AUTOMATIC UNIT PLK-G 1010 V4 Series

INSTRUCTION MANUAL FOR THE OPERATOR

INTRODUCTION

VI.BE.MAC. S.p.A. industrial sewing machine.

Before using this automatic unit, please read the following instructions, which will help you to understand how the machine operates.

These instructions illustrate the working method to be followed, in compliance with current regulations.



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1. GENERAL MACHINE SPECIFICATIONS

The 1010 V4 unit can be programmed along two axes, with a MITSUBISHI PLK G 1010 sewing head, which according to the equipment installed consents, within the sewing head range:

- -ornamental stitching on rear trouser pockets with or without automatic material loading/unloading.
- -the performance of dart-shaped seams.
- -the application of patch pockets.
- -flap stitching.
- -application of labels of any format or thickness.
- -Velcro® application.
- -sewing of chin straps on helmets.

The high level of flexibility of the unit makes it possible to buy the sewing head with a fitting (e.g. Labels) and, with a quick change, to change easily the present fitting on the machine with another **optional** fitting for a different operation. Four different operating modes can be selected for the unit. The unit allows for a quick change of forms (in about three minutes), supplied together with a floppy disk containing the personalised programmes requested by the client. Changing the form does not require the intervention of a technician, but its simple design, together with the use of special materials, mean that it can be carried out by the operator.

SUPPLY VOLTAGE

The supply voltage is 220 V single-phase 50/60 Hz

COMPRESSED AIR CONSUMPTION AND PRESSURE

Consumption is about 1.5 litres of air intake per cycle with pressure of 5.5 bars.

DIMENSIONS AND WEIGHT

Width: 120cm Length: 140cm Height: 135cm

Weight: 160kg (approx.)

NEEDLE AND OIL

This unit is equipped for using 135x17 SAN1 MR 4.5 T/SES needles

For the lubrication is recommended oil type MOBILE VELOCITE N°10

Physical property VELOCITE No 10

Aspect: Amber fluid
Smell: Characteristic
Density at 15 °C (Kg/l): 0.862
Flame poit °C Not declare
Viscosity at 40 °C: 22
Solubility in water: insoluble
pH: not applicable

inside the stacker cylinder (only dcs model) the oil type is

BP AUTRAN MBX or CASTROL 4226 TEXAMATIC

Specs	Typical Values
Density	870
Flash Point (in C)	217
Pour Point (in C)	-40
Viscosity at 100C	7.9
Viscosity at 40C	39
Viscosity Index	163

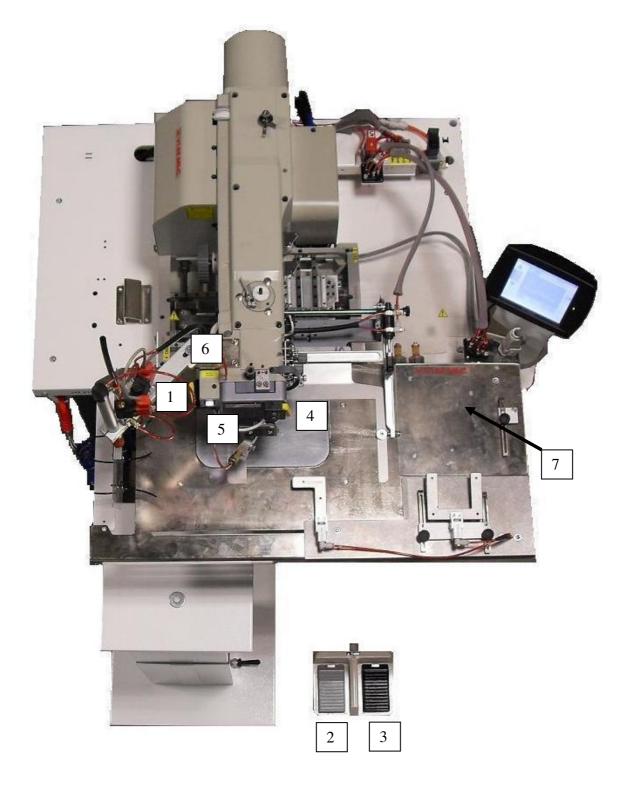
Mineral oil anti foam

WORKING POSITION

The operator works standing up in front of the Loading Feeder. Normally on the right side he/she has the pockets or trousers On the automatic unit there are the following devices:

on the Sewing Head there are this switches:

The START SEWING switch (1)
Command the INTERNAL Clamp (2)
Command the loading clamp (3)
Command the START loading with the yellow switch (4)
Command the STOP SEWING/EMERGENCY (5)
Needle change (6)
Main SWITCH (7)



"Normal" operation includes all those operations for the preparation and application of a pocket onto trousers, respecting the following conditions:

- the operator must first have read and fully understood all parts of this manual.
- the operator must abide by all the instructions in this manual and "CE" regulations
- the maximum width of the pocket embroidery must be 220mm
- the maximum height of the pocket EMBROIDERY must be 90mm.
- the maximum width of the LABEL must be 110mm. (250 in SPECIAL version).
- the maximum height of the LABEL must be 80mm. (120 in SPECIAL version).
- the maximum width of the POCKET must be 220 in the SPECIAL version.
- the maximum height of the POCKET must be 130mm in the SPECIAL version.
- the material thickness of the trousers where the LABEL is to be applied must not be greater than 5 mm
- all safety regulations must be respected; safety covers installed by the manufacturer must not be removed.
- the electrical supply must be constant.
 - the unit has to be connected under an automatic cut-out switch of 30mA
- the machine must be earthed to prevent disturbances and electric shocks.
- the machine must not operate at high temperatures (above 40 °c) or low temperatures (below 10 °c).
- water or other liquids (with the exception of oil) must not get into the sewing machine.
- water or other liquids must not get into the control panel, solenoid valves and cylinders.
- the automatic unit must be installed on a flat surface checking that the feet rest all together on the ground, and are blocked with the special nut.
- the automatic unit must not be used in areas where there is explosive gas, powder or oil vapours.
- the machine must not be connected to a compressed air circuit containing water or other liquids in the
 pressure circuit.
- the machine must be connected to a compressed air circuit with a constant minimum internal pressure of 5.5 bar.
- the operator must use soundproof earplugs to prevent damage to the ear.
- installation of the machine and extraordinary maintenance must be performed by qualified personnel.
 The manufacturer declines any responsibility for damage to persons or things caused by the machine in cases where:
- the unit is not properly installed on an even surface.
- installation of the machine is not performed by qualified personnel.
- ordinary and extraordinary maintenance of the machine have not been performed by qualified personnel.
- the electrical supply is not constant.
- the air pressure in the pneumatic circuit does not satisfy the requirements.
- routine maintenance of the unit is not performed as required.
- non-original spare parts or parts which are not specified for the model are used.
- there is a partial or total lack of observance of the instructions on the part of the user.
- the maximum thickness of the trousers, at the point where the pocket is to be applied, is not respected.
- the operator has been working with broken or unsuitable needles, thereby ruining the trousers.
 Under no circumstances:
- deactivate the safety devices provided by the manufacturer, thereby making the machine dangerous for the operator.
- remove the safety covers and devices from their position, thereby making the machine dangerous for the operator.
- remove the eye protection shield without supplying the operator with special eye protection glasses in compliance with current regulations.
- modify the machine, without authorisation from the manufacturer, thereby making the machine dangerous for the operator.

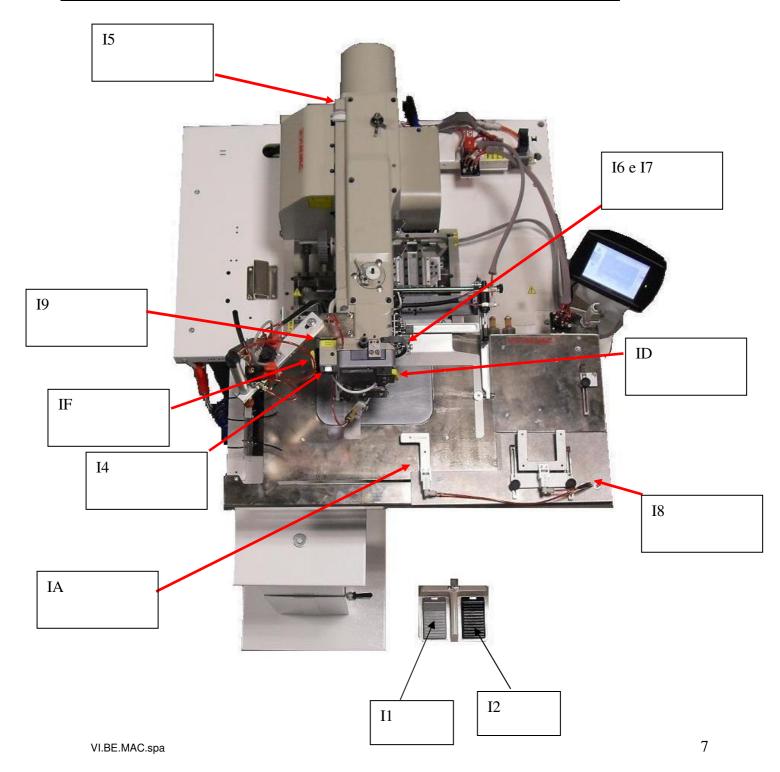
2. FORM OF WARRANTY

A Warranty of 1 (one) year applies to all parts that make up the unit, when delivered to the manufacturer and found to be defective.

All parts damaged through improper use by the operator, and/or improper adjustment of the unit by technical personnel not authorized by VI.BE.MAC. S.p.A., will NOT be considered as defective by the manufacturer. In this case these will be charged for, including all transport costs and/or subsequent installation costs.

3. INPUT DESCRIPTION

TYPE	FUNCTION	CONNECTION
FOOT SWITCH		l1
FOOT SWITCH		12
MICRO SWITCH	STOP SWITCH	14
PRESSURE SWITCH	TILT SAFETY SWITCH	15
SENSOR	RIGHT THREAD BREAKAGE SENSOR	16
SENSOR	LEFT THREAD BREAKAGE SENSOR	17
MICRO SWITCH	LOADER REST POSITION SWITCH	18
MICRO SWITCH	NEEDLE CHANGE	19
MICRO SWITCH	LOADING CARRIAGE AT END STROKE SWITCH	IA
PUSH BOTTON	LOADIN CARRIAGE START BOTTON	ID
MICRO SWITCH	SEWING START BOTTON	IF



4. MACHINE START UP

The flow of the TURN ON operation is shown below.

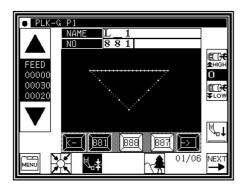
Check the position of these parts:

- If the steel Plate has the needle hole on the top of the hole on the Needle Plate (Original Position)
- If the Loader is all to right backwards.

Switch on the power supply by pressing the ON key on the mains switch.

Once the computer has performed check-up,

the main menu will appear on the display:



Press the key . The machine will search for the two positioning sensors. When the machine has read the positioning sensors it finds the Original Point. The jigs rise and the machine is ready for use with the program last used in the memory.

5. STOPPING THE MACHINE

Press the STOP button and the current by pressing the OFF button on the main current switch only when the machine has stopped.

The compressed air is automatically turned off.

ATTENTION

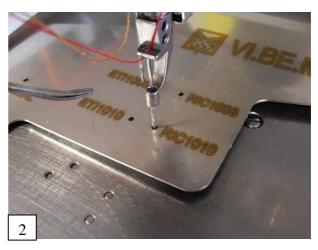
In the event of an electricity BLACK OUT, the sewing machine stops by inertia, the Loader unit remains in its resting position and the loading cycle, if running, is cancelled.

6. MECHANICAL ADJUSTMENTS

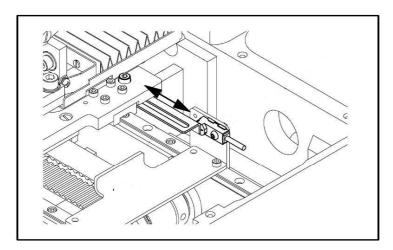
6.1. Home position regulation

The home position can be controlled by positioning the centring plate(see photo 1) and lowering the external and the inner clamp and pressing At this point the needle must be centred in the hole(see photo 2).

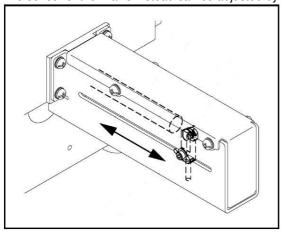




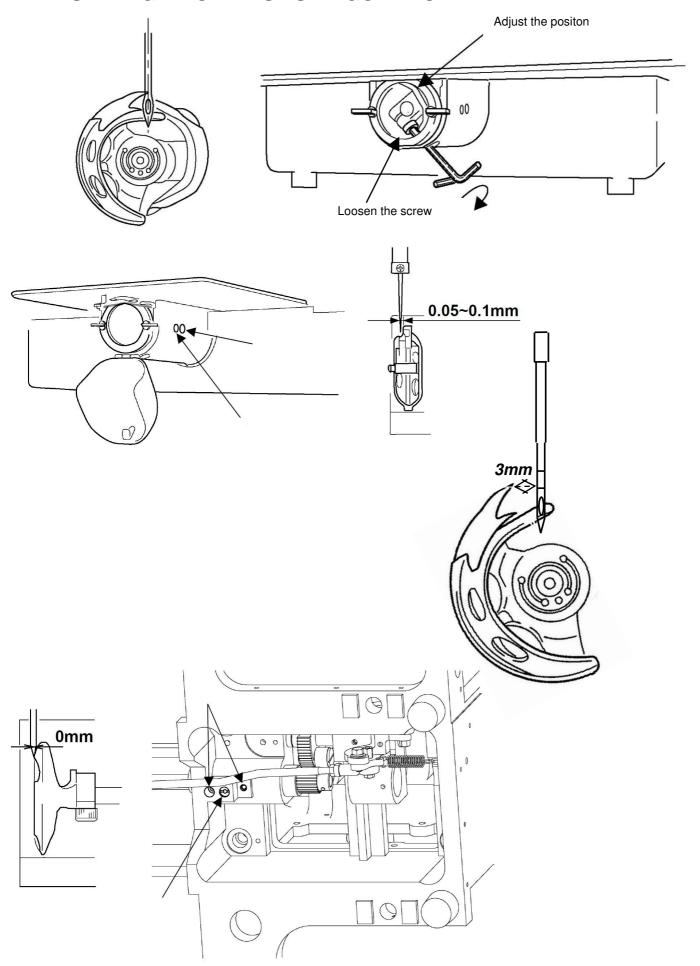
The home position of the machine can be adjusted ,in the X axis moving the detector plate by loosening the screws and moving right or left (see photo)



The sensor of the Y axis instead can be adjusted by loosening the screws and moving the sensor backward and forward

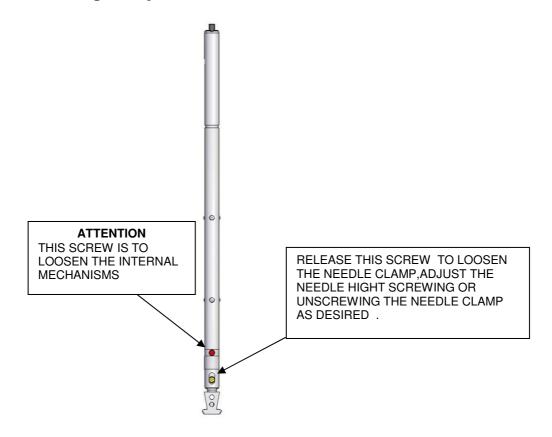


7. SEWING MECHANISMS REGULATION

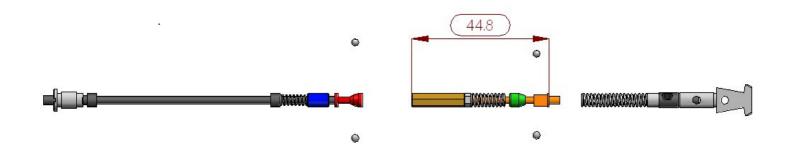


10

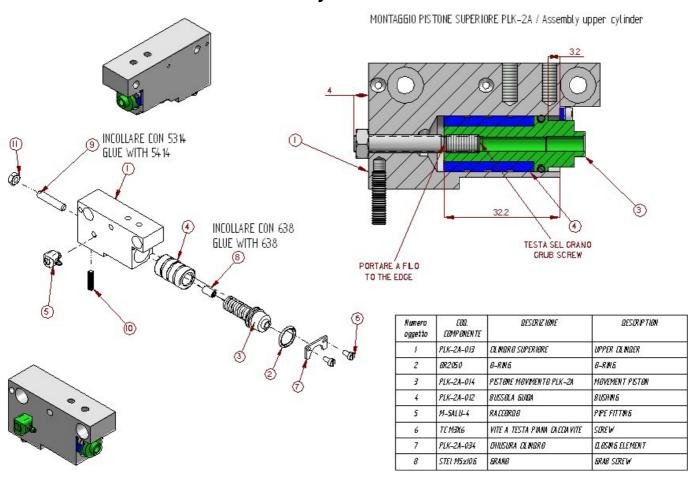
7.1. Needle height adjustment

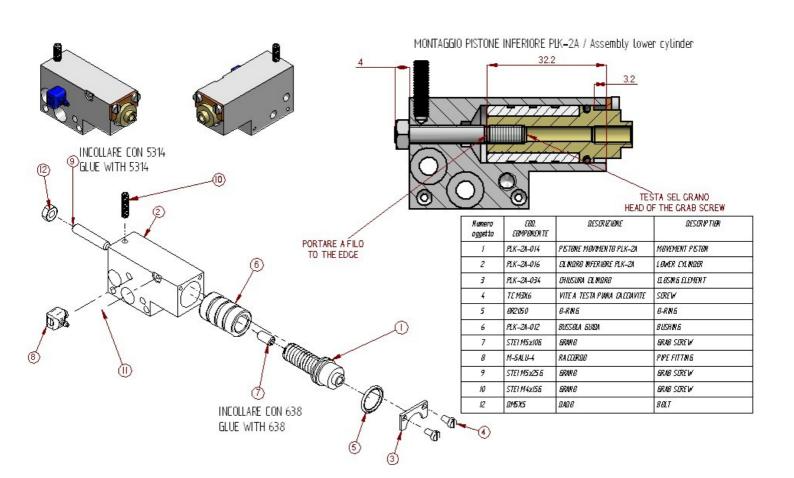


7.2. Internal regulation of the needle bar



7.3. Needle bar movement cylinders

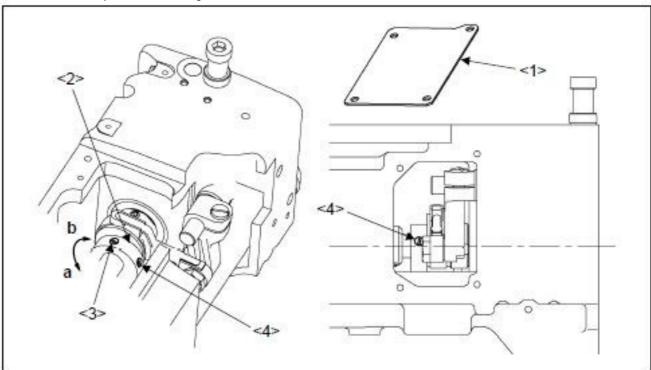




7.4. Adjustment of the presser foot timing.

The presser foot timing can de adjusted to avoid skip stitch on thin materials or to tighten the seam on thick materials. Remove the cover(1) and loosen screws (3)and (4) and move the eccentric (2) in (a or b) direction to anticipate or delete the presser foot speed.

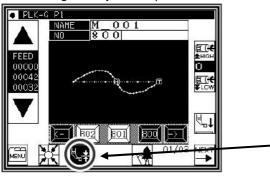
- a. to speed up the presser foot timing
- b. to slow down the presser foot timing



The STANDARD regulation is: turning the hand weal in machine rotation direction when the needle is moving from LOWER DEAD POSITION up the presser foot starts moving up too.

7.5. Presser foot thickness

Before doing this adjustment please control that :



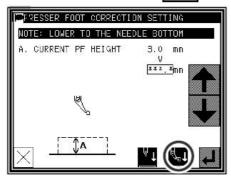
If this icon is WHITE means that the thickness is set at 0mm so it is $\ensuremath{\mathsf{OK}}$

If it is BLACK means that the thickness is not at 0mm to adjust follow the following instructions

1) Presser foot THICKNESS



from main menu

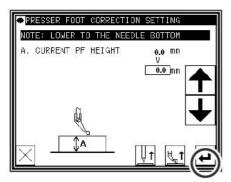


At this point the "THICKNESS" menu is displayed press

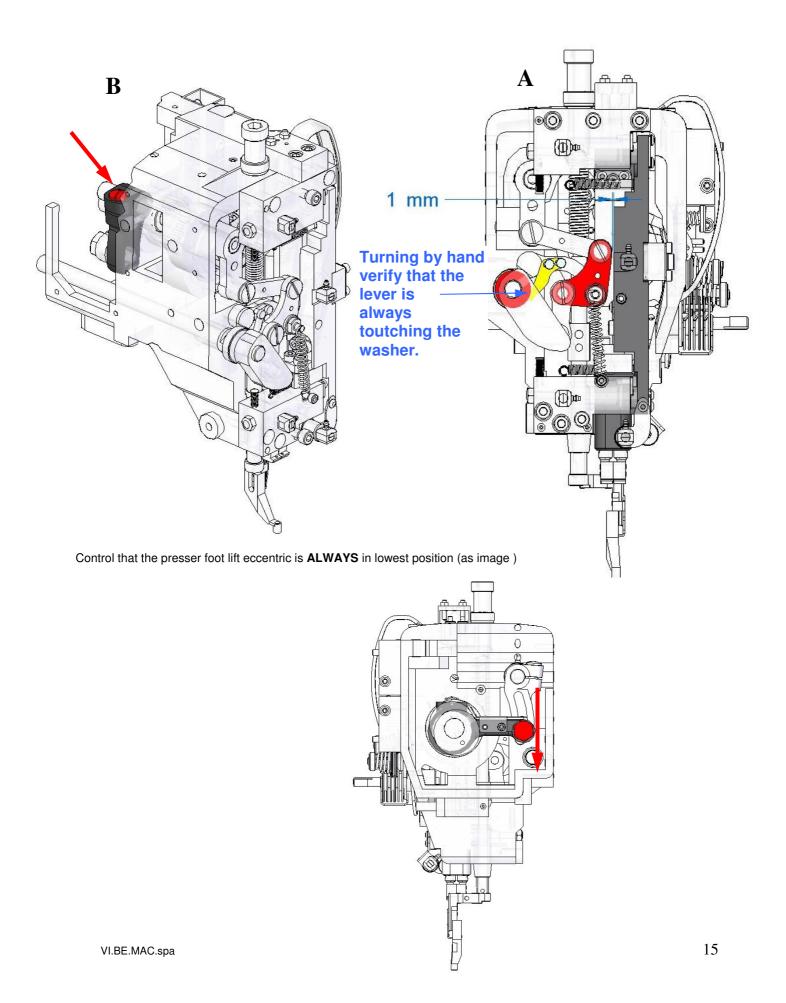


Set the thickness at $\boldsymbol{0mm}$ using the arrow keys



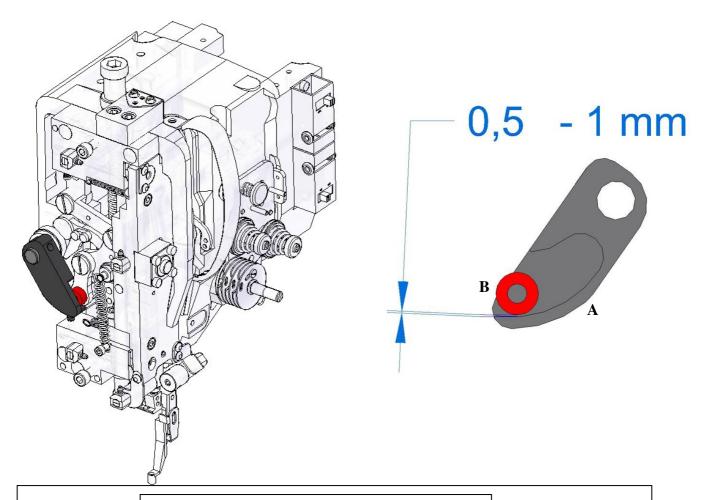


If the link is touching loosen the eccentric screw (image B)and move by hand the link to have 1mm of space as (image A)



Control that between the presser foot lifting cam(A) and the baring(B) there is some space when presser foot is in lower dead point.

To adjust this measure move the stepping motor detector plate.



Adjustment of the presser foot stepping motor

With presser foot in lowest position the detector plate of the presser foot stepping motor must be 90 °clockwise respect to the detection position.

To adjust the position loosen the screws and move the position of the detector plate.

PRESSER FOOT IN LOWEST POSITION

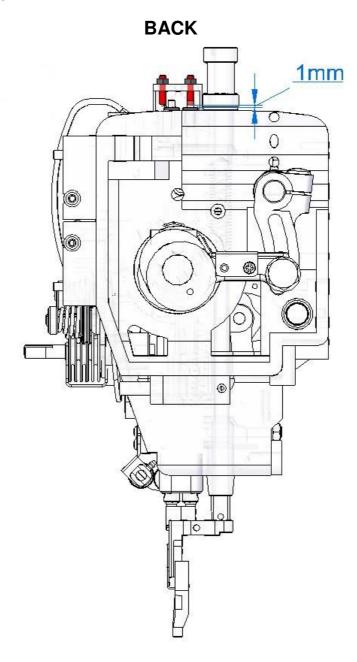


PRESSER FOOT IN HIGHEST POSITION Detection position



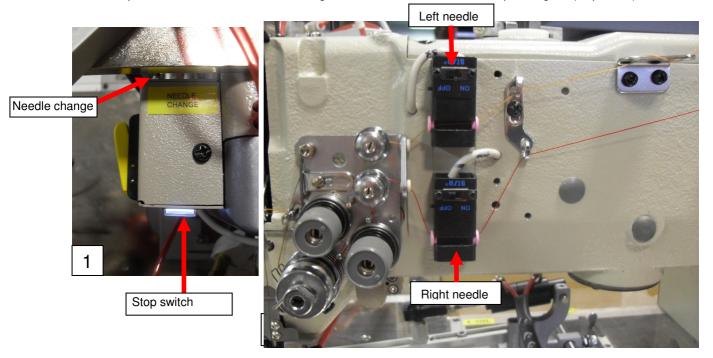
7.6. Needle bar unlocking pin regulation

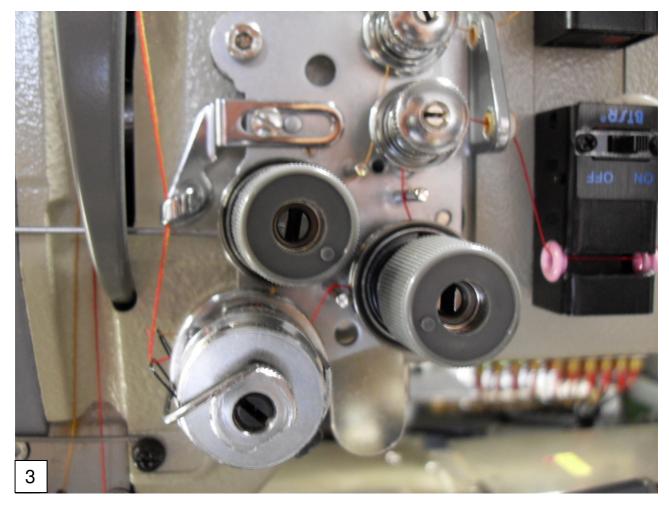
With needle bar in highest position:

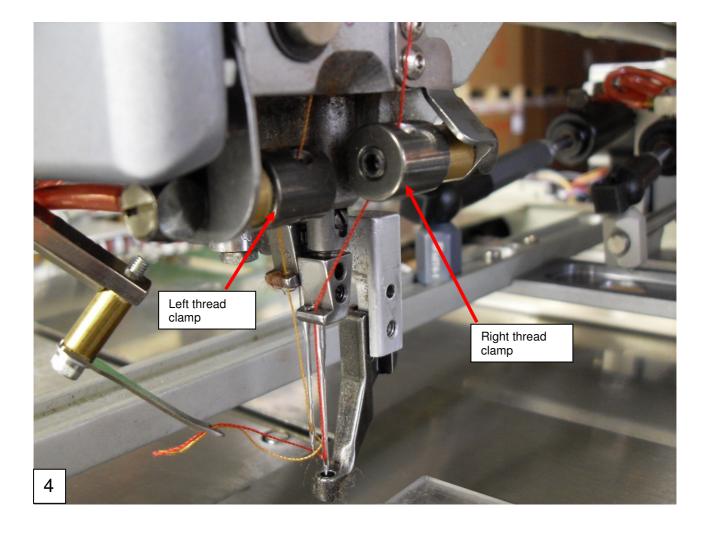


8. THREADING THE MACHINE

To thread the machine: press STOP switch and the clamps will automatically go down if it is necessary to change needle bar press the micro switch "needle change" for 2 sec and to switch the bar press again (as photo 1)







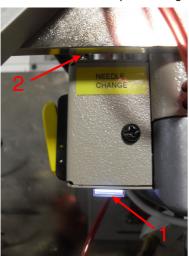
9. MANUAL NEEDLE CHANGE

To execute a manual needle change :

Set the machine in home position pressing



Press the stop button on the sewing head (1) and keep pressed the needle change button(2) for at least 2sec until the machine lowers the clamps to change the needle bar position just press the needle change button(2) again.

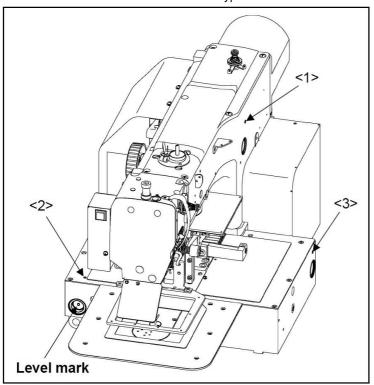


To exit from this mode release the emergency stop button (1) and the machine will return in working mode.

10. LUBRIFICATION

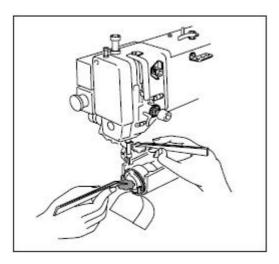
In this machine there are 3 oil tancks before starting up the machine make sure the oil tanks are at the correct level.

VI.BE.MAC. racommends to use oil type sae32

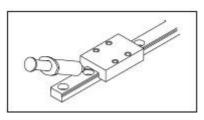


11. MAINTENANCE

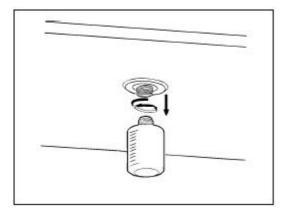
The PLK-G machine requires low maintenance and we highly recommend to do these operations **once a week**Remove the dust and the thread waste sticking to the threading parts or the hook area



Remove the dust from the X and Y rail and clean very well then apply some grease (Lithium grease 2 recommended)

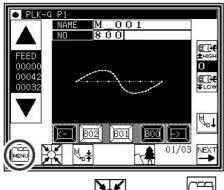


Empty the waist oil tank under the sewing machine when full

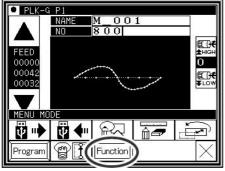


12. SELECTING FUNCTIONING SYSTEM

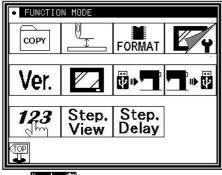
On the screen id displayed the main menu:



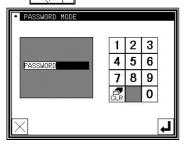




Press Function







Then digit the password 1010 and then confirm pressing



Press TBL No.

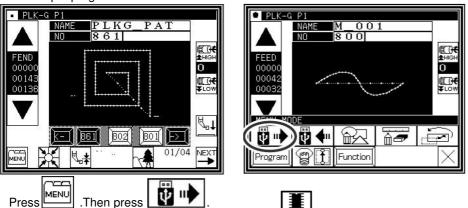
Select the NUMBER of the functioning mode desired confirm by pressing when the machine has finished loading the functioning system press TOP

Once returned to the main menu switch OFF the machine and wait until the LED on the control box turns off and then turn ON the machine to start working

N°	TYPE	FUNCTIONING
1	DESIGNE AUTOMATIC CYCLE	The unit transports the material under the sewing machine ,the clamp lowers the loading clamp returns in loading position and the machine starts sewing How to operate: position the pocket against the loading clamp and press the BLACK pedal, press the right micro switch on the sewing head the carriage moves under the sewing machine and the sewing cycle starts automatically .
2	LABEL MANUAL CYCLE	After having lowered the outer clamp position the label lower the inner clamp and press both micro switches to start the sewing cycle. How to operate: Position the fabric and press the BLACK pedal then position the label and lower the inner clamp by pressing the GRAY pedal to start the sewing cycle press both the micro switches positioned on the sewing head.
3	LABEL AUTOMATIC CYCLE	After having lowered the outer clamp position the label lower the inner clamp and the machine will start the sewing cycle. How to operate: Position the fabric and press the BLACK pedal then position the label and lower the inner clamp by pressing the GRAY pedal once lowered the inner clamp the machine will automatically start the sewing cycle
4	PENCE MANUAL CYCLE	After lowering the internal clamp, then lower the external clamp and automatically the internal clamp moves back then press both the micro switches on the sewing head to start the sewing cycle. How to operate: Lower the inner clamp by pressing the BLACK pedal then lower the external clamp by pressing the GRAY pedal automatically the central clamp will move back without rising then press BOTH micro switches on the sewing head to start the sewing cycle.
5	PENCE AUTOMATIC CYCLE	After lowering the internal clamp, then lower the external clamp and automatically the internal clamp moves back at this point the sewing cycle will start automatically How to operate: Lower the inner clamp by pressing the BLACK pedal then lower the external clamp by pressing the GRAY pedal automatically the central clamp will move back without rising at this point the machine will start automatically the sewing cycle.
6	DESIGNE MANUAL CYCLE	After lowering the clamp and pressing both the micro switches the machine starts the sewing cycle. How to operate: Lower the clamp by pressing the BLACK pedal then pressing BOTH micro switches on the sewing head the sewing cycle starts.
7	NOT USED	
8	RUNNING IN NEEDLE BAR	This functioning system is developed for the first running-in of the needle bars to be used by technicians .

12.1. Read a program

To call up a program:



Select from where to read the program by pressing,

With this icon the program is read from the internal memory ,with this icon instead from the USB.

This menu is displayed:

PATTERN READ MODE

0 1 /5 2

8 0 0 M 001

8 0 5 M0D19

8 0 2 M0D16

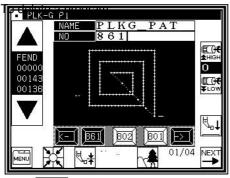
8 0 7 M0D20A

8 0 4 M0D18

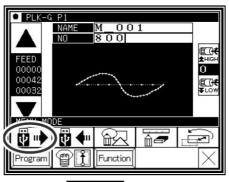
8 0 9 M0D23

Select the desired program by touching the number, to change page press _______To confirm press _______

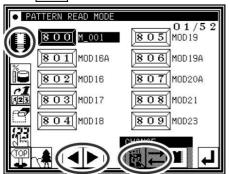
12.2. Delete a program







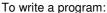
Then press



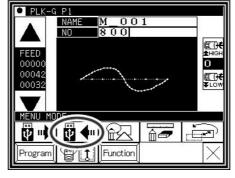
NOTE: THE PROGRAM IN USE CANT BE DELEATED

Select from where you want to delete the program by pressing if you want to delete from the memory or from the USB. Select the desired program by touching the number or to change page press, once reached the desired program press. And to confirm press

12.3. Write a program (save)







MENU Press



Select where to write the program by pressing

to write on the internal memory or $oldsymbol{arphi}$

to write on the USB

This page is displayed



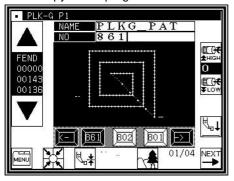
NAME Digit the desired name using the letters ,to erase press ABC. To change the number of the program Select press and digit the desired number.

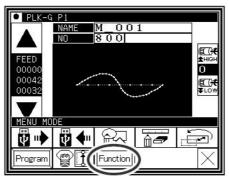
The programs have to be saved with a numeration included between 600 e 999.

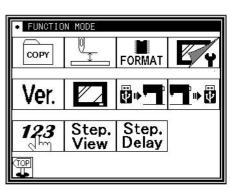
Confirm pressing

12.4. Coping all programs from USB to memory or vice versa

To copy all the programs:





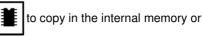


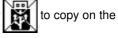
MENU Press

Function Then press

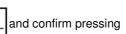
123 and then

At this point select where to copy the programs pressing

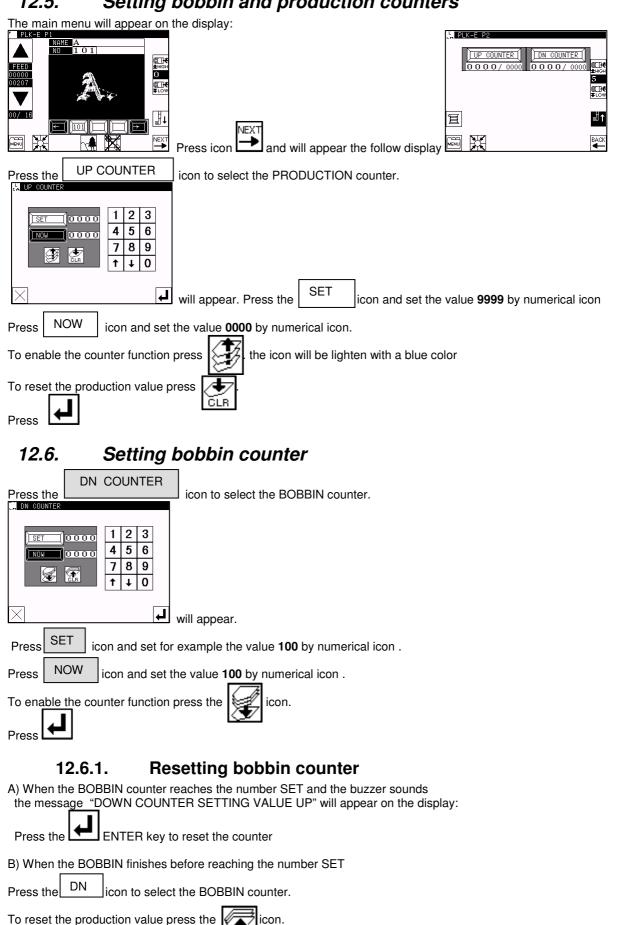




Once selected the destination of the programs select |ALL| and confirm pressing

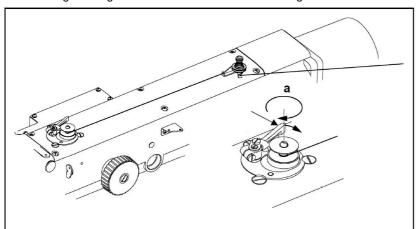


12.5. Setting bobbin and production counters



12.7. Bobbin winding

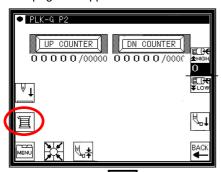
The bobbing winding works while the machine is running



If it is necessary to load a bobbin without starting a sewing cycle : Once in $\ensuremath{\mathsf{HOME}}$ POSITION



This page will appear



At this point press | and this screen appears



At this point press the left micro switch on the sewing head ,the machine will start sewing on the home position once the bobbing is full release the micro switch and to exit from the bobbing winding mode press

13. SEWING PROGRAMMATION

GENERAL SPECIFICATIONS

The MITSUBISHI PLK G 1010 machine is equipped with an extremely versatile and easy-to-use software. To create a new sewing program of a FLY, follow the instructions given below, which will take you, step by step, all the way to saving the program onto a USB KEY or into the Internal Memory.

STITCH LENGTH

Stitch lengths of between 0.1mm and 20.0mm can be programmed, in variations of 0.1mm. The machine turns at its maximum speed if the stitch length is in between 0.1 and 3.2mm and with a lenger stitch automatically the speed is reduced.

SEWING SPEED

Four different types of speed may be selected (H - MD1 - MD2 - L) during the sewing program. The machine is calibrated for a maximum speed of 2500 rpm. The thread cutting speed is calibrated at 180 rpm.

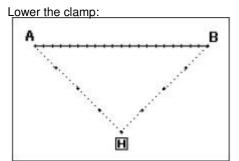
A series of codes manage some operation of the unit .The codes may be inserted in the sewing program. Type of codes used in the programs:

F6_H LEFT NEEDLE is workingF6_L RIGHT NEEDLE is workingFUN 1 CENTRAL PLATE MOOVMENT

ASRT STOP & GO adjustable from 1to 9 every number equals 0.2 seconds

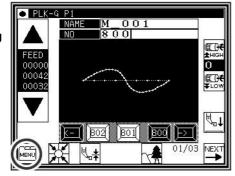
FB_H THREAD TENSION OPENFB_L THREAD TENSION CLOSED

13.1. Programming a seam

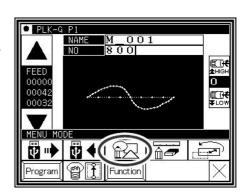


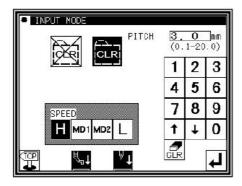
PRESS:

MENU



PROGRAMMATION KEY







TO MODIFY THE PROGRAM IN USE



TO CREATE A NEW PROGRAM

SELECT THE SEWING SPEED BEETWIN:



H HIGH SPEED

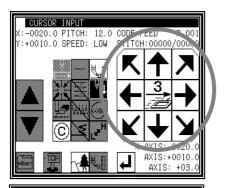
MD1 MEDIUM-HIGH SPEEDMD2 MEDIUM-LOW SPEED

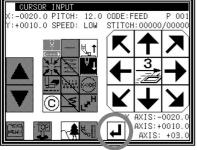
L LOW SPEED

To set the stitch lenght use te numbers from 0 to 9 or the arrow keys the stitch length can be set between 0,1 and 20,0mm

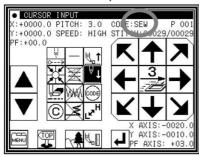
To confirm press

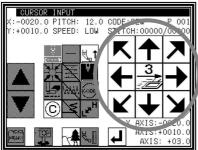
When this menu appears the machine is automatically set in FEED mode, move to A point using the directional arrows



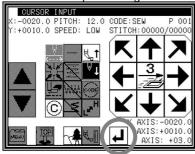


Press At this point the code changes from FEED to SEW,

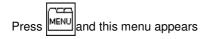


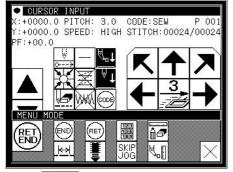


now move to B point using the directional arrows



Press I .In this way we have created a straight line from A to B now





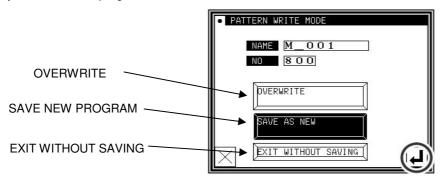
Press RET to end the program



This screen appears ,press Home Position The machine returns to Home Position



Always memorize the programs with numbers between 600 and 999 with a maximum of 20,000 stitches.

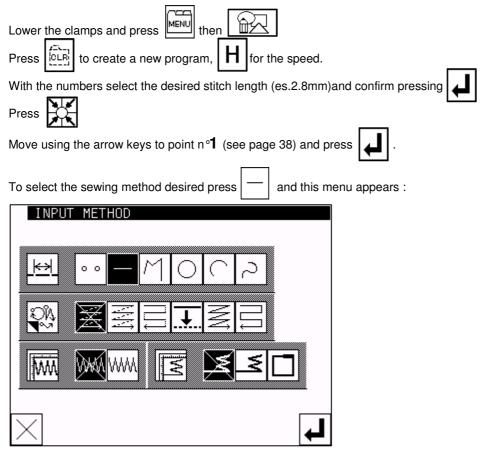


Once selected the desired number and name confirm pressing



Follow the instructions at page 25 paragraph 12.3

13.2. Programming a Pocket design



Select the type of seam desired, to do so press the icon of the seam desired .

In the upper line there are 7 icons,

 	STITCH LENGTHT
0 0	STITCH BY STITCH
	STRAIGHT LINE
M	BROKEN LINE
0	CIRCLE: it is created by adding 2 points in addition to the starting point
	CURVE :it is created by adding 2 points in addition to the starting point
2	IRREGOLAR CURVE, joins up to 300 points with a series of curves .

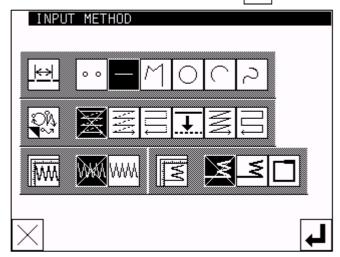
Select the stitching method between the ones in the top line in this case and confirm pressing

Move using the arrow keys to point n°2 (see page 38) and press



At this point:

To select the sewing method desired press — and this menu appears :



Select the type of seam desired, to do so press the icon of the seam desired .

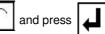
In the upper line there are 7 icons,

 	STITCH LENGTHT
0 0	STITCH BY STITCH
	STRAIGHT LINE
M	BROKEN LINE
0	CIRCLE: it is created by adding 2 points in addition to the starting point
	CURVE :it is created by adding 2 points in addition to the starting point
2	IRREGOLAR CURVE, joins up to 300 points with a series of curves .

Select the stitching method between the ones in the top line and confirm pressing



In this case select and p



Move using the arrow keys to point n°3 (see page 38) and press

......



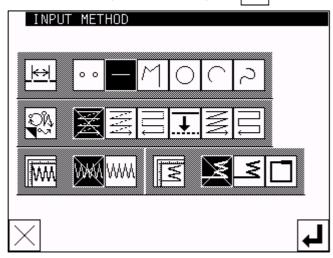
At this point this screen appears



Press to confirm or to return to point 3

At this point :

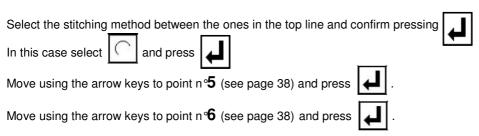
To select the sewing method desired press — and this menu appears :



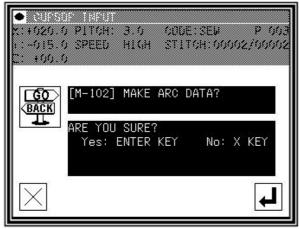
Select the type of seam desired, to do so press the icon of the seam desired .

In the upper line there are 7 icons,

()	STITCH LENGTHT
0 0	STITCH BY STITCH
_	STRAIGHT LINE
M	BROKEN LINE
0	CIRCLE: it is created by adding 2 points in addition to the starting point
	CURVE :it is created by adding 2 points in addition to the starting point
2	IRREGOLAR CURVE, joins up to 300 points with a series of curves .

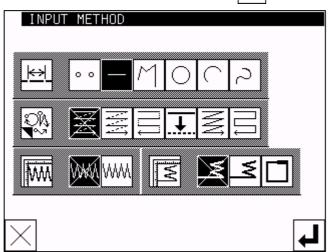


At this point this screen appears



Press to confirm or to return to point 5

To select the sewing method desired press | — | and this menu appears :

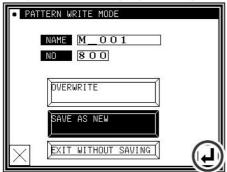


Select the type of seam desired, to do so press the icon of the seam desired . In the upper line there are 7 icons ,

 ()	STITCH LENGTHT	
0 0	STITCH BY STITCH	
	STRAIGHT LINE	
M	BROKEN LINE	
0	CIRCLE: it is created by adding 2 points in addition to the starting point	
	CURVE :it is created by adding 2 points in addition to the starting point	
٦	IRREGOLAR CURVE, joins up to 300 points with a series of curves .	
Select the stitching me	ethod between the ones in the top line and confirm pressi	ng 🔝
In this case select	and press	° [-]
Move using the arrow	keys to point n°7 (see page 38) and press	
S		7 📶
To insert a code press	and select the desired code ,in this case	then repeat the operation and
Press and sel	ect and press select and press	L
Select FEED	keys to point n°8 (see page 38) and press	
Move using the arrow	keys to point n°9 (see page 38) and press	
Move using the arrow	keys to point n°10 (see page 38) and press .	
Move using the arrow keys to point n°11 (see page 38) and press		
Move using the arrow keys to point n°12 (see page 38) and press		
Select FEED Select FEED Nove using the arrow keys to point n°13 (near home position) press and select code and		
then select EXT3 and press then select F6_L and press		
At the end press MENU then RET		
Press		

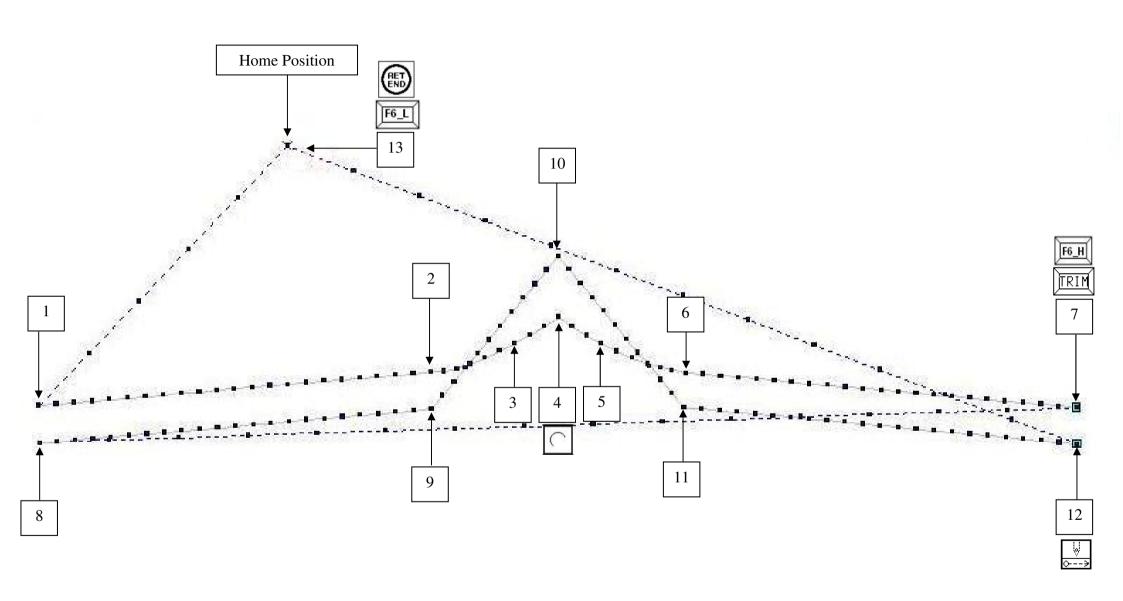
SAVING THE PROGRAM

Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches

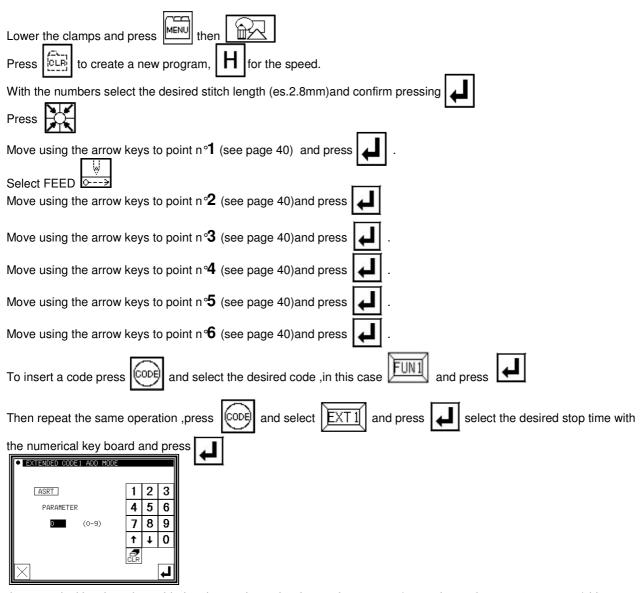


Press to confirm,input the desired name and number and confirm pressing

Follow the instructions at page 25 paragraph 12.3

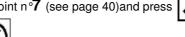


13.3. Programming a label



the numerical key board considering that each number is equal to 0.2 sec.(example number set: 4 = 0.8 sec.)this stop time is necessary to give time to the central clamp to move out.

Move using the arrow keys to point n°7 (see page 40)and press



After all press

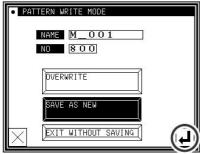






SAVING THE PROGRAM

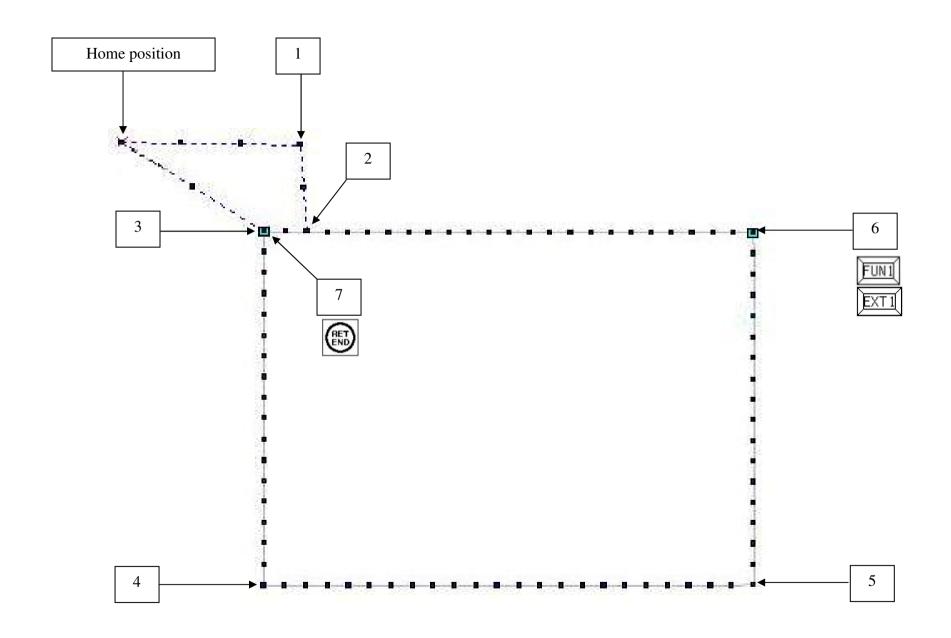
Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press

to confirm, input the desired name and number and confirm pressing



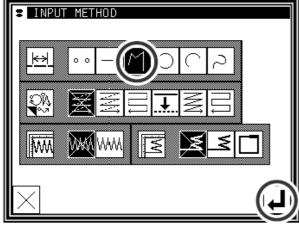


13.4. Creating a program using multiple function

Press to create a new program, H for the speed.

With the numbers select the desired stitch length (es.2.8mm)and confirm pressing Move using the arrow keys to point n°1 (see page 44) and press .

To select the sewing method desired press and this menu appears:



Select the type of seam desired, to do so press the icon of the seam desired .

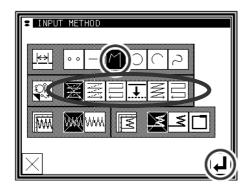
In the upper line there are 7 icons,

 	STITCH LENGTHT
0 0	STITCH BY STITCH
	STRAIGHT LINE
M	BROKEN LINE
0	CIRCLE: it is created by adding 2 points in addition to the starting point
\subset	CURVE :it is created by adding 2 points in addition to the starting point
2	IRREGOLAR CURVE, joins up to 300 points with a series of curves .

Select the stitching method between the ones in the top line in this case



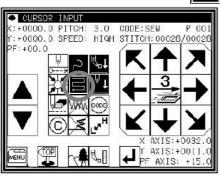
Then from the second line select the multiple mode desired:



Type	Connection	icon	Stitching data image	Explanation
Multiple	Feed data			"Stitching" in a set direction is connected with "feed without stitching".
	Stitching	M		"Stitching" in a set direction is connected with "stitching".
Reverse multiple	Feed data			"Stitching" in alternating reverse directions is connected with "feed data".
	Stitching			"Stitching" in alternating reverse directions is connected with "stitching".

In this case and press

From the programming menu press



Then select the desired sewing direction between (in this case select L) and input the desired distance and

repetition times using the numerical key board.

Move using the arrow keys to point n°2 (see page 44) and press

Move using the arrow keys to point n°3 (see page 44) and press

Move using the arrow keys to point n°4 (see page 44) and press

Move using the arrow keys to point n°5 (see page 44) and press and press again.

This page appears:

| Cursor Infut | Rode: SEM | Poss | Pos



Press 4

At this point press and move using the arrow keys close to the Home position and press



After all press

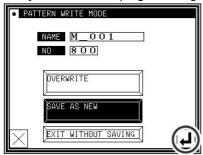




Press

SAVING THE PROGRAM

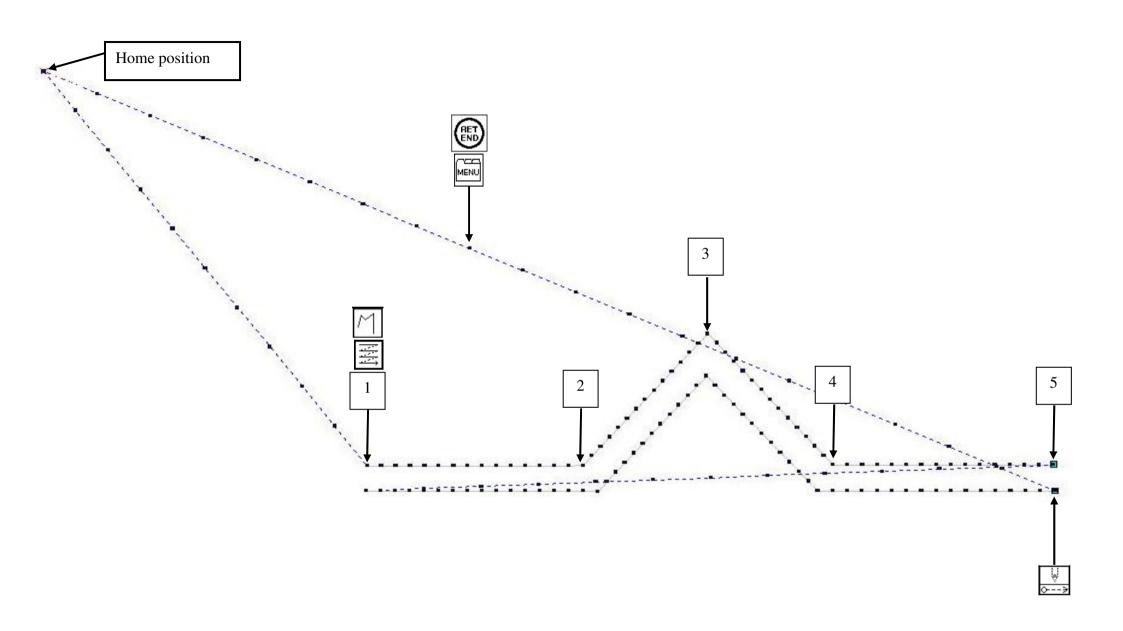
Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press to confirm,input the desired name and number and confirm pressing



NOTE: <u>to set codes please see paragraph 14.7(Adding codes) and look at page 40 example to see the standard codes set on the program.</u>

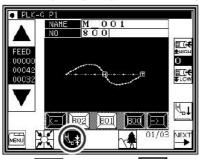


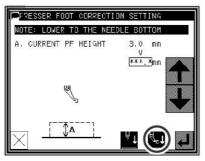
13.5. Presser foot regulation during programmation mode

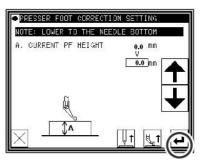
The movement of the presser foot is determined by a step motor that works directly on the presser foot bar

ATTENTION

Before adjusting the presser foot height control that THICKNESS on the main menu is set on $0 \, \mathrm{mm}$



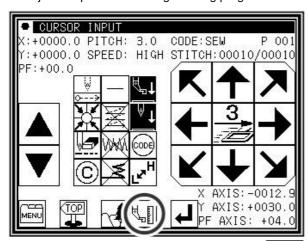




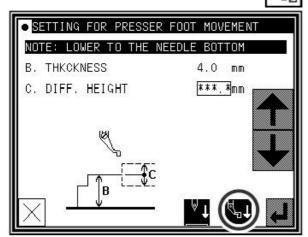
Press Then press Confirm pressing

and increase or decrease the value using the arrow keys,once setted the value to **0mm**

To adjust the presser foot height during programmation:



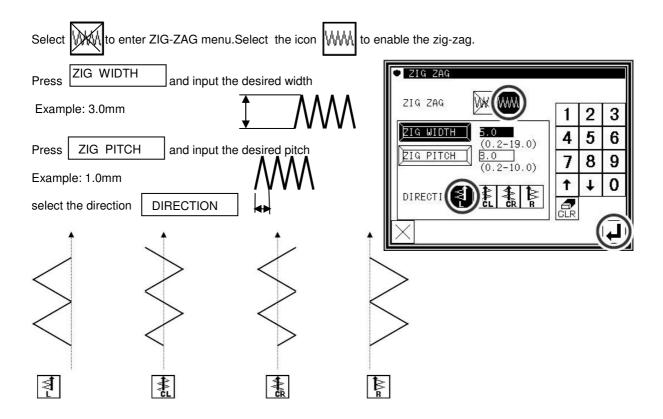
In the point indicated in the previous page press and this screen appears:



At this point press and adjust DIFF.HEIGHT at +9mm using the arrow keys to make the presser foot remain in high position and repeat the same operation but setting -9mm to make the presser foot go down to jumping mode

This is a standard configuration of the presser foot but consider that the presser foot can be adjusted at any time you desire and at any height between +9mm and-9mm.

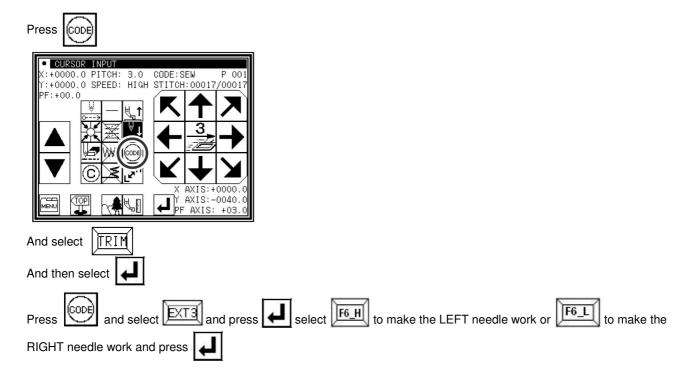
13.6. Create a bar tack during programmation



13.7. Inserting the needle bar code

To insert the needle bar code during the programmation :

ATTENTION: the code to change needle must be always after TRIM code



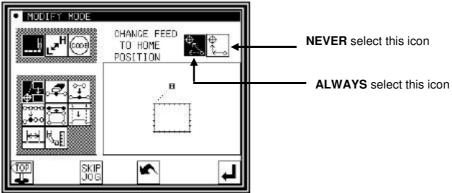
14. GENERAL SPECIFICATIONS OF MODIFY MODE

The MITSUBISHI PLK-G machines are equipped whit a user friendly software . Following there are specified step by step the most common modifications on a pocket ,embroidery or label.

Lower the clamps:



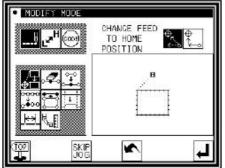
On the upper line there are the 3 keys that enter the various modification functions:



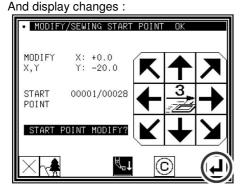
Ы	Modifies the position of the first sewing stitch	**	The complete program is moved of the measure desired	
	Deleat stitch	.\$		Deletes a specified number of stitches Deleats all stitches
	Add stitch	~ ÷		Add a stitch Adds a sewing stitch adding keeping the same stitch length
	Modify a stitch position	0000		Moves only the specifyed stitch Moves all the stitches from the specified one on
	Move a block			The modification changes the lengt of the stitch where it is performed. The modification ADDS a stitch where it is performed
	Modify a block	+	The area between 2 points is modified using arc,line,zig zag feed	
	Modify stitch lengh	(×)		Modifies the stitch lenght of a specified number of stitches Modifies all the stitches stitch lenght.
	Modify presser foot hight		Modifies the presser foot hight	
Modify	speed	Ľv ^H		Modifies the speed of a specified number of stitches Modifies the speed of all stitches
Add or	remove a code	CODE		Add code Delete code

14.1. Move the complete program





Select and confirm pressing The machine moves to the first sewing stitch



Move of the desired amount using the arrow keys

(every pressure of the arrow key is a movement of 0.1mm in that direction)







Always test the program with JOG

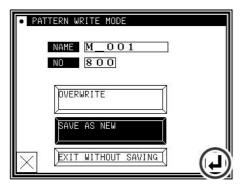


At the end of the program press



SAVING THE PROGRAM

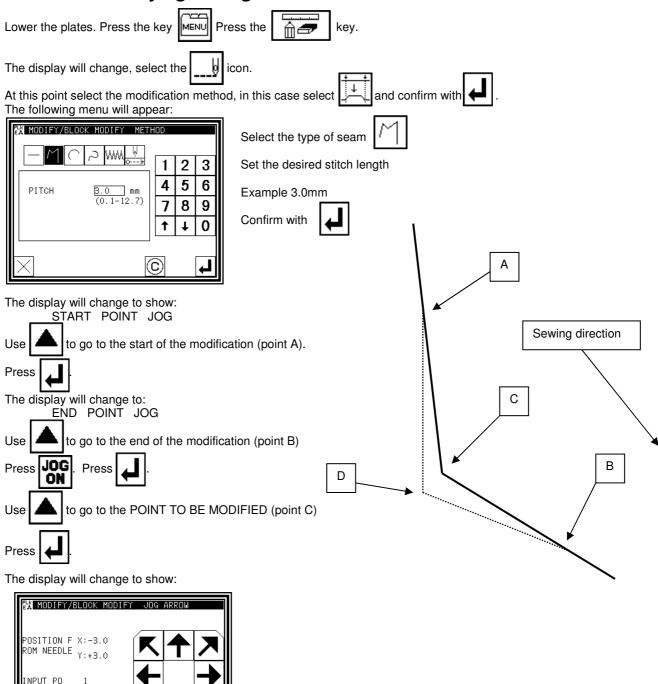
Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press to confirm,input the desired name and number and confirm pressing



14.2. Modifying an angle



Advance the desired quantity using the direction arrows (point D)

(c)

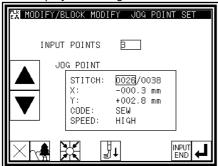
(Each pulse is equal to a one tenth of a millimeter shift in that direction).



INTS

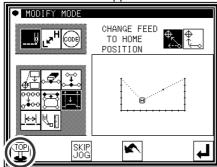
STITCH POINT 0018/0038

The display will change to show:





The main menu will appear



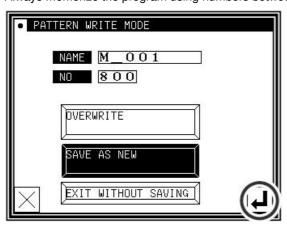


to confirm the modification



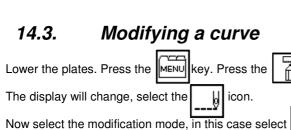
SAVING THE PROGRAM

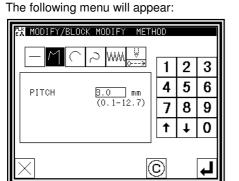
Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press to confirm,input the desired name and number and confirm pressing







se select and confirm with

Select the stitch type.

Set the desired stitch length

Example 3.0mm

Confirm with

The display changes to show: START POINT JOG



to go to the START of the modification (point A)



The display changes to show: END POINT JOG

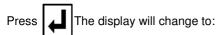


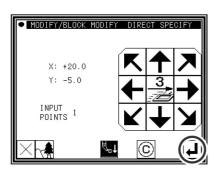
to go to the END of the modification (point B)







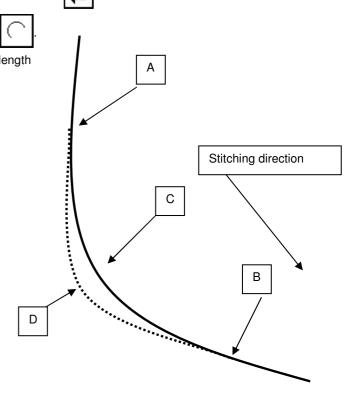




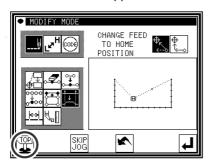
Move the desired quantity using the direction arrows (point D)

(Each pulse is equal to a tenth of a millimetre shift in that direction)

Press . Press .



The main menu will appear



Press

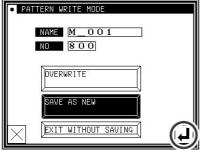


to confirm the modification made. Press



SAVING THE PROGRAM

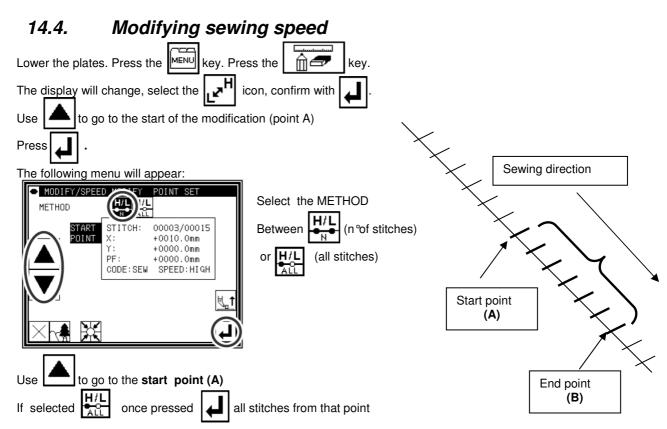
Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press

to confirm,input the desired name and number and confirm pressing $% \left(1\right) =\left(1\right) \left(1\right) \left$

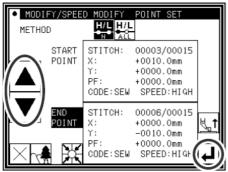




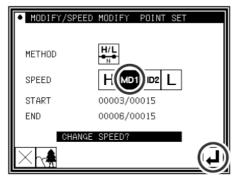
on will change speed

If selected $\frac{H/L}{N}$ instead the machine will ask for **end point (B)**,use the

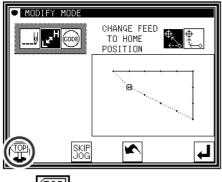
Arrow keys to move to the desired point and press



Then on the display will appear:



Select the desired speed and press to confirm.



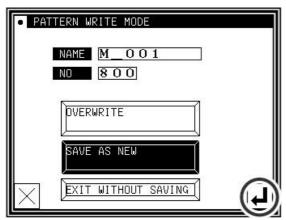
to confirm the modification.

Press

At the end press

SAVING THE PROGRAM

Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches

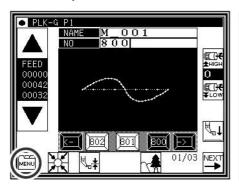


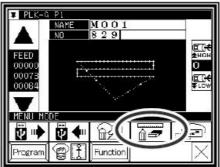
to confirm,input the desired name and number and confirm pressing



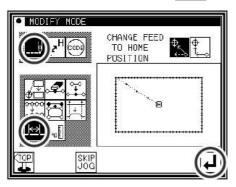
14.5. Modifying stitch length

Select modify mode:





Then select stitch length modify



At this point select:

K≯ JJA

To select to change the stitch length of all the stitches from the stetted start point on

×

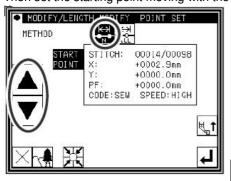
To select the desired number of stitches included between start pint and end point

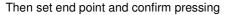
Then set the starting point moving with the arrow keys

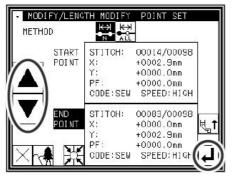


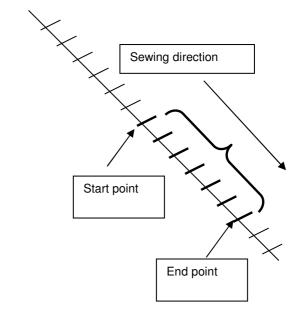
and press



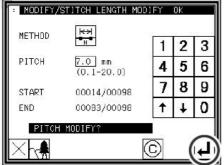




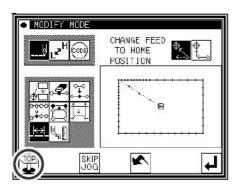






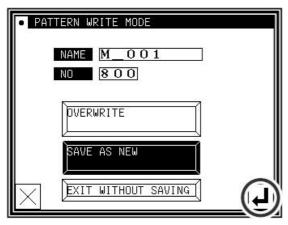


Press TOP



SAVING THE PROGRAM

Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press to confirm,input the desired name and number and confirm pressing



14.6. Modify the presser foot height

ATTENTION: for safety reasons while modifying the presser foot height the presser foot will remain in high position.

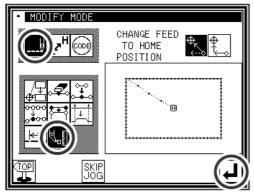
Before modifying the presser foot height control that the THICKNESS is set at 0mm at paragraph 8.5.

To modify the presser foot height press





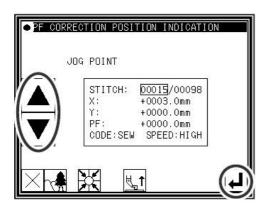
and this screen appears:



When this screen appears press



then +

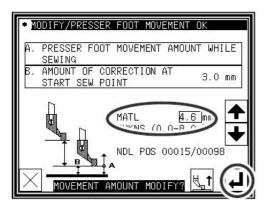


When this screen appears move to the desired point using the arrow keys

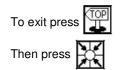




And press

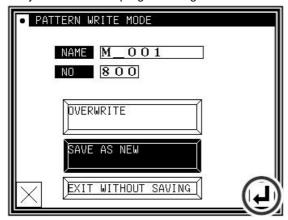


Press and Select the desired height from +9.0mm (maximum)to -9.0mm(minimum) increasing or decreasing the value using the arrow keys and press to confirm



SAVING THE PROGRAM

Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press to confirm,input the desired name and number and confirm pressing



FUN 1 **INNER CLAMP-re entry**

F6 H LEFT NEEDLE is working

F6 L RIGHT NEEDLE is working

ASRT STOP & GO adjustable from 1to 9 every number equals 0.2 seconds

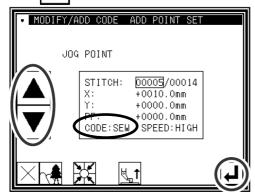
Lower the plates. Press the MENU

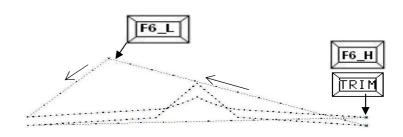
Press the

The display will change, select the icon.





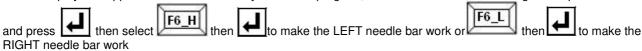




ATTENTION: the code to change needle must be always after TRIM code

to go to the required point. Use

On the display will appear all the codes already set on the program, to select the needle bar change code press

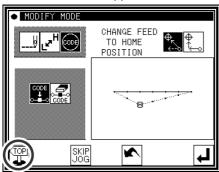


Select for example

Press

Press

The main menu will appear



Press

to confirm the modification.

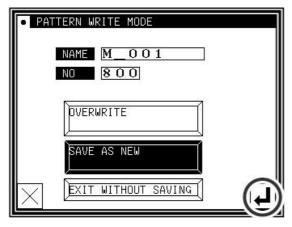
Press

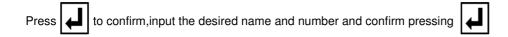
Test the program, lower the jig using the relevant switch. Test the program by the key to go to the end of the sewing program.

At the end of the program press

SAVING THE PROGRAM

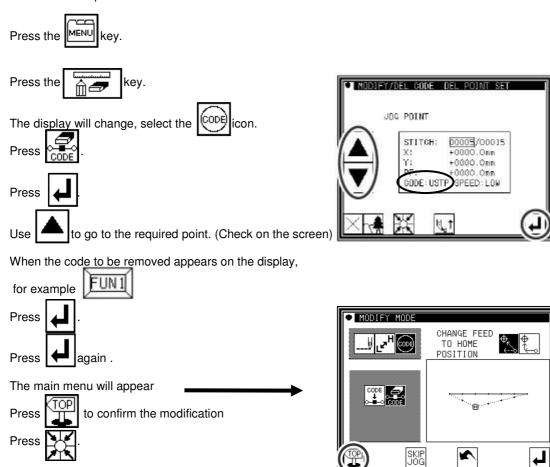
Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches





14.8. Deleting codes

Lower the clamps.



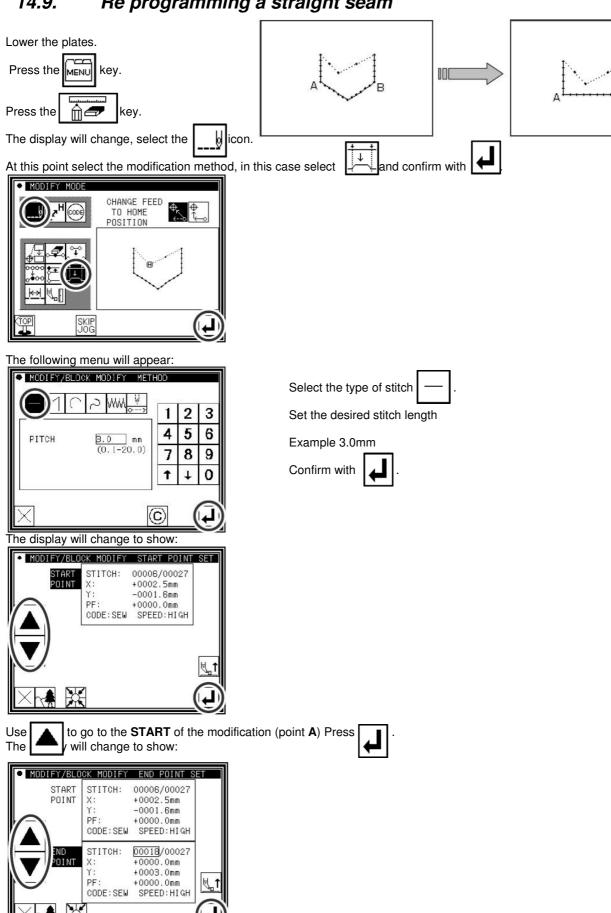
SAVING THE PROGRAM

Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press to confirm,input the desired name and number and confirm pressing

14.9. Re programming a straight seam

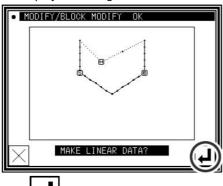


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to go to the END of the modification (point B) Press

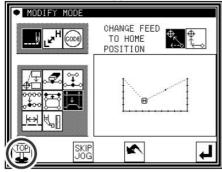
Use

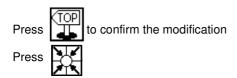
The display will change to show:



Press 4

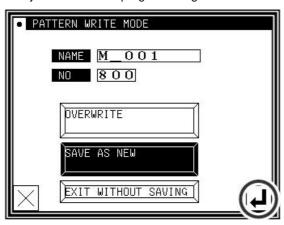
The main menu will appear





SAVING THE PROGRAM

Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches

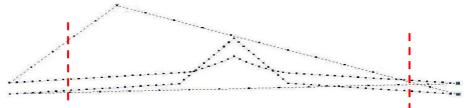


Press to confirm,input the desired name and number and confirm pressing

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14.10. Reducing the program size

This operation is used on fly and embroidery to reduce the program to easily create a smaller size



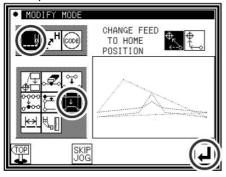
Lower the plates.



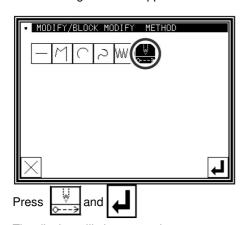
The display will change, select the icon

At this point select the modification method, in this case select

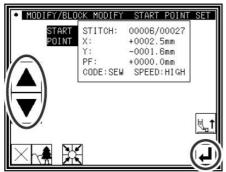




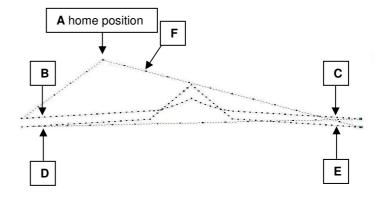
The following menu will appear:



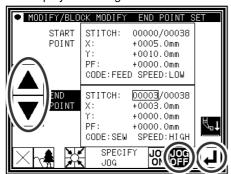
The display will change to show:







The display will change to show:

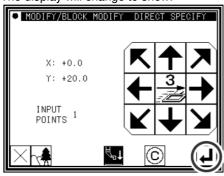


Use 🛕

to go to the END of the modification (point B) select JOG OFF and press

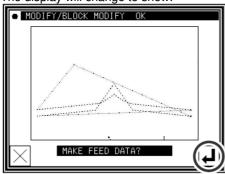


The display will change to show:



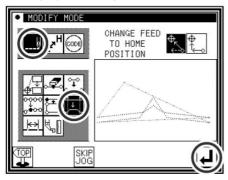
Press .

The display will change to show:



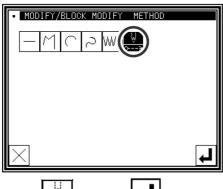
Press 4

The display will change to show:



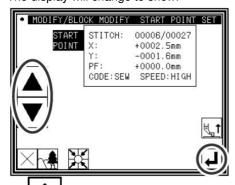
Press and confirm with

The following menu will appear:



Select and press

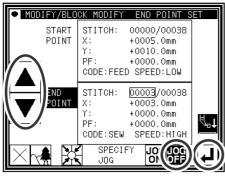
The display will change to show:



Use to go to the **START** of the modification (point **C**) Press



The display will change to show:

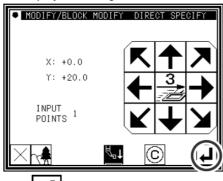


Use to go to the **END** of the modification (point **D**) and select **JOG OFF** and press

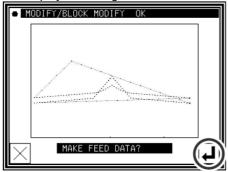


The display will change to show:

Press

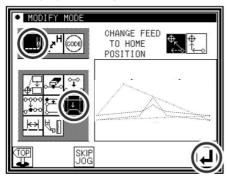


The display will change to show:



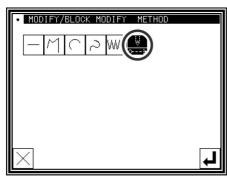
Press

The display will change to show:



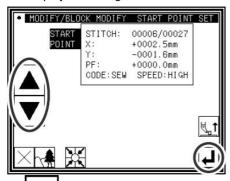
Press and confirm with

The following menu will appear:



Select and press

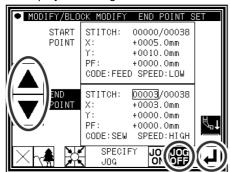
The display will change to show:



Use to go to the **START** of the modification (point **E**) Press

4

The display will change to show:

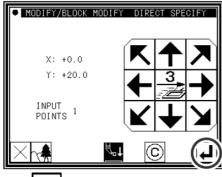


Use 🛕

to go to the END of the modification (point F) and select JOG OFF and press



The display will change to show:



Press

The display will change to show:



Press 4

The display will change to show:



Press



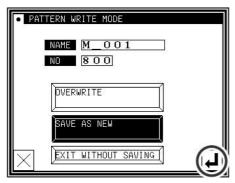
to confirm the modification

Press



SAVING THE PROGRAM

Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



Press to confirm,input the desired name and number and confirm pressing

ATTENTION: reducing the program can happen to delete the CODES to re add the codes follow paragraph 14.7

14.11. Rotation of a program

Lower the jig. Press the MENU icon. Press the icon.

The subsequent menu will appear:

Press the



icon

Press the icon

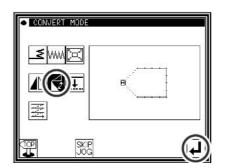
The subsequent menu will appear:

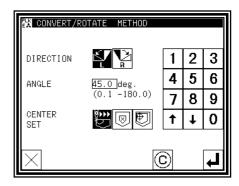
Select the direction, wish

towards the right, select

towards the left, select

Set the desired angle of rotation using the number keys ex: 0,1deg. (min 0,1 max 0,3)







THE MODIFICATION IS EXECUTED KEEPING THE SELECTED POIT FIXED.



THE MODIFICATION IS EXECUTED FROM THE CENTER OF THE PROGRAM.



THE MODIFICATION IS EXECUTED FROM THE HOME POSITION.



Use the key to go to the desired point (A)

icon. Press the





The main menu will appear



to confirm the modification



Test the program, lower the jig

using the relevant button, with the



Move to the end of the sewing cycle.

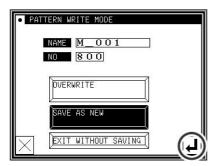
At the end of the program press





SAVING THE PROGRAM

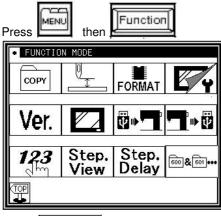
Always memorize the program using numbers between 600 and 999 with maximum 20,000 stitches



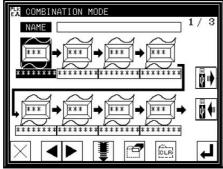
Press to confirm,input the desired name and number and confirm pressing



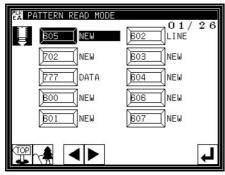
14.12. Creating a sequence of programs



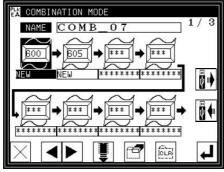
Select & 600 & 601 ***



Select in order to read the program from the internal memory.



Select the desired program to add and confirm pressing Repeat this step to add all the programs you desire in the sequence.



Once inserted all the programs desired (max24)press



to save the program.

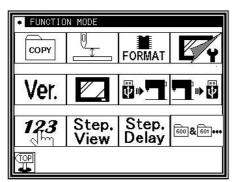
Press enter the desired name ,select where to save if on internal memory or on a USB drive then press



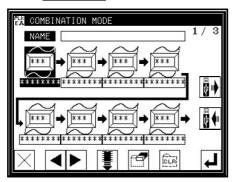
At this point the sequence just programmed is in use.

14.13. Exit from a sequence of programs





Select 600 & 601 ••••







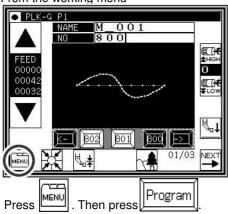


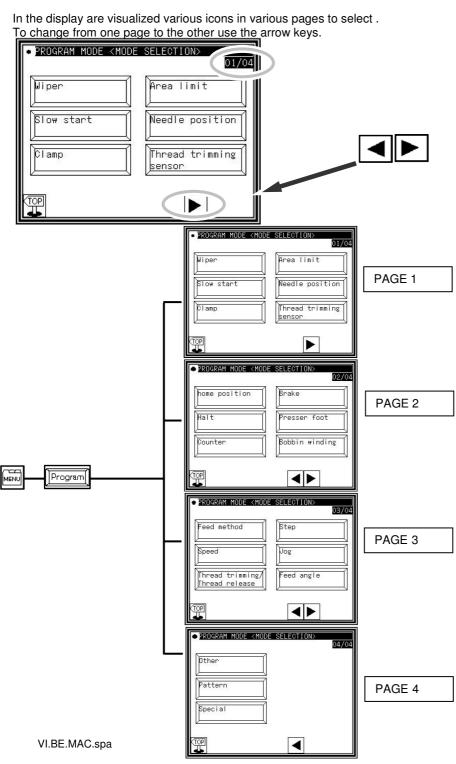


At this point the machine is in the normal functioning mode.

15. BASIC PARAMETER ADJUSTMENTS

From the working menu





15.1. Regulation of the tension opening delay

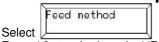
Select Thread trimming/ Thread release the parameter

LRS.(220 standard setting)(Tension opening delay) the parameter

LRE.(50 standard setting) (duration time of the tension impulse).

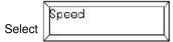
T (180 standard value)(thread trimming speed)

15.2. Feed speed control



Fes. (9 standard setting)(Feed speed can be setted from 0 to9).

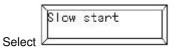
15.3. Sewing speed



H = XXXX(High speed). Standard speed 2499 Rpm (2100during the running in)

MD1 = XXXX(Medium-high speed)
 MD2= XXXX(Medium-low speed)
 Standard speed 1000 Rpm
 L = XXXX(Low speed)
 Standard speed 200 Rpm

15.4. Slow start



S = xxx (SLOW START speed). SL = off /on (SLOW START on/off).

SLn = x (N°of stitches).Standard value 2

16. SOFTWARE INSTALLATION

PLKG_system

To load the software :

Copy the folders PLKG_system and User_system from CD/Computer on the empty USB drive and insert it in the control box



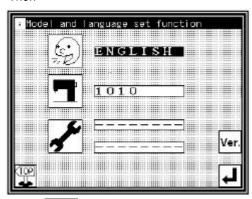
Turn on the machine and keep pressed the **F** key until the **RED LED** is **ON**



This screen appears



Then



Press to select the language (Spanish, French, English, Chinese, Japanese)

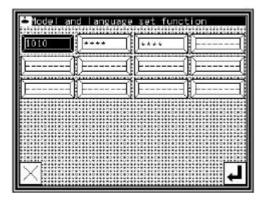


To select the machine model press the pocket design and FLY machine

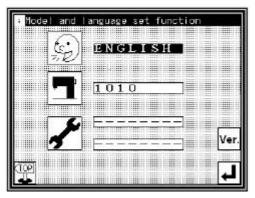
and select 2516R for the pocket setter machine or select 1010icon for

and confirm pressing





Press



Press 4

This screen appears



Turn OFF the machine and wait until the GREEN LED is completely off and then turn on the machine again.



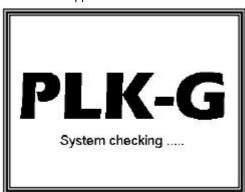
16.1. Loading the

User_system

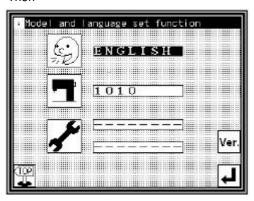
Turn on the machine and keep pressed the **F** key until the **RED LED** is **ON**



This screen appears



Then



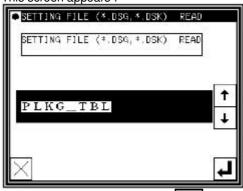
Then select



Select TBL&STP

and press

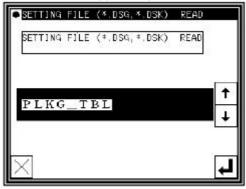
This screen appears:



Select the setting file and press



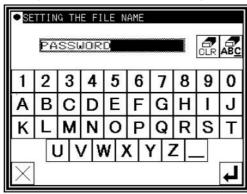
Then this screen appears again



Then select the step file and press



At this point if the machine asks for a password please contact (VI.BE.MAC)



Insert the PASSWORD and

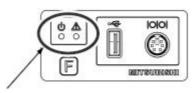


This screen appears



Turn OFF the machine and remove the USB drive





Once the **GREEN LED** is completely off turn back on the machine.

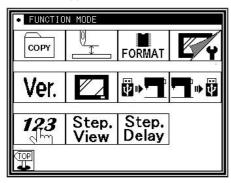
16.2. Loading VI.BE.MAC setting

To load the software:

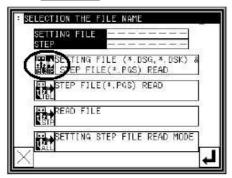
Copy the folder User_system from CD/Computer on the empty USB drive and insert it in the control box To load the step and setting file:



This menu appears:







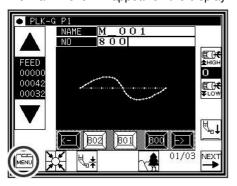
Press then select the desired setting file and press and select the desired step file and press and confirm pressing again

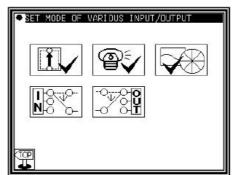
If a PASSWORD is required please contact **VI.BE.MAC.** and enter the password confirm pressing

When the loading is finished M-290 appears on the screen , turn OFF the machine wait until the **GREEN LED** on the control box switches **OFF** remove the USB drive and switch back on the machine.

17. TEST INGRESSI (INPUT) / USCITE (OUTPUT)

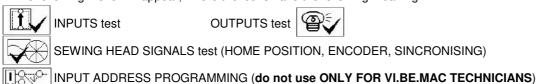
The main menu will appear on the display:







The following menu will appear, where the icons have the following meaning:



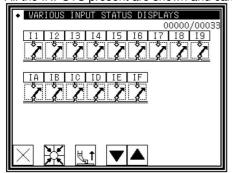
OUTPUT ADDRESS PROGRAMMING(do not use ONLY FOR VI.BE.MAC TECHNICIANS)

Select the icon required from those shown.

17.1. Input test

Press the icon

All the INPUTS present are shown and can be tested manually (from i 1 to i P)



The display will show the INPUT value.

By pressing the respective function pedal or switch, It can be changed from **on** to **off** and/or vice versa.

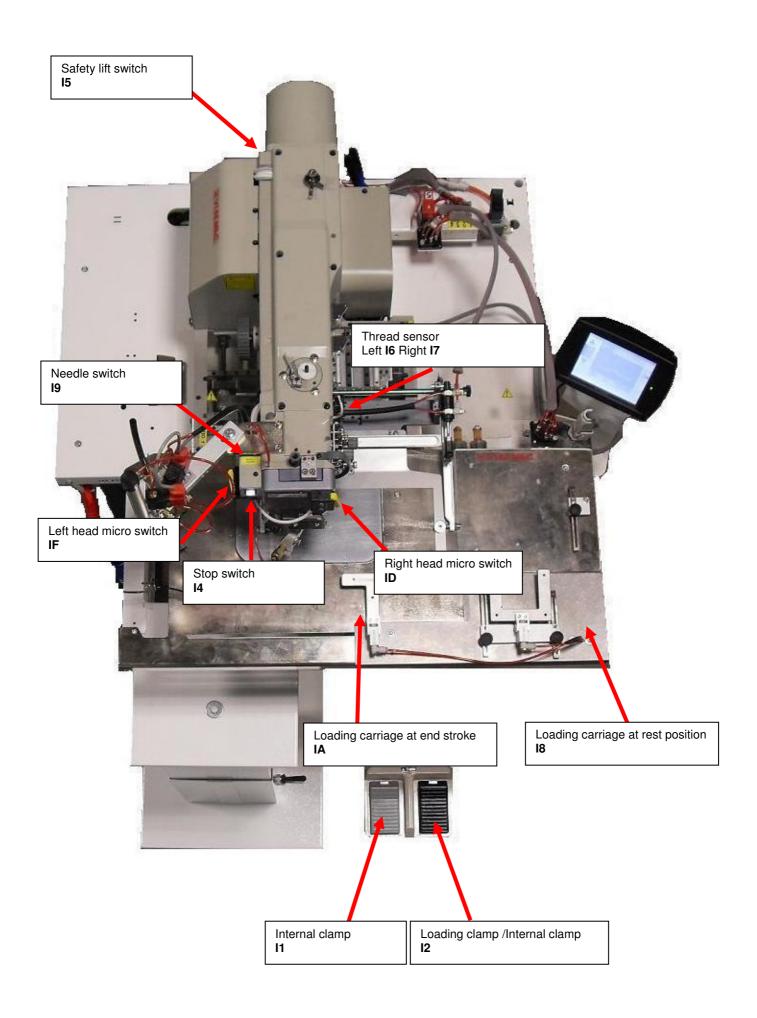
When the contact is closed = ON the following icon appears



When the contact is open = OFF the following icon appears



TYPE	FUNCTION	CONNECTION
FOOT SWITCH	INTERNAL CLAMP	l1
FOOT SWITCH	LOADING CLAMP/INTERNAL CLAMP	12
MICRO SWITCH	STOP SWITCH	14
MICRO SWITCH	SAFETY LIFT SWITCH	15
SENSOR	LEFT THREAD BREAKAGE SENSOR	16
SENSOR	RIGHT THREAD BREAKAGE SENSOR	17
MICRO SWITCH	LOADER REST POSITION SWITCH	18
MICRO SWITCH	NEEDLE SWITCH	19
MICRO SWITCH	LOADING CARRIAGE AT END STROKE SWITCH	IA
N.C.		IB
N.C.		IC
MICRO SWITCH	RIGHT HEAD MICRO SWITCH	ID
N.C.		IE
MICRO SWITCH	LEFT HEAD MICRO SWITCH	IF



ELECTRIC CONNECTIONS 1010 PLK-G INPUT CON-L

COLOUR	INPUT	PIN INPUT	0Vcc
	Stop switch	Pin 3 CON6(ES)	Pin 4 CON6(ES)
	Safety lift switch	Pin 2 CON7(S6)	Pin 3 CON7(S6)
Black	Left thread sensor	Pin 2 CON9(FSW) Brown (out signal)	Pin 1 CON8(THS) Red +Vcc Pin 3 CON8(THS) White 0Vcc
Orange	Right thread sensor	Pin 2 CON8(THS) Brown (out signal)	Pin 1 CON8(THS) Red +Vcc Pin 3 CON8(THS) White 0Vcc
Blue	Right loading carriage switch SB3	Pin 1 CON-L	Pin 5 o Pin 8 CON-L
Gray	Needle switch SB4	Pin 3 CON-L	Pin 5 o Pin 8 CON-L
White	Right loading carriage switch SB5	Pin 4 CON-L	Pin 5 o Pin 8 CON-L
	N.C.	Pin 6 CON-L	Pin 5 o Pin 8 CON-L
	N.C.	Pin 7 CON-L	Pin 5 o Pin 8 CON-L
Red	Right micro switch (sewing head)SB6	Pin 9 CON-L	Pin 5 o Pin 8 CON-L
	N.C.	Pin 10 CON-L	Pin 5 o Pin 8 CON-L
Green	Left micro switch (sewing head) SB7	Pin 12 CON-L	Pin 5 o Pin 8 CON-L

CON-L INPUT 1 2 3 4 5 6 7 8 9 10 12	
Pin01: I8 Blue	Pin07: IC N.C.
Pin02: 0 Vcc N.C.	Pin08: 0 Vcc Black
Pin03: I9 Gray	Pin09: ID Red
Pin04: IA Yellow	Pin10: IE N.C.
Pin05: 0 Vcc Black	Pin11: 0 Vcc N.C.
Pin06: IB N.C.	Pin12: IF Green

17.2. Test sewing head signal

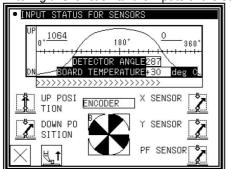


Press icon



Press

Entering this function all the inputs of the sewing head can be controlled :



UP POSITION = Sensor needle in highest position DOWN POSITION = Sensor needle in lowest position X SENSOR = Sensor X position Y SENSOR = Sensor Y position

ENCODER = Signals from the motor encoder

When the sensor is reading = ON



When the sensor is not reading = OFF.



17.3.

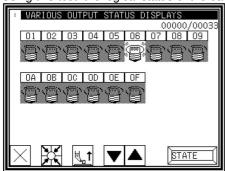


Press icon





Using this test the logical status of the each output can be contolled and tested (from 0 1 to 0 F)



When the output is activated the icon is this colour



When the output is deactivated the icon is this colour

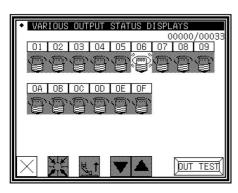


To test manually if the output is working:



VERIFY BEFORE ACTIVATING ANY OUTPUT THAT NO OBJECTS OR PERSONS ARE IN THE RANGE OF ACTION OF THE OUTPUT TESTED

Press the icon of the desired output to test (ES:01 = thread trimmer) to verify if it is working.



PARAMETER	FUNCTION
01	Thread trimmer
O2	Stacker (down stroke)
О3	Tension opening + wiper
04	External clamp
O5	Unloader
O6	Stop light
07	Needle change +thread clamp
O8	Carriage movement / Central clamp backwards-forwards
O9	N.C.
OA	N.C.
ОВ	N.C.
ОС	Loading clamp / Central clamp up -down

ATTENTION: before testing the 0C output remove the loading clamp and keep the icon pressed until the carriage reaches the loading end stroke position.

To exit from the output test mode press



and to return to the working position press



ELECTRIC CONNECTIONS 1010 PLK-G OUTPUT CON-M AND INTERNAL CON

COLOUR	ELECTROVALVE	PIN OUT 0Vcc	+24Vcc
Black	EV0 = General Air	Pin 5 o Pin 8 CON-L	Pin 8 o 11 CON-M
	EV1 = External clamp	Pin 1 CON13(FU)	Pin 2 CON13(FU)
Brown/Green	EV2 = Loading clamp or Central clamp	Pin 10 CON-M	Pin 8 o 11 CON-M
White/Yellow	EV3 = Carrage movement Central clamp backwards/forwards	Pin 1 CON-M	Pin 8 o 11 CON-M
	EV4 = Needle change+thread clamp	Pin 1 CON14(OP2)	Pin 3 CON14(OP2)
	EV5 = Tension opening	Pin 1 CON12(L)	Pin 2 CON12(L)
Brown/ Yellow	EV9 = Wiper	Pin 3 CON-M	Pin 8 o 11 CON-M
	N.C.	Pin 4 CON-M	Pin 8 o 11 CON-M
	N.C.	Pin 6 CON-M	Pin 8 o 11 CON-M
	EV8 = Stacker (down)	Pin 1 CON11(W)	Pin 3 CON11(W)
	Thread trimmer T	Pin 1 CON10(T)	Pin 2 CON 10 (T)
	EV6/7 = Unloader	Pin 1 CON15(OP1)	Pin 3 CON15 (OP1)
	Stop light	Pin 4 CON6(ES)	Pin 3 CON6(ES)

CON-M USCITE (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (1) (12) (13) (4) (5)	
Pin01: O8 White/Yellow	Pin09: +24Vcc N.C.
Pin02: +24Vcc N.C.	Pin10: OC Brown/Green
Pin03: O9 Brown/Yellow	Pin11: +24Vcc Brown
Pin04: OA N.C.	Pin12: OD N.C.
Pin05: +24Vcc N.C.	Pin13: OE N.C.
Pin06: OB N.C.	Pin14: +24Vcc N.C.
Pin07: +24Vcc N.C.	Pin15: OF N.C.
Pin08: +24Vcc Brown	

18. FREQUENTLY ASKED QUESTIONS

If after several modification on a program the machine doesn't let us modify any more

Press MENU

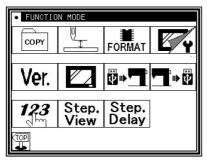


Then press FUNCTION



Select FORMAT





Reached this screen select OPTIMIZE





Then confirm pressing

The pattern data are not erased. And at this point you can re apply the modification to the program



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