PFAFF

Programming field for writing and modifying sewing programs for the PFAFF 3568-12/21 and -12/22

When using the programming field, the instruction manuals of the PFAFF 3568-12/22 and -12/22 respectively, and the notes on safety contained within them are to be observed.

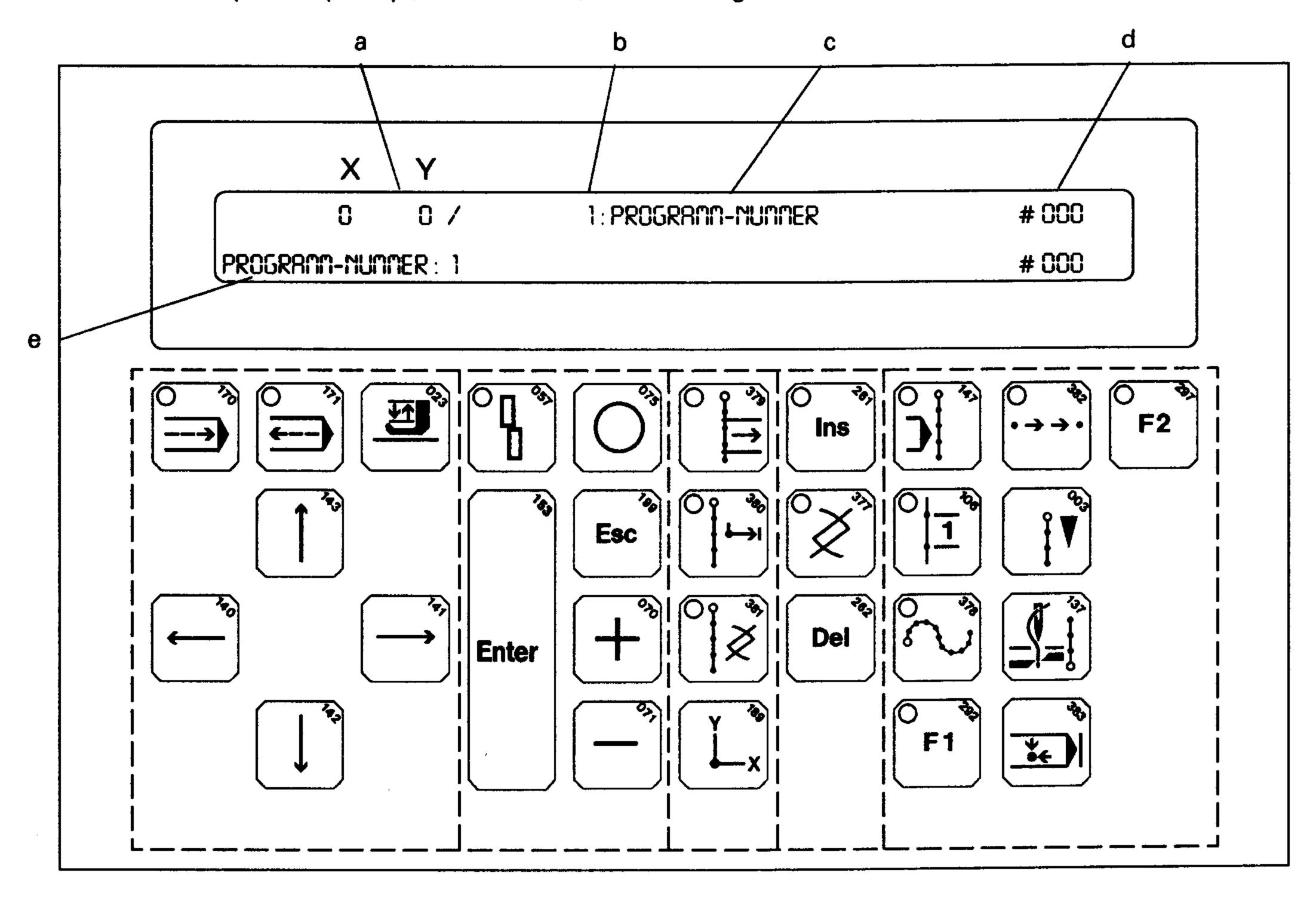
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1 Explanatory notes

Display field

- a = coordinates of the "X" or "Y" axis in 1/10mm relative to the reference point of the coordinates.
- **b** = section number
- c = section type
- d = text number of the displayed text
- e = operator prompt/menu control/error messages



Modes of operation



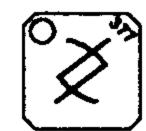
Ins = Insert

not pressed (diode off)

= basic status

pressed (diode on)

= Betriebsart "Einfügen"

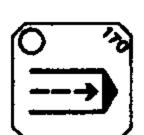


Alter*

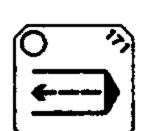


Del = Delete

Direct functions



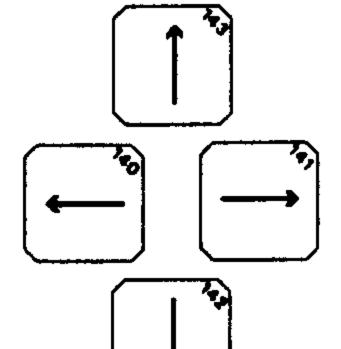
Cycle sectionwise forwards through pattern*



Cycle sectionwise backwards through pattern*



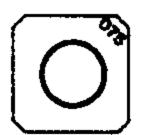
Presser foot up/down



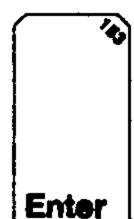
Carriage movement buttons

Dialogue buttons

Error Reset
Diode lights when error message*



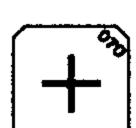
Finish programming/modifying



Enter (confirm input)



Stop a chosen function or mode which has not yet been processed.

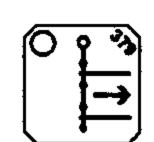


- Raise input values
- Answer dialogue questions with "yes"
- Scroll forwards in menu guide

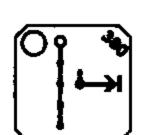


- Lower input values
- Answer dialogue questions with "no"
- Scroll backwards in menu guide

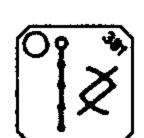
Block and pattern manipulations



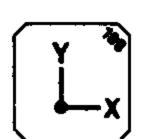
Block *



Displace pattern*

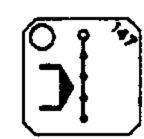


Manipulate pattern, rotate/mirror/scale up*

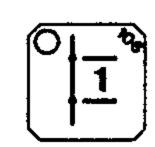


Reference point for coordinates

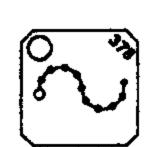
Insert "functions"



Line (straight line between two points)*
The stitch length must be defined in order to input a.



Stitch/feed (max. 6 mm)*
Input of a single stitch regardless of stitch length.

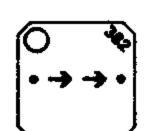


Curve *



Graphic menu: *

- Standard stitch-length
- Stitch length
- Stitch width
- Circle
- Arc
- Curve end



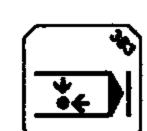
Moves carriage quickly *



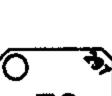
Start sewing



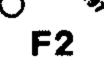
Thread trim



Load point program end (not applicable to PFAFF 3568)



Machine function menu: *

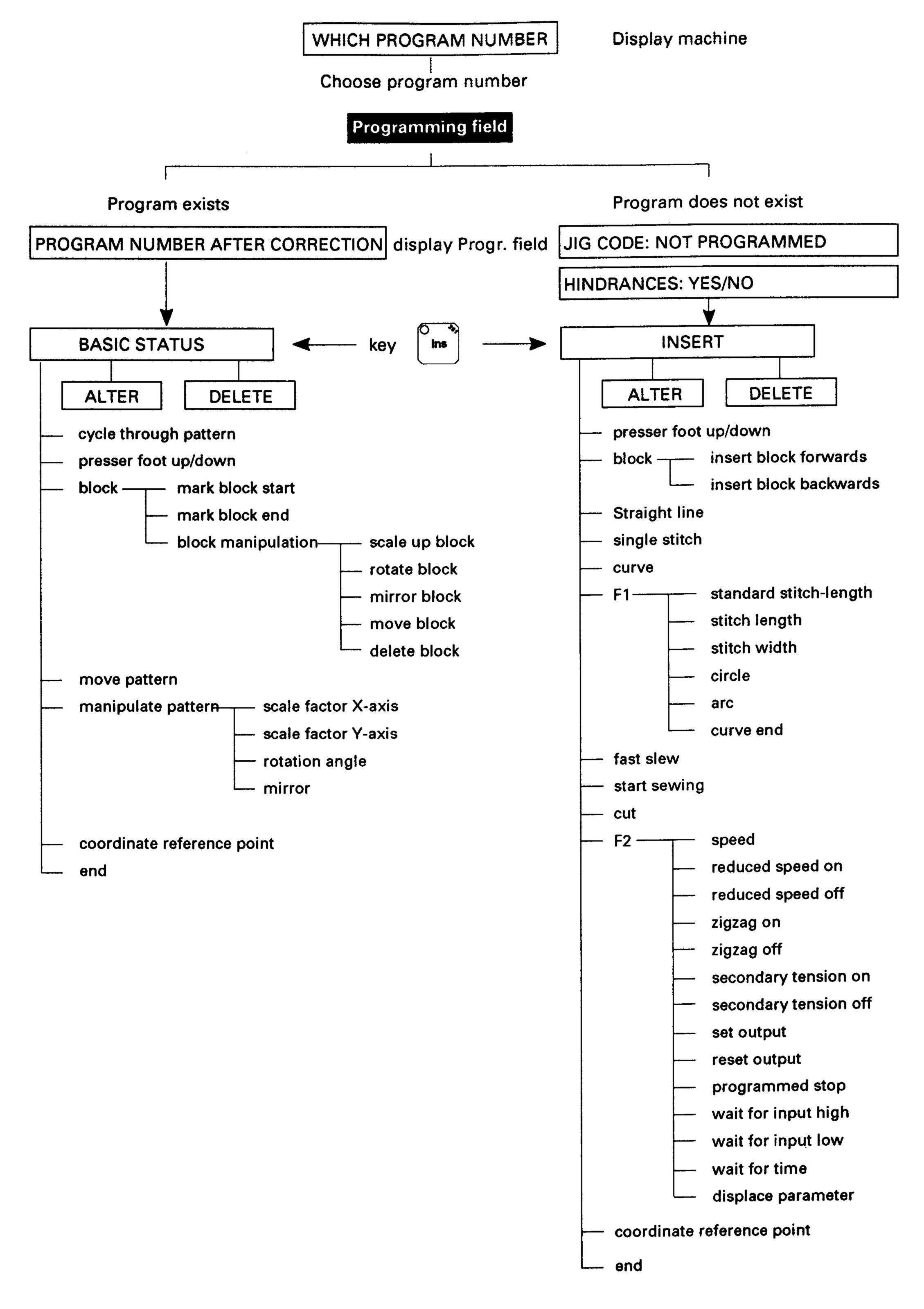


- Speed
- Reduced speed on
- Reduced speed off
- Zigzag on
- Zigzag off
- Secondary tension on
- Secondary tension off
- Set output
- Reset output
- Programmed stop
- Wait for input high
- Wait for input low
- Wait for time
- Shift parameter
- * = function active when diode lit

2 Connecting and starting the programming field

Connect the programming field on the front left hand side of the machine with the transmission cable. Start machine - Operating mode: ready. **CHOOSE FUNCTION OR SCROLL** #250 Display: machine Choose Menu 2 (= #261), confirm with Enter 2. MENU #300 Display: machine 1 - PROGRAM MANAGEMENT #301 Scroll in the main functions till #302 Display: machine 2 - SEAM PATTERN PROGR. / CORRECT **Enter** Display:machine #520 WHICH PROGRAM NUMBER:99 Enter program number: - a new number that is not yet in the machine's memory for a program to be written - a number from the machine's memory for a program modification Enter Display:machine PRESS HOME KEY #007 Display: machine PROGRAMMING FIELD ENABLED #521 Programming field PROGRAM NUMBER AFTER CORRECTION JIG CODE NOT PROGRAMMED Display: Programmiing field when correc-Display: Programming field when writing ting an existing program (see section 9) a new program (see section 8)

3 Diagram "Write/correct program"



4 Modes of operation

4.1 Basic status = (when diode in the key is not lit)

The following functions are possible in this mode:

- cycle forwards sectionwise through pattern =
- cycle backwards sectionwise through pattern =
- presser foot up/down =
- manipulate block = ☐
- displace pattern =
- manipulate pattern =
- coordinate reference point = Lx
- change to insert mode = (diode lit)
- call up alter mode =
- call up delete mode = Del
- end programming/correction =

4.2 Insert = (when the diode in the loss lit)

In the INSERT mode new sections can be inserted into the pattern. Frequently required functions can be selected directly via the keys. Less common functions are summarized in menus and can be selected via

Direct functions:

(straight line between two points)
The stitch length must be defined to input a straight line.

- Single stitch/feed =
$$\boxed{1}$$

Input of a single stitch regardless of the inputted stitch length. (single stitch max. 6 mm)

Any number of points can be placed on the curve (curve points may not be end points). The control calculates the curve with regard to a defined stitch length. The more points entered on the curve, the more exact the curve will be.

Enables the fast movement of the X-Y carriage. Both axes are driven independently to the endpoint as fast as possible. The resulting route is not a straight line (care to be taken when hindrances on sewing jig).



Sewing in fast slew mode is not allowed.

This function starts the sewing process.
All following sections will be sewed until function cut thread.

This function starts the thread-cutting process. (start sewing function must be active).

A marked block can be inserted forwards or backwards at the current position.

This function resets the coordinate values at "0" thus creating a new coordinate reference point.

4.2.1 Graphic functions = F1

4.2.1.1 - standard stitch-length

This function sets a stitch length that is most commonly needed in the pattern. This stitch length is displayed in the machine's display and can be influenced subsequently with the alter stitch length key $(=\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix})$.

4.2.1.2 - stitch length

This function sets a stitch length for a pattern.

This stitch length is not displayed in the machine's display and cannot be altered by the alter stitch length key (= $\begin{pmatrix} 0 \\ 1 \end{pmatrix}$).

4.2.1.3 - stitch width

This function superimposes a zigzag onto an outline with the X-/Y- carriage.

The stitch length represents here the feed along the outline from stitch to stitch and is to be selected accordingly.

Position of the stitch width in relation to the outline can be selected (symmetrical, left, right, 1st stitch left). Switch of the stitch width with "0".

4.2.1.4 - circle

To make a circle the control requires three points on the circumference.

The first point is automatically the start point of the circle.

A stitch length must be defined.

4.2.1.5 - arc

To make an arc, the control requires an arc point at the beginning of the arc and at its end. A stitch length must be defined.

4.2.1.6 - Curve end

This function turns a curve point into a curve end point.

4.2.2 Machine functions = F2

4.2.2.1 - speed

The speed for the pattern can be selected (max. 4100 RPM). The value entered can only be reduced via the max. speed input on the machine.

4.2.2.2 -reduced speed on, reduced speed off

Specific parts of the pattern which are to be sewed at reduced speed can be selected. Input RPM at the machine.

4.2.2.3 - zigzag on, zigag off

Specific parts of the pattern can be selected in which the mechanical zigzag of the sewing machine is to be switched on and off.

This function can be influenced additionally at the machine.

4.2.2.4 -secondary tension on, secondary tension off

Specific parts of the pattern can be selected in which the secondary tension is to be switched on and off.

4.2.2.5 - set output, reset output

Freely programmable outputs can be set and reset via the pattern program.

4.2.2.6 - programmed stop

A machine stop at a specific point in a pattern (without thread trim) can be programmed.

4.2.2.7 -wait for input high, wait for input low

This function causes the machine to wait until an input (switch, proximity switch) has reached a certain level.

Here the following is meant: high = input LED lit, low = input LED not lit.

4.2.2.8 - wait for time

This function allows the input of a waiting time.

The machine stops at this point until the waiting time is over.

4.2.2.9 - shift parameters

These can be moved in order to activate programmed functions from F2 at a particular point in a pattern. This displacement can be placed before i.e. minus x-stitches or after i.e.plus x-stitches.

(x = number of stitches)

4.3 Alter = 🔀

Alterations are possible in modes "basic status" (sec. 4.1) and "insert" (sec. 4.2).

The current section will be altered, e.g.:

- coordinate point
- machine function
- program number
- jig code
- hindrances

The subsequent sections are not influenced by a section of a pattern being moved.

4.4 Delete = Del

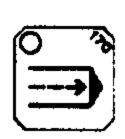
Delete is possible in modes "basic status" (sec.4.1) and "insert" (sec. 4.2).

The current value will be deleted.

In circle (arc) the complete circle must be deleted. Individual points cannot be deleted.

5 Description of functions

5.1 Direct functions



cycle sectionwise forwards through pattern.



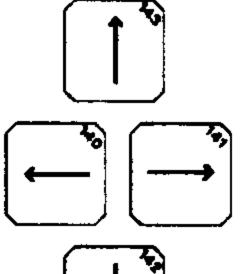
cycle sectionwise backwards through pattern.

With both functions the following appears in the display:

- X-/Y- coordinates
- current section number
- section type and, if applicable, parameter.



presser foot up/down



carriage movement keys

The X-/Y- carriage can be moved with these keys when inputting carriage positions in 1/10 mm steps.

Attention: direction of arrow = direction of movement of the needle to the pattern.

Current coordinates are displayed.

5.2 Dialogue functions

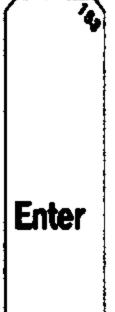


reset error

(erase error message after invalid input)



finish programming/correction



confirm input



abort a selected function



raise input values answer dialogue questions with "yes" scroll forwards in menu guide



lower input values answer dialogue questions with "no" scroll backwards in menu guide

5.3 Block

Note: block functions are only possible in the "basic status" mode,

(diode of key not lit).

- mark block-beginning
- mark block-end
- manipulate block

Within the sub function "manipulate block" the following functions are possible:

- -scale-up block
- -rotate block
- -mirror block
- -shift block
- -delete block.

5.3.1 Mark block-beginning

Cycle to the place in the pattern where the block is to begin, with the key.

Press the key and select the sub function "mark block-beginning" with or confirm with Enter

5.3.2 Mark block-end

Cycle to the place in the pattern where the block end is to be with the $\stackrel{\bigcirc}{\longrightarrow}$ key.

Press and select the sub function "mark block-end" with + or -

The block is now marked.

While cycling through the pattern, the marked block can be recognized by the asterisk (*) in the display.

5.3.3 Block manipulations

This function alters a marked block. This can be a complete sewing program or part of a sewing program.

After selecting the function "blockmanipulation" the message appears:

MOVE TO BEGIN OF BLOCK WITH ENTER #110



All subsequent block commands refer to this point.

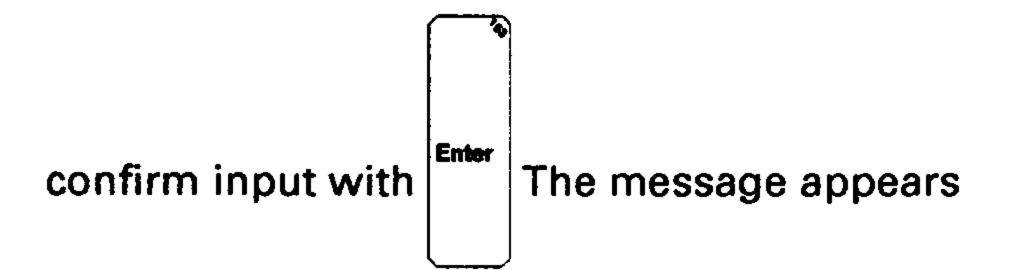
5.3.3.1 Scale up block

(The marked block or part of a block can be scaled up or down with this function). After selecting the function the message appears:

ENTER FACTOR FOR X-AXIS: 1.00 #453

input the desired factor (0.20 to 9.99).

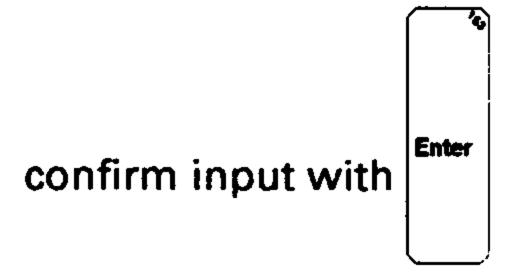
input value: 0.20 to 0.99 = scale down X-axis, 1.00 bis 9.99 = scale up X-axis.



ENTER FACTOR FOR Y-AXIS: 1.00 #454

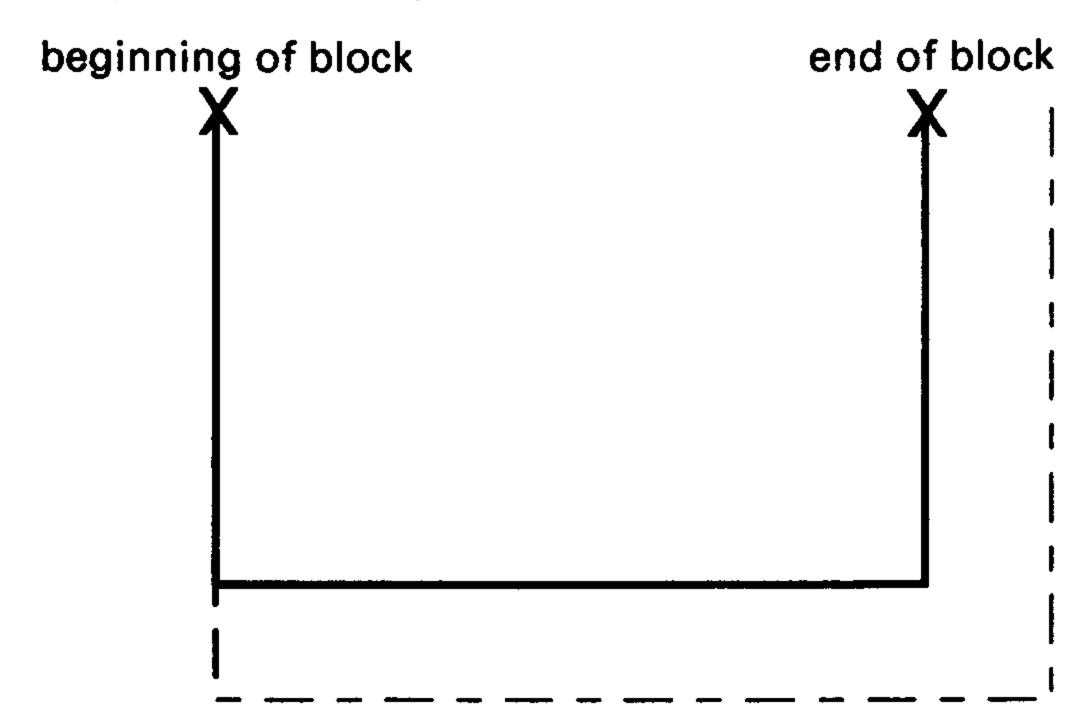
input the desired factor (0.20 to 9.99).

input value: 0.20 to 0.99 = scale down Y-axis, 1.00 bis 9.99 = scale up Y-axis.



The marked block has been scale up/down as selected.

Example of a scale-up block:



5.3.3.2 Rotate block

After selecting this function the message appears:

ENTER ROTATION ANGLE:

#455

Select the desired rotation angle with + or

rotate clockwise

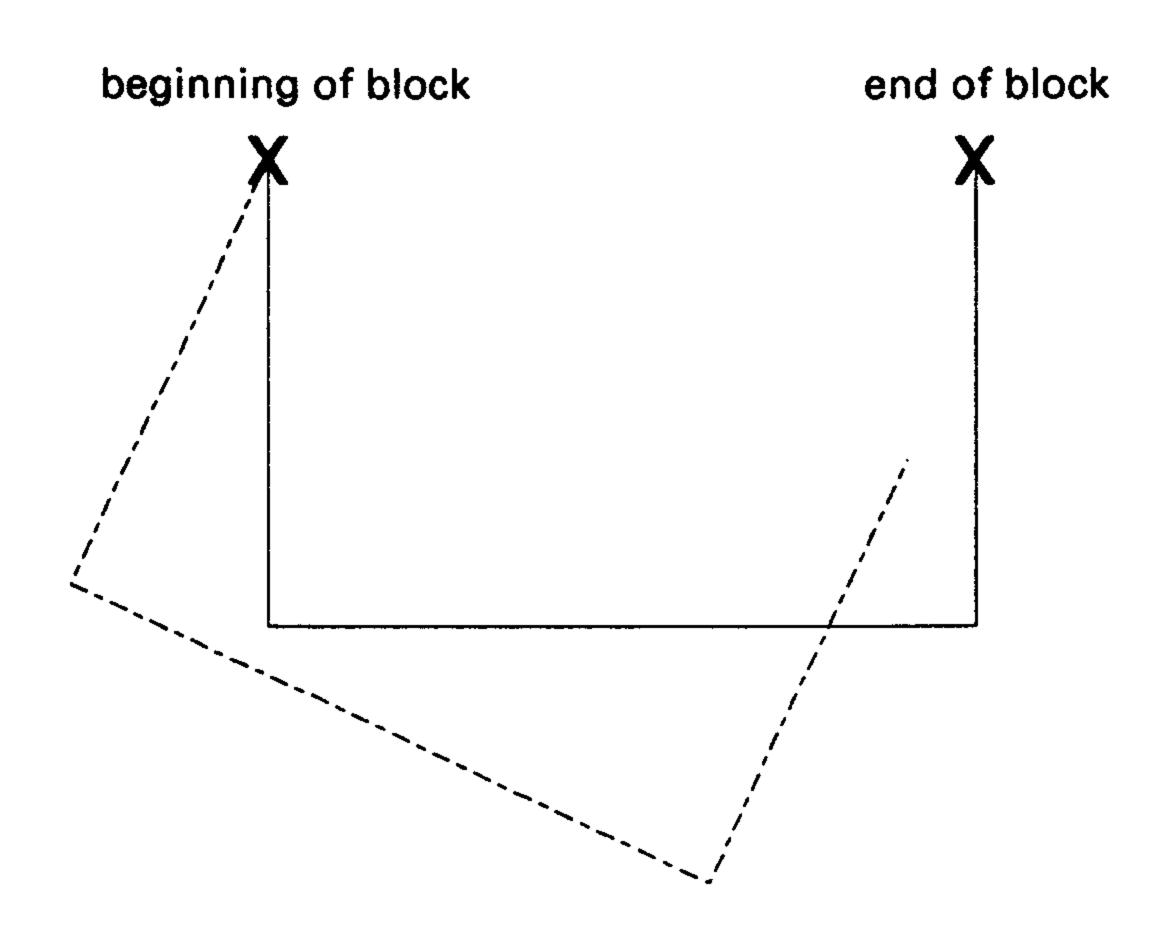
= negative angle-value (e.g.-10 deg.)

rotate anticlockwise

= positive angle-value (e.g. 10 deg.)



The marked block has been rotated as selected.



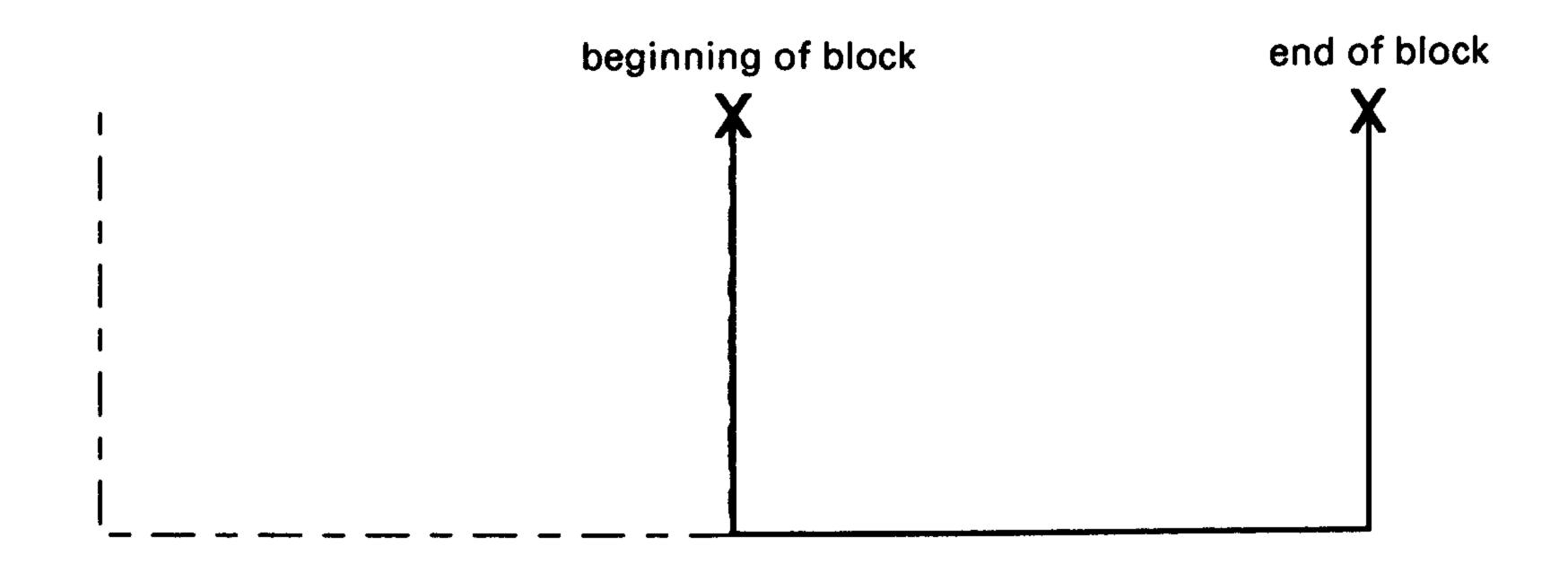
5.3.3.3 Mirror block

After selecting this function the message appears:

MIRROR WITH +

#456

The block is mirrored at the that passes through the block beginning and which lies parallel to the Y-axis.



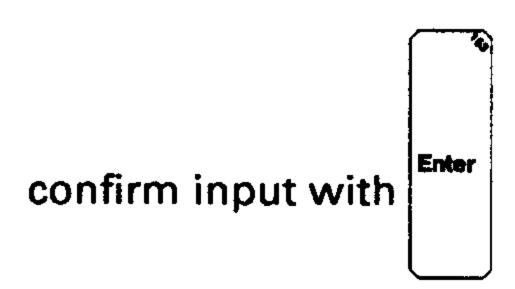
5.3.3.4 Move block

After selecting this function the message appears:

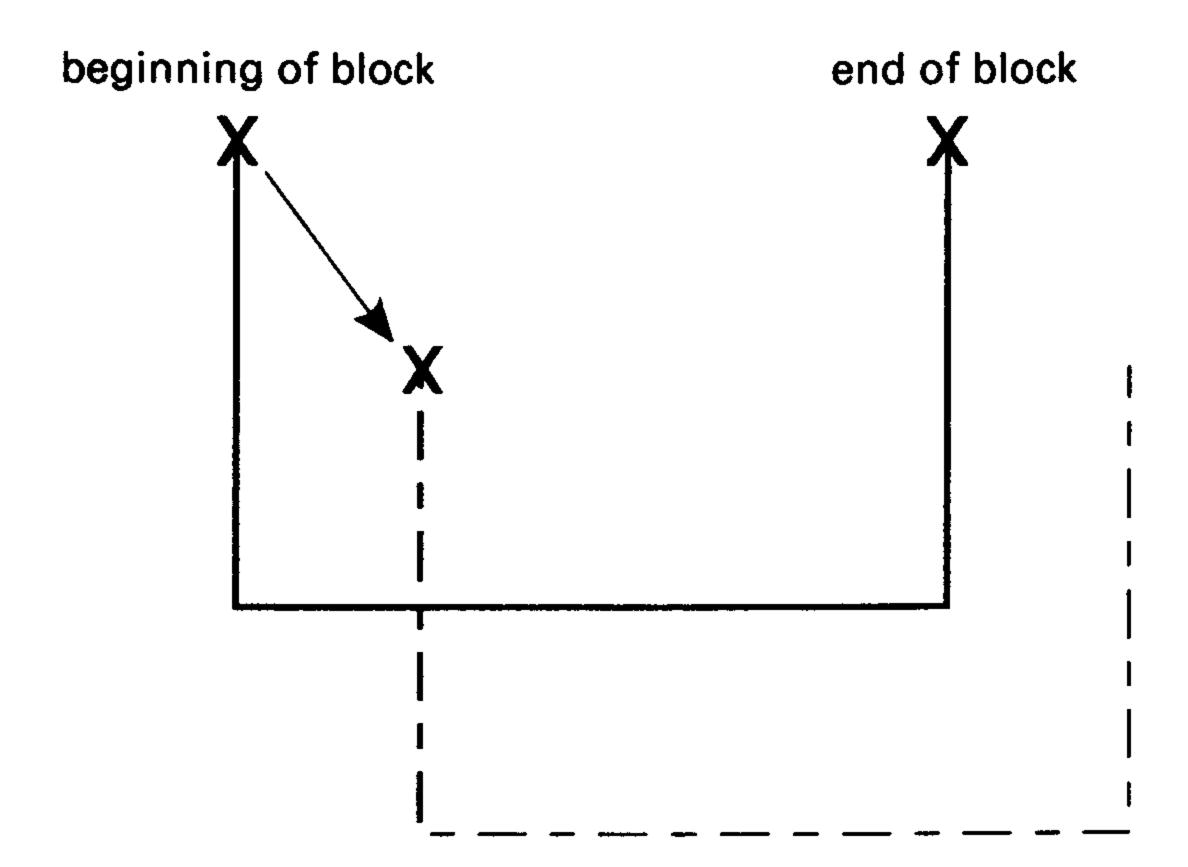
ENTER NEW POINT

#552

Move to the new point with



The new point is selected and the block is moved to it.

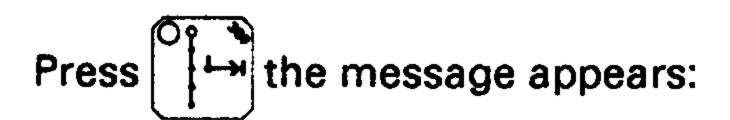


5.3.3.5 Delete block

After selecting this function the marked block is deleted by pressing the key.

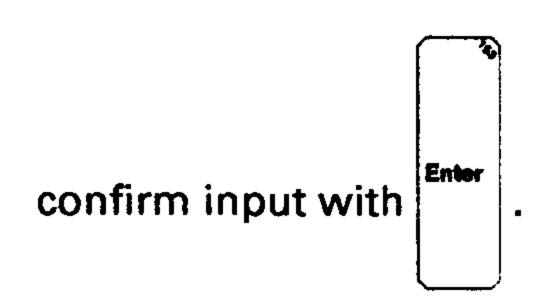
5.4 Displace pattern

With the key move to the point in the pattern which is to be displaced.



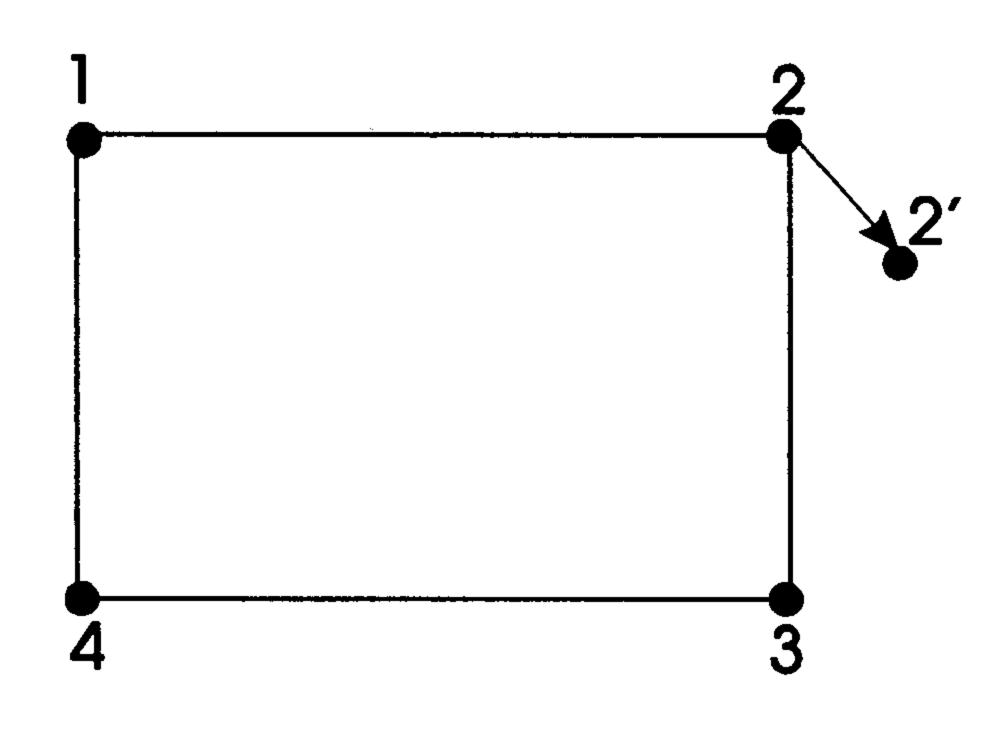


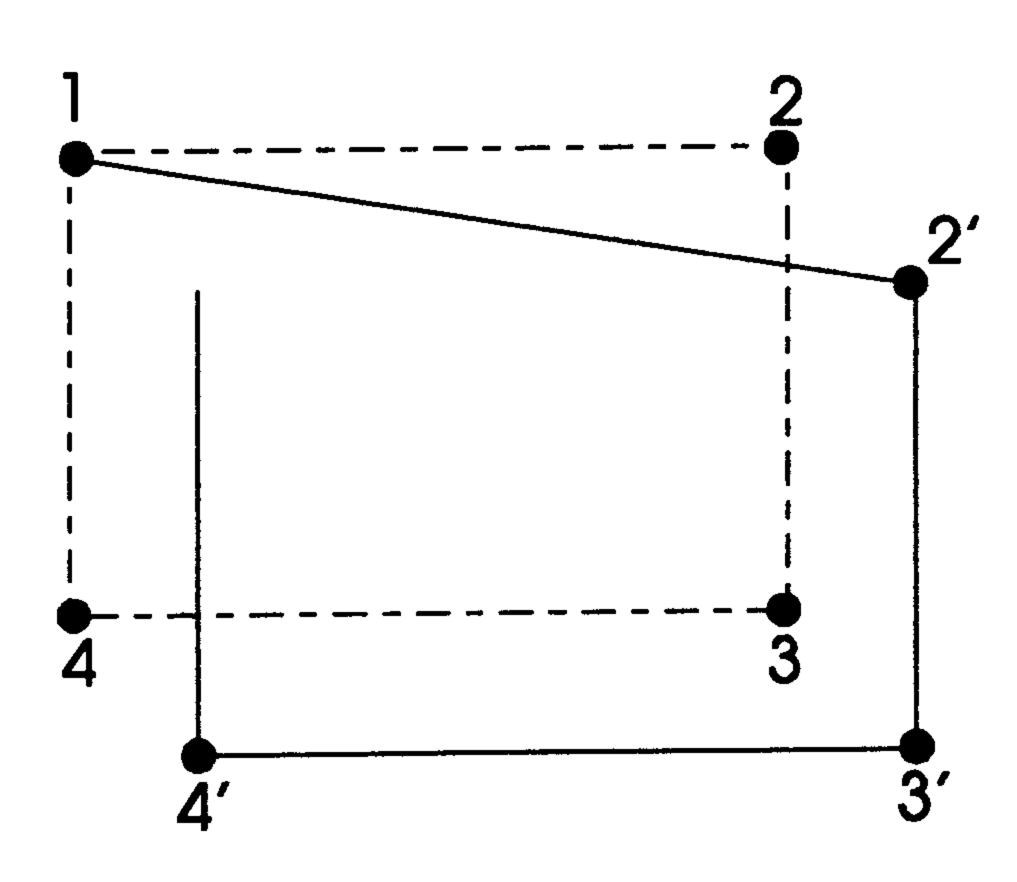
with the keys , , , and move the carriage to the new point. The current coordinates will be displayed.



Example of pattern displacement: The point in the illustration is displaced to 2'.

Starting with point 2' all of the subsequent coordinates are displaced in the same way.





5.5 Pattern manipulation

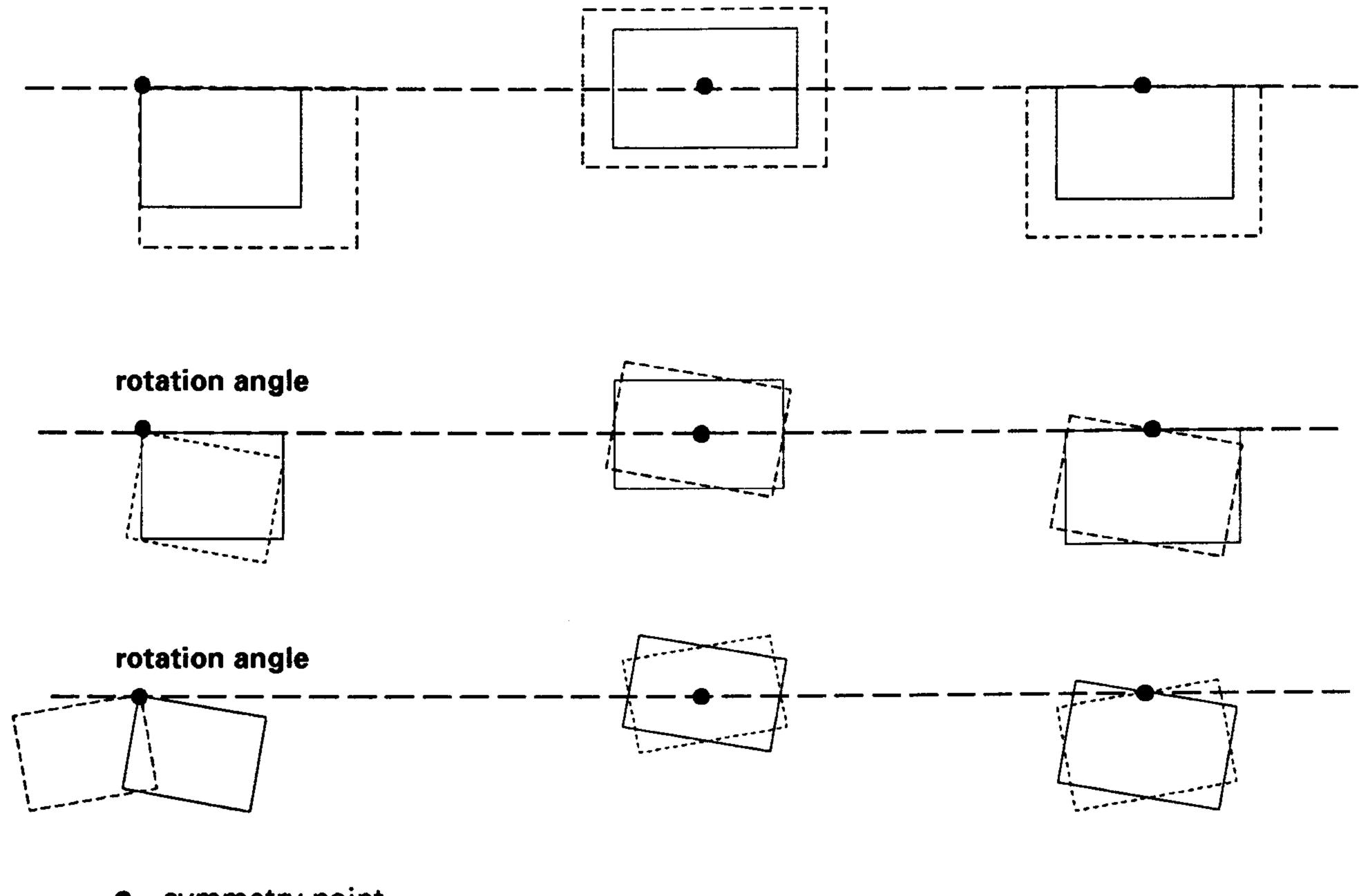
Within the main function "pattern manipulation" (=) the following sub functions are
possible:
-scale-up factor X-axis -scale-up factor Y-axis -rotation angle -mirror
The sub functions can be selected with $+$ or $-$.
After selecting pattern manipulation (press key) the message appears:
ENTER SYMMETRY POINT #450
The pattern manipulation will be carried out based on this point.
There are two types of symmetry point input:
1. Input with carriage movement.
Move the carriage to the symmetry point with the keys ← , → , ↓ and ↑.
The current coodinates will be displayed.
2. Input without moving the carriage.
Press + or - the message appears:
SYMMETRY POINT X-AXIS XXX #451
The coordinate value can be changed with $+$ and $-$.
Confirm input with the message appears:
SYMMETRY POINT Y-AXIS XXX #452
The coordinate value can be changed with + and .
Confirm input with , the message appears:
SCALE-UP FACTOR FOR X-AXIS #470
The desired sub functions can be selected with + or .

	ENTER FACTOR X-AXIS	#453
	input the desired factor (0.20 to 9.99). input value: 0.20 to 0.99 = scale down X-axis 1.00 to 9.99 = scale up X-axis.	
	confirm input with	
5.5.2	Scale-up factor Y-axis. After selection the messa	age appears:
	ENTER FACTOR FOR Y-AXIS: 1.00	#454
	input the desired factor (0.20 to 9.99). input value: 0.20 to 0.99 = scale down Y-axis 1.00 to 9.99 = scale up Y-axis.	
	confirm input with	
5.5.3	Rotation angle. After selection the message app	ears:
	ENTER ROTATION ANGLE:	#455
	select desired rotation angle with the + and	keys.
	Rotate clockwise = negative angle value	(e.g10 deg.)
	Rotate anticlockwise = positive angle value	(e.g. 10 deg.)
	The rotation is effected around the selected sym	nmetry point.
5.5.4	Mirror. After selection the message appears:	
	MIRROR WITH +	#456
	after pressing + the pattern will be mirrored through the symmetry point.	at the which runs parallel to the Y-axis
	Note: pattern manipulations are only carried	d out after pressing the key.

Scale-up factor X-axis. After selection the message appears:

5.5.1

5.5 Scale up factor X-Y-axis



= symmetry point

5.6 Coordinate reference point

With the key the coordinate values in the display are set at X 0 - Y 0. Thus a new coordinate reference point is created.

The function can be carried out in the following operation modes:

basic status = not pressed (diode not lit)

insert = pressed (diode lit)

alter = pressed (diode lit)

6 Jig monitor/-code

(additional equipment)

- .1 For the jig monitor the sewing jig is fitted with a code by attaching magnets. This code allows the control to read the code via the additional equipment.
- .2 If you wish to work with the function JIG MONITOR this must be switched on (see instruction manual for Pfaff 3568-2/21 or -1/22 or -2/22 4.4.3 jig monitor).
- .3 A jig code must be programmed in the sewing program.
- .4 The jig code is a value from (0-99).

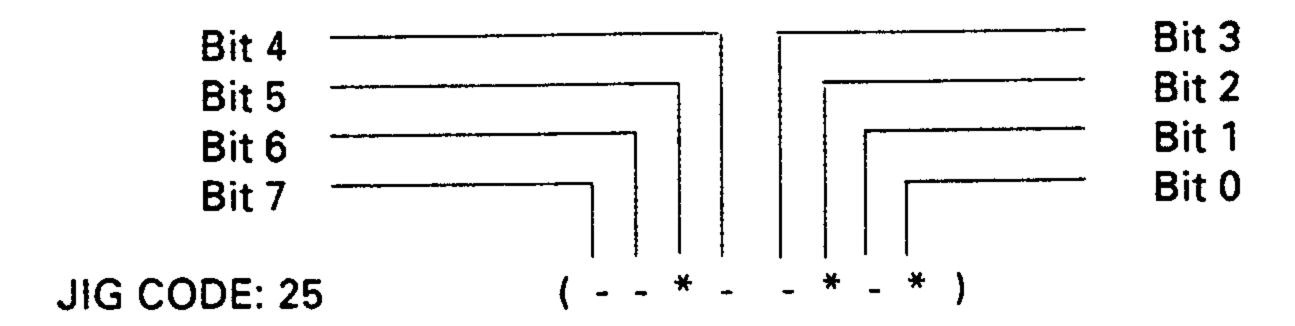
 Behind the entered value, the corresponding order of the magnets appears in binary code.

 Here the last four places represent the correspond to the digit in the ones column and the front four places correspond to the digit in the tens column.

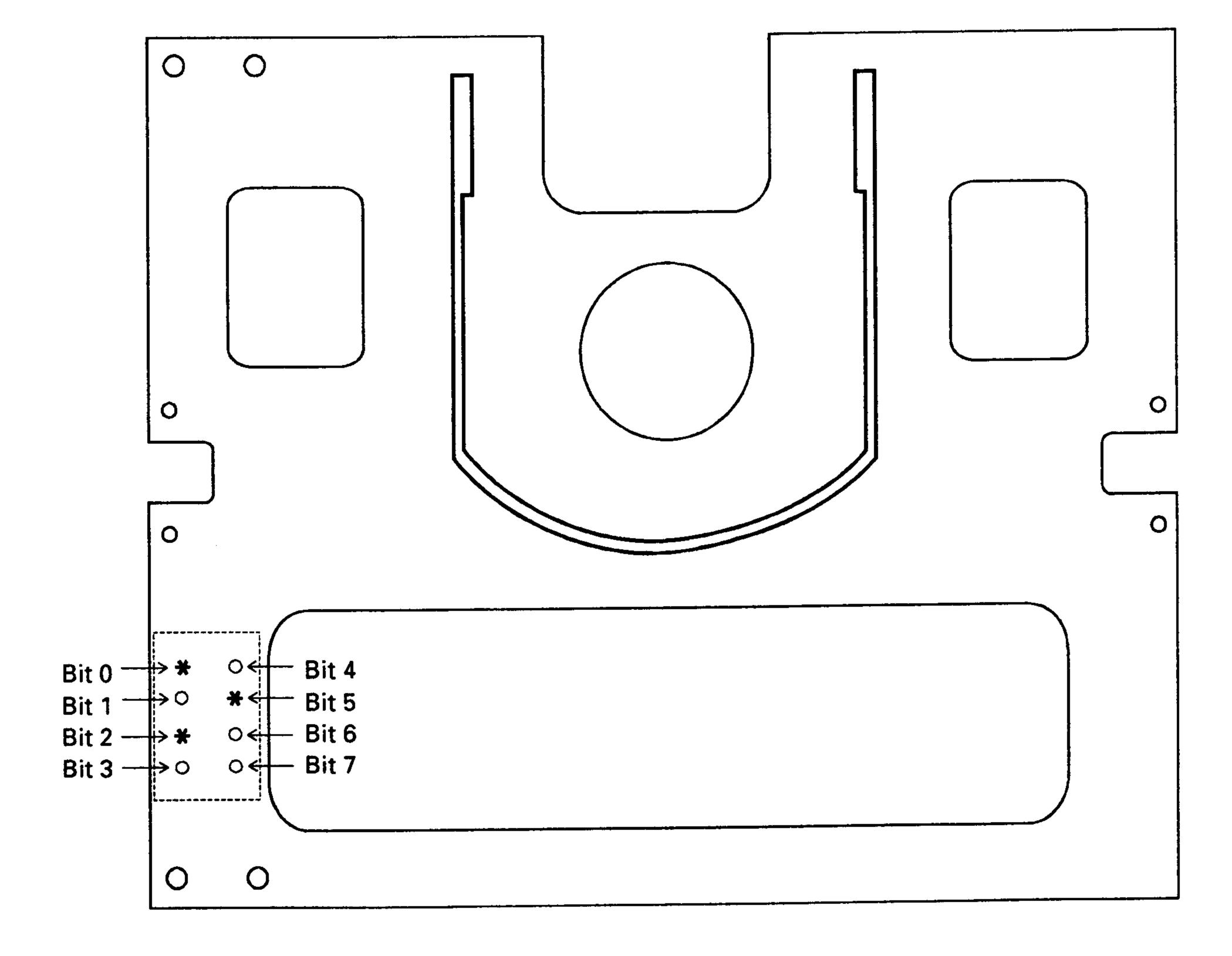
Conversion table

number	ones (tens)	Bit3 (Bit 7)	Bit 2 (Bit 6)	Bit 1 (Bit 5)	Bit 0 (Bit 4)
0		-	-	-	_
1		-	· -	-	*
2		-	-	*	_
3		-	-	*	*
4		-	*	-	-
5		-	*	-	*
6		-	*	*	-
7		-	*	*	*
8		*	-	-	-
9		*	-	-	*

.5 display of the magnet positions when entering code



- = no magnet
- * = magnet
- .6 order of the magnets on the underside of the jig. (jig shown here from above)

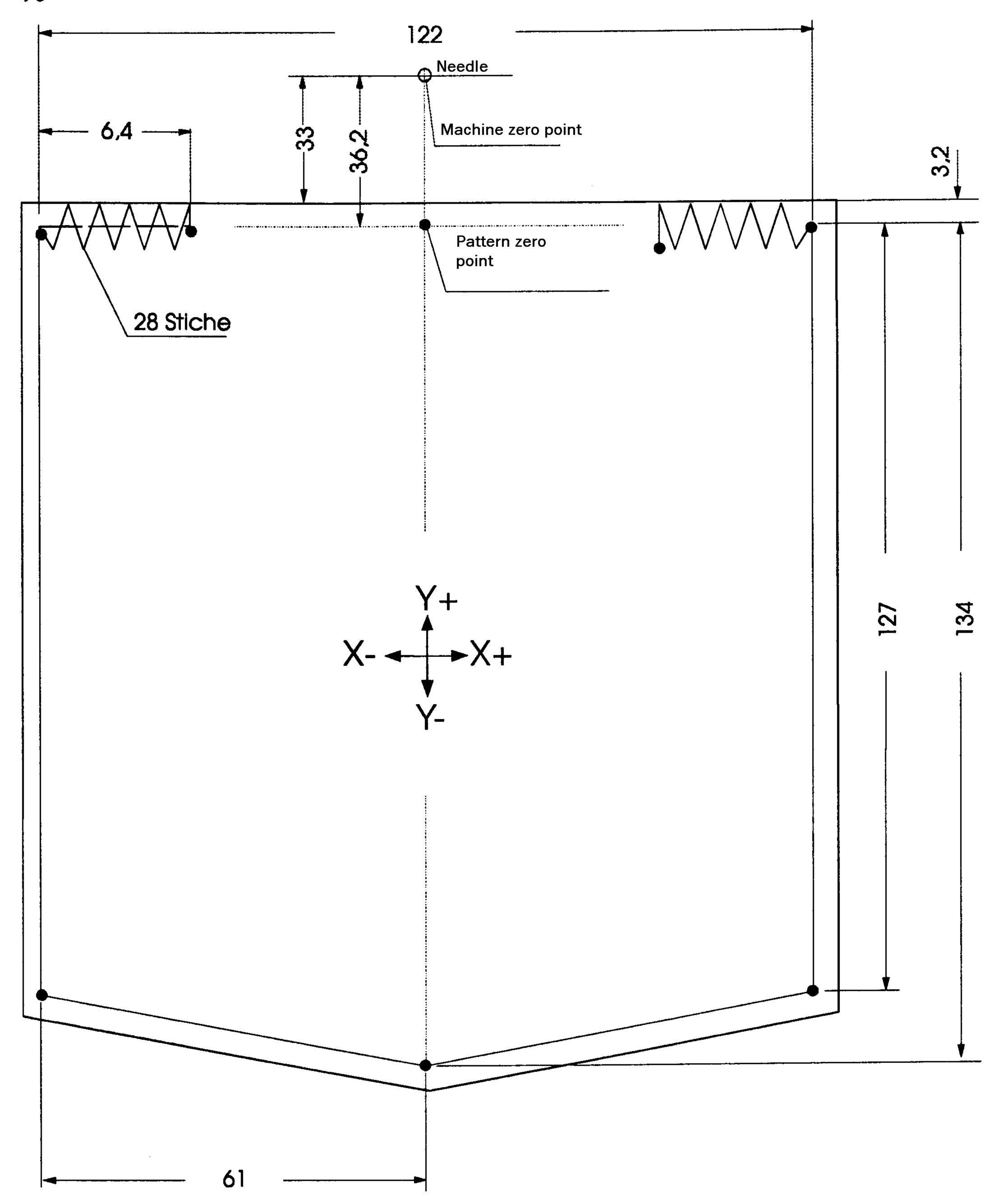


o = no magnet

* = magnet

7 order of the magnets on the underside of the jig.

(jig shown here from above)



Note: In the program which follows, the initial description only shows the pattern form without the machine functions such as "reduce speed", "secondary tension" etc. The shift parameters are not considered.

These extras are described in section 8 "pattern proofing".

Write sewing program (see pattern example in section 7)

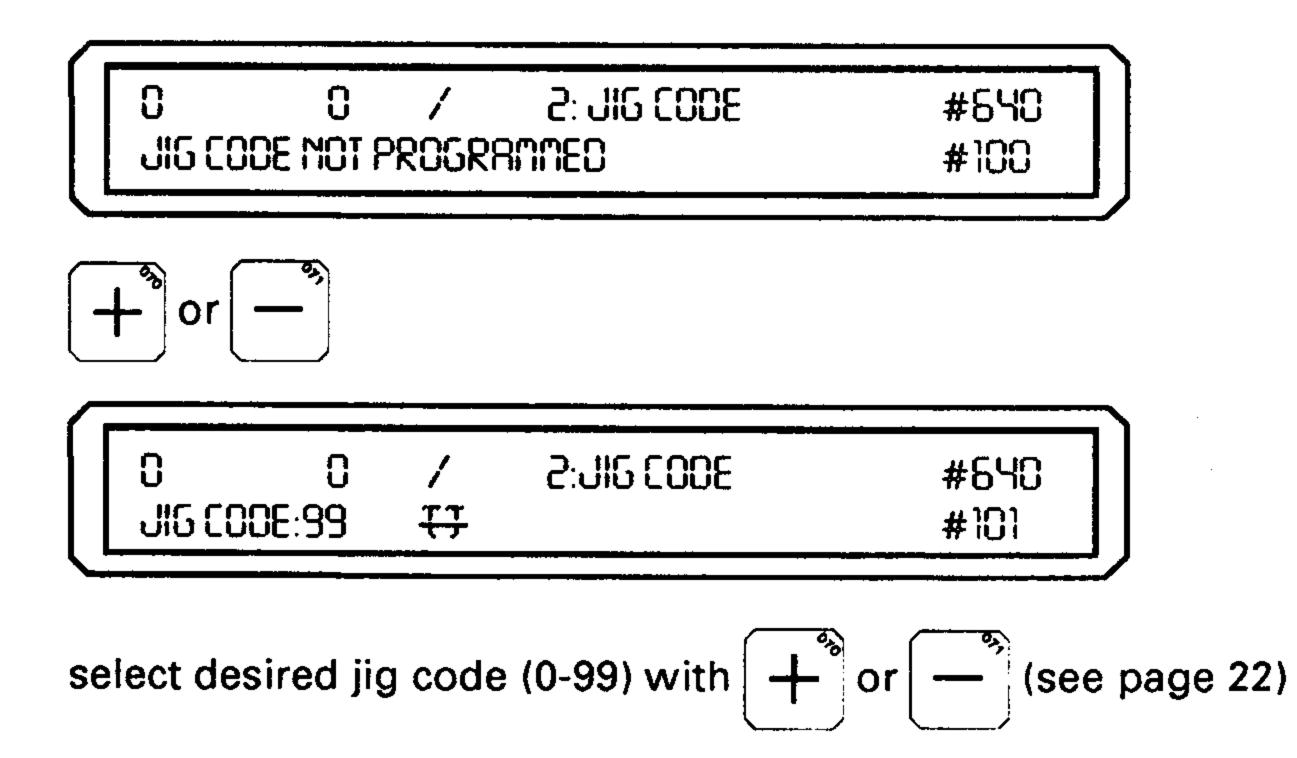
program model: sketch with coordinate values:

Max. pattern size = 220 x 250 mm.k

Note: Requirement for using the existing sewing program is the identity of the sewing jig

and the corresponding form-related folder-part-set.

Connect and switch on the programming device in accordance with section 2.



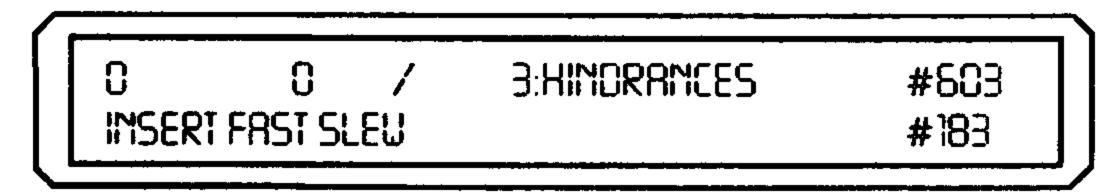
Enter

			7. — 7	
0	0	/	3: HINDRANCES	#603
HINDRR	ices yes	"+", NE	}~-~	#102
	162262	+ , i ji_	j -	# ii.jc'

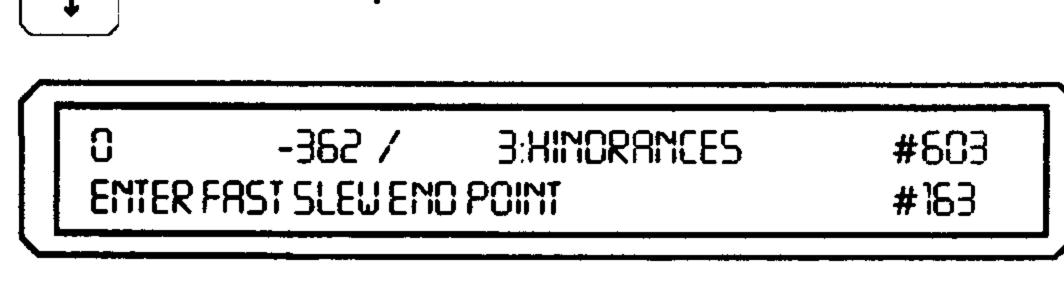
for sewing jig without hindrances

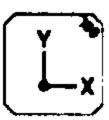
O	8	/	3:HINDRANCES	#603
JIG WITHOUT OBSTRCLES				#703

○ ♦ •→→• fast slew



Move to Y-coordinate -362 (=36.2 mm) (pattern zero-point) with carriage movement key

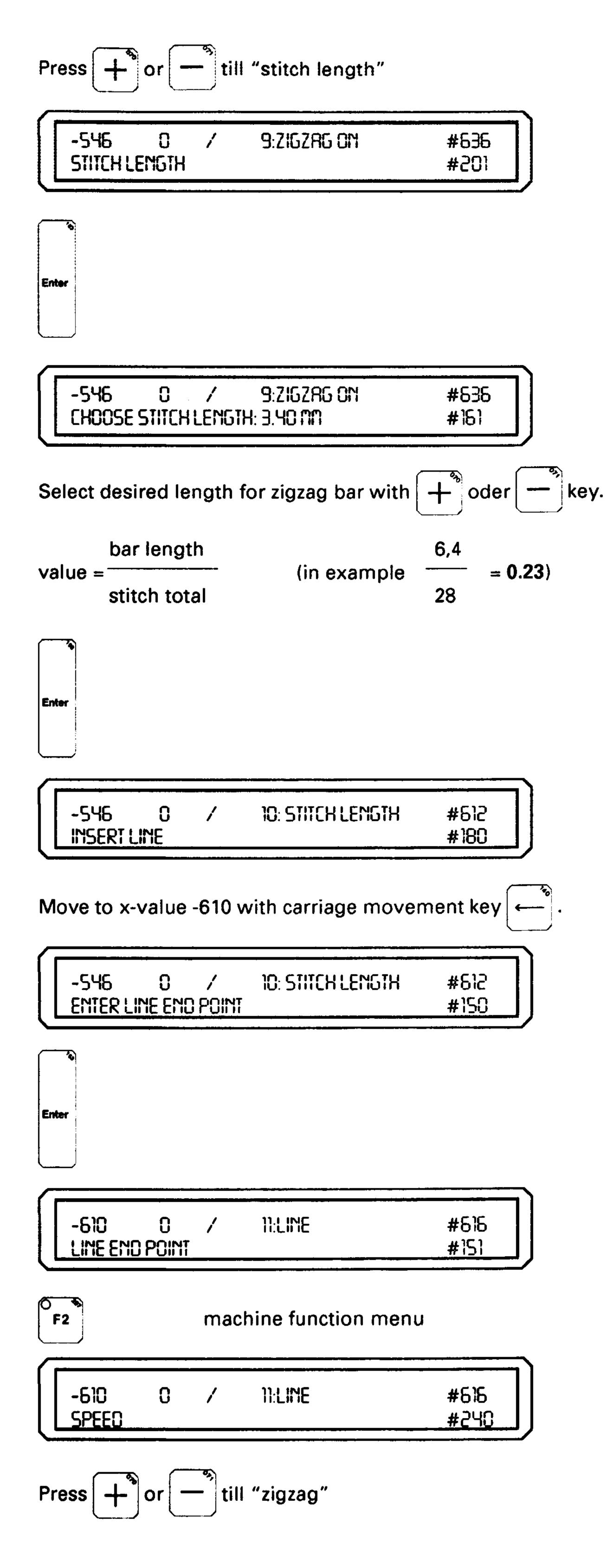


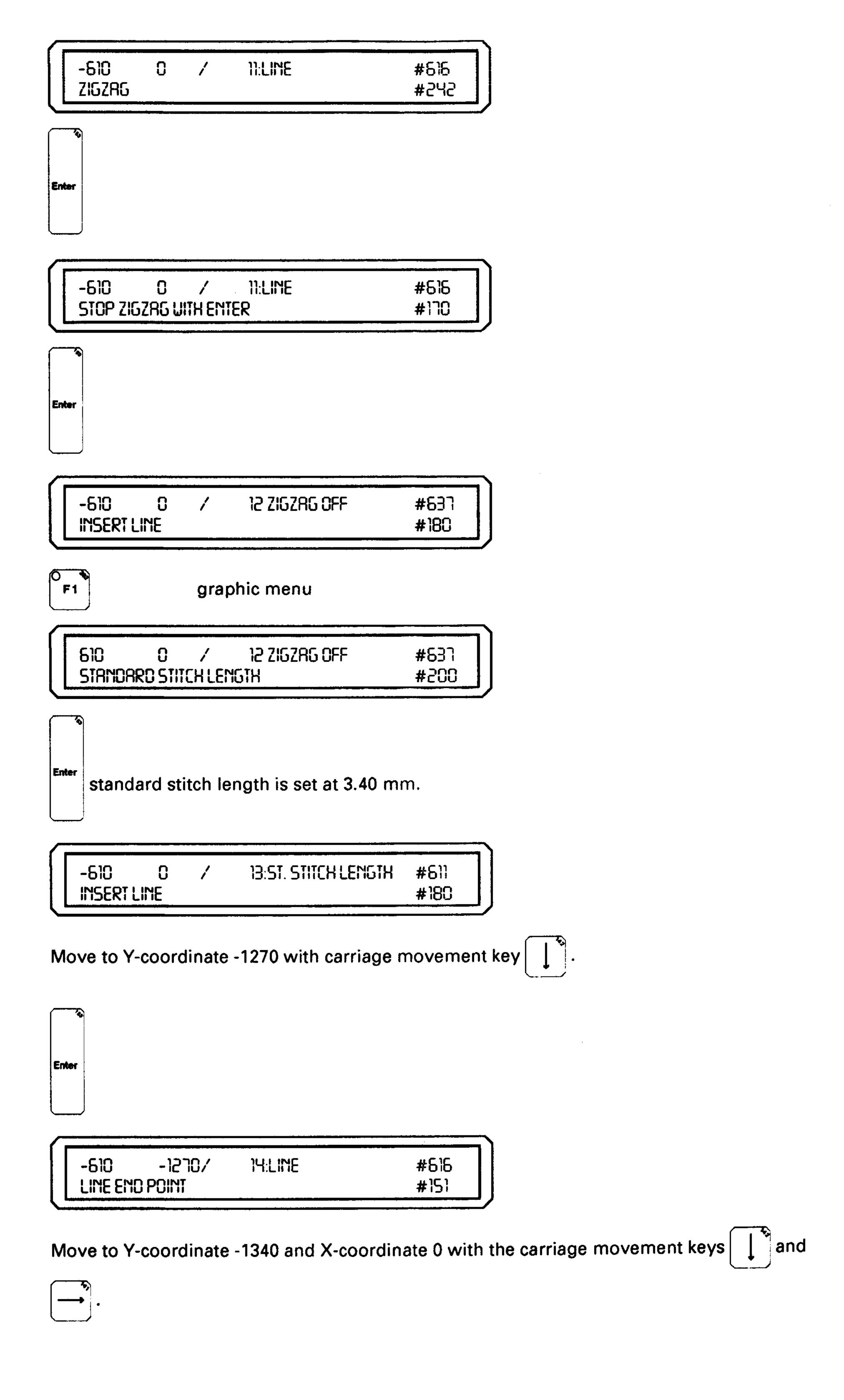


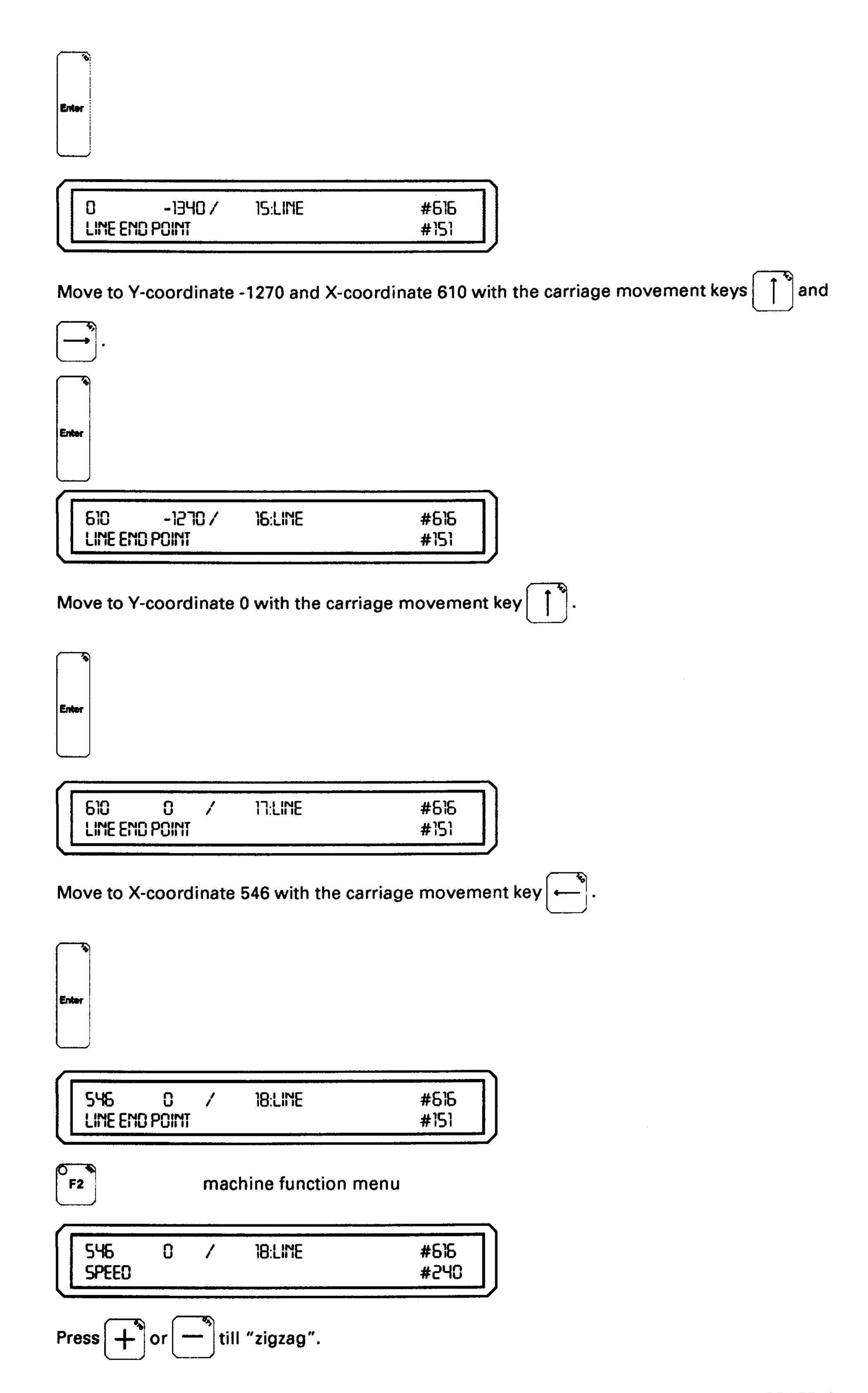
The coordinate reference-point becomes the new pattern zero-point (X = 0, Y = 0).

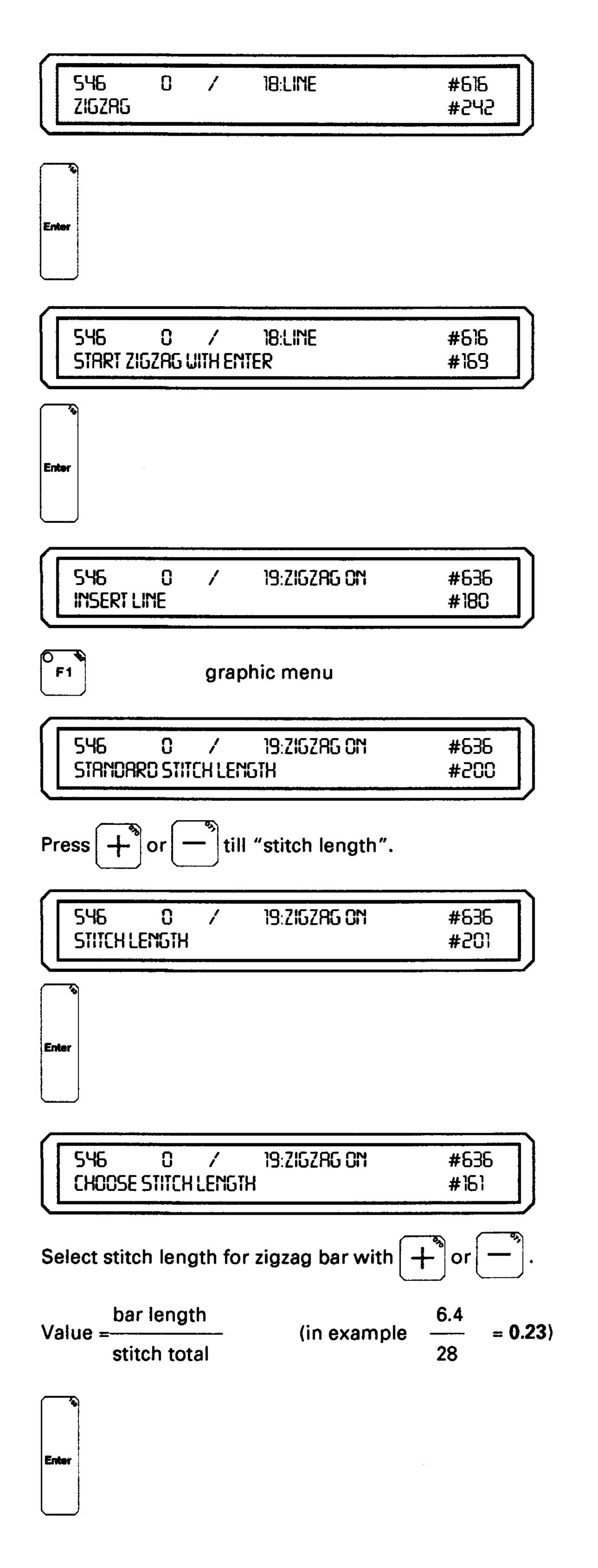
-This simplifies the inputting of the coordinates. Move to X-coordinate -610 (=61 mm) with the carriage movement key -610 3:HINDRANCES #603 ENTER FRST SLEWEND POINT #163 Enter -610 #614 S: FAST SLEW start sewing 6: START SEUING #605 -610 graphic menu -610 **6: START SEUING** #606 STRNORRO STITCH LENGTH #200 Enter 6: START SEUING #606 -610 CHOOSE STRNORRO STITCH LGTH: 3.00 MM #160 select desired standard stitch length (in example 3.4 mm) with + or -. Enter -610 7:ST. STITCH LENGTH #511 #705 STANDARD STITCH LENGTH: 3.40 nm straight line

7:ST. STITCH LENGTH -610 #511 INSERT LINE #180 Move to new X-value -546 (=54.6 mm) with the carriage movement key Enter -548 8:LINE #616 LINE END POINT #151 machine function menu F2 -546 8:LINE #616 SPEED #240 till "zigzag". -548 8:LINE 0 #616 ZIGZRG #242 Enter -546 **B:LINE** 0 #516 START ZIGZAG WITH ENTER #169 Enter -548 9:ZIGZRG ON #636 INSERT LINE #180 F1 graphic menu 9:ZIGZRG ON -546 #636 STANDARD STITCH LENGTH #200 -546 9: ZICK-ZACK EIN #636

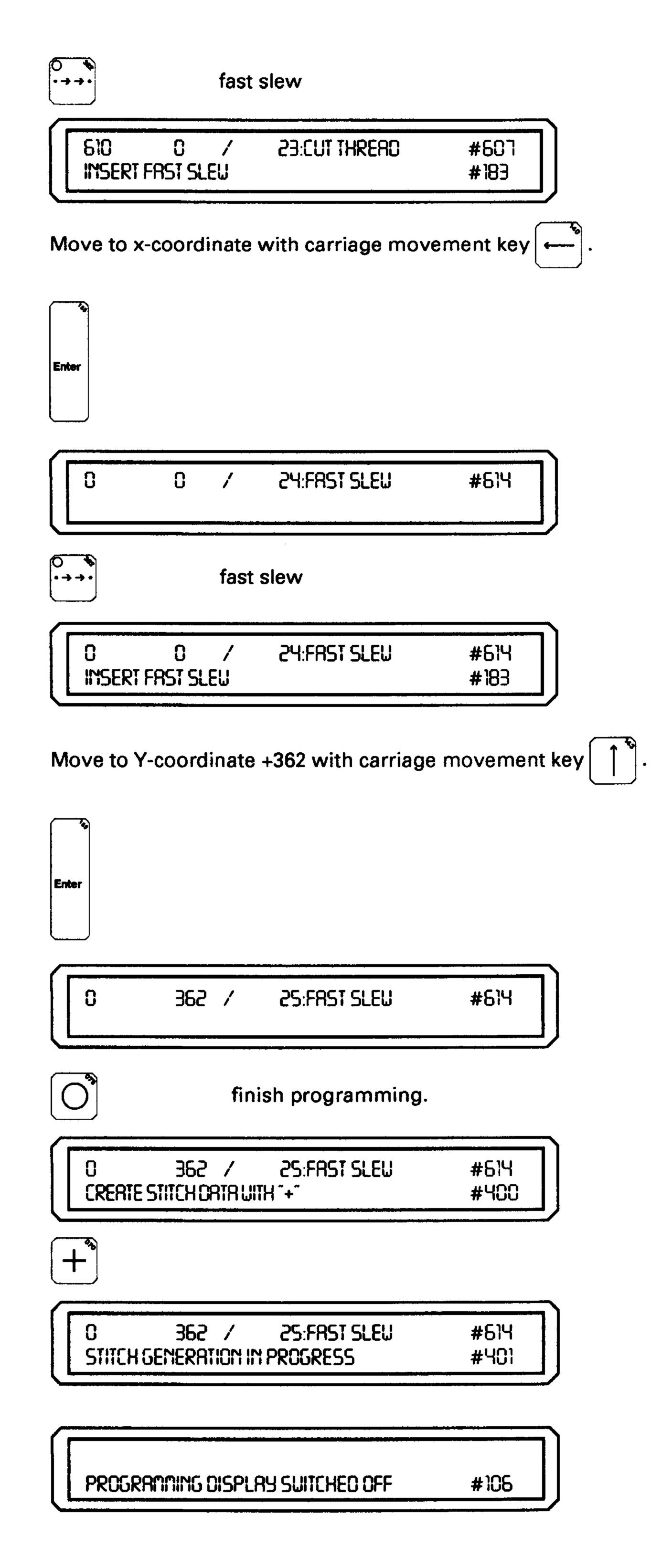








546 0 / 20:STITCH LENGTH INSERT LINE	#512 #180
Move to X-coordinate 610 with carriage mo	oovement key
610 0 / 20:STITCH LENGTH ENTER LINE END POINT	#612 #150
Enter	
610 0 / 21:LINE LINE END POINT	#515 #151
F2 machine function menu	
SPEED / 21:LINE	#616 #240
Press + or till "zigzag".	
610 0 / 21:LINE ZIGZRG	#616 #242
Enter	
510 0 / 21:LINE STOP ZIGZRG WITH ENTER	#515 #170
Enter	
510 0 / 22:ZIGZRG OFF INSERT LINE	#537 #180
cut thread	
610 0 / 23:CUT THREAD INSERT LINE	#507 #180



*Note:	A data record can only be created wit	tht + . Only the geometrical data record is
	saved with or After inputting this program number.	the message appears:
	PROGRAM INCOMPLETE	#175

This program can be worked on within the function "correct sewing program".

9 Correct sewing program

This function serves to modify patterns or to insert or delete already programmed graphic functions or machine functions (see section 3 diagram "writing/correcting programs". In the following example, the inserting of machine functions into the existing sewing program from section 8 is described.)

The programming device is ready to make a correction in accordance with section 2.

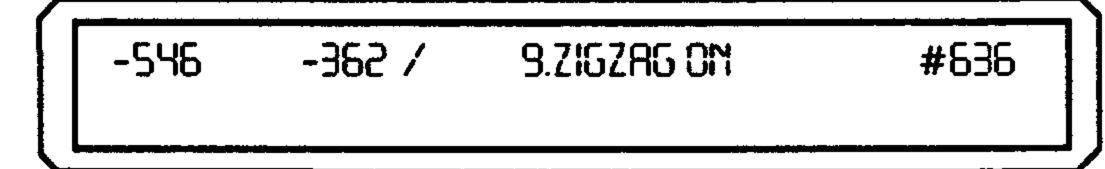


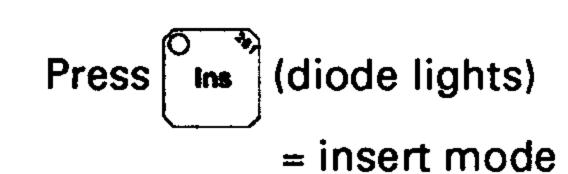
If the displayed program is to remain unchanged after carrying out the correction, a new program number must be entered for the program which is to be altered.













	•	· · · · · · · · · · · · · · · · · · ·	-
-546	-362 /	9. ZIGZRG ON	#636
SPEED			#240
			<u></u> !



I	-546	-362 /	S.ZIGZRG ON	#636
	SHIFT PR	RRAMETER		#248
(

Enter

			
-548	-362 /	9.ZIGZRG ON	#636
ENTER S	TITCH PARAME	ETER: STITCHES	#179
•			·

Press till -2 ST (=-2 stitches)

Note:

A shift parameter of -7 stitches is to be entered when creating a double seam in the functions "zigzag on" and "zigzag off".

In the example shown, the function "zigzag on" is at the beginning of the seam. As the sewing machine has not yet reached max. speed at this stage, a shift parameter of -2 stitches is sufficient.

Enter

-546 -362 / 9:ZIGZRG ON #636 SHIFT PRRRMETER: -2 STITCHES #744

F2

machine function menu

 546
 -362 /
 9: ZIGZRG ON
 #636

 5PEED
 #240

Press + or - till "reduced speed"

-546 -362 / 9:ZIGZRG ON #636 REDUCED SPEED #241

Enter

-546 -362 / 9:ZIGZRG ON #636 STRRT REDUCED SPEED WITH ENTER #167

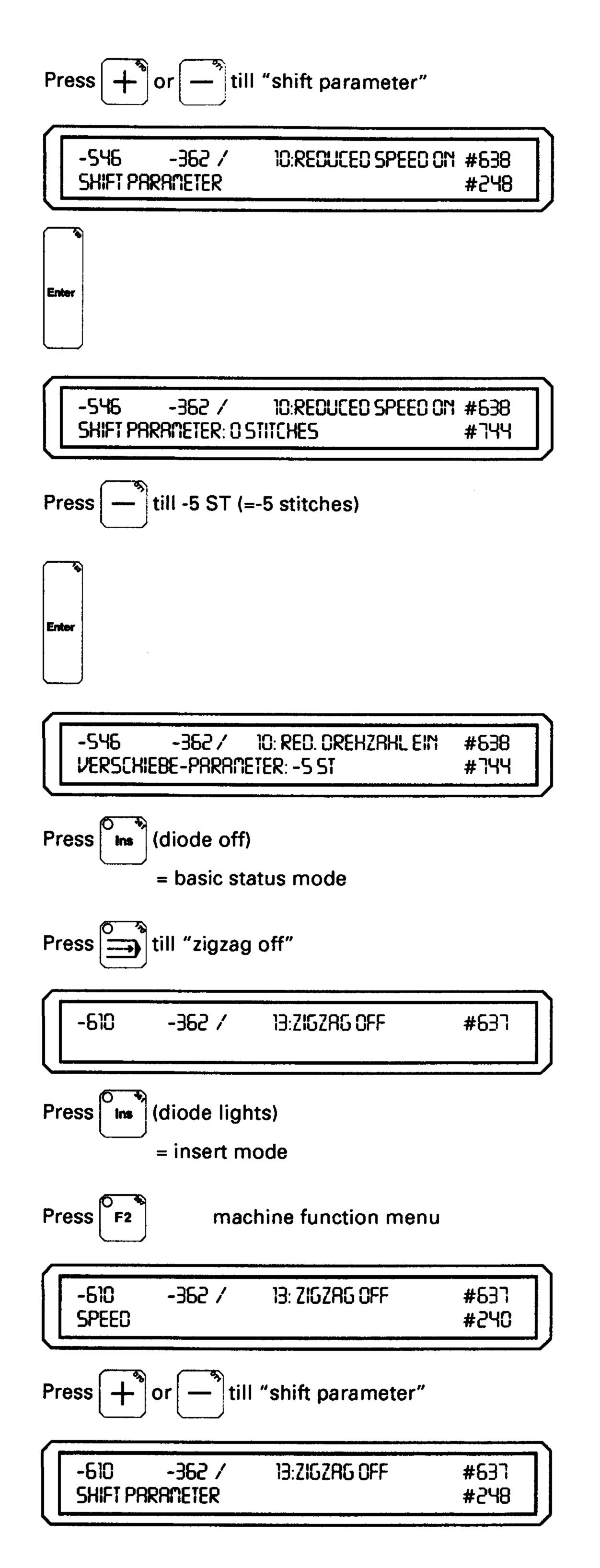
Enter

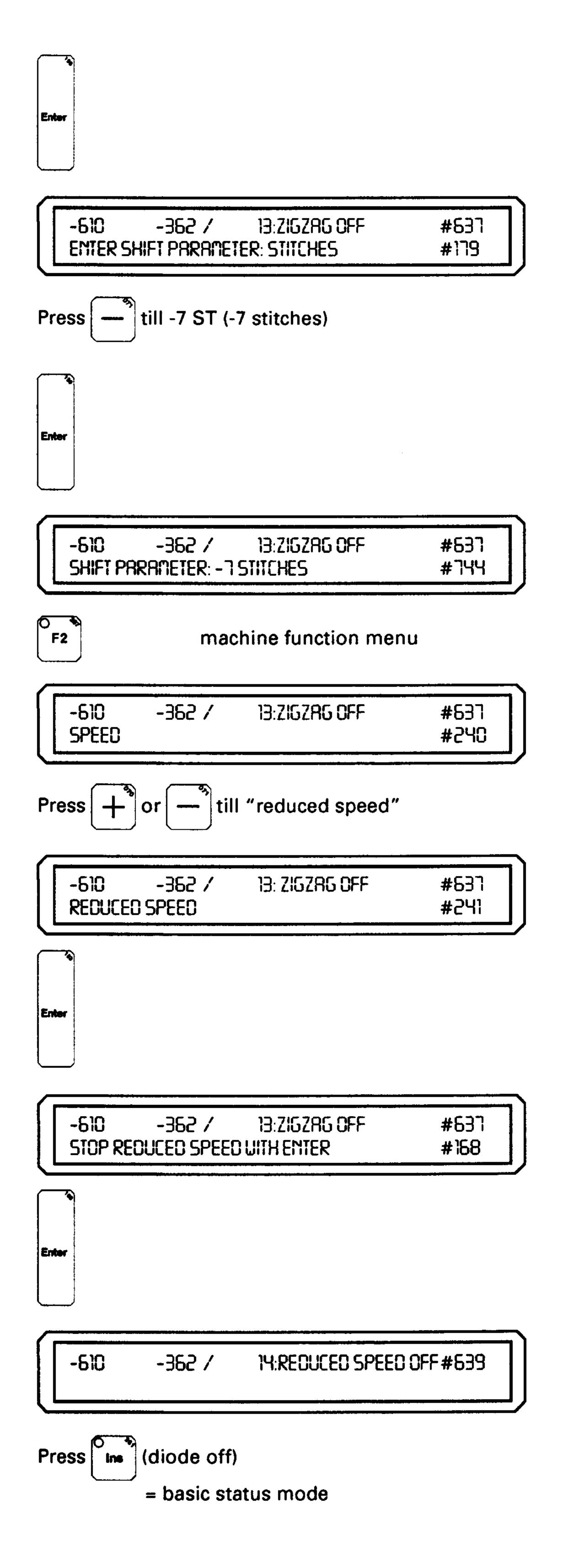
-546 -362 / 10:REDUCED SPEED ON #638

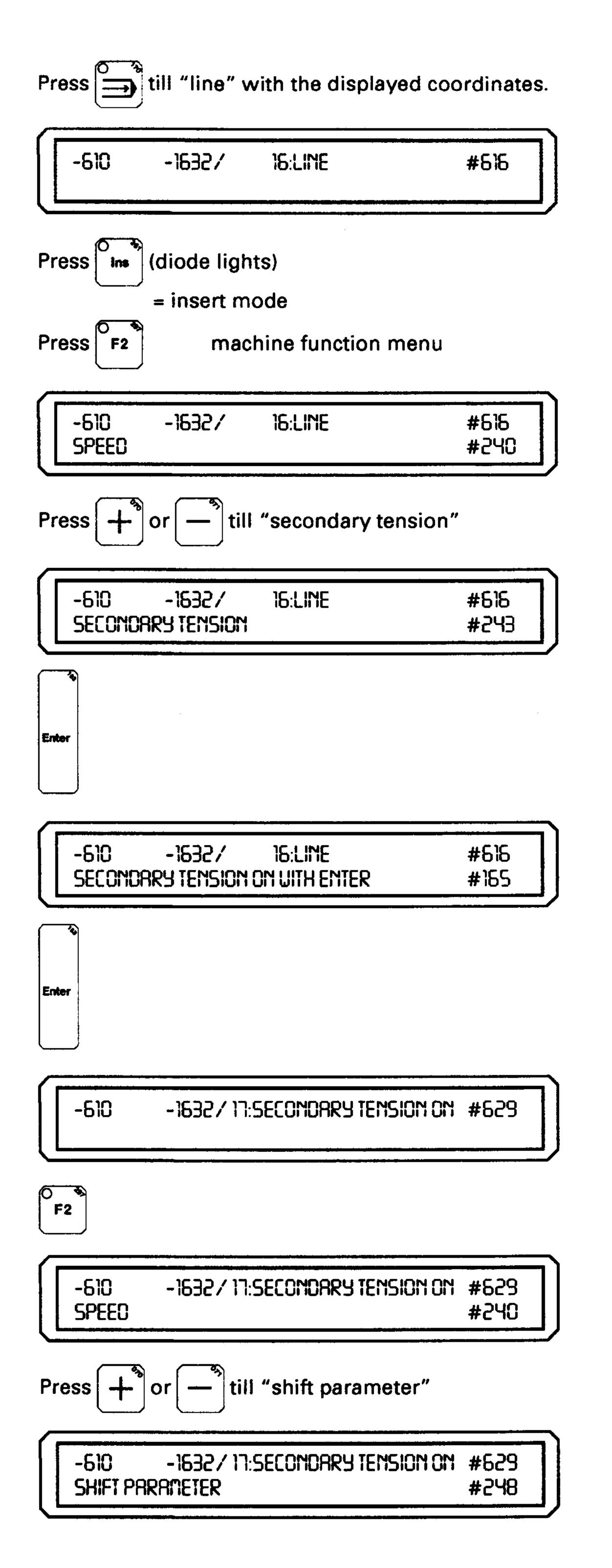
F2

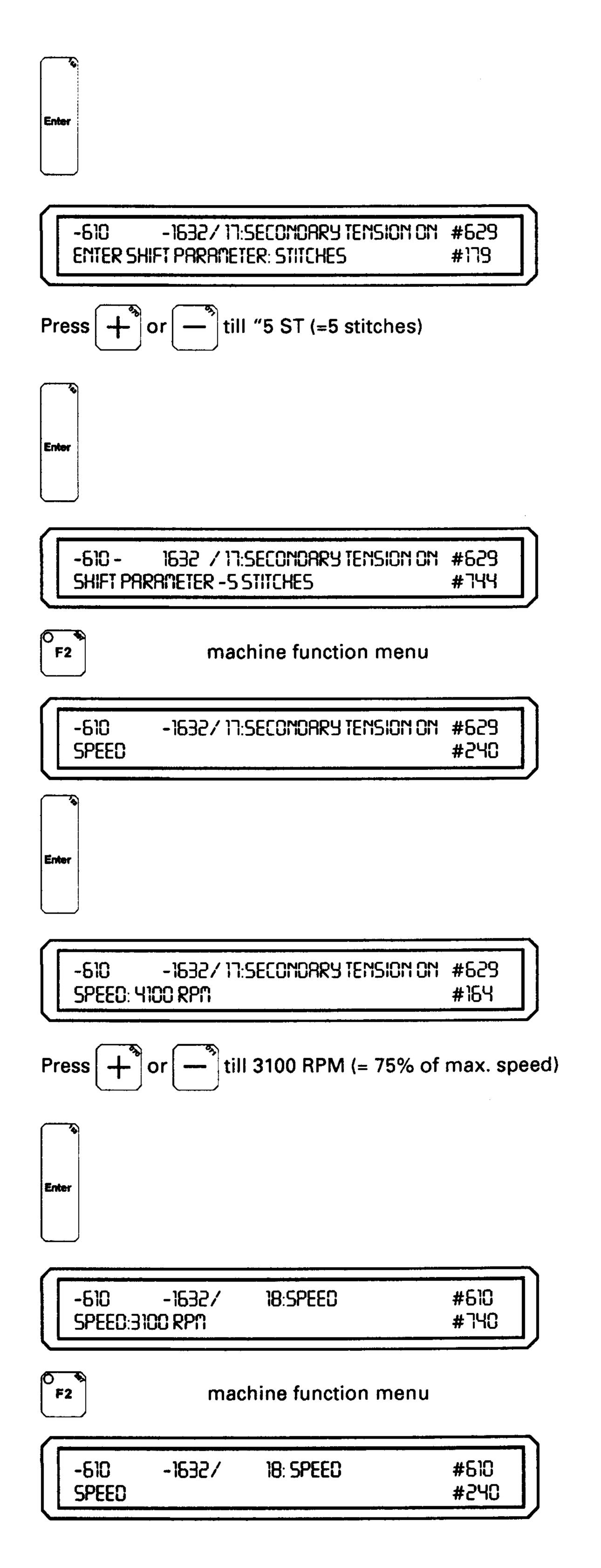
machine function menu

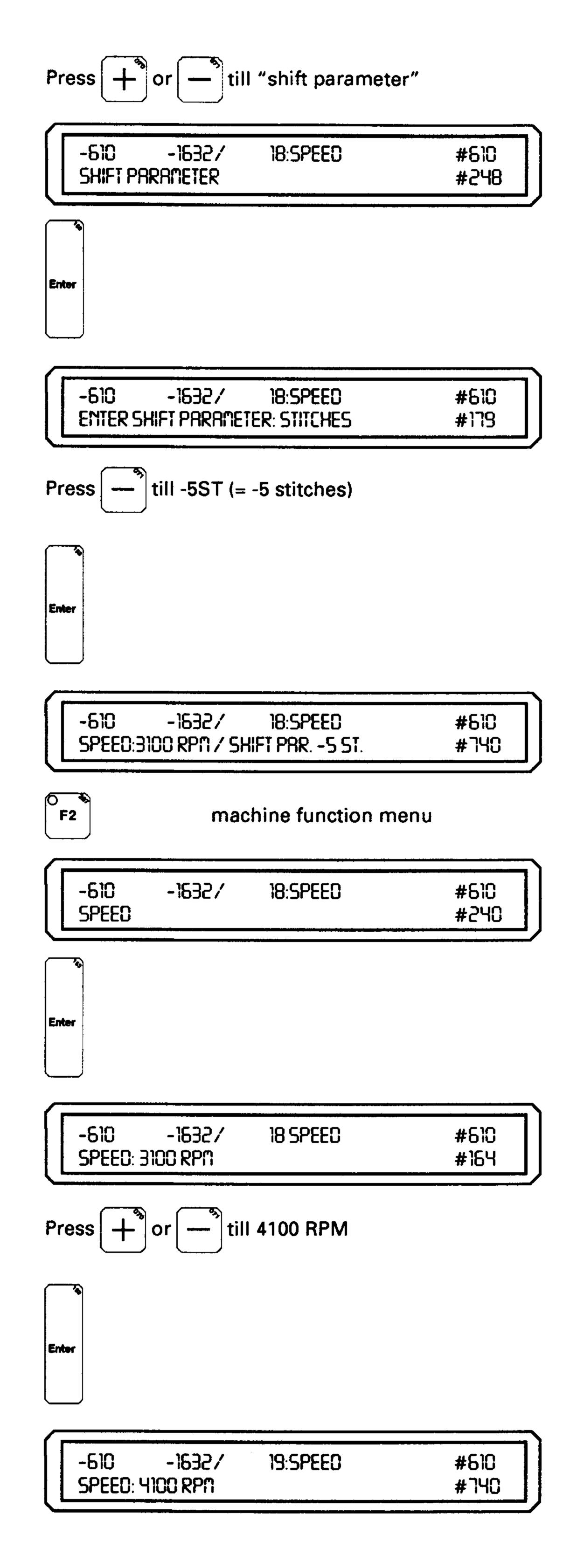
-610 -362 / 13:ZIGZRG OFF #637 SHIFT PRRRMETER #248

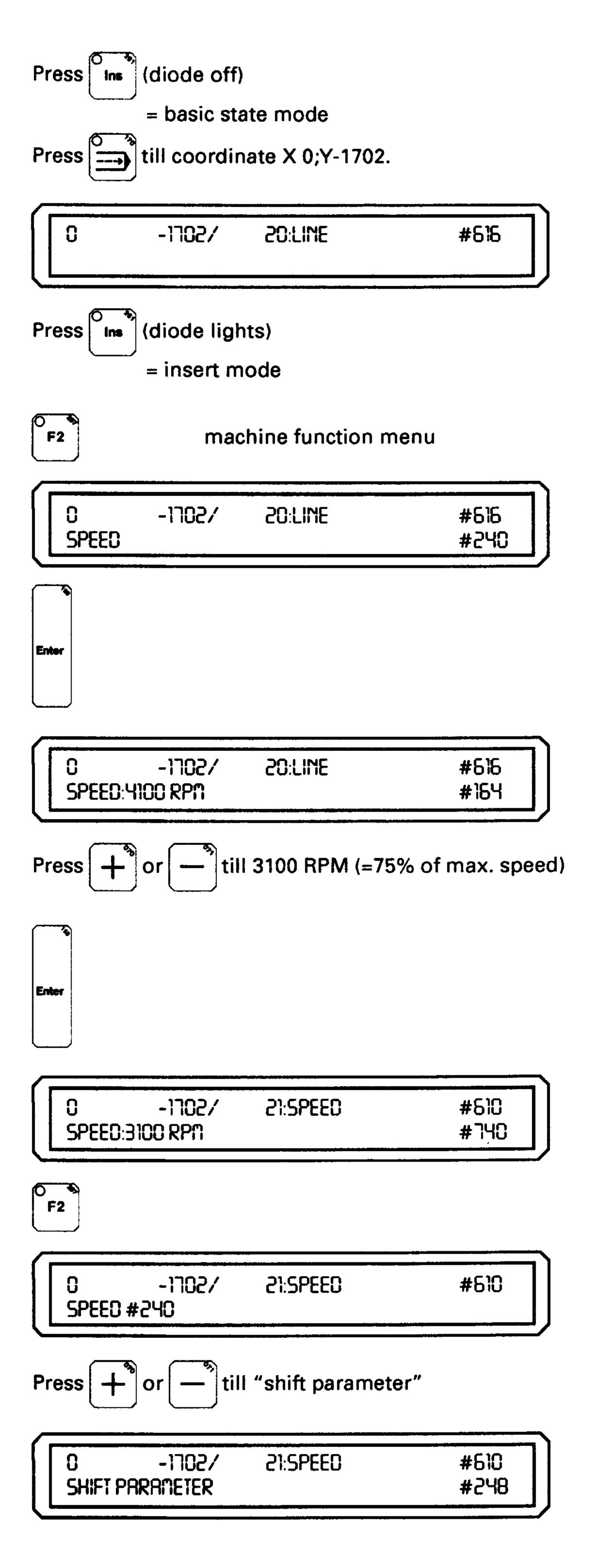


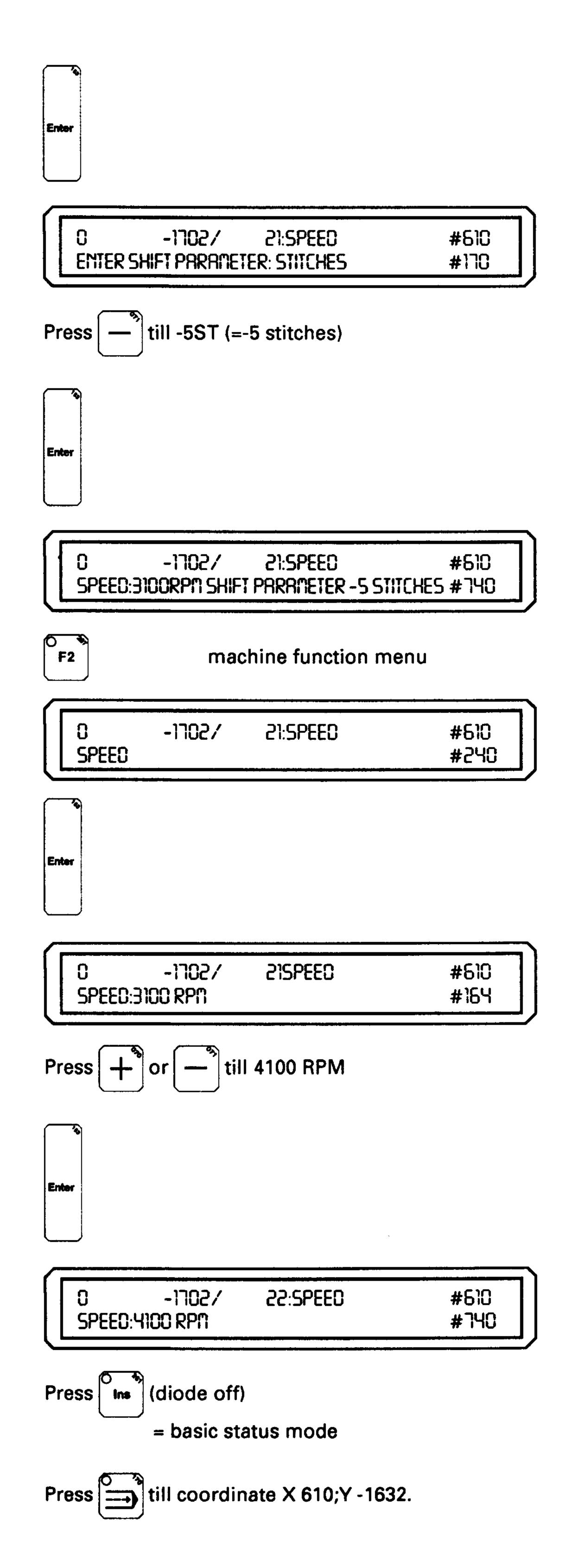


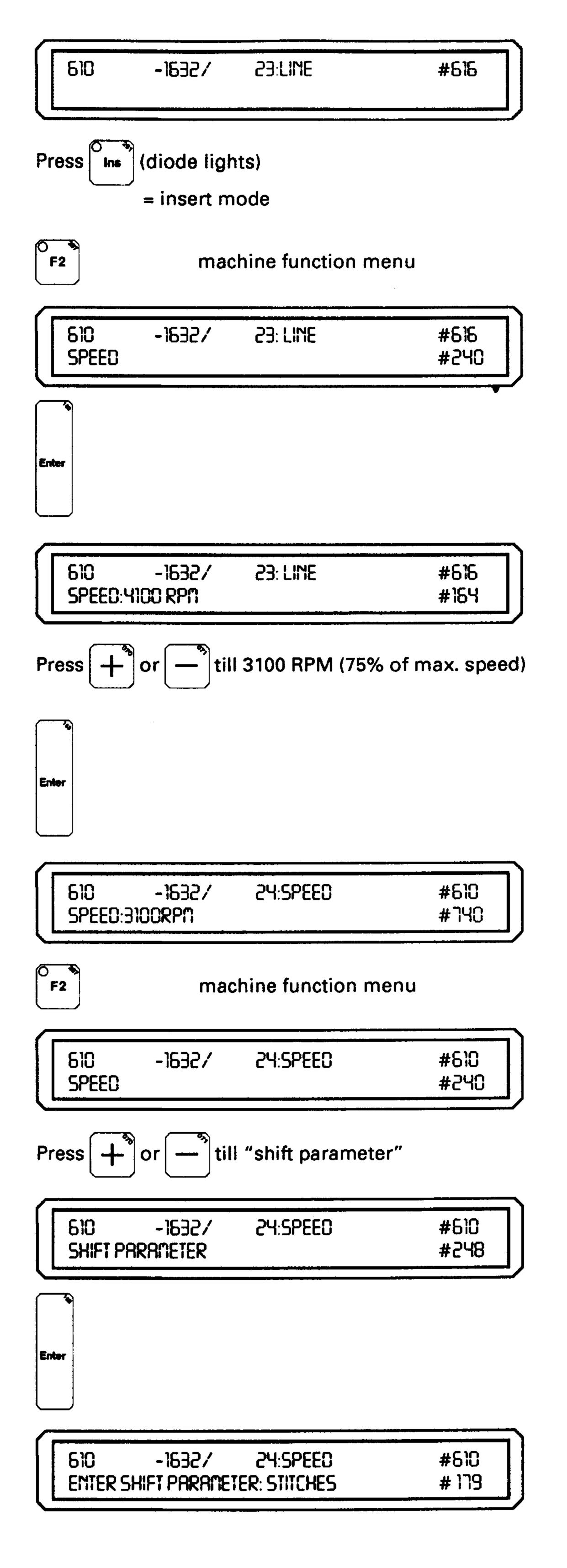


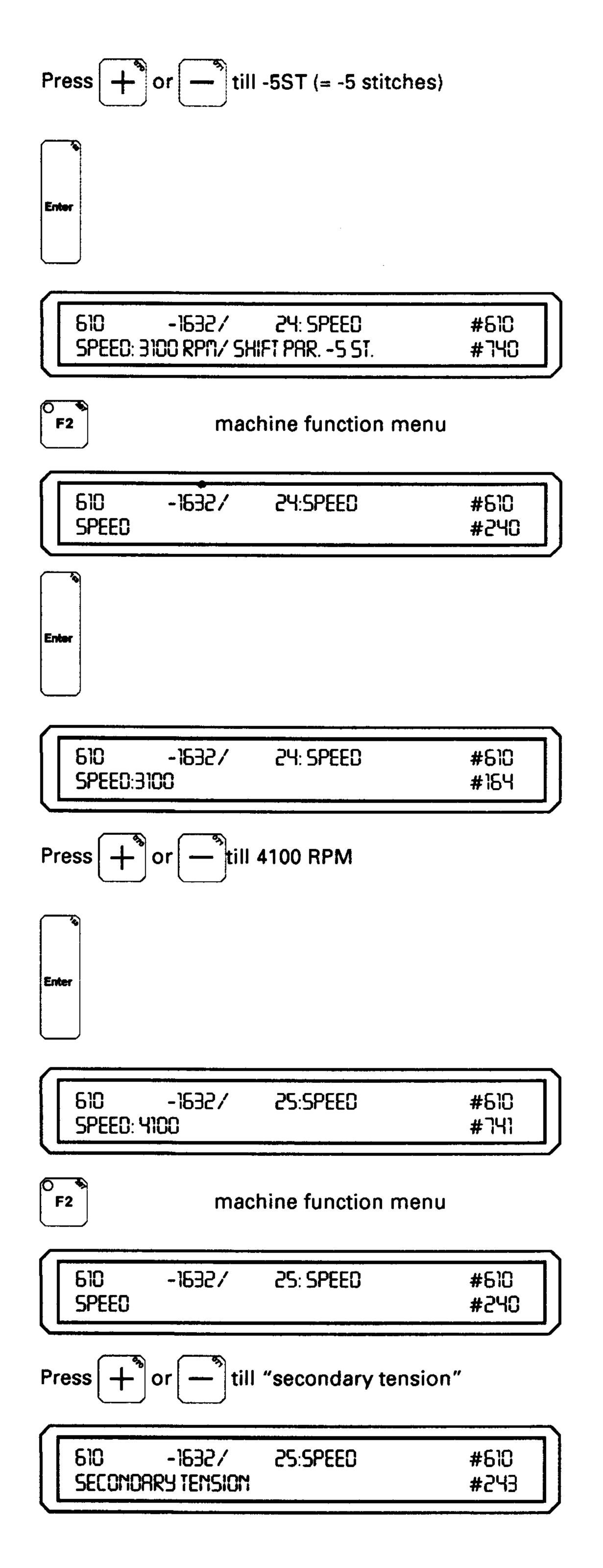


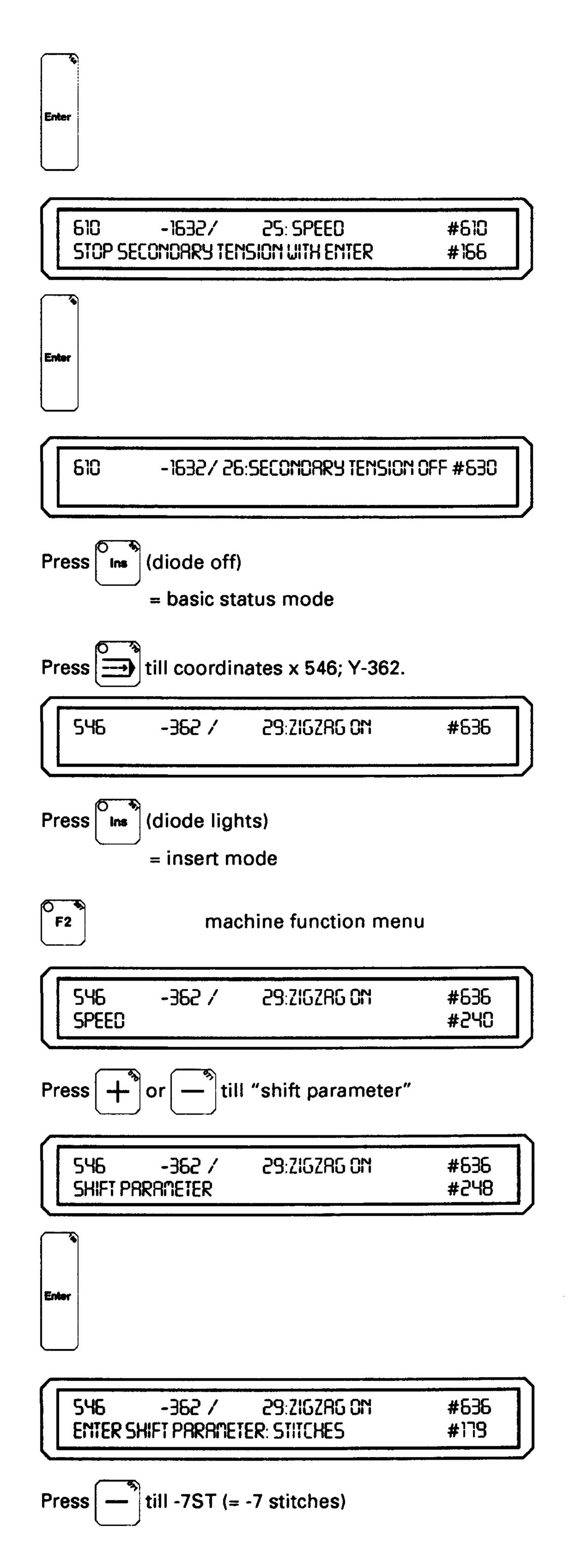








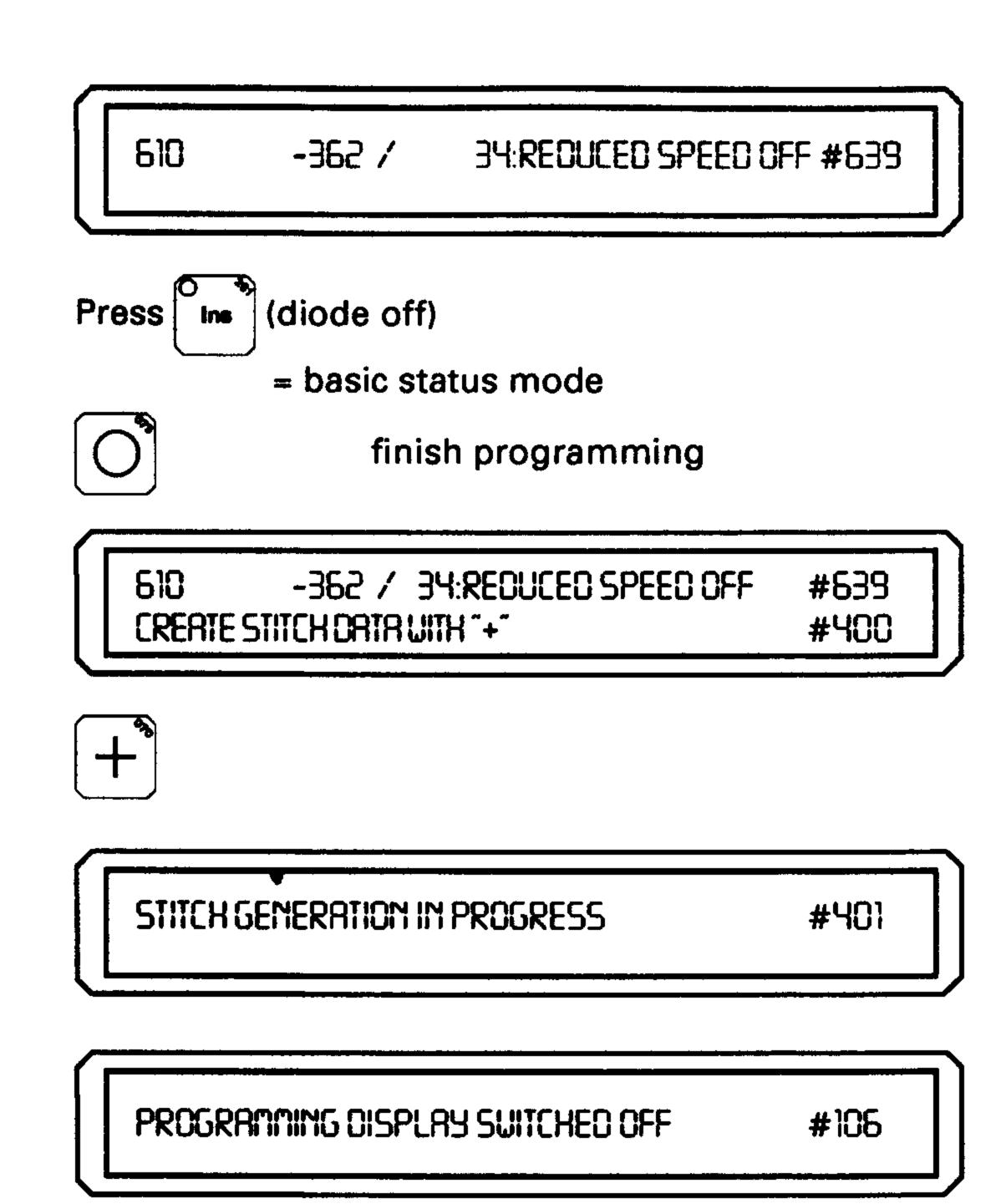




PFAFF 47

Enter 548 -362 / 29:ZIGZRG ON #636 SHIFT PARAMETER: -7 STITCHES #744 machine function menu F2 548 -362 / 29:ZIGZRG ON #636 SPEED #240 till "reduced speed " 29: ZIGZRG ON #636 546 -362 / #241 REDUCED SPEED Enter 548 -362 / 29 ZIGZRG ON #636 START REDUCED SPEED UITH ENTER #167 Enter 548 30:REDUCED SPEED ON #638 -362 / machine function menu F2 546 -362 / 30 REDUCED SPEED ON #638 SPEED #240 till "shift parameter" 30 REDUCED SPEED ON #638 546 -362 / SHIFT PARAMETER #248

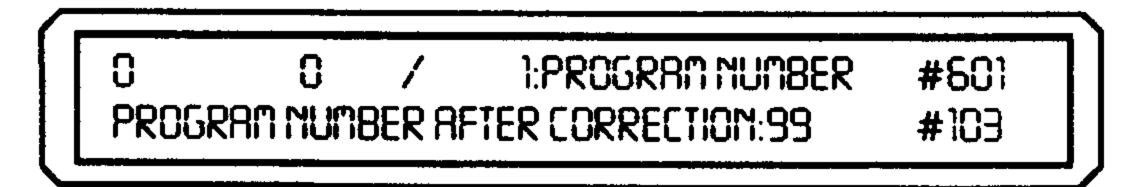
Enter 546 30:REDUCED SPEED ON #638 -362/ ENTER SHIFT PARAMETER: STITCHES #179 till -5ST (= -5 stitches) #638 546 - 362/ 30:REDUCED SPEED ON SHIFT PARAMETER: -S STITCHES #744 Press (diode off) = basic status mode till coordinate X 610. -362 / #631 610 33:ZIGZRG OFF Press (diode lights) = insert mode **F2** machine function menu -362 / 33:ZIGZRG OFF 610 #637 #240 SPEED till "reduced speed" -362 / 33:ZIGZRG OFF #637 610 REDUCED SPEED #241 Enter -362 / 33:ZIGZRG OFF #637 610 #168 STOP REDUCED SPEED WITH ENTER Enter



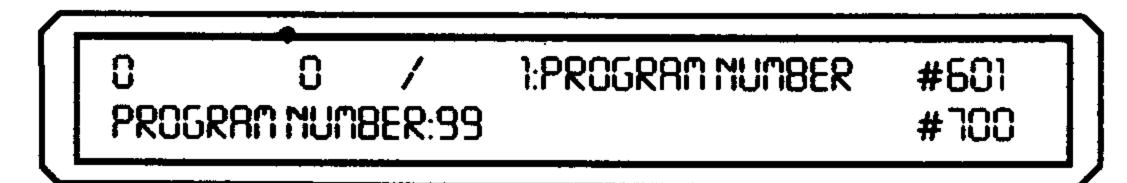
10 Change jig code

For changing a code number which is in an existing sewing program without changing the program number.

The programming device is ready for corrections in accordance with section 2.

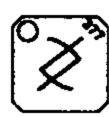






Press (*--* *--*)"

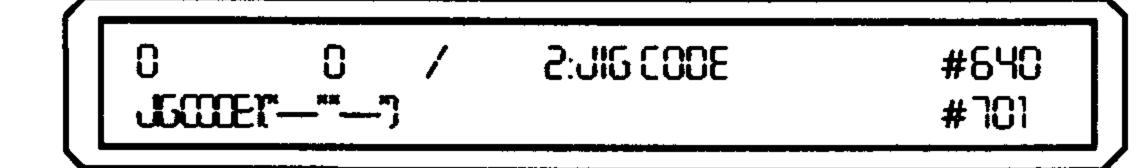


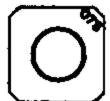


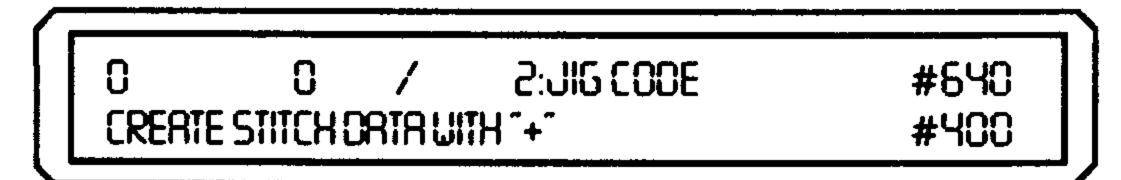
0 / 2.JIG CODE #640 ENTER NEU JIG CODE: #303

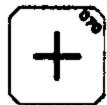
change jig code with + or .







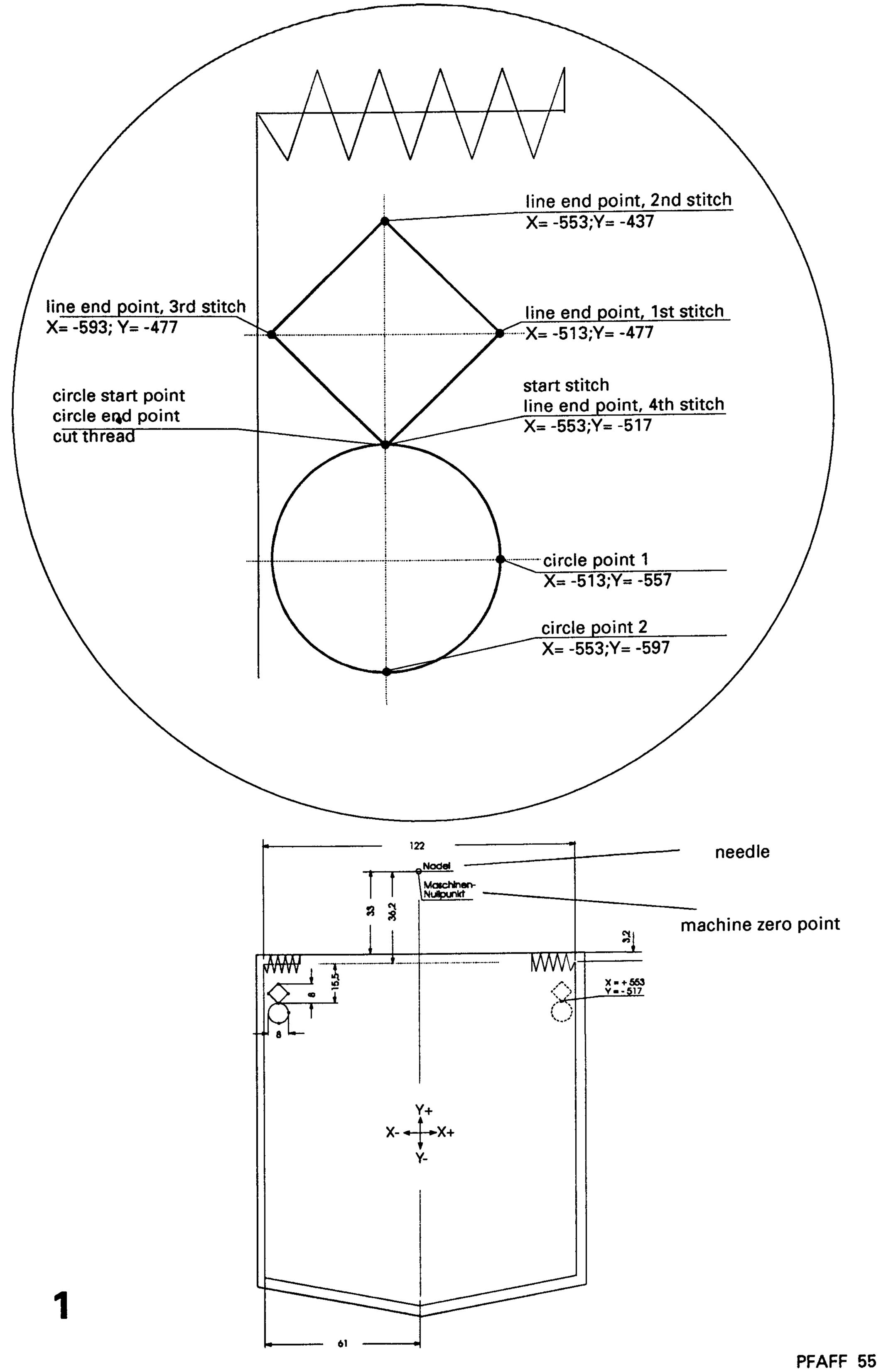




STITCH GENERATION IN PROGRESS #401

PROGRAMMING DISPLAY SUITCHED OFF

#106



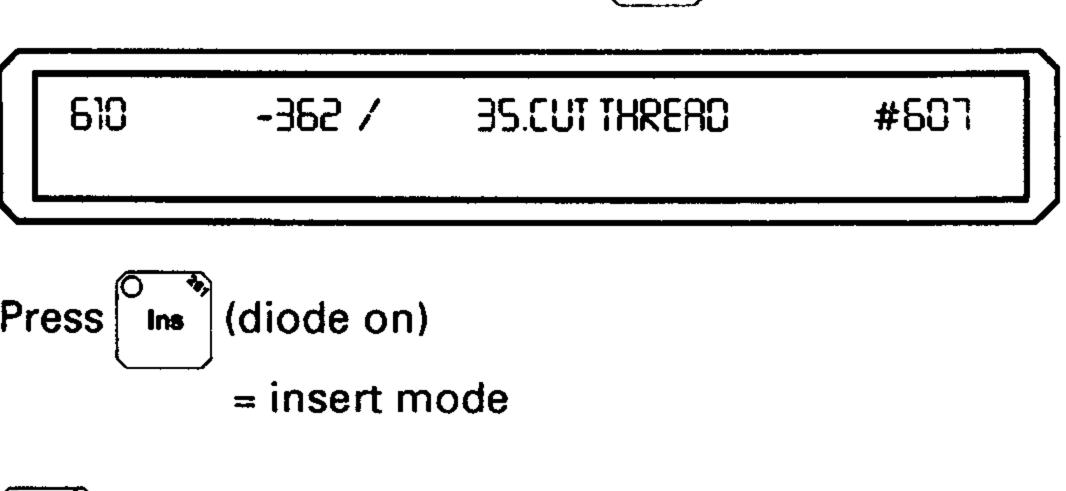
11 Programming example of a complex seam

programming pattern: sketched pattern (1:1) or drawing with coordinates of machine zero point.

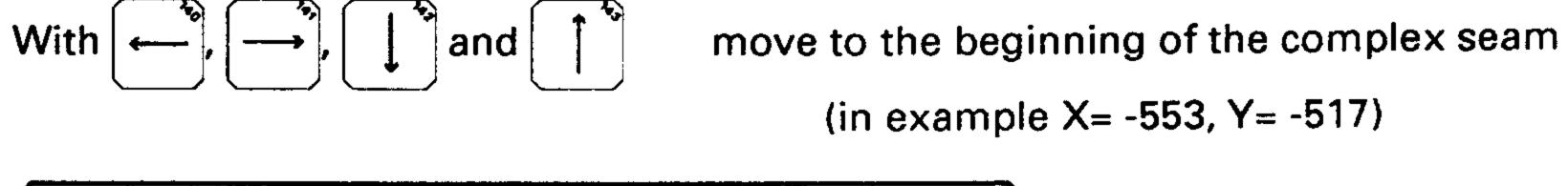
In the example shown, a complex seam will be programmed into the pattern programmed in section 8 and then copied in the menu "block" and added to the right hand side of the pattern.

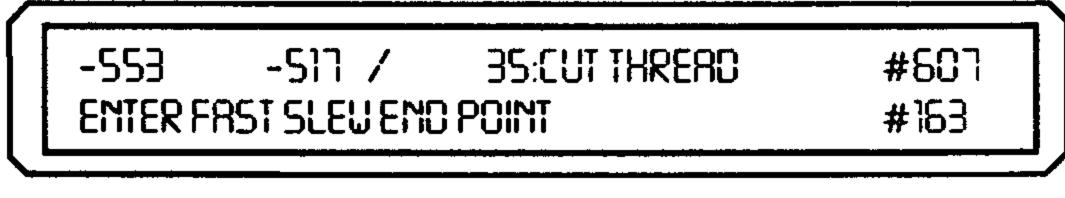
The programming field is switched on and the applicable program number is entered.

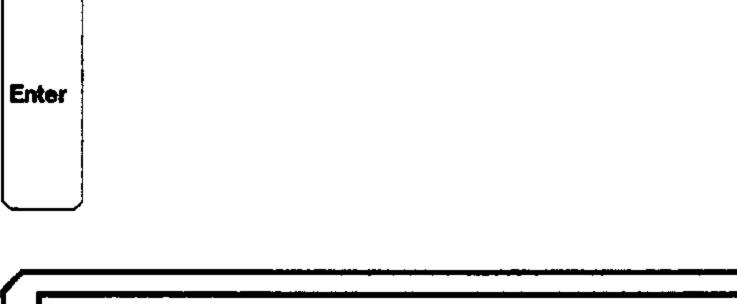
cycle through the pattern with suntil you reach section number 35: cut thread.

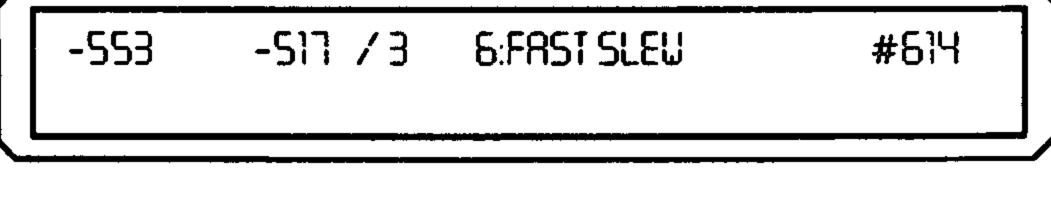


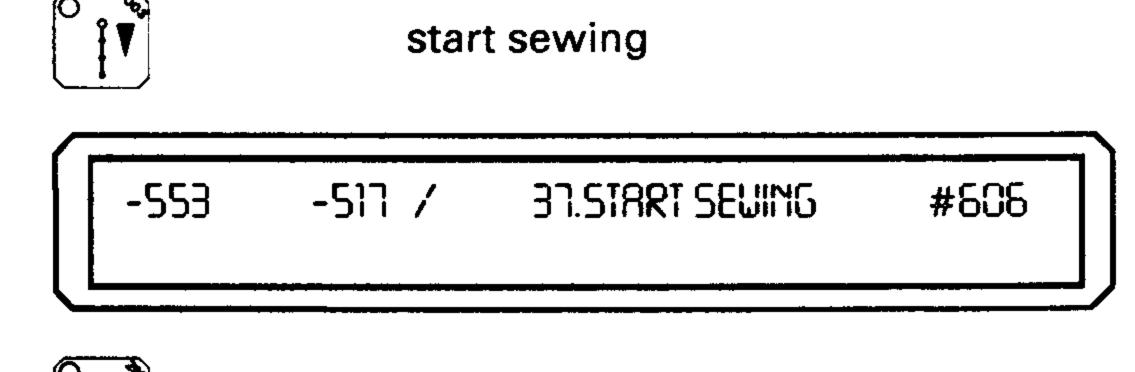


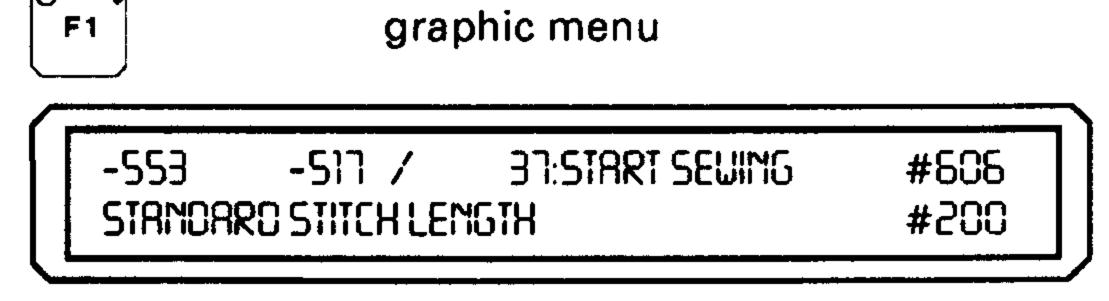


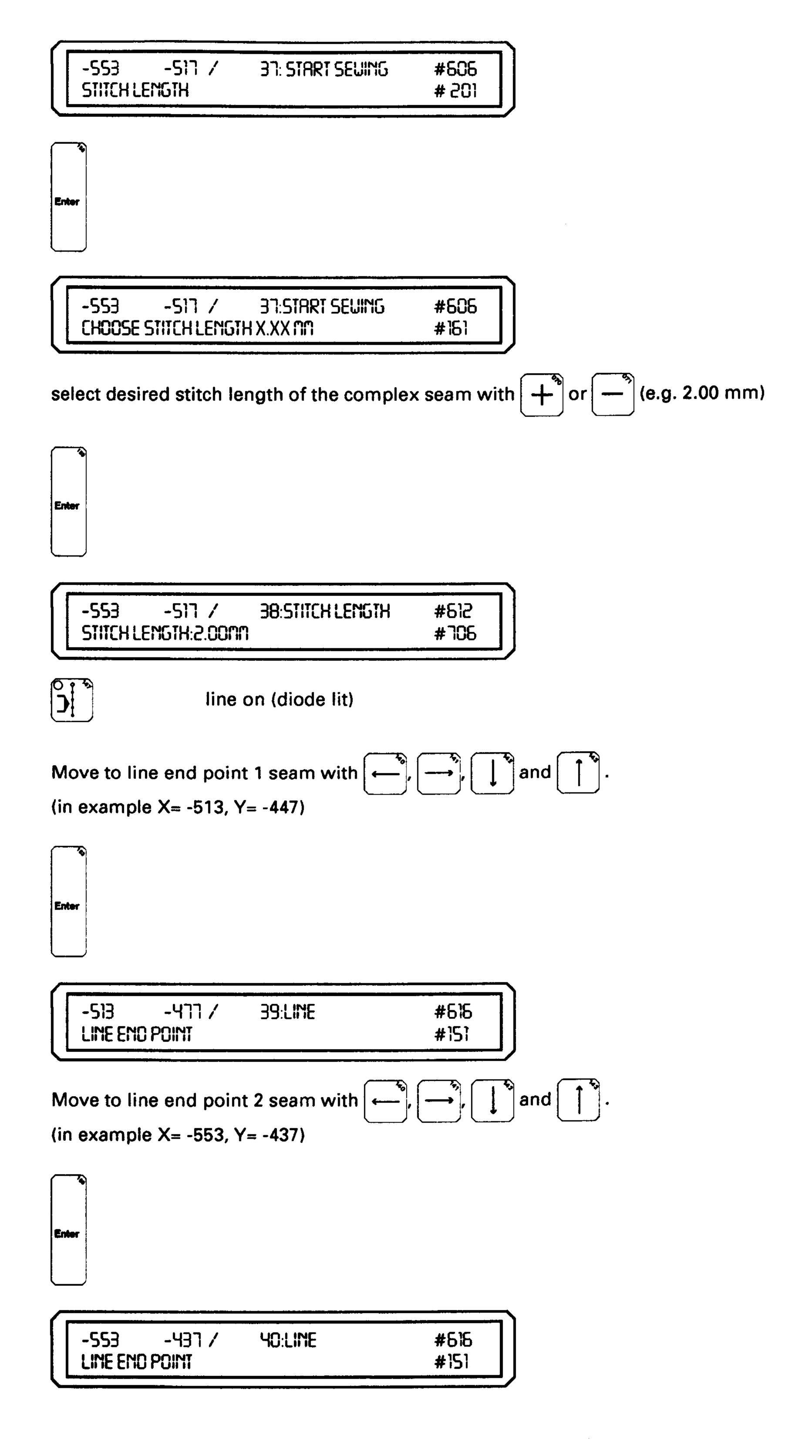


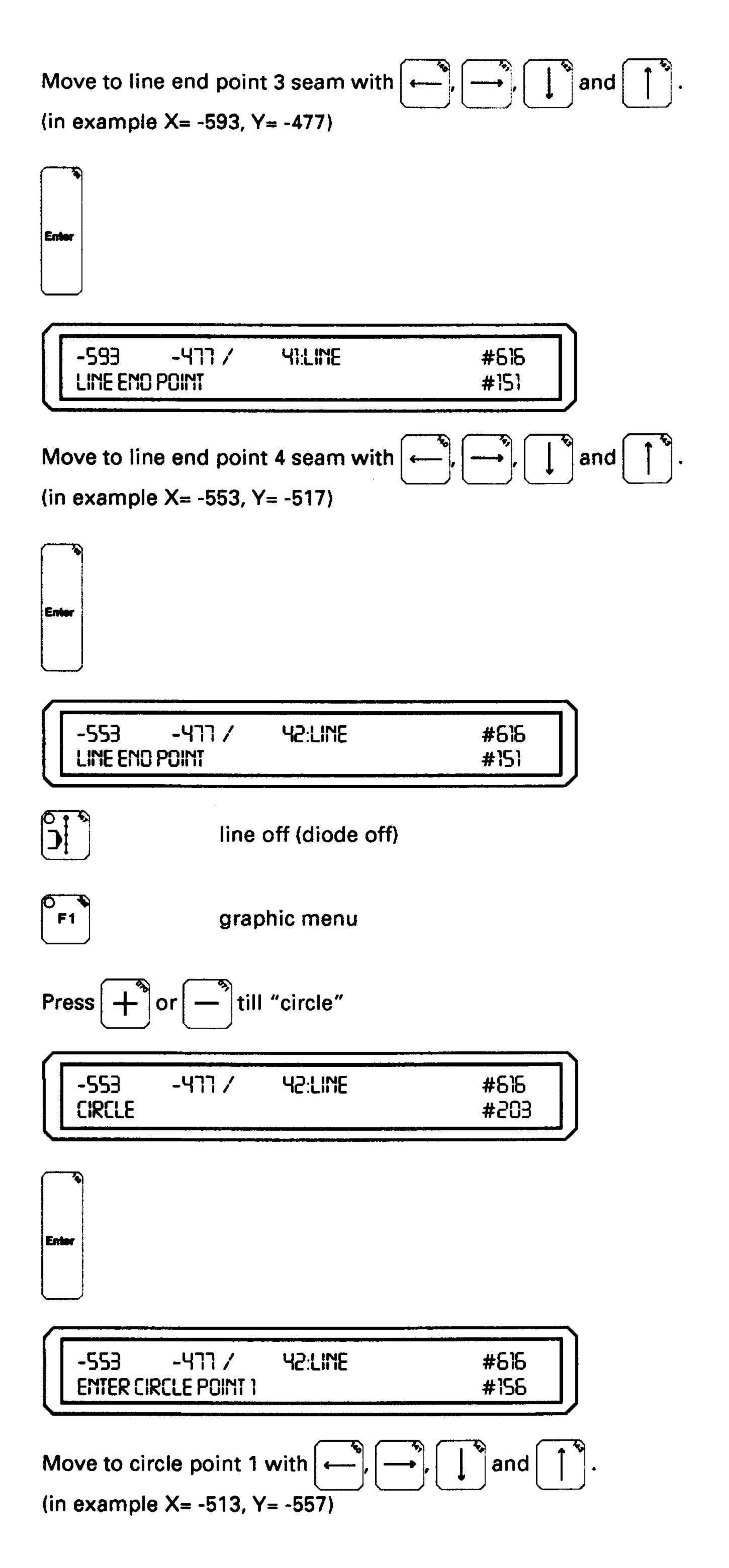


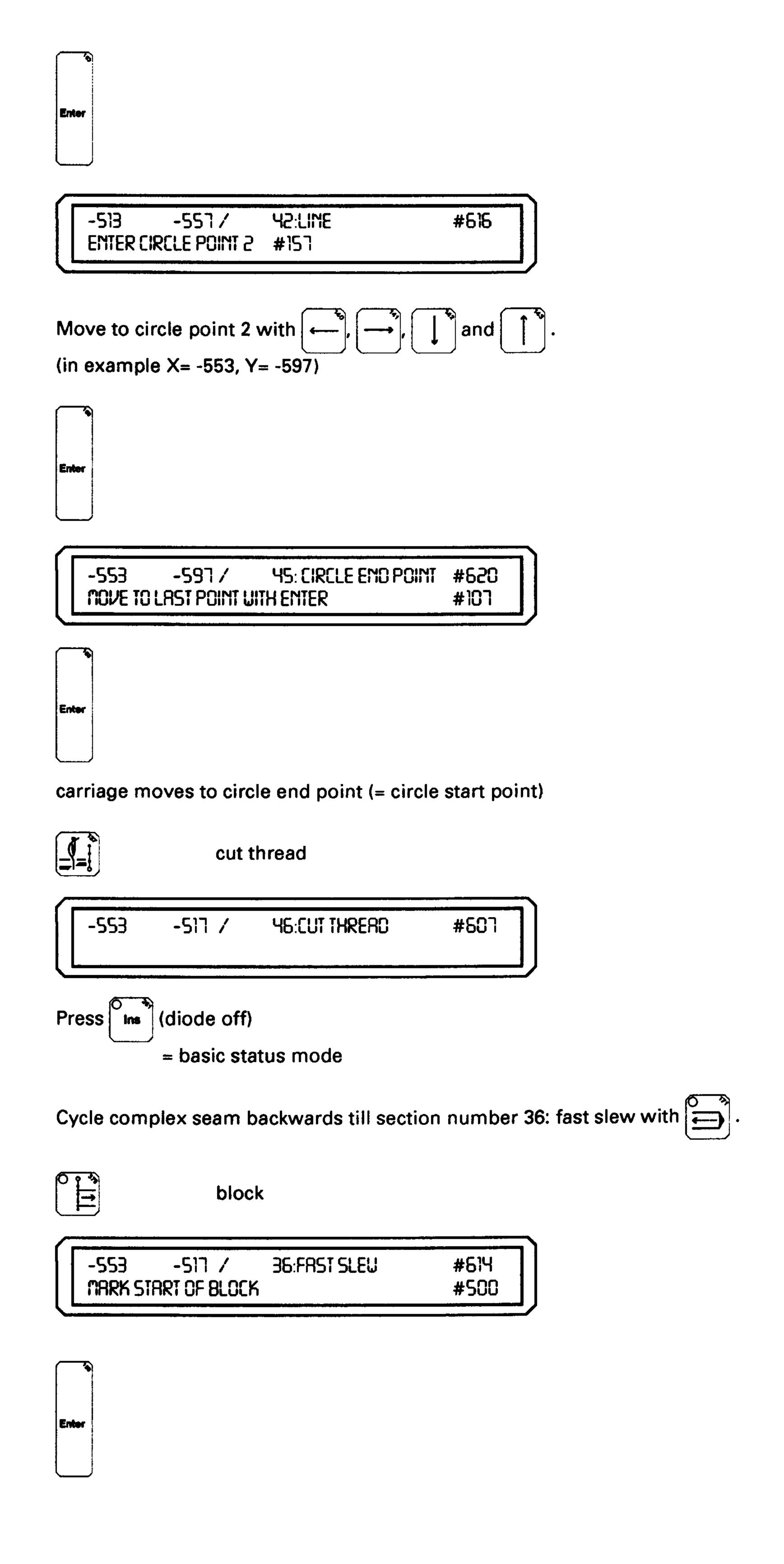










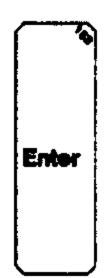


Cycle complex seam forwards till section number 46: cut thread with



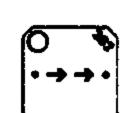
	bloc	k	
-553 NARK S1	-517 / IART OF BLOCK	46:CUT THREAD	#50°

46:CUT THREAD	#607
	#501
	46:CUT THREAD



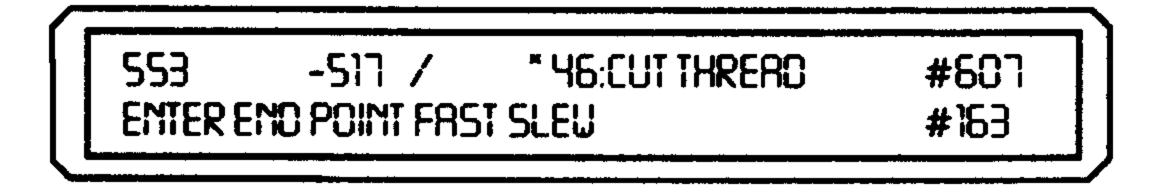
The block is marked.

When cycling through the pattern, the marked block can be recognized by the asterisk (*) in the display.

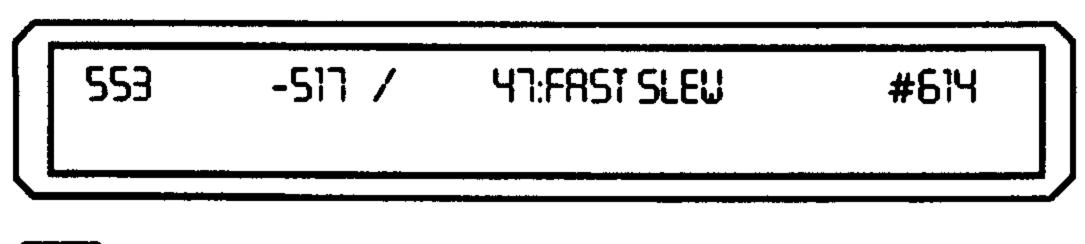


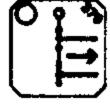
insert fast slew

Move to seam start of the opposite complex seam with (in example X = -553, Y = -517)

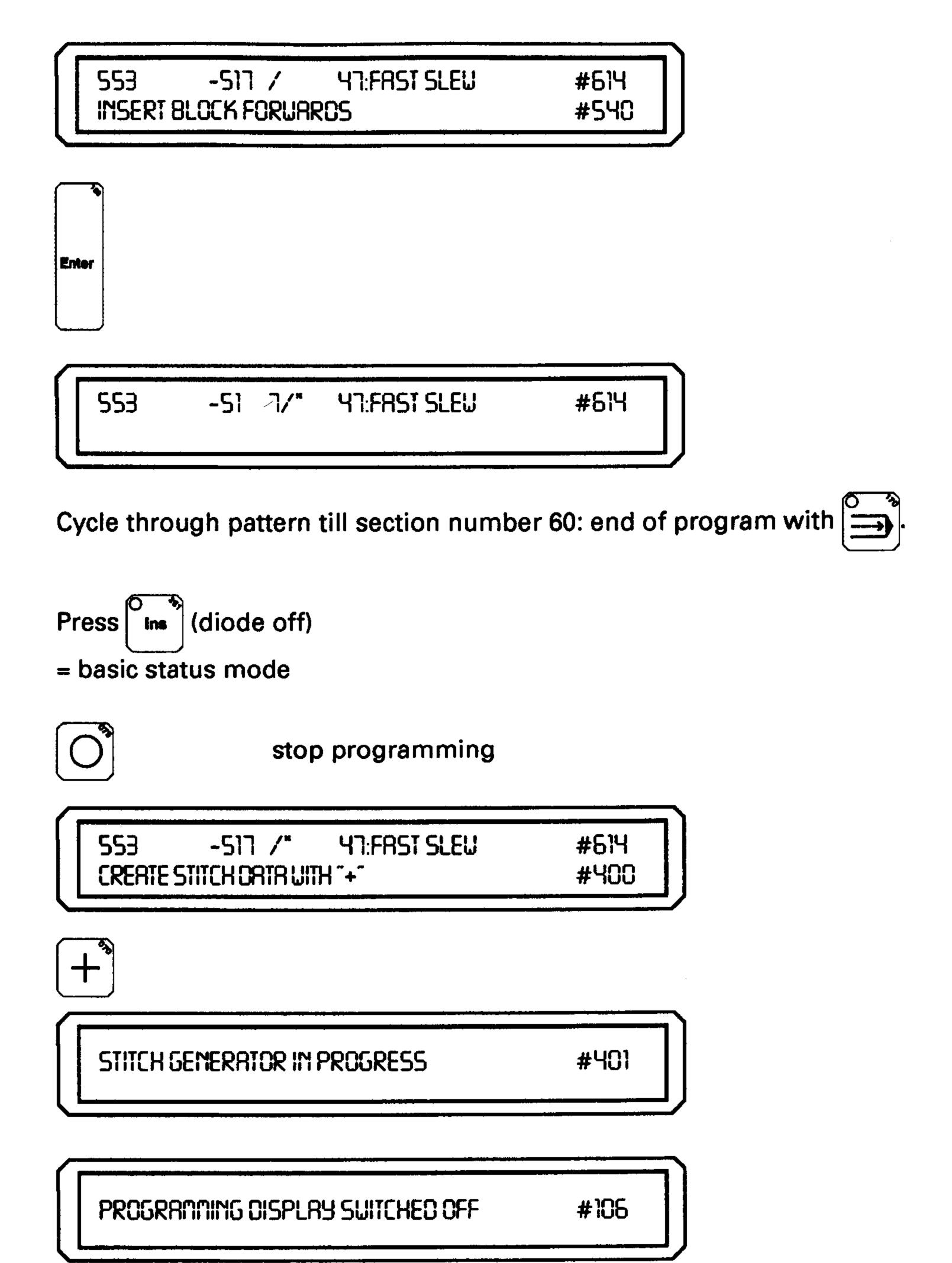








block





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