer or delithe hem has a rolled shell effect.



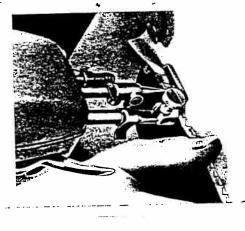


Hemming

Machine Setting:

D - 0 or 2 to 4 (optional)

be folded twice and the raw edge down feeding. Press the fabric against the needle plate on the left side of the foot before you come to the end of fabric to facilitate insertion into the If you feed less, the fabric will not will show. Avoid ugly ends by slowing are using. Clip off the corner of the hemmer fool. Feed fabric so that the raw edge is in line with the left depending on the type of fabric you edge of the hemmer foot opening. The hemmer foot is indispensable if you want to sew a uniform hem. You can hem with straight or zigzag stitches,



R 5915

34



Overcasting Edges

7 - Q Machine Setting: E - 0

stitch into the fabric and the other over its edge. You may overcast edges Overcasting prevents frayed edges. Sew edge with the needle taking one ■ after fabric is cut and before the pieces are joined. R 7169









Butt Seaming

D-3 or 4 (optional)

8 - 0

Machine Setting: E-0

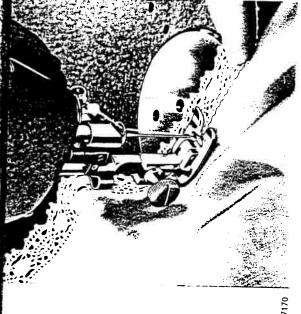
R 5925

gether and joined with zigzag stitches. Worn bed sheets may be mended this under the needle. Join them with close, wide zigzag stitches. Hem raw edges way. Cut out worn center strip. Place the selvaged edges of the remaining pieces of sheet under the sewing foot so that the abutted edges are centered Two similar pieces of fabric which do not ravel easily may be butted toof sheets.

Attaching Lace

D-1 to 3 C-2 B - 0 Machine Setting: E - 0

You can attach lace edging in one simple operation. Overlap lace on raw edge. Sew to fabric with narrow zigzag stitches, taking one stitch into lace and fabric and the other into lace only.



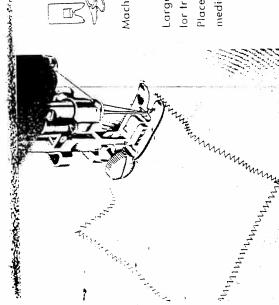
R 7177



Inserting Lace

B-0 C-2 D-1103 Machine Setting: E – 0

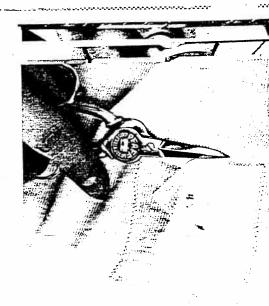
Pin or baste lace on fabric. Sew together with needle taking one stitch into fabric alone and one into the lace. Carefully trim excess fabric underneath.



Inserting Patches

Machine Setting: E - 0

for tricot fabrics. Cut patch so that its grain will match the rest of the fabric. Place the patch over the damaged area. Sew it down with zigzag stitch of Large holes can be patched quickly. The following method may also be used D - 3 to 4 medium length.



For additional strength stitch over corners twice. Turn over and trim close

to seams.

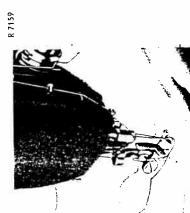
37

Single-Needle Cording

Machine Setting: E - 0

D-2

Set stitch length between "0" and "1". Trace pattern on fabric and place a filler thread under the groove in the sole of the cording foot. Follow the pattern and hold the filler thread lightly.





Machine Setting: E - 0

D-2 to 21/2 Stitch Length - 2 to 4 Ease Upper Tension B - 0

depends on the thickness of the filler Follow above directions for shirring but place filler thread under rather than on top of the fabric. Fabric and filler thread both are guided in the groove of the foot. Width of zigzag thread used.

thread to distribute fullness. Finish the When you have finished the zigzag seam, slide material along the filler shirring with a line of straight stitch-

depending on the stress to which Leave the filler thread in the shirring or pull it out as you straight-stitch, shirring will be exposed.



R 7152



The second secon

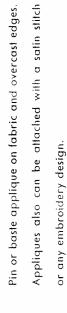
C

Applique Work

Machine Setting: E - 0

D - 11/2 to 3

. R 7155



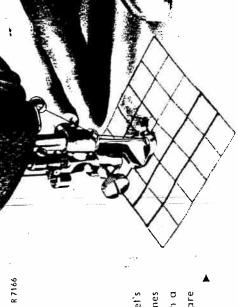


Openwork Embroidery

Machine Setting: E-0

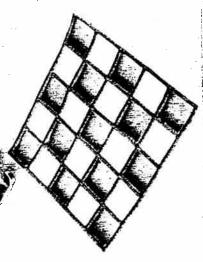
C - 2 D - 0 and 2¹/₂

There are hundreds of patterns excellent for openwork embroidery. Let's embroider the 25-square box illustrated. First, sew over all traced lines twice using short straight stitches. Then sew over straight-stitch lines with a medium-wide satin stitch. Make sure that your rows of satin stitching are even so the corners of your squares look neat.

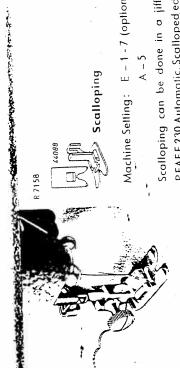


R 7179

◆ When you finish sewing, cut out every other square. To make an attractive modern design, outline flowers or free forms with an embroidery design instead of satin stitching.



07





Scalloping

Machine Setting: E = 1 - 7 (optional) B = 3

PFAFF 230 Automatic. Scalloped edges can be used effectively as trimming on numerous Scalloping can be done in a jiffy on your articles.

and guide needle along traced line. The adds sparkle to a child's collar. Here's how to do iii. First, trace collar pattern on a doubled piece of fabric. Set machine (shown above), place (abric under sewing foot The illustrations left show how scalloping

have finished, trim excess fabric cally. You may vary the length of the scallops by changing the setting of lever E (see sketch). When you scallops are produced automatialong scalloped edge.



C

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Scrollwork

D - 2 to 4 C - 2 Machine Setting: E - 0

move hoop right, then left, alternating the An exciling note may be added by using Draw designs on fabric. Clamp work into embroidery hoop. As you are following the scrollwork outline with wide satin stitches, rhythm and the direction of your movements. variegated thread.



R 7150

4.1



Imitation Hemstitching

Machine Selling:

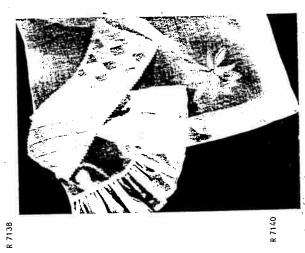
Increase Tensions Stitch Length:

Beautiful hemstitching effects on handkerchiefs, blouses, dresses, and so forth, can be made with Plaff's System 130 (wing) needle available at Plaff stores at extra cost. Loosely woven fabrics, such as baliste, organdy, georgette, etc., are well suited to hemstitching while woolly fabrics are not recommended because needle penetrations close up. Since the hemstitching needle has a slightly thicker shank, the needle set screw must be turned out far enough for insertion. The hemstitching needle cannot be threaded with the Automatic needle threader.

Hemstitching is very simple (see skelch).

- Sew first row.

- Sew second row, as shawn in skelch, guiding material parallel to first row so that needle penetrales
- If you are making more than two fines of hemstitching, alternately teave needle in fabric on the telf and right at turning points, pival tabric on needle, and proceed os directed above.



Hemstitching

Hemstitching is successful on linen and Iwilled labrics. For this type of work use Draw several threads out of the fabric. an ordinary needle.

threads from the edge until your fringe is the length you want. Zigzag along Set machine for a medium-wide zigzag stitch and sew along both edges of the strip, making sure that "zigs" and "zags" in both rows are exactly opposite each bar width you desire. Draw this line — and you will have picol thread edging other.



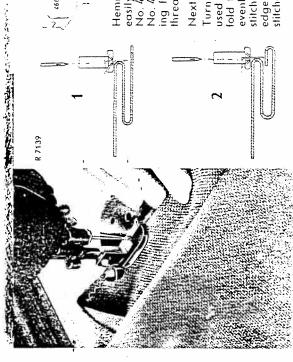
R 7173

Stop machine when needle is in labric on the right.

3 Lill sewing tool. Turn fabric in the direction of arrow, and lower loof again.

needle holes of previaus zigzag stitches as it descends on the right.

Set stitch length according to



Blindstitching

D-1 to 2 8 - 0 E - 0Machine Setting:

Stitch Length: Maximum

1.

Hemming dresses and skirts by hand is a laborious task. You can do it easily on your Plaff on medium and heavy labrics. Use blindstitch guide No. 46669, which you can buy at your Plaff store. Use it with zigzag foot ing foot slot. Use a No. 70 needle, a loose upper tension and thin No. 44088 and attach it so that its vertical flange goes through the sewthread in the needle.

Next Iollow Ihis procedure:

Turn labric wrong side up. On selvage edge or if bias seam binding is used on edge of hem, lold material once (Fig. 1). On unselvaged labric, fold twice (Fig. 2). It is advisable to pin or baste hem. Guide work stitch guide. Set **D** so that needle takes lelt stitch exactly in the folded edge and the right stitch over the hem edge. When hem is finished, stitches will not be visible on top side. evenly, holding top hem edge against the vertical flange of the blind-



Used for draperies or curtains Automatic Blindstitching

B - 1 Machine Setting:

C-1 9 - Y

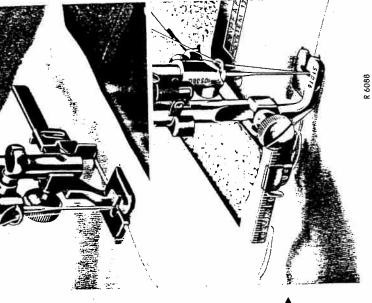
be visible on the right side of sheer and filmy labrics. Therefore Blindstitching is used for medium and heavy fabrics and would these fabrics should be blindstitched with the Automatic so a number of narrow and one wide zigzag stitch are sewn at regular intervals. Use thread that matches fabric and fold the hem as illustrated. Feed told against left inside edge of foot so that narrow zigzag stitches are made on hem edge and wide stitches pierce told.

Bulky work is placed in machine with bulk of material to the left of the needle. Set lever C on "3".

Sewing Buttonholes

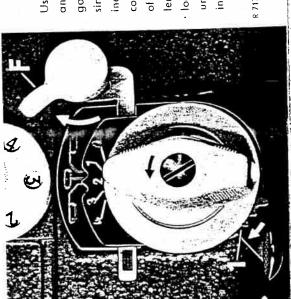
Machine Setting: E-0 · B-0 · C-1

The setting of control D is changed several times while you are making buttonholes. So you can easity return the control to its previous setting, turn lever ${\bf F}$ clockwise, as itlustrated. Put lever ${\bf C}$ in notch 1, so ${\bf D}$ will be caught in two notches of the buttonhote slide, one position at "11/2" for sewing sides, and the other at "3" for bartacking. This setting corresponds to the size of ordinary lingerie buttonholes. When lever ${\bf F}$ is moved up further, the stops for the stitch width setting change accordingly, and both the parallels and bars of the buttonhole grow wider.

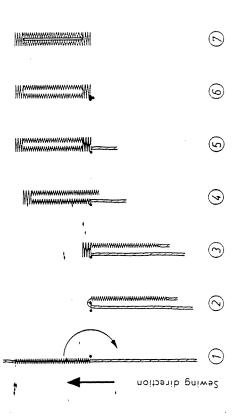


Use buttonhole foot No. 51016 and set slide on buttonhole gauge to buttonhole length desired. If you prefer more prominent buttonholes, pull a filler cord through the hole in left toe

of foot. To get the correct stitch tength, sew on a piece of scrap material. In making buttonholes in soft or loosely woven fabrics, it is advantageous to place a piece of tissue paper under the material. To strengthen buttonholes in tricot and knit fabrics, insert a piece of firmly woven cotton material between the fabric layers.



7



Buttonholes

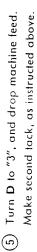
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(1) Set **D** at "11/2", **C** at "1", stitch length lever **f** on satin stitch.

Attach foot No. 51016 and adjust slide indicator on buttonhole gauge to length of buttonhole desired. Insert filler cord through foot.

- 2) Lift foot, turn fabric clockwise, using needle as a pivot. Lower foot, take one stitch to the left, pull filler cord taut and lay it parallel to completed line of stitching.
- (3) Switch D to "3".

Make 4–6 bartack stitches. Raise needle.



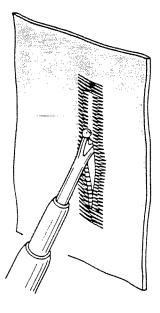
needle up.

Trim both ends of filler cord at end of first stitch row. Sew second row and stop about 4-6 stitches from end of first row, leaving

Change D to "11/2".

- $\widehat{\mathbb{G}}$ Switch **D** back to "0" and make two or three fastening stitches.
- Trim the sewing threads. Open the buttonhole with your seam ripper. Be careful not to injure the bartacks.
- 8 Raise feed.

Buttonhole can also be made without a filler cord.



Button Sewing

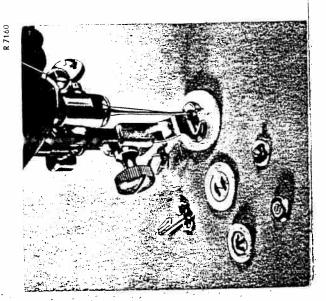
Machine Setting:

Don't be afraid to sew on buttons, hooks, eyes or rings with your Plaff. Make sure the thread take-up lever is at its highest point. Place the button under Drop Machine Feed D-3 or 4 E - 0 B - 0

the button sewing foot. Align button so needle will enter right hole when

D is at "0".

Then turn D to the left, usually to "4", until needle is centered over the left securely. When sewing on four-hole buttons, lift foot, reposition button and hole. Sew as many zigzag stitches as you think hecessary to fasten button repeat the above process, stitching through the second pair of holes. Now set D on "0" and make two or three tying stitches through one of the holes. Hooks, eyes, snaps, etc. are attached in the same manner.





Darning

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Machine Setting: E - 0

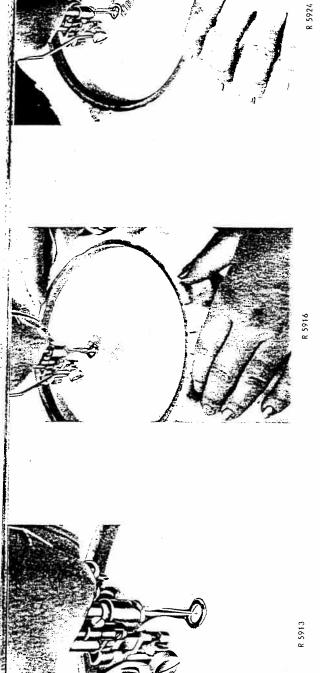
of fabric in hoop and permit free movement. To fasten the feed cover plate Remove presser foot. Use feed cover plate No. 41251 to increase tautness to the machine, slip its finger into the hole of the needle plate, as illustrated, turn, and fasten to position with bed slide (see illustration below). Drop Machine Feed



Altach darning foot as instructed on page 25, and suspend presser bar from the rear of the face cover with darning hook No. 46128. Even though the presser bar is suspended, the presser bar lever must be lowered to activate the tension, or the upper thread tension will be released -- and you cannot sew without it.

Place fabric into darning hoop.





Triangular tears are best darned by placing the torn section in hoop and sewing across and lengthwise. Triangular Tears

> Remember that "a stitch in time saves nine" and reinforce spots that have worn thin with short stitches made

Thin Spots

Long rips may be darned with the

Raise machine feed and use forward

and reverse stitch lever.

normal sewing foot and without hoop.

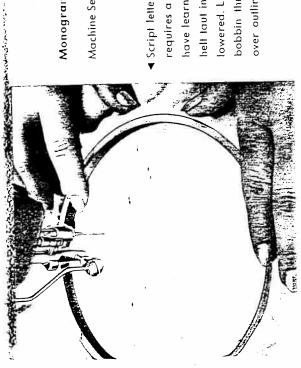
Clamp fabric into darning hoop and

move it freely under the needle.

lengthwise and across worn section.

Small Holes

Darn small and medium-size holes by trimming ragged edges with the fabric grain. First stitch back and forth across the hole from one side to the high speed. Then turn the fabric at right angles and sew back and forth threads in the unworn area around other with the machine running at over preceding work. This anchors



Monogram Embroidery

Machine Setting: E - 0

D - according to desired width

have learned to move the material at a uniform rate. The fabric should be requires a little practice. You will soon enjoy creative embroidery once you lowered. Lower needle into fabric at the beginning of your design and draw bobbin thread up through the fabric. Hold both thread ends, and sew ■ Script letters are best for monogram embroidery without a sewing foot. It helt taut in the hoop, the presser bar suspended and the presser bar lever Drop Machine Feed over oulline, moving hoop slowly and evenly.



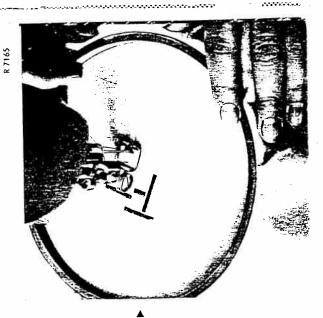
Sewing Monograms

Machine Setting: E = 0B = 0

D - 21/2 to 3

The procedure below is primarily used for block letters. Raise feed and set 🕨 machine for satin stitch. Attach cord stitcher and sew outlines of monogram. Watch that seams do not overlap at joints of letters.

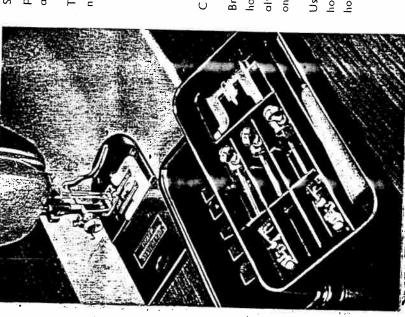
You will marvet at its versatility and delight in the countless creative Ask your Plass dealer to show you the Ornamentograph, the ingeniously designed monogram and ornamental stitch attachment. possibilities which it adds to your Automatic.



Cording

To cord, use sewing fool No. 46121 with a double needle, or Cording Kit No. 50115 available at extra cost.

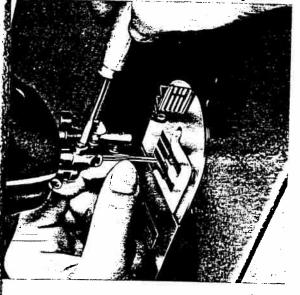




This set consists of:

4 double-needle holders for needle distances of 1/1.6, 5/84, 3/32 and 7/84 inch, 3 cording feet, 3 cording plates (2 with cord ducts and 1 with center claw), and 1 package of System 130 B needles. Additional parts for heavier cording are available at extra cost.

The interchangeable doubleneedle holder is easy to attach.



R 6942

Changing the Needle Holder

Bring take-up lever to highest point, loosen small set screw and change needle holders. Tighten set screw securely. The large needle holder screw must always point toward the right. To attach cording plate refer to instructions on page 47 for mounting feed cover plate.

Use System 130 B round-shank needles in 1/16 and 5/64-inch double-needle holders, and System 130 R flat-shank needles in 3/32 and 7/64-inch needle holders.

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