



意大利威比玛 牛仔智造专家

ITALY VI.BE.MAC JEANS SMART SOLUTION

使用说明书

OPERATING INSTRUCTION

2261 系列
SERIES

3针直臂式链缝埋夹机

3 Needle Chain Stitch Feed of the Arm Unit



INSTRUCTION FOR THE MAINTENANCE OPERATOR OF THE UNIT S2261HP

INTRODUCTION

Thank you for purchasing this VI.BE.MAC. S.p.A. industrial sewing machine.

Before using this automatic unit, please read the following instructions in order to gain a better understanding of how the machine operates. The instructions illustrate the correct working method to follow in complete compliance with current legislation.

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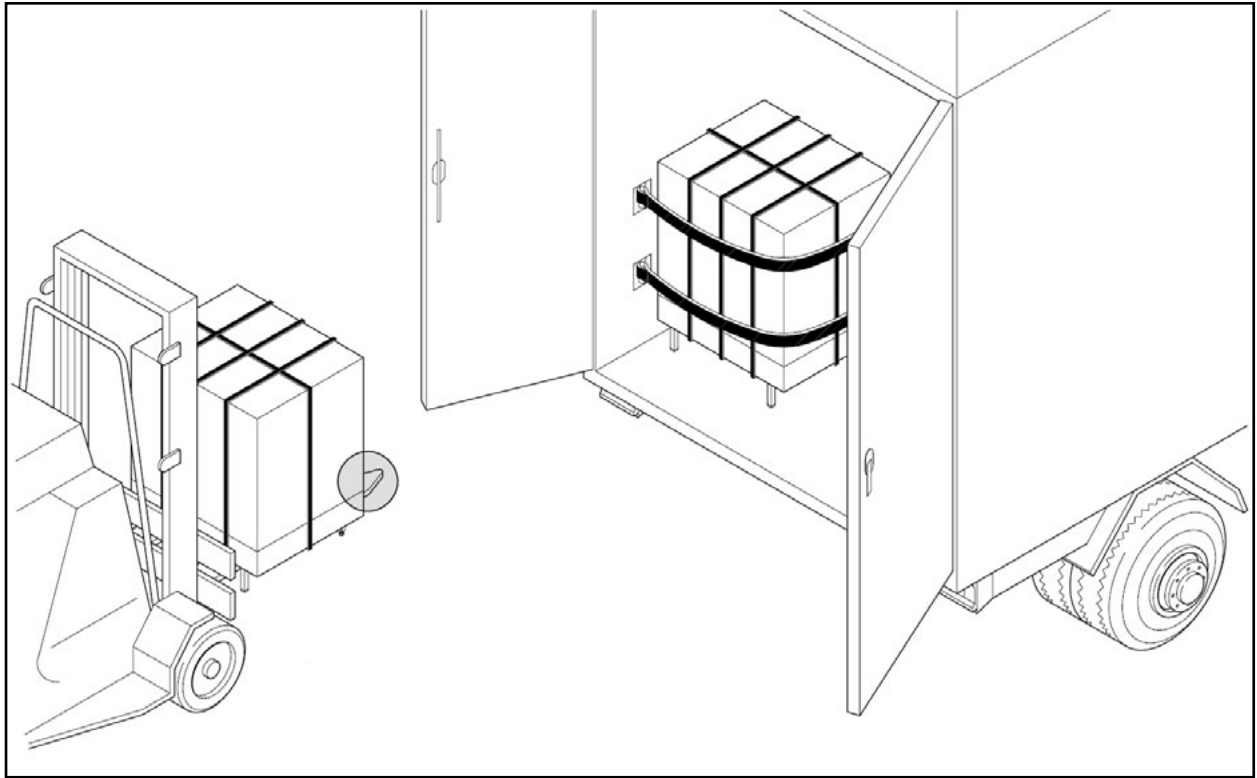
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SAFETY SIGNALS

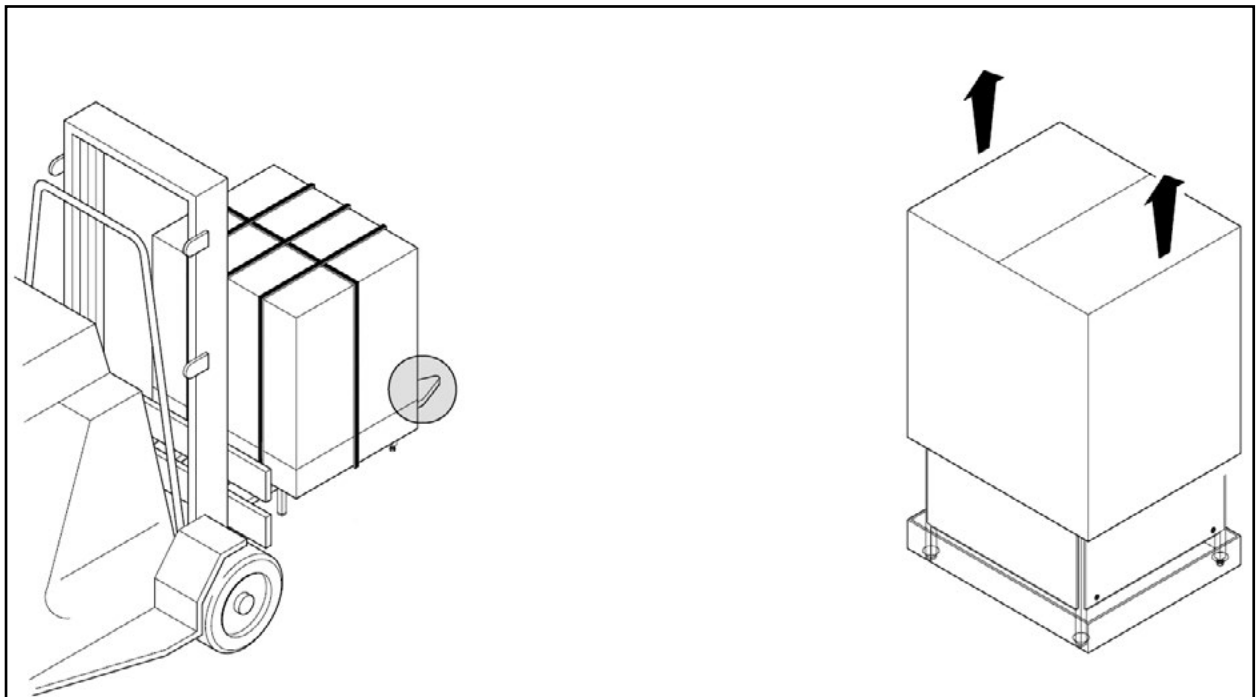
	ELECTRICAL SHOCK DANGER: BEFORE OPENING THE COVER OR DOING THE OPERATION SWITCH OFF THE MAIN POWER
	MECHANISM MOOVING: BEFORE DOING THE OPERATION BE SURE THAT THE MACHINE IS STOPPED AND DISCONNECTED FROM MAIN SWITCH
	DANGER: BE SURE TO FOLLOW THE ISTRUCTION
	DANGER: THE TEMPERATURE WILL BE OVER 70C°-160F°
	DON'T REMOVE SAFETY PROTECTIONS
	DON'T LUBRIFICATE OR ADJUST WHILE MOVING
	TURN OFF THE MAIN SWITCH BEFORE WORKING ON THE MACHINE
	THE USE OF EAR PROTECTION IS MANDATORY
	IT IS MANDATORY TO USE THE GOGGLES

1. LIFTING AND TRANSPORT



Make sure that during lifting the whole machine rests on the forklift forks.

Position the machine on the truck surly fixed with straps or balts that will insure the stability during the transport.



Make sure that during unloading the whole machine rests on the forklift forks. Place it on a hard flat surface repaired from weather.

Remove straps, and loosen the fixing screws, remove the top part of the packing box by pulling it upwards.

2. GENERAL MACHINE SPECIFICATIONS



The Unit VIBEMAC S2261HP is endowed with a Puller CG81, a Chain Trimmer and Low Inertia devices. The Puller function is to throw the upper part of the material to counterbalance the draught of the feed dog. In this way the unit has the possibility:

- to increase the speed of seam without losses some traction in the material
- to get a quality of seam better, because a draught constant seam is performed

Using the device Low Inertia the pressure of the presser foot is increased for the first 15 stitches of seam.

In this way at the beginning of the seam on the material, the stitch length is constant and it is kept maintained, having the Unit the maximum traction, and improving the quality of execution of the seam.

After the 15 stitches to improve the Puller traction and to get a constant seam is relieved the pressure from the Presser Foot.

2.1- Power supply

The tension is 220/Volts mono phase 50/60 Hz for the MITSUBISHI Motor. The power consumption is 750W.

2.2- Air consumption

The air consumption is of around 0.4 liters every cycle with pressure than at least 6 bar. The air cooler device uses air and its consumption is in base as the adjustment.

2.3- Dimension and weight

Width: 98cm

Height: 68cm

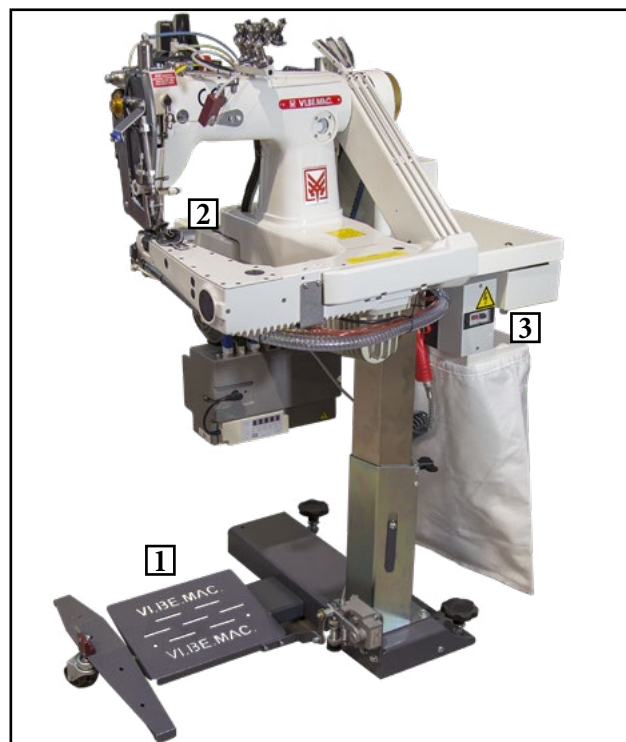
Height: 112cm (120cm with device Low Inactivity)

Weight: 160kg (respect)

2.4- Working position

The operator works seating in front of the Unit and:

- 1 Pedal to command the sewing speed is located near the standing base, fixed to the Motor by a lever.
- 2 Feller that drives fabric is fixed to its support set in the arm of the Unit.
- 3 Main Switch for power Electricity is fixed under the table.



3. **CONDITIONS FOR USE**

All operations that comply with the following conditions are considered “normal”:

- the user applies all instructions in this manual and CE directives
- all safety standards are respected, not removing the casing or safety catches installed by the manufacturer
- the power supply is constant and does not fluctuate by more than 10%
- the unit has to be connected under an automatic cut-out switch of 30mA
- the machine is connected to an earthing system in order to prevent disturbances or electric shocks
- the machine is connected to an electric circuit with separate NEUTRAL and EARTH wires
- the machine is not used at high temperatures (over 40°C) or low temperatures (below 10°C)
- water or other fluids are not permitted to enter the motor
- water or other fluids are not permitted to come into contact with the control card, the solenoid valves and the cylinders
- the machine is not used in the presence of explosive gases, dust or oil fumes
- the machine is not connected to a compressed air system containing water or other fluids in the pressurized circuit
- the machine is connected to a compressed air system with minimum constant internal pressure of 5.5 bar
- the machine is installed in a factory not over 1000 mt from sea level
- the machine is installed on a flat service with no inclination
- only qualified personnel are permitted to commission the machine and carry out extraordinary maintenance work

The manufacturer declines all responsibility for damage caused to people or things by the machine if:

- the machine was not commissioned by qualified personnel
- any repairs to the machine were not made by qualified personnel
- the power supply is not constant or does not correspond to requirements
- the machine is not earthed, or there are electronic problems in the electrical system
- the motor has not been subjected to the scheduled maintenance operations
- original or model-specific spare parts have not been used
- the user demonstrates total or partial failure to observe the instructions
- rain or snow get in contact with the unit

It is absolutely prohibited to:

- remove the casing and safety devices from their positions, thereby posing a risk to the user
- remove the eye protection mirror without equipping the user with special eye protection glasses in compliance with the law
- deactivate the safety catches installed by the manufacturer, thereby posing a risk to the user
- make changes to the machine without authorization from the manufacturer, thereby posing a risk to the user
- exceptional circumstances

3.1- **Guarante conditions**

All unit components have a 1 (ONE) year guarantee and should be send to the manufacturer for inspection if found to be defective.

All pieces damaged due to negligence of the end user and/or incorrect adjustments to the unit, carried out by unqualified personnel, will NOT be recognized as defective and will not be covered by the guarantee. These will be charged at the normal price, including consequent delivery and/or installation costs.

4. DESCRIPTION OF SWITCHES AND COMMANDS



In the unit 2261HP there are the following switches:

4.1- Main switch

It is positioned under the table fixed to the central leg of the stand.

There are two buttons.

The left RED one is used to switch power OFF and as emergency

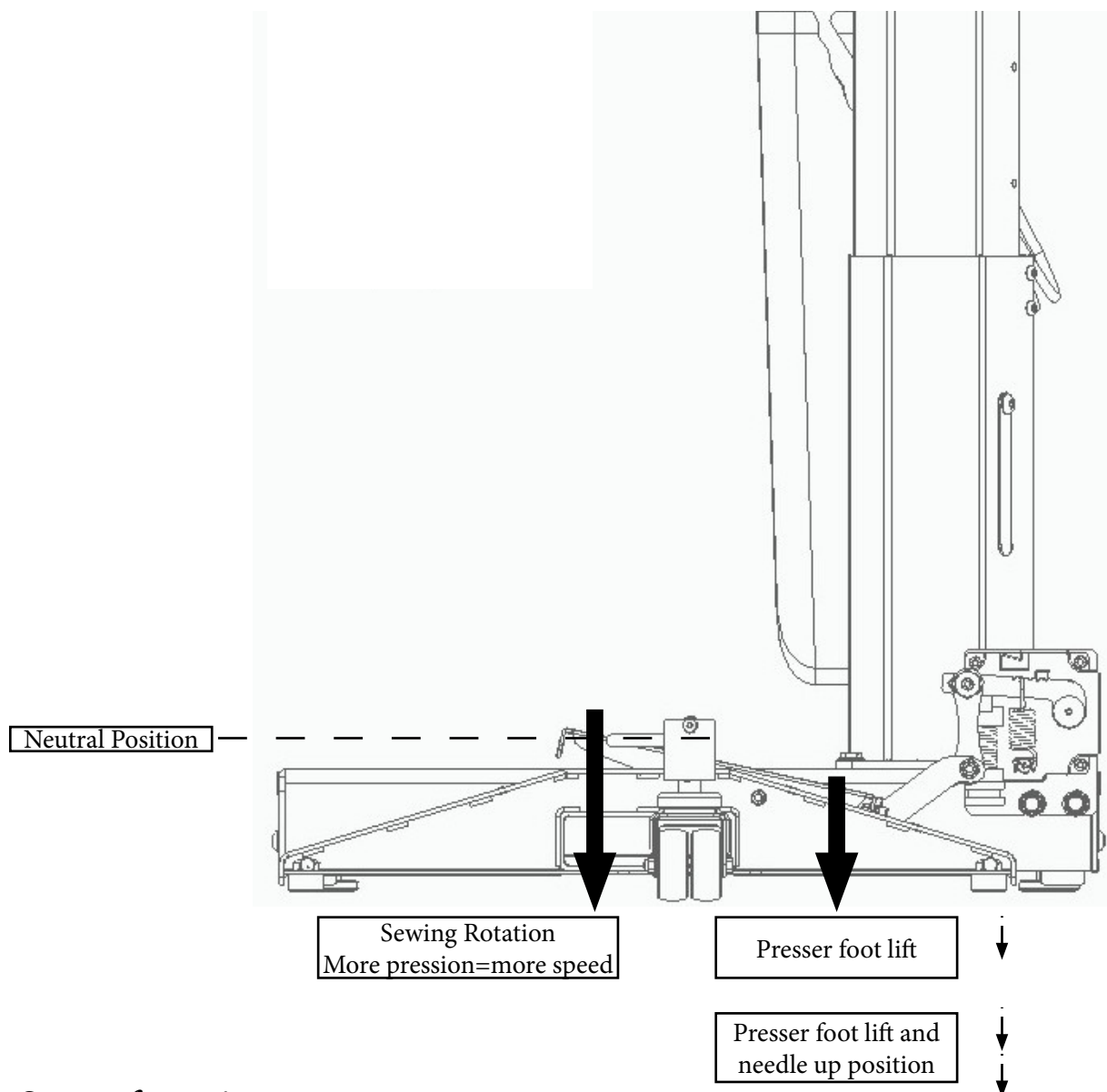
The right BLACK one is used to turn power ON.

4.2- Command pedal

It is positioned at the base of the stand, connected by a connecting rod to the lever of the Motor panel.

The pedal has 4 positions:

1. Forward, to increase the sewing speed.
2. Neutral
3. Back pedal, to rise the presser foot
4. Complete back pedal, rise presser foot and needle position in upper dead point



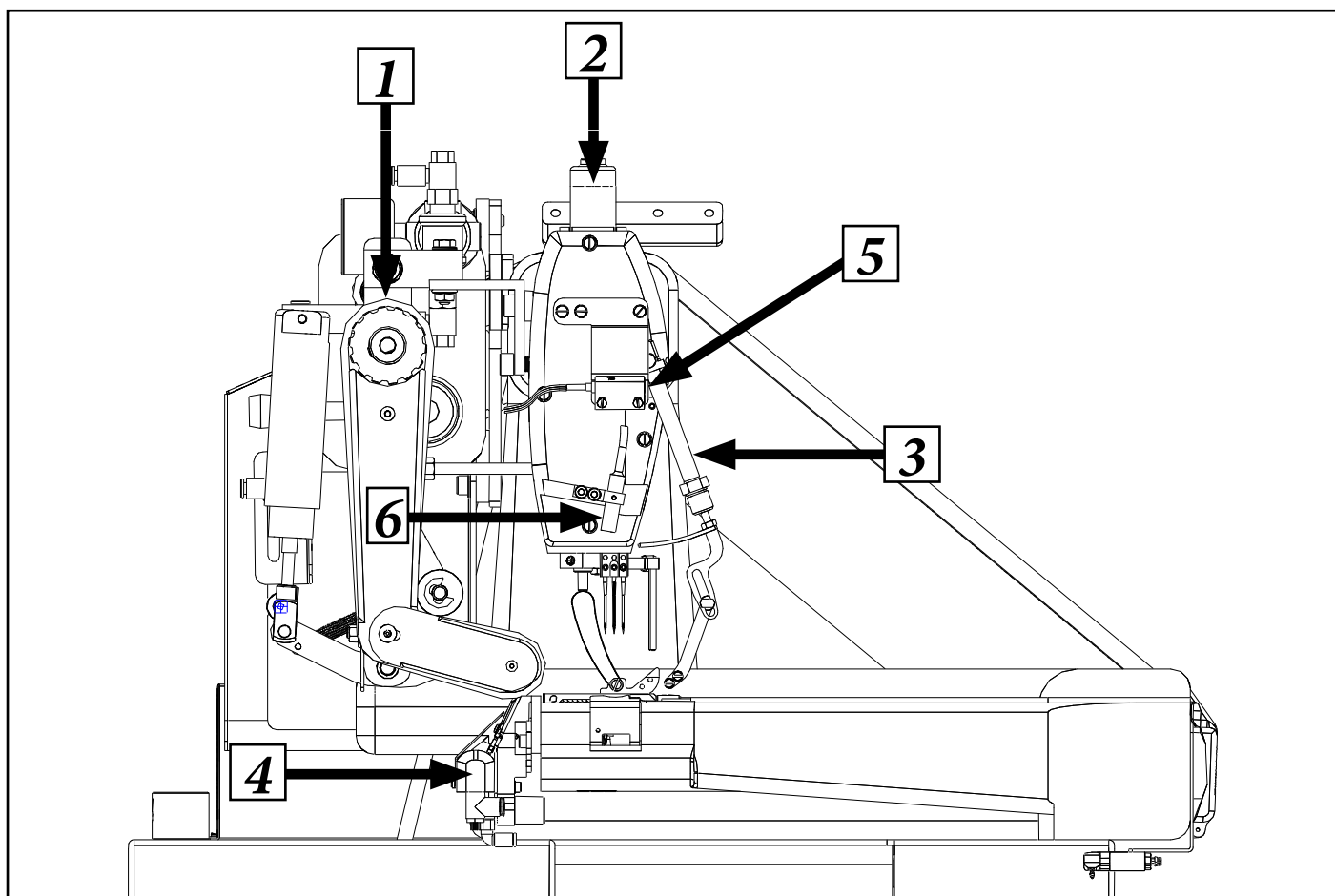
4.3- Sense of rotation

In the VI.BE.MAC. 2261HP unit the sense of rotation with Mitsubishi Motor is automatically inserted.

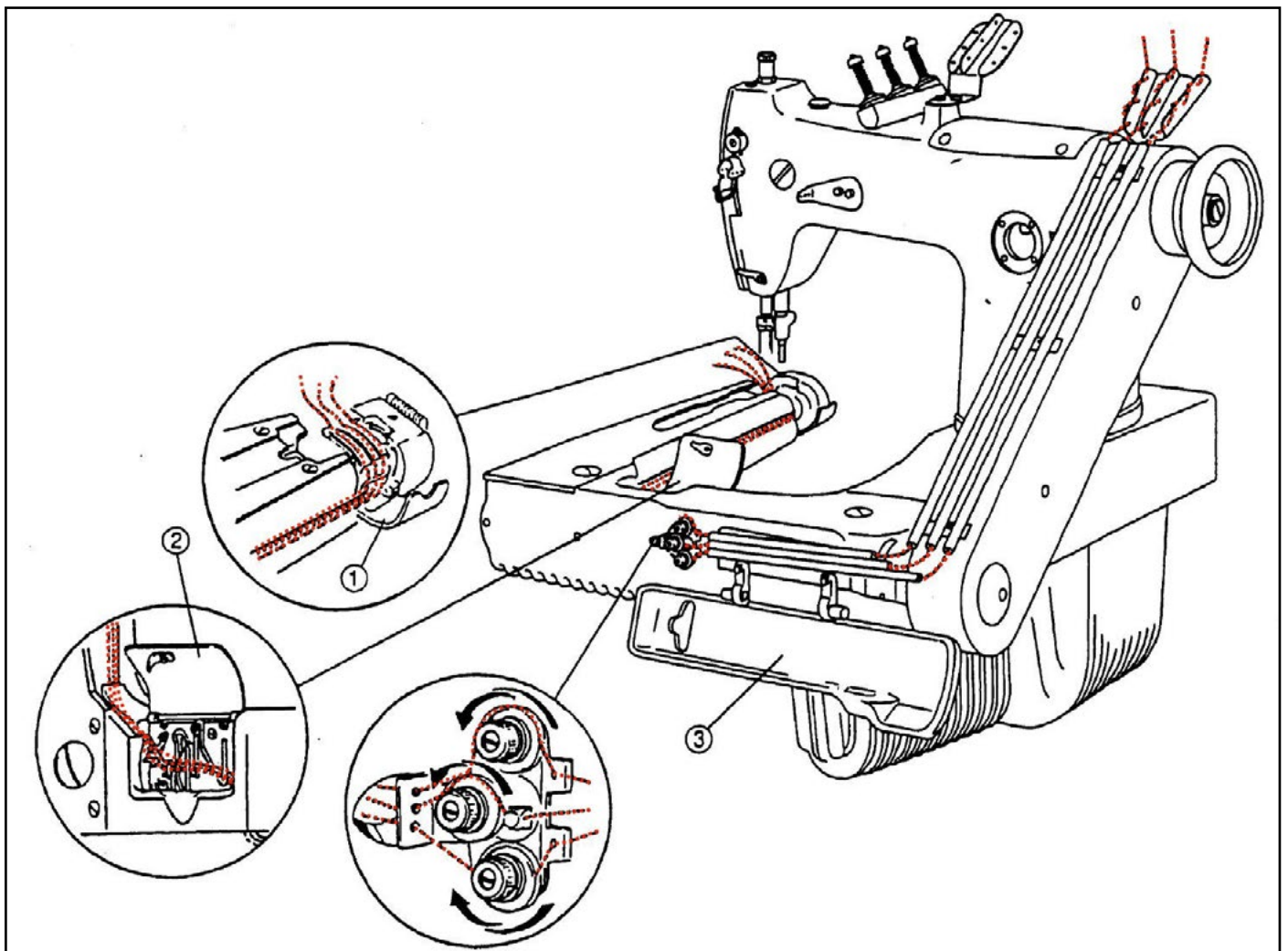
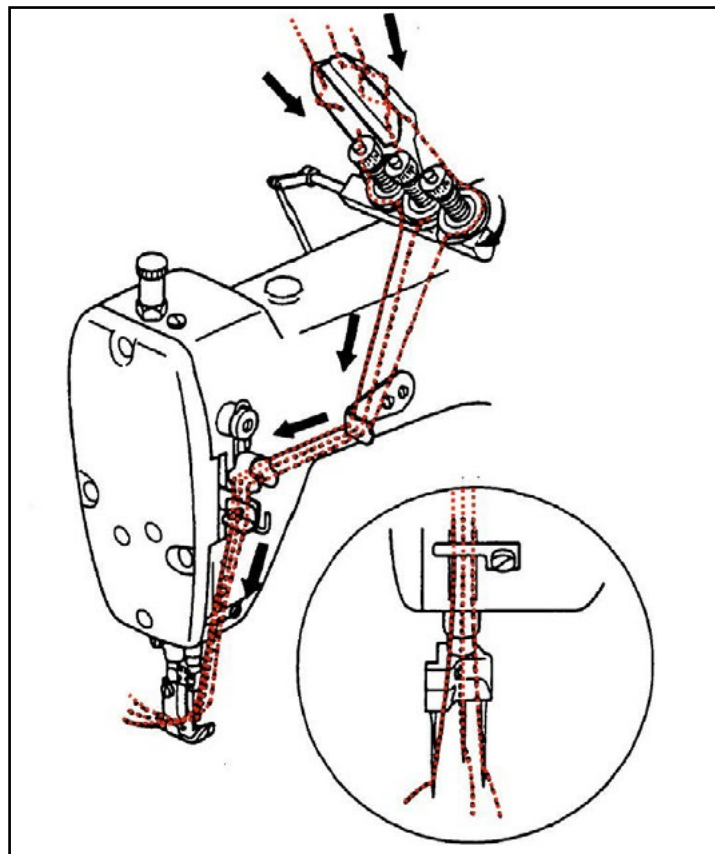
5. EQUIPMENT

The S2261HP unit is equipped with:

1. Pulled device
2. Presser foot cylinder
3. Presser foot compensating cylinder
4. Pneumatic trimming device
5. Photocell (fabric detection)
6. Sensor (thickness detection)



6. THREADING PATH



7. LAP SEAM FELLER

There are two types of Feller.

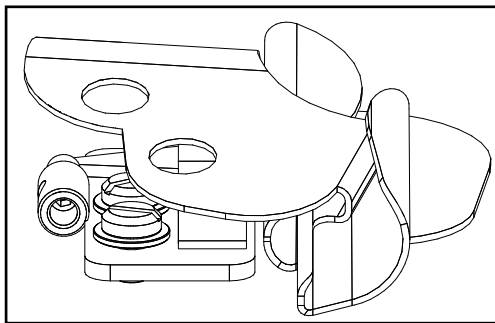
The NORMAL type to perform the operations of seam and.

The REVERSE Upside-down type to perform:

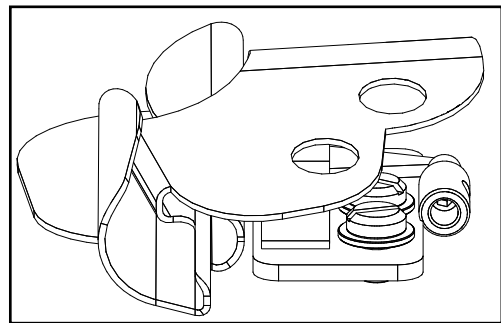
1. Inseam
2. Back rise
3. Back joke

The Fellers are available in the Four versions super heavy (HS) heavy (H), medium (M) and light (L).

NORMAL



REVERSE



The code of the fellers are formed in this way:

RD(NORMAL) RR(REVERSE) 01(TYPE OF FABRIC HS,H,M,L,) (SIZE ¼,9/32,3/8) K

RD 01 **K2**

TYPE	FABRIC TYPE	NEEDLE GAUGE	
RD 01	HS	1/4	K
	H	9/32	
	M	3/8	
	L	3/16	

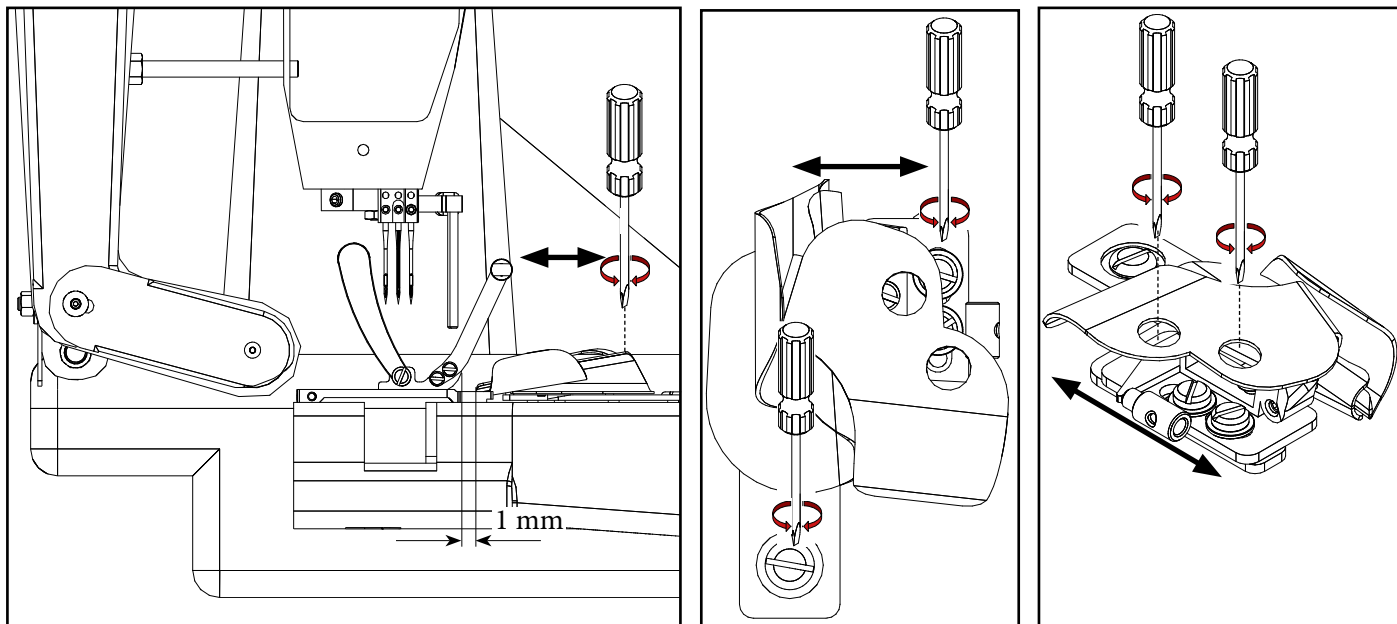
RR 01 **K2**

TYPE	FABRIC TYPE	NEEDLE GAUGE	
RR 01	HS	1/4	K
	H	9/32	
	M	3/8	
	L		

7.1- *Feller position*

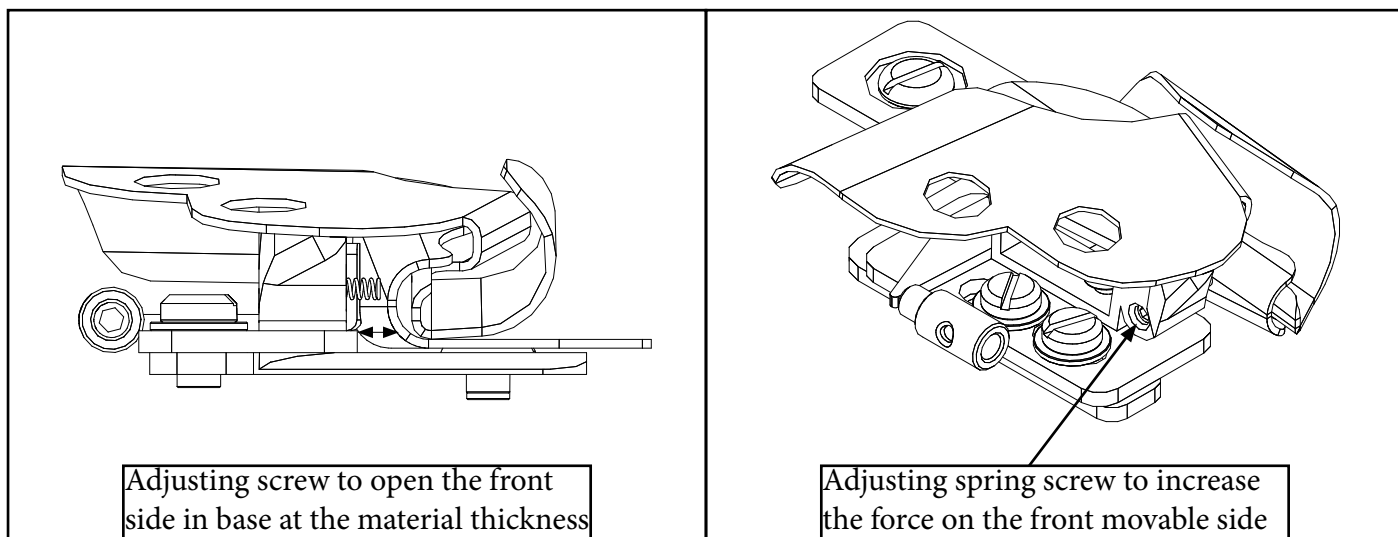
To aligned correctly the feller loosen the fixing screw and:

- performed and control that both edges are centred with the sewing
- the Feller doesn't touch the presser foot
- the left side of the Feller is aligned with the wisecrack inside on the left of the presser foot



7.2- *Adjustable lower side*

To verify that the Adjustable opening of the Feller allows the transition of the fabric without getting jammed. Usually the distance among the two inside guides as tight as possible making sure that the material can pass easily even on the joint. Adjust the strength of the mobile guide, as strong as possible always making sure that the joint can pass without getting jammed.



8. FEED DOG



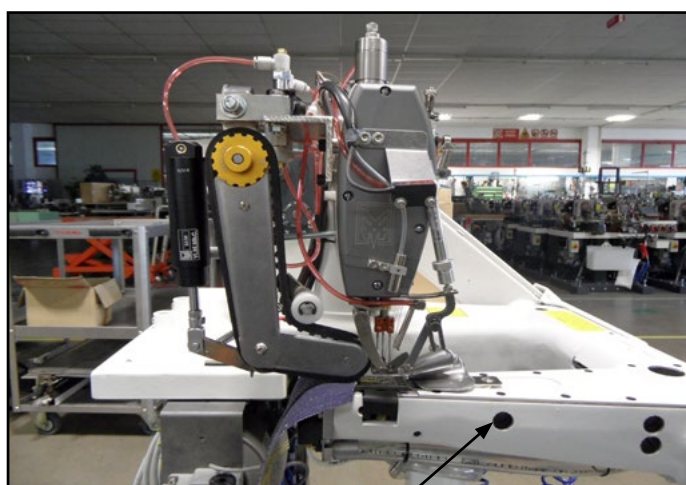
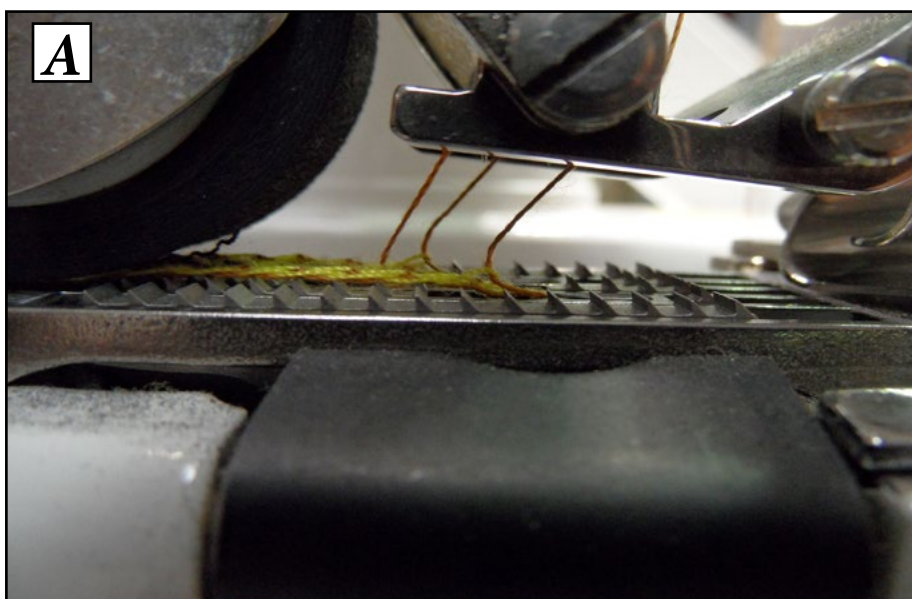
8.1- Feed dog height adjustment

Feed dog must be adjusted so that when it is in the highest position the teeth are completely out from the needle plate as image A

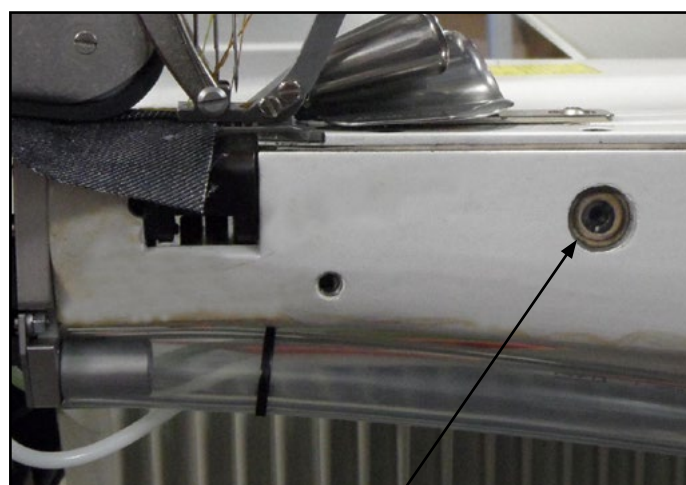
The flat part between the teeth must be at the same level of the needle plate .

To regulate the height of the feed dog follow the following instructions:

- turn the wheel of the Unit and position the feed dog in the upper point of its run
- loosen and remove the screw cover-eccentric (1)
- with a screwdriver of suitable measure rotate the eccentric pin (2) to vary the height of the feed dog



1

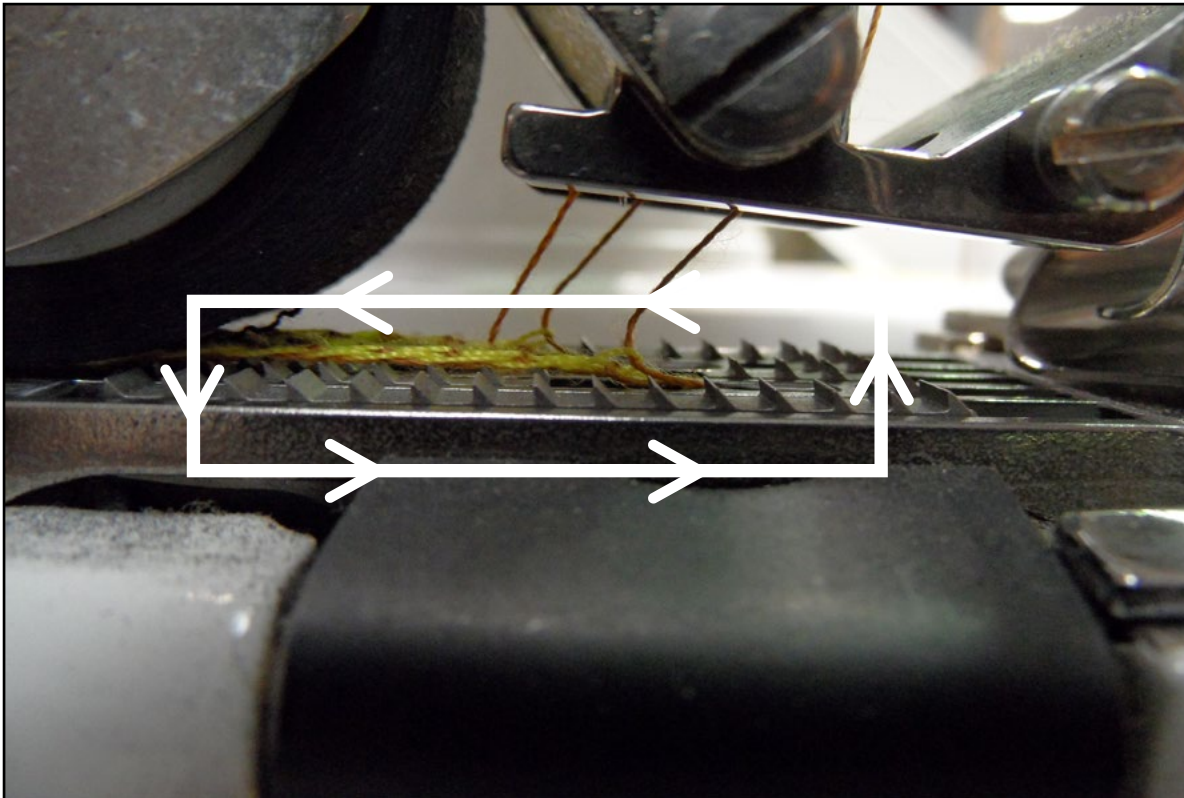


2

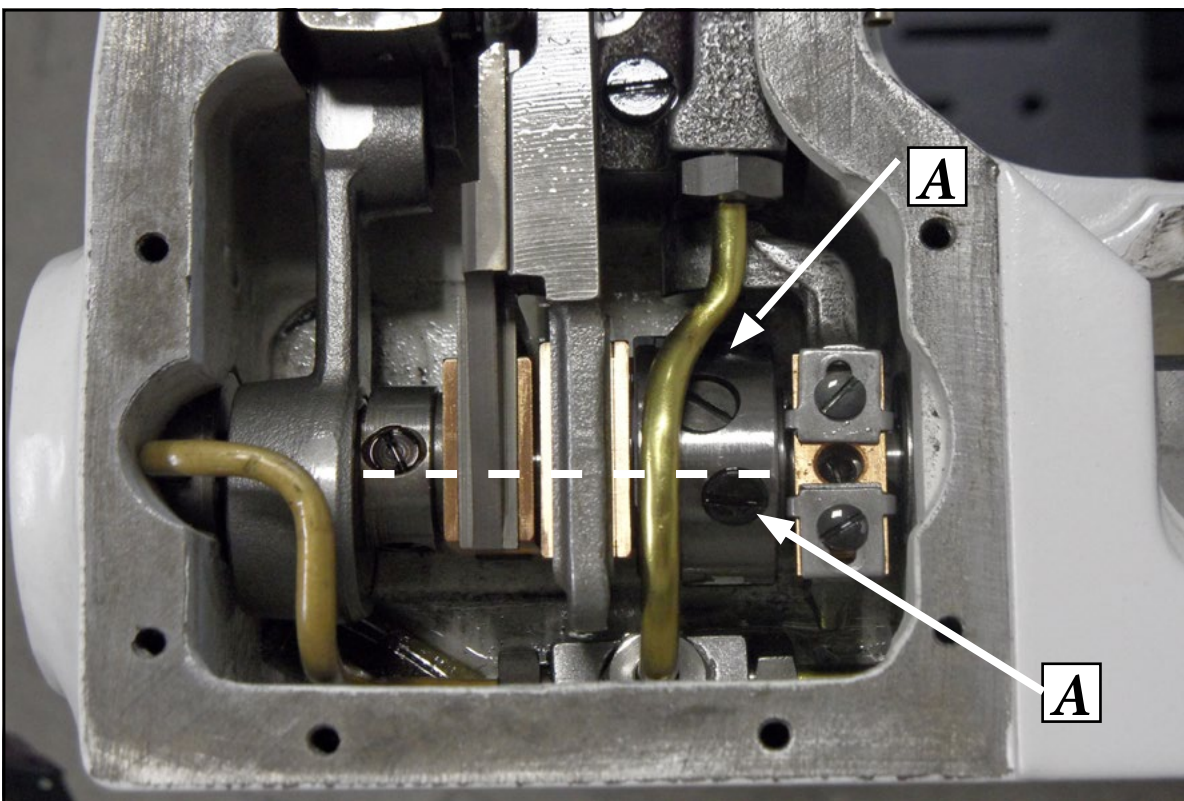
8.2- Feed dog movement



The correct movement of the feed dog is when it moves performing a rectangular movement. (up, forward, down, back)



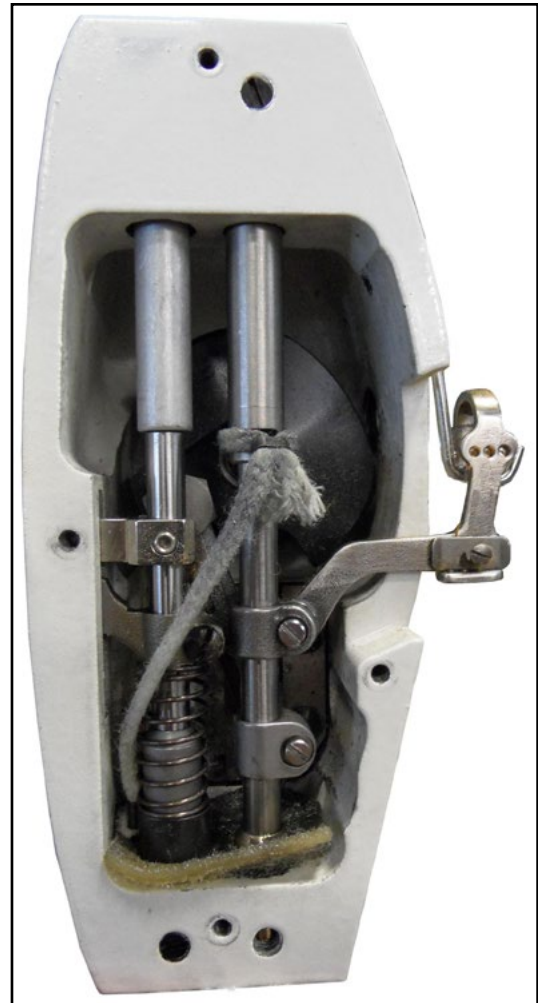
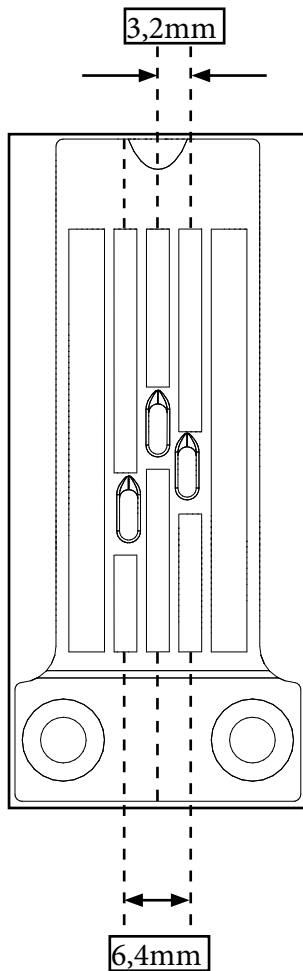
To adjust the movement of the feed dog loosen the 2 screws A and rotate the eccentric until get the correct movement a reference point can be as lower image.



8.3- Feed dog height adjustment



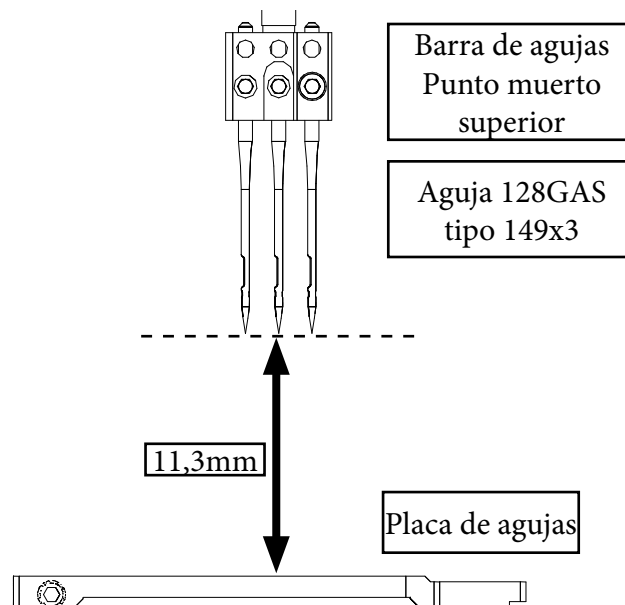
Check that the needles perfectly enter on the centre of the needle plate holes. In case of adjustment remove the frontal cover from the sewing head and loosen the needle bar clamp set on the needle bar. Centre the needles in comparison to the present holes in the plate needle. Tighten the screw in the Needle bar clamp.



1.1- Needle bar height

For the correct mechanical regulation of the needle bar height, verify that the distance between the needle plate and the tip of the needle when the needle bar is in the Upper dead point must be 11.3mm.

You can check as following:



8.4- Needle bar stroke



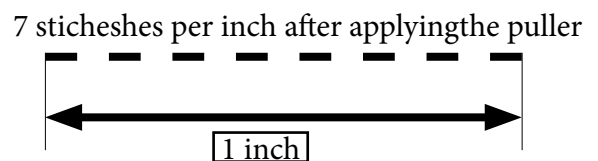
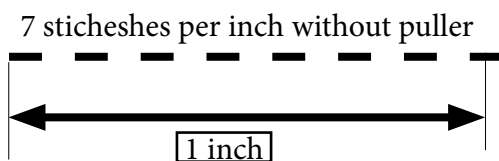
The needle bar stroke depends on the kit assembled on the unit:

STANDARD	=33.3 mm	Needle 149x3 Standar needle
LIGHT CONVERSION	=27mm	Needle 149x7 Short needle
HEVY CONVERSION (with eccentric pin)	=35 mm	Needle 149x5 Long needle

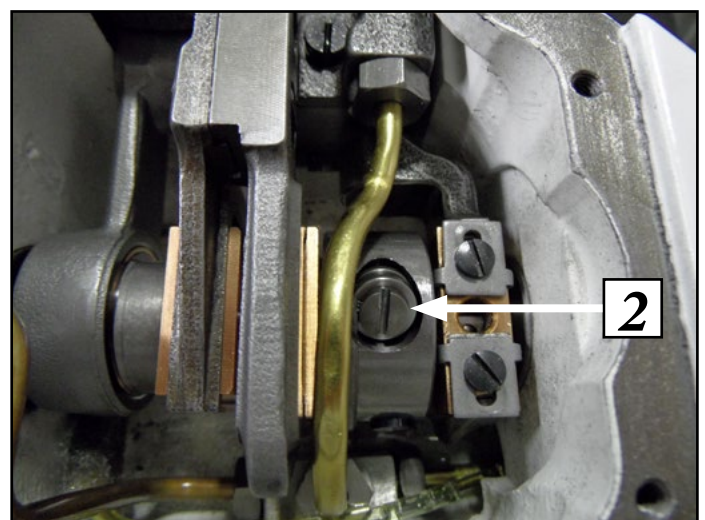
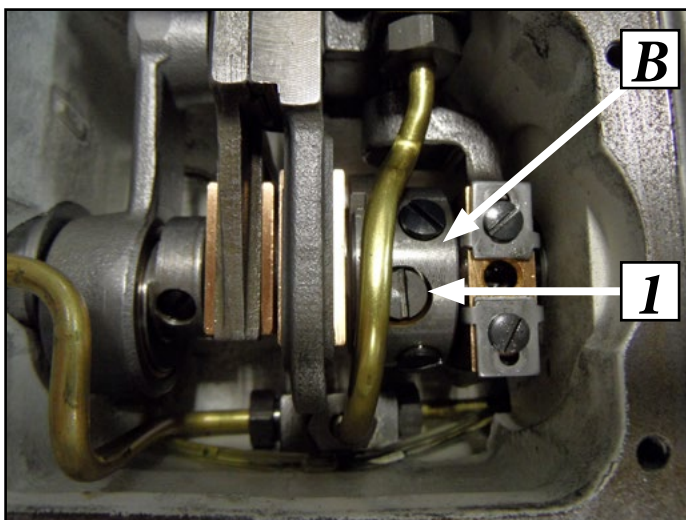
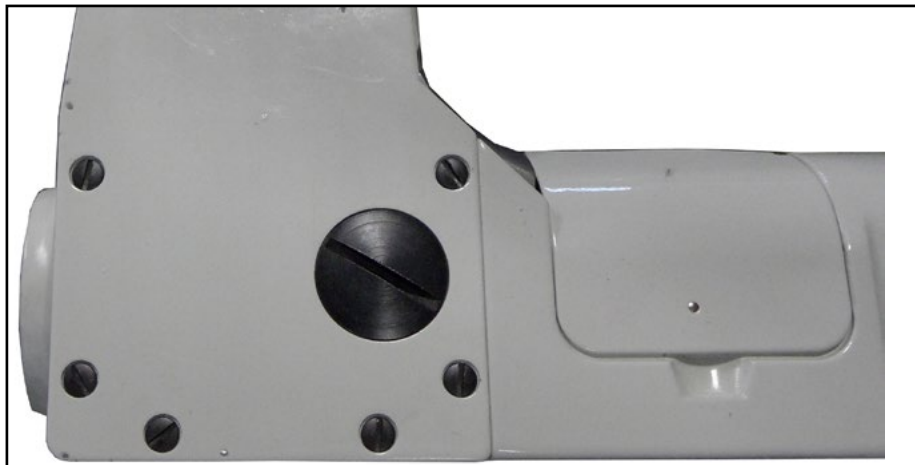
8.5- Stitch length

Loosen and remove the screw (A) fixed at the base of arm of the Unit. The eccentric (B) On it is present the stitch length adjustment. To change the stitch length:

Loosen the screw (1) and with the screw (2) regulate the stitch length at the desired measure; Unscrewing the screw (2) the point will be lengthened, screwing is shortened it. After the adjustment fix the screw (1) Verify the stitch length by testing the unit without the puller , once reached the desired measure insert the puller and if required we can slightly increase the stitch length increasing the puller speed.



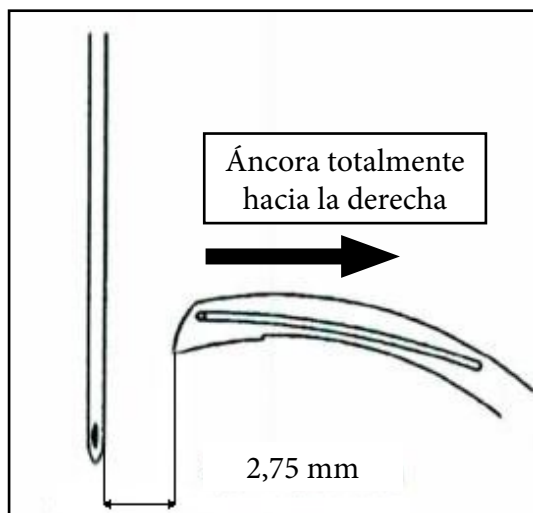
ATTENTION: AFTER CHANGING LENGTH ALWAYS ADJUST THE NEEDLE GUARD



8.6- *Looper distance from needle*



For the correct mechanical regulation of the Loopers, verify the distances among the mechanics parts as you represent in the following scheme:

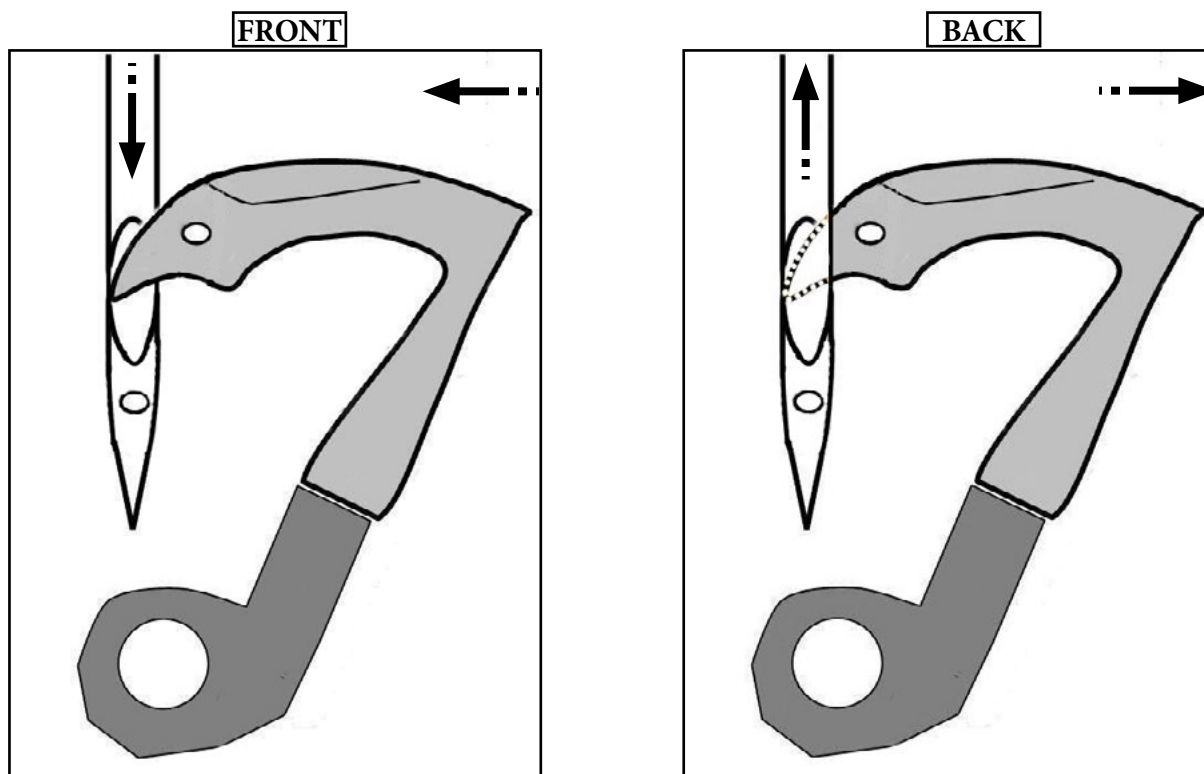


Coloque una llave allen 7/64 entre la aguja y el áncora

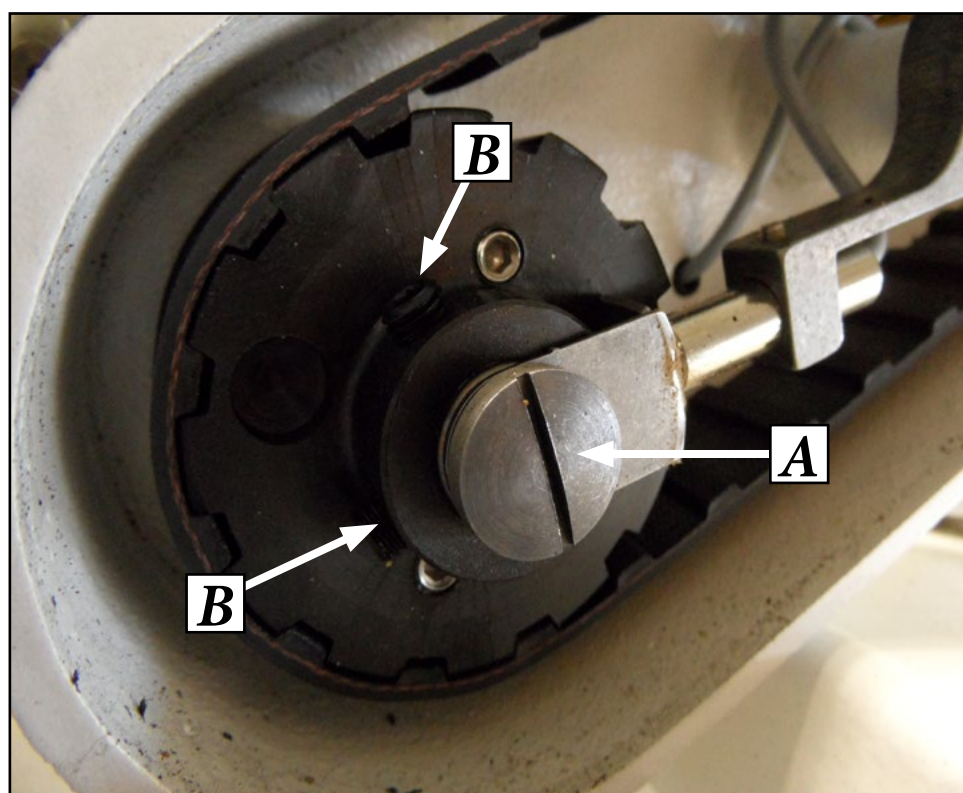
8.7- Upper and Lower meeting point



The correct timing between the looper and the needle is when the hole of the needle and the one of the looper meet in the front stroke and in the back one



To obtain this regulation loosen the central screw (A) and the 2 grab screws (B) of the lower gear and rotate the hand wheel until the synchrony is correct as explained above

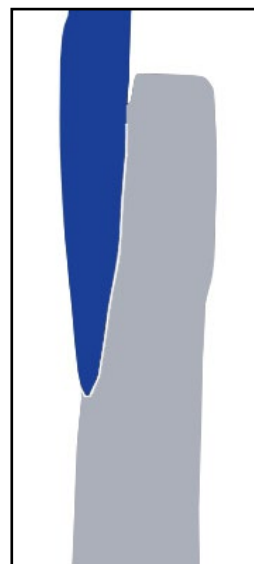
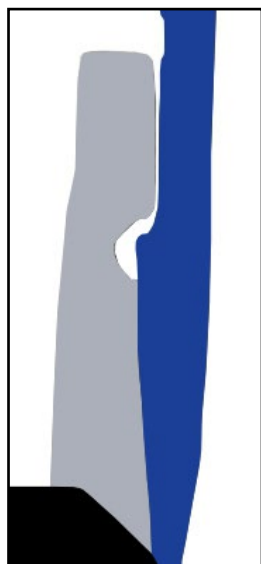


8.8- Loooper movement translation



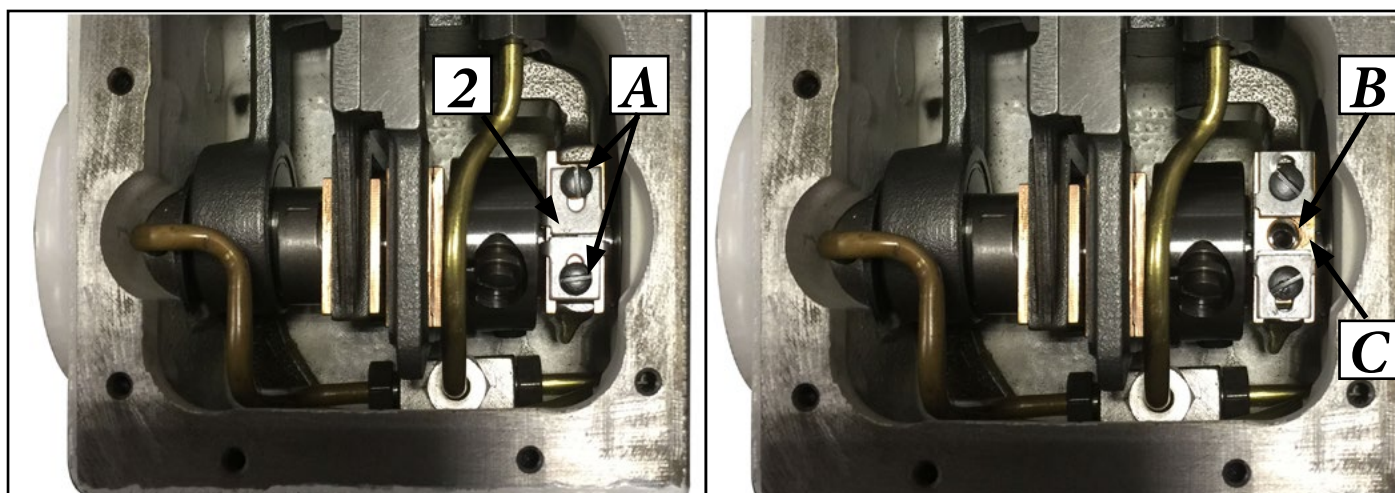
Adjust the Translation movement of the Loopers in base:

- at the needle size in use
- check that in the Superior Triangle (when the Loooper moves downward from left to right side and the needle moves from up to down point) that the Needle clearance between the Loooper reverse side and the tip of the needle has a space around 0.05 – 0.1mm maximum
- check that in the Inferior Loop (when the looper moves from right to left and the needle moves from down to up point) that the Needle clearance between the looper reverse side and the tip of the needle has a space around 0.05 – 0.1mm



To widen or to tighten the elliptic movement of the looper follow the following instructions:

- loosen and remove the wide screw on the cover you will see the two eccentrics fixed in the Inferior Shaft on the arm of the Unit
- the eccentric on the right side is to regulate the translation of the looper
- loosen the two screws (A) and open the eccentric covers
- turn the Wheel on the unit and with a screwdriver loosen the first grub screw (B) of 1/2 turn. (The grub screw must remain with a light friction to the eccentric inside)
- turn the Wheel on the unit and with a screwdriver loosen the second grub screw (C). While you press the screw driver to hold on in position the grub screw you turn the wheel to modify the translation movement
- rotating downward the wheel the movement is lengthened (less adherence between Loooper and needle)
- rotating upward the wheel the movement is shortened (more adherence between Loooper and needle)
- fix the first grub screw (C) and rotate the wheel until you can tighten the second screw (B)
- close the 2 cover-eccentric covers and fix their screws (A)

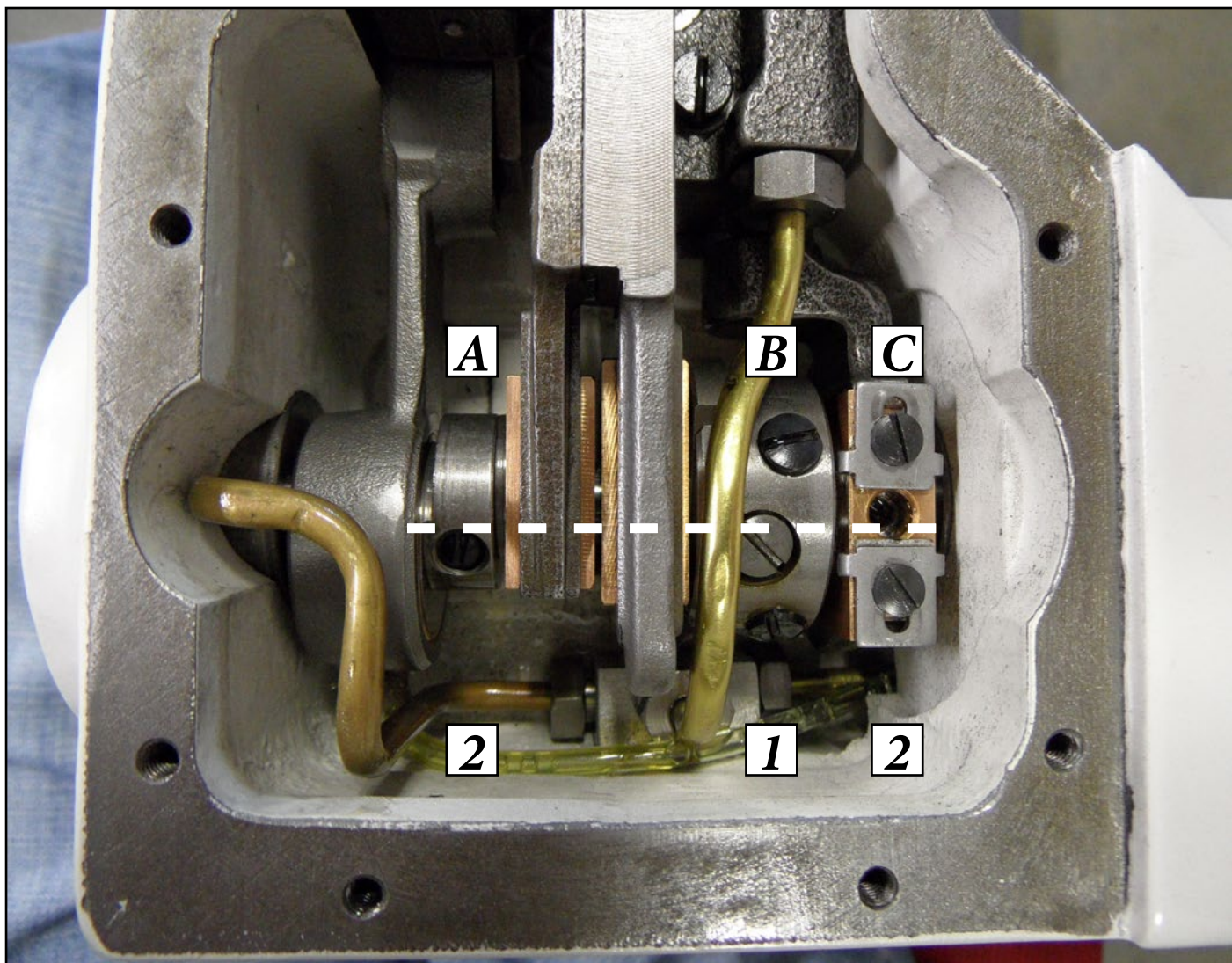


To have a starting reference point we use the lower image :

Eccentric A on the left side is our reference point as both the screws are fixed on a flat surface on the shaft .

Eccentric C is for the looper ellipse movement and has 2 screws

The 2nd screw in rotation sense of the C eccentric is positioned in line see below image



NOTE:

Every time the Looper elliptic movement is modified adjust again the Looper position.

This operation you need because the elliptic movement is not modify in symmetric way, but in the forward looper stroke is more closed respect the reverse looper stroke

8.9- Needle guard adjustment

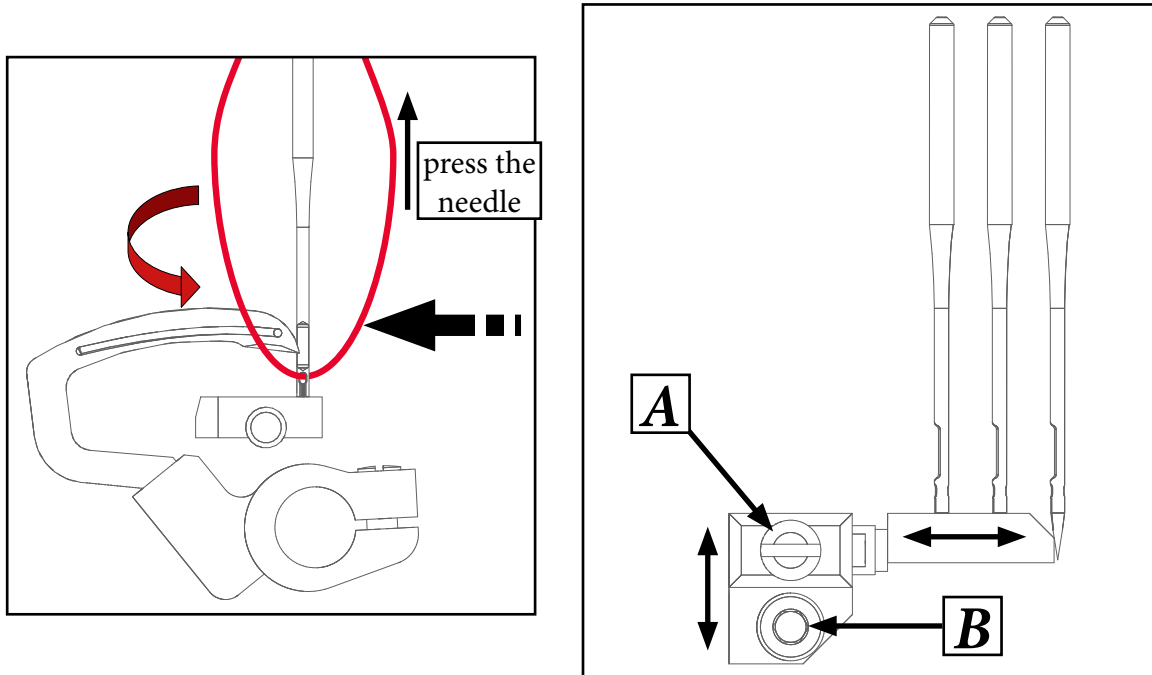
The Needle Guard is fixed with a screw, inside a slot, to lift/lower it.

Check that the upper side of the needle guard escapes from its support for around 1mm

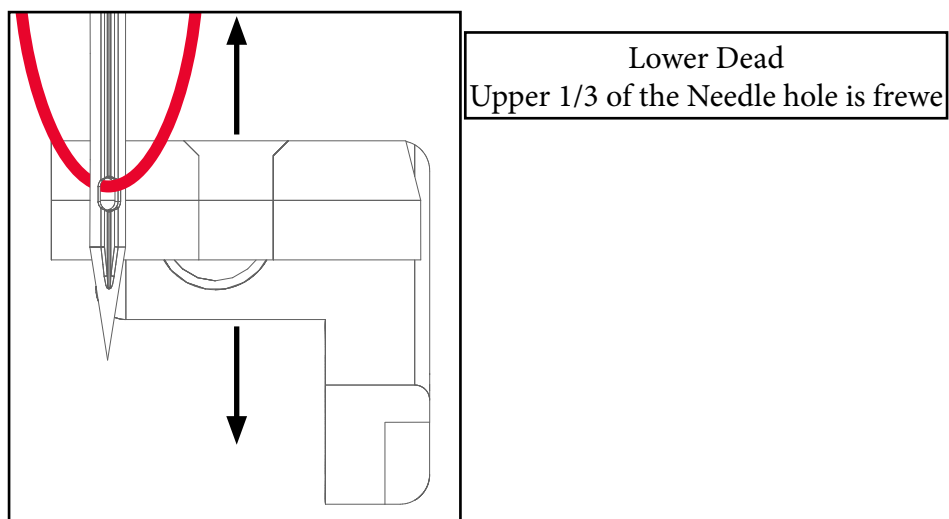
The whole group is fixed with the B screw, inside a slot, with a nut in the other side on the feed dog base.

The Needle guard is adjustable and it must be regulated according to the stitch length in use.

Verify that the needle when touches the needle guard, does a small flexion from the needle guard for around 0.2-0.5mm. Verify that the surface of the needle guard is cleaned and that no nail marks or malformations are present. Verify that the needles touch contemporarily in the same moment the needle guard during its movement from the Lower Dead Point to the Upper Dead Point.



Also check that the needle guard does not completely obstruct the thread eyelet when the needle starts to touch it. Loosen the fixing screws on the clamp and adjust the height. In case to slightly close the hole, lower the needle guard by the B screw.

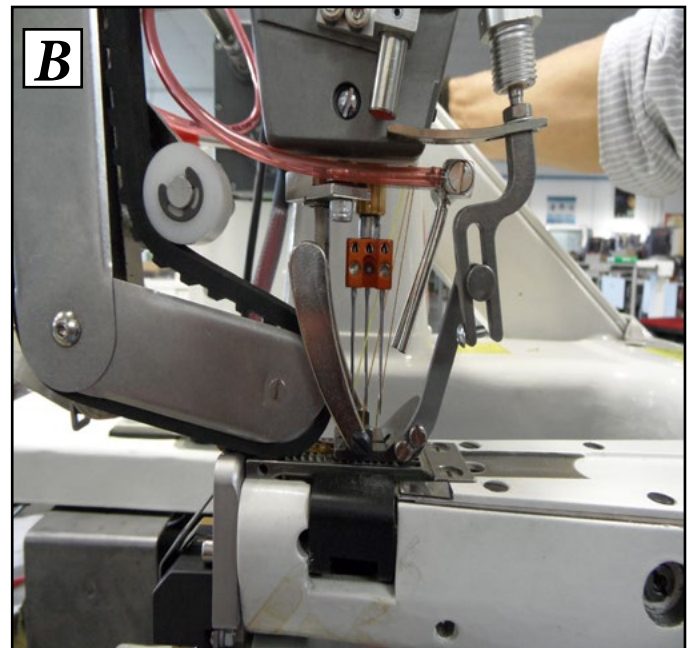
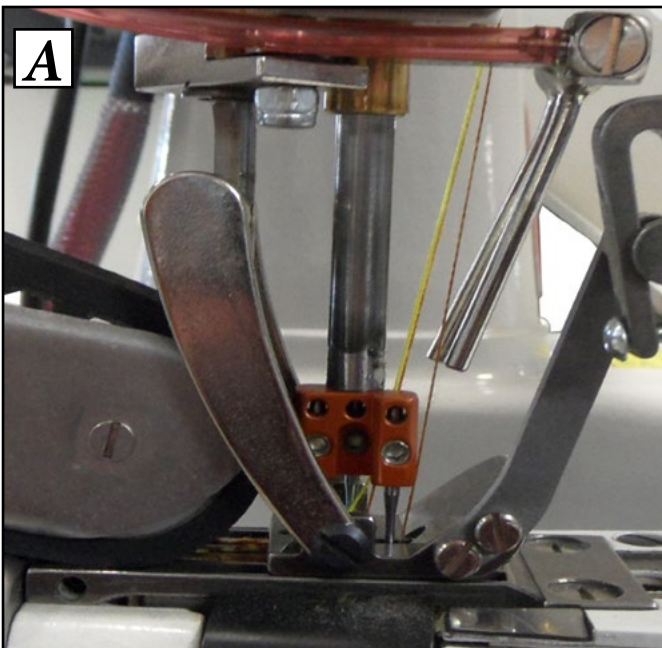
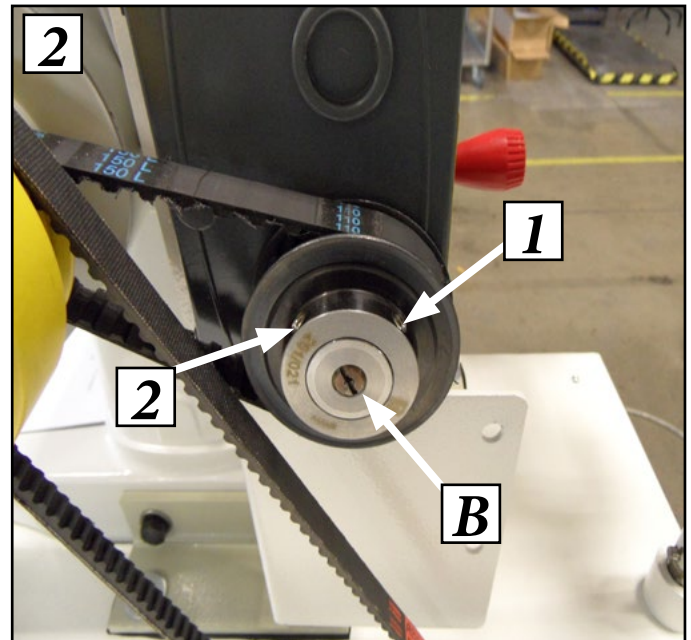
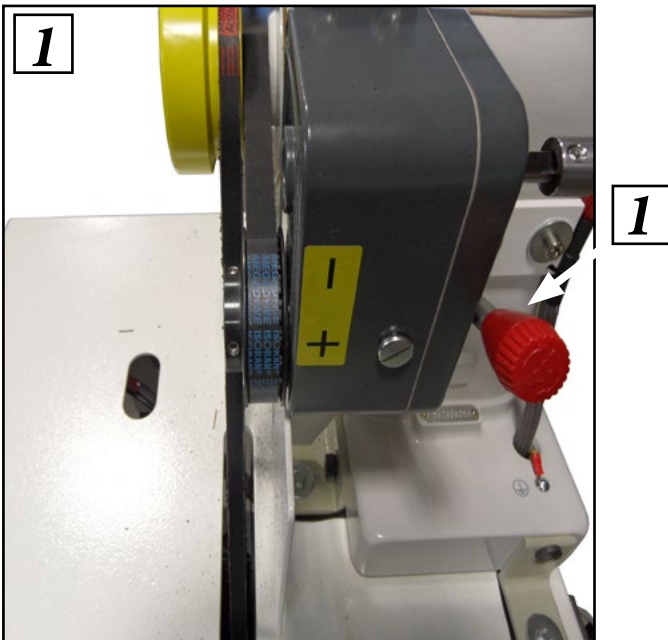


9. PULLER ADJUSTMENT



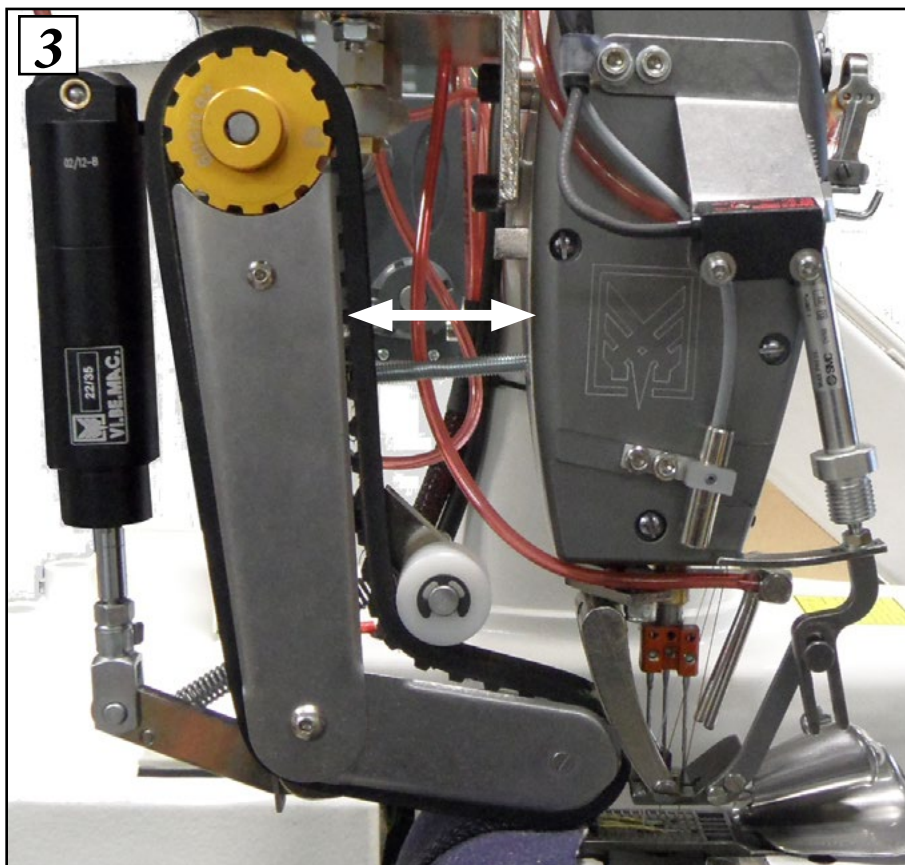
The lever 1 (image 1) is to increase or reduce the transport of the puller device. It is very important to synchronise the movement of the belt with the movement of the feed dog.

The feeding begins when the needle starts moving from Lower Dead Position upward stroke (image A) and it should be ensured that the Puller has stopped pulling before the needle enters the fabric (image B) on the downward stroke. Adjusting the puller belt timing, is possible loosening the grab screws (1 & 2 image 2) and turning the shaft of the puller using a screw driver and synchronizing the movement of the belt with needle bar.

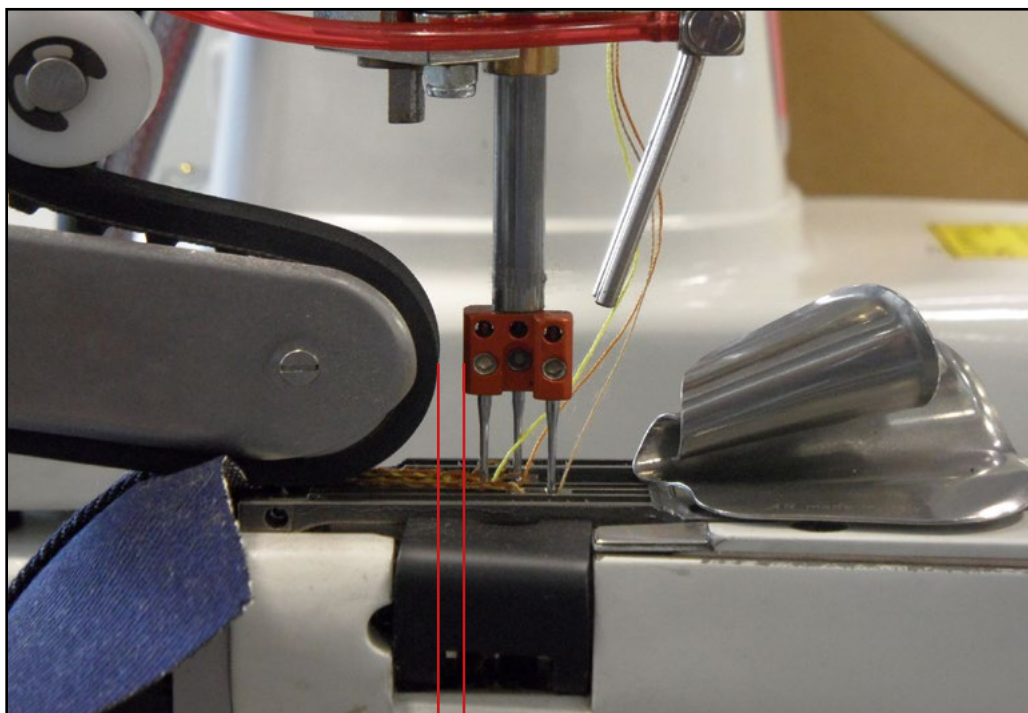


The material-pulling device (Puller) is set as close as possible to the needle clamp using the adjustment screw on it (image3).

To adjust the distance between the puller belt and the needle clamp screw or unscrew the end stroke bar.

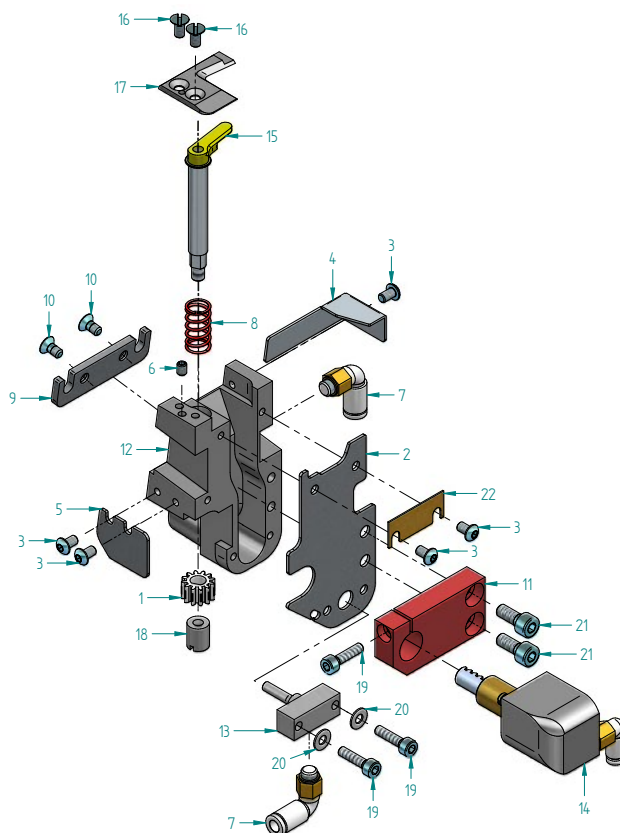


The correct belt position is 2,5 mm between the needle clamp and the belt with the needle bar in lower dead point.

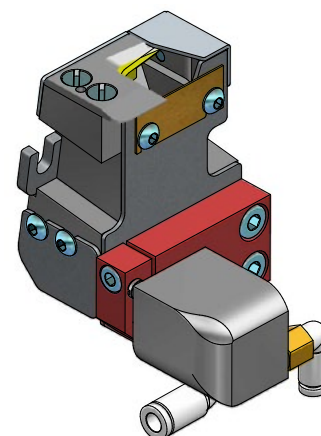


2,5mm

10. TRIMMER DEVICE REGULATION

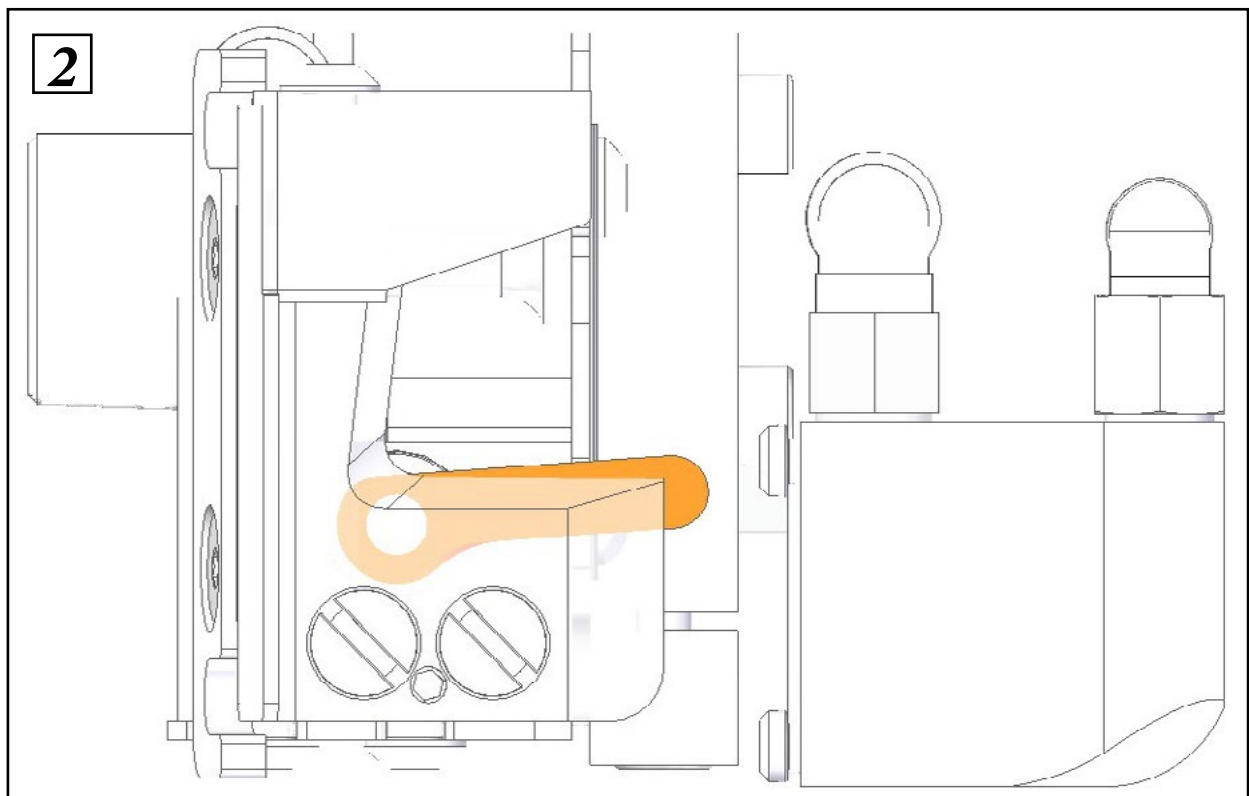
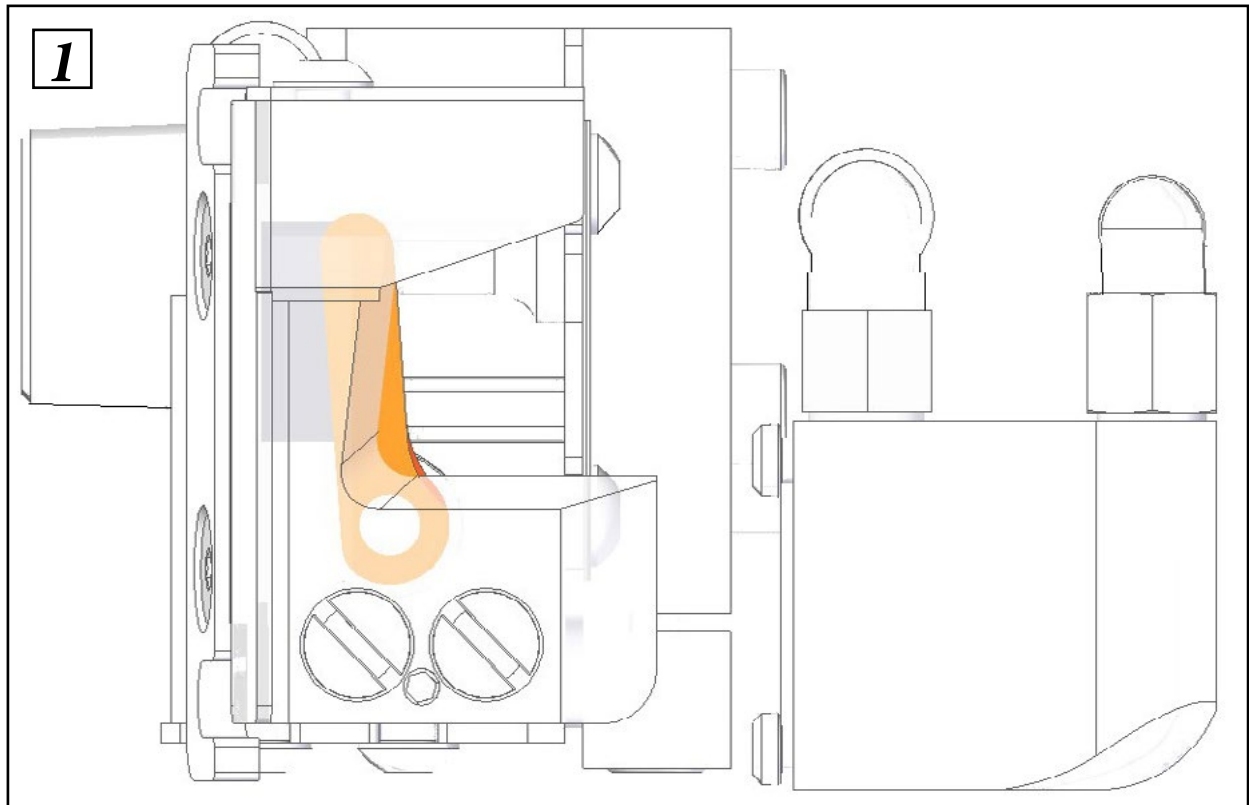


COD. COMPONENTE:		261KRAS-C	
DESCRIZIONE		GRUPPO RASAFILO CPL - MOD.C	
REVISIONE	0	DATA	20-02-2017

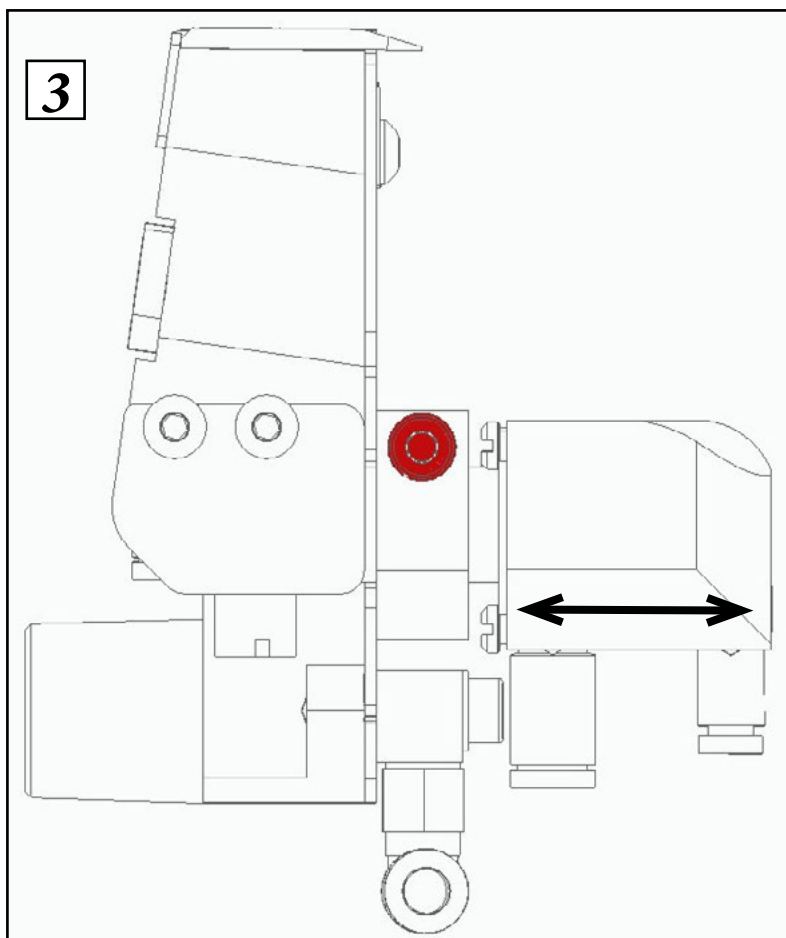


261KRAS-C				
Posizione	COD. COMPONENTE	REVISIONE	DESCRIZIONE	Quantità
1	1650-737	1	INGRANAGGIO	1
2	261-727	0	COPERTINA RASAFILO 261	1
3	TCBEI M3x5	1	VITE BOMBATA M3x5	5
4	261-731	0	COPERTURA RASAFILO 261	1
5	261-732	1	FERMO CREMAGLIERA	1
6	STEI M3x4G	1	GRANO M3X4	1
7	KQ2L04-M5	1	RACCORDO CURVO $\phi 4 - M5$	2
8	M0-8X8X16X6	1	MOLLA	1
9	261-740	0	SUPPORTO RASAFILO	1
10	TSPEI M3x6	1	VITE	2
11	261-739	0	CRAVATTA RASAFILO	1
12	261-730	0	CORPO RASAFILO 261	1
13	261-716A	0	UGELLO RASAFILO	1
14	261K733	0	GRUPPO CILINDRO RASAFILO	1
15	007K207C	0	GRUPPO COLTELLO MOBILE RAS 2261	1
16	VTS-041	1	VITE TS M3x6 TESTA STRETTA	2
17	261-729	0	CONTRO COLTELLO RASAFILO 261	1
18	VTS-052	0	VITE SPECIALE PER RASAFILO	1
19	TCEI M3x12	1	VITE	3
20	RM3	1	RONDELLA	2
21	TCEI M4x10	1	VITE	2
22	261-747	P01	261-747	1

the moving knife of the thread trimmer device is moved by a rack cylinder, the movement have to be adjusted like in the bellow pictures (1 and 2) and don't have to touch the sides when is fully open or closed.



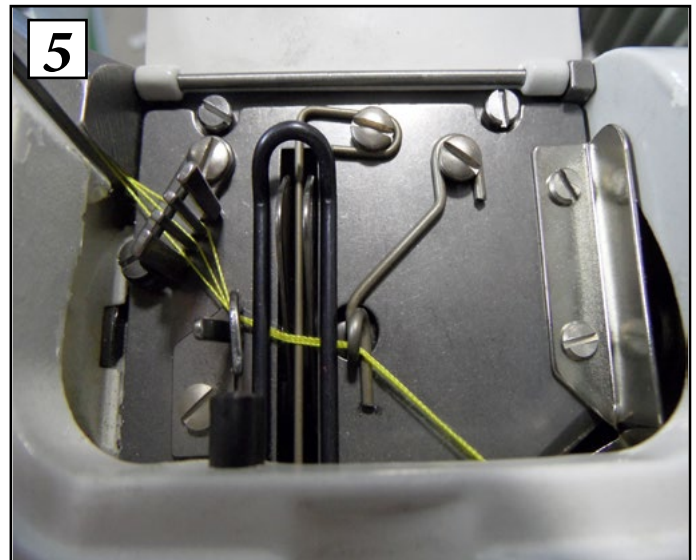
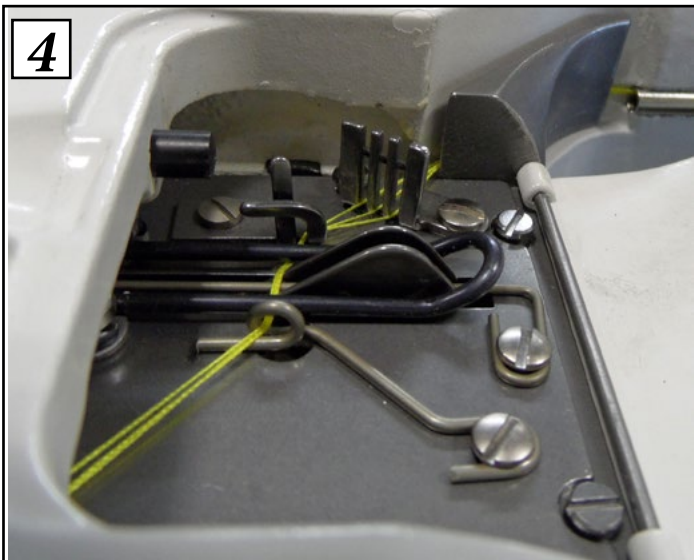
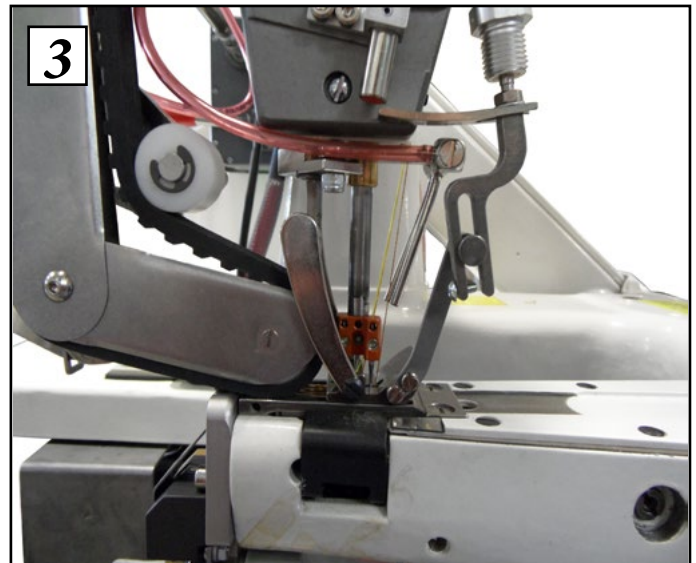
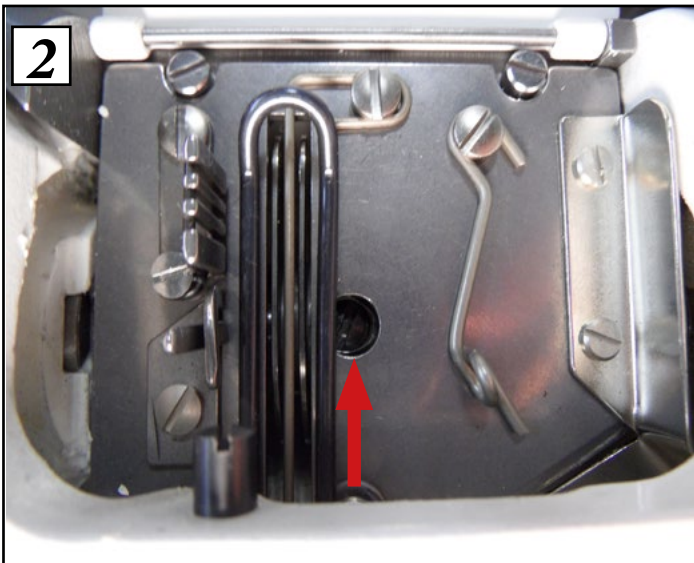
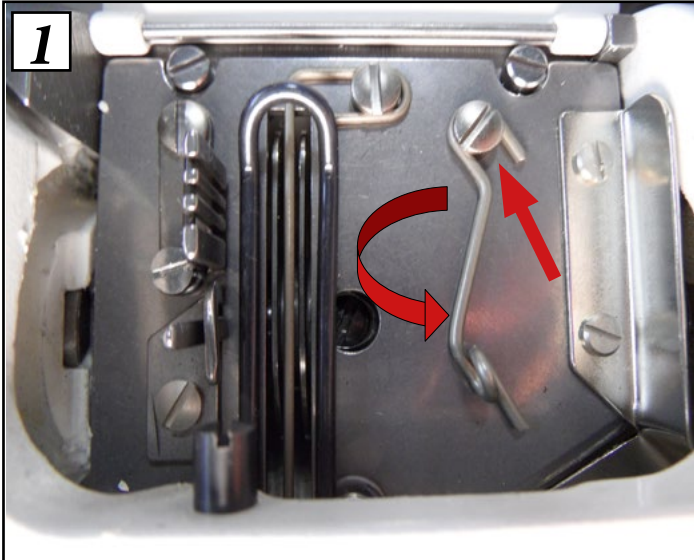
The adjustment of the moving knife position is made by losing the screw (picture 3)and moving the rack cylinder back or forward.



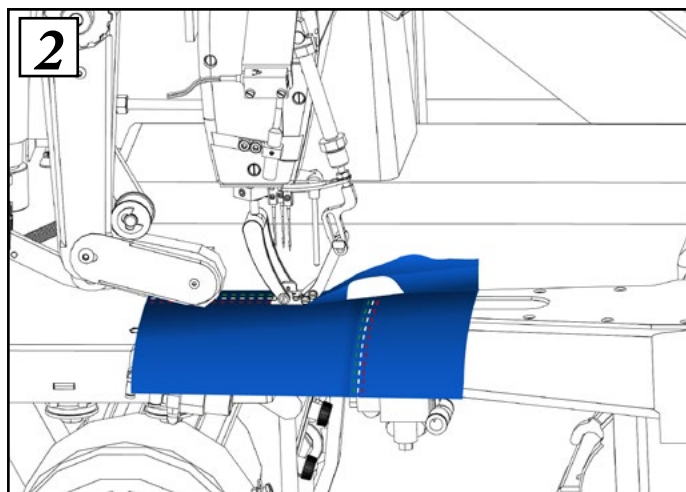
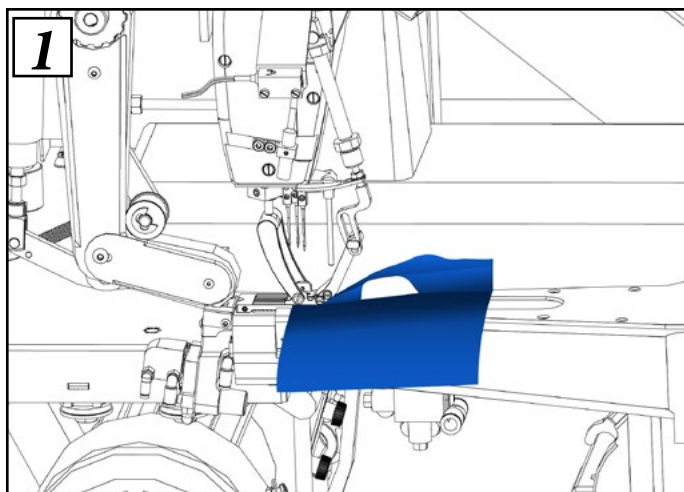


11. TAKE UP LOWER CAM ADJUSTMENT

1. Loosen the screws of the thread guide and move it a little (image 1)
2. Loosen the 2 screws of the CAM (image 2)
3. Position the needle bar at upper dead position (image 3)
4. Position the cam as, slightly pulling the threads (image 4)
5. Tighten again screws of CAM and re position the thread guide (image 5)



12. SEWING CYCLE PARAMETERS

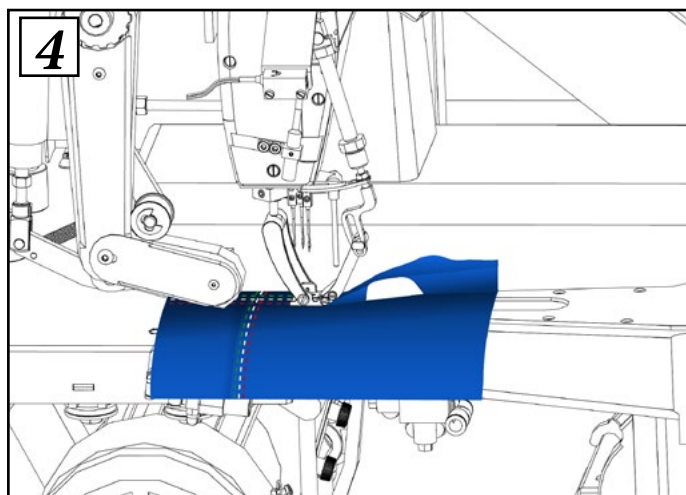
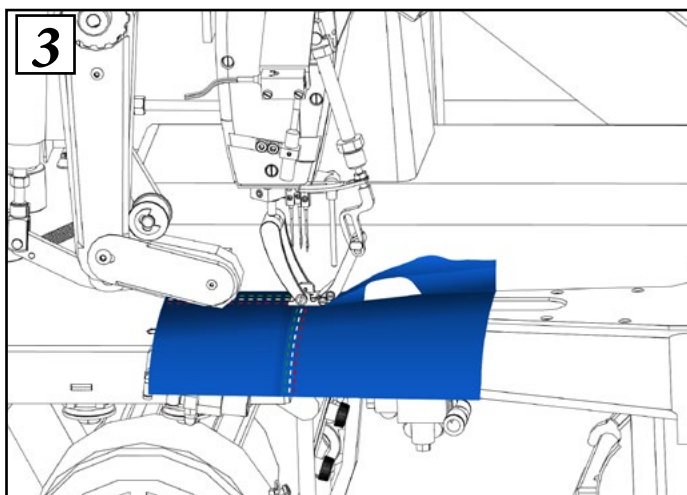


Sewing Start

High pressure on presser foot (3 bar)
programmable S mode ($\downarrow+B+D$)
Parameter K32 (standard value 12)
Suction programmable ($\downarrow+\uparrow+B$) F mode
parameter COB suction time from photocell OFF
Parameter COA initial cut

During normal sewing (without thickness)

Presser foot low pressure (1.2 bar)
High speed (4999 rpm)

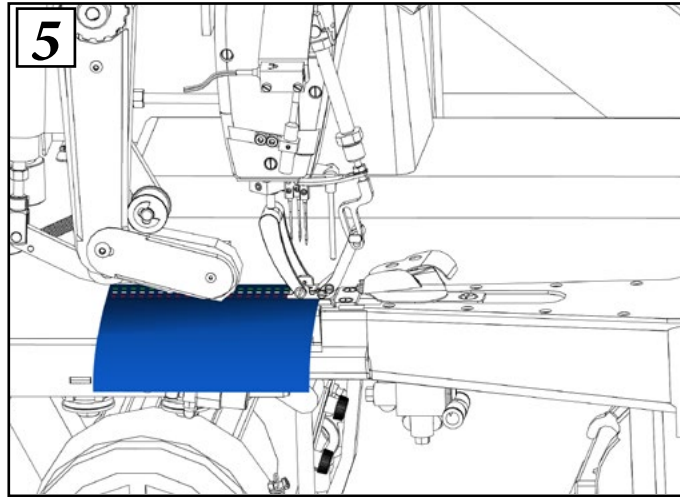


On crossing area

Presser foot high pressure (3 bar) & Low
speed (2500 rpm) programmable
($\downarrow+B+D$) K42 Duration (standard value 10)
Presser foot cylinder activation programmable
($\downarrow+B+D$) K11Delay (standard value 1)
K12 Duration (standard value 10)

After Crossing

Presser foot low pressure (1.2 bar)
High speed (4999 rpm)



Final funcion

After the photocell detects the end of the fabric the machine sil start the suction medium speed (2500 rpm)and final cut controlled by parameter **COC**
 F mode (↓ + ↑ + B)

13. MITSUBISHI MOTOR



The servomotor MITSUBISHI serves to check the speed of rotation and the position of the needles of the unit. The motor works with one phase 220 50/60Hz and has a power of 750 Watt.

13.1- Rotation setting

On the display appears:

□ 2 - 9 9
 ↑

The first symbol identify in which direction the motor rotation operate.

In case the first symbol is fixed it means that it is in action a situation of arrest of emergency.

13.2- Speed percentage setting

On the display appears:

□ 2 - 9 9
↑ ↑

The last two numbers identify the maximum speed percentage value that the Unit runs setting by H. Parameter in P mode.

Press the C and D keys to change the speed percentage value.

13.3- Speed value setting

On the display appears:

□ 2 - 9 9

Press the DOWN arrow key and the UP arrow key in the same time.

↑ + ↓

On the display is displayed:

□ □ P - P

Hold on the two keys until on the console is displayed:

H. - - - - = Setting the MAXIMUM speed value

With the D key are changed unites - With the C key are changed about ten - With the B key are changed hundreds - With the A key are changed thousand

Normally the value is set to 4999 rpm

Press the DOWN arrow key on the console is displayed:

L. - - - - = Setting the MINIMUM speed value

With the D key are changed unites - With the C key are changed about ten - With the B key are changed hundreds - With the A key are changed thousand

Normally the value is set to 220 rpm

Press the DOWN arrow key and the UP arrow key in the same time

↑ + ↓

On the display appears:

□ 2 - 9 9

13.4- Tets Input and Output

On the display appears:

□ 2 - 9 9

Press the DOWN arrow key and the UP arrow key and button A in the same time.
The following will then appear on the display:

P - E (E mode)

Keep the two buttons pressed down until this changes to:

1 - E

13.4.1- Input test

With the possibility to test them manually (BY RUNNING YOUR FINGER UNDER THE PHOTOCELLS OR COVERING THE SENSOR WITH SOME STEEL)

The following will then appear on the display:

I A. O F A input parameters = OFF

The INPUT value (ON/OFF) of parameter 1 is displayed.

By changing the relative input logic state (pedal – switch – sensor – photocell) the value changes from OFF to ON.

The normal factory-set parameters are as follows:

FUNCTION	DISPLAY
Pedal sewing position	IG
Pedal back position	II
Pedal second back position	IH
Presser foot sensor	I1
Photocell	I2

Press the DOWN arrow in order to proceed to a review of the desired parameters.

The following will then appear on the display:

E C A. x x Encoder motor phase A input parameter

The INPUT value (ON/OFF) of parameter E C A is displayed.

When the machine is sewing, the value constantly changes between ON and OFF.

Press the DOWN arrow. The following will then appear on the display:

E C B. x x Encoder motor phase B input parameter

The INPUT value (ON/OFF) of parameter E C B is displayed.

When the machine is sewing, the value constantly changes between ON and OFF.

Press the DOWN arrow. The following will then appear on the display:

U P. O N STOP position sensor reading input signal

The INPUT value (ON/OFF) of parameter UP is displayed.

Turning the pulley check if the value changes from ON to OFF and viceversa.

The following will then appear on the display:

D N. O F LOW thread-puller position sensor reading input parameter

The INPUT value (ON/OFF) of parameter DN is displayed.

Turning the machine synchronizer makes it possible to change it from on to off and viceversa.

13.4.2- Output test

While the machine is operating, it is possible to see the function and the signal changing from OFF to ON and viceversa.

The following will then appear on the display:

O A D. O F output signal 0 A = THREAD PULLER OFF

The OUTPUT signal value of the 0 A d parameter is displayed.

The normal factory-set parameters are as follows:

FUNCTION	DISPLAY
Air vacuum	oAd
Trimmer	oBd
Press foot point cylinder	oCd
Presser foot up	oFd
Presser foot high pressure	o1d
Needle cooling	o2d

Press the DOWN arrow

Display of all the OUTPUTS (TEST OUTS) with the possibility to test them manually by pressing button D on the console.

The following will then appear on the display:

o A o. o F

The OUTPUT signal value of the O A O parameter is displayed.

Press button D in order to change the value from OFF to ON.

The normal factory-set parameters are as follows:

FUNCTION	DISPLAY
Air vacuum	oAo
Trimmer	oBo
Press foot point cylinder	oCo
Presser foot up	oFo
Presser foot high pressure	o1o
Needle cooling	o2o

Press the UP and DOWN arrows at the same time in order to exit this mode

13.5- Resetting the panel values

On the display appears:

□ 2 - 9 9

Press the DOWN arrow key and B and C button in the same time.

The following will then appear on the display:

P - r (r mode)

R E S E T

Keep pressed D key in order to start the resetting cycle and keep it pressed DOWN until the writing flashes three times.

The following appears on the control panel display:

□ 2 - 9 9

13.6- Paramater list

Function Number	Mode	Digital	Function Name	Unit	MIN	MAX	2261HP
0000	P	H.	Maximum Speed	rpm	1000	4999	4999
0003	P	N.	Start Tacking Speed	rpm	0	3999	600
0004	P	V.	End tacking speed	rpm	0	3999	400
0005	P	M.	Medium speed	rpm	1500	2499	2000
0006	P	S.	Slow Start Speed	rpm	0	2999	850
0047	P	K8.	Reverse Run Angle From Down To Up Position	degree	0	360	224
0050	P	SNM.	Setting sensor "SEN" input function	-			OF
0051	P	KD.	Virtual down Setting	-			ON
0054	P	D8.	Needle Down Position Stop Angle	degree	10	180	40
0055	P	U8.	Needle Up position stop angle	degree	10	180	10
0102	A	AC.	Acceleration Time Simple Setting	-			L
0103	A	ACT.	Acceleration Time	x10msec	6	99	16
0110	A	MR.	Setting Motor Pulley Diameter	mm	20	349	106
0114	A	STM.	First priority stop → Speed Control	-			ON
0300	C	IA.	Function Selection Of Input Signal IA	-			NO
0303	C	IB.	Function Selection Of Input Signal IB	-			NO
0306	C	IC.	Function Selection Of Input Signal IC	-			NO
0309	C	ID.	Function Selection Of Input Signal ID	-			NO
0312	C	IE.	Function Selection Of Input Signal IE	-			ES
0315	C	IF.	Function Selection Of Input Signal IF	-			NO
0327	C	II.	Function Selection of input signal II	-			F
0339	C	IM.	Function Selection Of Input Signal IM	-			IOB
0342	C	IN.	Function Selection Of Input Signal IN	-			IOB
0357	C	I1.	Function Selection Of Input Signal I1	-			IOA
0358	C	I1L.	Logical Conversion Function of Input signal I1	-			ON
0370	C	I2.	Function Selection Of Input Signal I2	-			IO7
0390	C	OA.	Function Selection Of Output Signal OA	-			OTC
0395	C	OB.	Function Selection Of Output Signal OB	-			OTC
0400	C	OC.	Function Selection Of Output Signal OC	-			KS1
0405	C	OD.	Function Selection Of Output Signal OD	-			NO
0416	C	O1.	Function Selection Of Output Signal O1	-			OTB
0426	C	O3.	Function Selection Of Output Signal O3	-			NO
0431	C	O4.	Function Selection Of Output Signal O4	-			NO
0435	C	O5.	Function Selection Of Output Signal O5	-			NO
0453	C	ON.	Function Selection Of Output Signal ON	-			KS3
0477	C	A1.	Logic [And]Module A1 Input Function Selection	-			IO6
0480	C	N1.	Logic [And]Module N1 Input Functions Selection	-			OTA
0482	C	N2.	Logic [And]Module N2 Input Functions Selection	-			KS3
0483	C	N2L.	Logic [And]Module N2 Setting Of Hi/Low Logic	-			ON
0484	C	A2.	Logic [And]Module A2 Input Functions Selection	-			IOC
0487	C	N3.	Logic [And]Module N3 Output Functions Selection	-			OT7
0488	C	N3L.	Logic [And]Module N3 Setting Of Hi/Low Logic	-			ON
0489	C	N4.	Logic [And]Module N4 Output Functions Selection	-			OP
0491	C	A3.	Logic [And]Module A3 Input Functions Selection	-			IOC

Function Number	Mode	Digital	Function Name	Unit	MIN	MAX	2261HP
0494	C	N5.	Logic [And]Module N5 Output Functions Selection	-			KS2
0496	C	N6.	Logic [And]Module N6 Output Functions Selection	-			OP
0498	C	OR.	Logic [Or] Module Input Function Selection	-			SVM
0501	C	R1.	Logic [Or] Module R1 Output Function Selection	-			OT7
0502	C	R1L.	Logic [And]Module R1 Setting Of Hi/Low Logic	-			ON
0503	C	R2.	Logic [And]Module R2 Setting Of Hi/Low Logic	-			KS4
1000	H	LHH.	Upper Limit Of Maximum Speed [H]	x100rpm	0	99	50
1001	H	LHL.	Lower Limit Of Maximum Speed [H]	x100rpm	0	99	10
1006	H	LNH.	Upper Limit Of Start/End Tacking (Condensed Stitching) Speed	x100rpm	0	99	40
1008	H	LMH.	Upper Limit Of Medium Speed [M]	x100rpm	0	99	25
1009	H	LML.	Lower limit of medium speed [M]	x100rpm	0	99	15
1102	J	CWC.	Rotation Direction Changeover Prohibit	-			ON
1103	J	12C.	1-2 POSITION CHANGEOVER PROHIBIT	-			ON
1104	J	SLC.	Slow Start Changeover Prohibit	-			ON
1106	J	JKC.	Not Used	-			ON
1107	J	SBC.	Start Tacking Validity Changeover Prohibit	-			ON
1108	J	SNC.	N° Of Start Tacking Stitches Changeover Prohibit	-			ON
1109	J	EBC.	End Tacking Validity Changeover Prohibit	-			ON
1110	J	ENC.	N° Of End Tacking Stitches Changeover Prohibit	-			ON
1111	J	SKC.	Start Tacking Type Changeover Prohibit	-			ON
1112	J	EKC.	End Tacking Type Changeover Prohibit	-			ON
1113	J	TSC.	Pattern Stitching Validity Changeover Prohibit	-			ON
1114	J	TNC.	Pattern Stitching N° Of Stitches And Times Changeover Prohibit	-			ON
1115	J	MDC.	Pattern Mode Pattern Changeover Prohibit	-			ON
1117	J	BPC.	Prohibit The Teaching Mode Key Switches On Control Switch Panel	-			ON
1118	J	BSC.	Prohibit The Following Key Switches On Control Switch Panel	-			ON
1120	J	BKC.	Prohibit The Key Switches On The Control Switch Panel Before Thread Trimming	-			ON
1121	J	NSV.	The use number is preserved by the number call	-			ON
1339	O	I1.	Function selection of making I1 two input signal functions	-			IO9
1340	O	I1L.	Logical conversion function to make I1 two input signal functions	-			ON
1352	O	I2.	Function selection of making I2 two input signal functions	-			IO8
1430	Q	MOB.	Not Used	Stitches			5
1431	Q	MOC.	Not Used	Stitches			23
1500	S	KSM.	KS1, KS2 output run mode	-			ON
1501	S	SQS.	Simple Sequence Start Conditions	-			GO
1503	S	NS1.	Simple Sequence Output Ks1output Beginning Is Time Or The Number Of Stich Is Selected	-			ON
1504	S	NE1.	Simple sequence output KS1output is time or the number of stich is selected	-			ON

Function Number	Mode	Digital	Function Name	Unit	MIN	MAX	2261HP
1505	S	S1S.	Output Beginning Standard Of Simple Sequence Output Ks1	-			IN
1508	S	NE2.	Simple Sequence Output Ks2output Is Time Or The Number Of Stich Is Selected	-			ON
1509	S	S2S.	Output Beginning Standard Of Simple Sequence Output Ks2	-			IN
1512	S	NE3.	Simple sequence output KS3 output is time or the number of stich is selected	-			ON
1513	S	S3S.	Output beginning standar of simple sequence output KS3	-			IN
1515	S	NS4.	Simple sequence output KS4 output beginning is time or the number of the stich is selected	-			ON
1516	S	NE4.	Simple sequence output KS4 output is time or the number of stich is selected	-			ON
1517	S	S4S.	Output beginning standar of simple sequence output KS4	-			IN
1519	S	K11.	Ks1 Output Start [Time]/[N° Of Stitches] Setting	x10msec/ stitches	0	99	1
1520	S	K12.	Ks1 Output [Time]/[N° Of Stitches] Setting	x10msec/ stitches	0	99	10
1521	S	K21.	Ks2 Output Start [Time]/[N° Of Stitches] Setting	x10msec/ stitches	0	99	0
1522	S	K22.	Ks2 Output [Time]/[N° Of Stitches] Setting	x10msec/ stitches	0	99	25
1523	S	K31.	Ks3 Output Start [Time]/[N° Of Stitches] Setting	x10msec/ stitches	0	99	0
1524	S	K32.	Ks3 Output [Time]/[N° Of Stitches] Setting	x10msec/ stitches	0	99	12
1525	S	K41.	KS4 output start [Time]/[N° Of Stitches] Setting	x10msec/ stitches	0	99	0
1526	S	K42.	KS4 output [Time]/[N° Of Stitches] setting	x10msec/ stitches	0	99	10

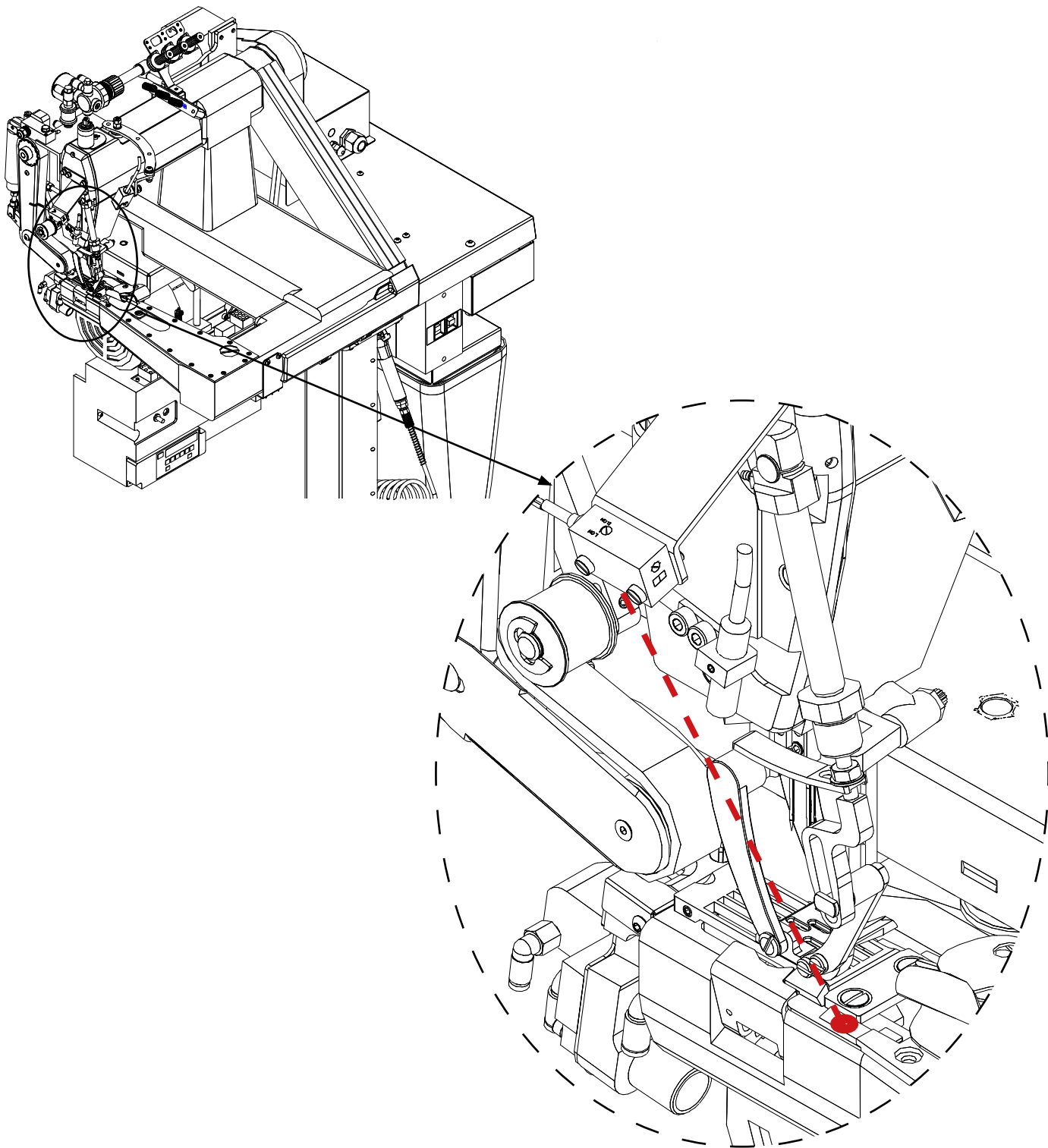
13.7- Error list

Error code	Probable cause	Inspection
P8r.oF	Is the power voltage too low? Is the power supply capacity too small? NOTE: It does this display when power supply is turned OFF, but this is not an error	Check the power voltage. Check the power supply capacity.
E1	Is the wire to the motor short-circuited? Is the sewing machine load torque too high?	Check the motor wiring. Check the sewing machine
E2	Is the power voltage too high? Is the sewing machine inertia too high?	Check the power voltage. Lengthen the deceleration time. (Refer to DC in [A] mode)
E3	Is the connector to the motor encoder securely inserted? Are the signal from the motor encoder correct? Is the sewing machine locked? Is the motor locked?	Check the connector insertion. Check the encoder signal. (Refer to [E] mode) Check the sewing machine. Check the motor.
E4	Is the motor connector securely inserted? Are the signal from the motor connector correct?	Check the motor connector insertion. Check the motor connector.
E6	Is an extraordinary signal inputted? (the signal as it repeats ON/OFF at the high frequency) Does the noise from outside enter an input signal	Check the input signal. Remove a noise source.
E8	Is the position detector connector securely inserted? Are the signal from the detector correct? (UP/DOWN signal interruption)	Check the detector insertion. Check the detector UP/DOWN signal. (refer to [E] mode)
E9	Is the solenoid wiring short-circuited? Solenoid defect (coil defect)	Check the solenoid wiring. Replace the solenoid.
M5	A error of the copy mode using the control panel. Is the control panel connector securely inserted? The voltage or the type of control panel is difference.	Check the connector insertion. Check the voltage and the type are right.
MA	The position data of the internal lever unit is defective. When power supply is turned ON. The pedal is not neutral position.	The pedal is neutralized. (it returns automatically 1 second later)

14. PHOTOCELL



The photocell should be adjusted so that it points the underlying reflecting plate to adjust the inclination, loosen the two screws that fix it to the bracket and move it slightly so that the green light is on, when the fabric is positioned, both lights must be on.



15. SENSOR ADJUSTMENT



The presser foot compensating system is activated by a N/C sensor that has to be regulated in this way:

15.1- Flat sewing

On a flat sewing the detector must be at the edge of the sensor (image1) in this condition the pressure of presser foot is low.



15.2- Crossing area

In this position the presser foot rises and the detector covers the sensor (image 2) activating it, giving high pressure on the presser foot and after a few stitches also the presser foot point cylinder will activate.



After crossing the thick area the sensor returns OFF and the pressure of the presser foot LOW.

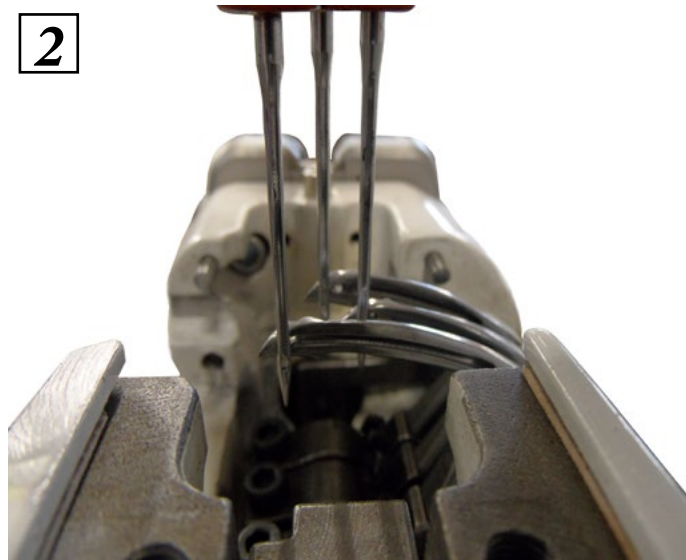
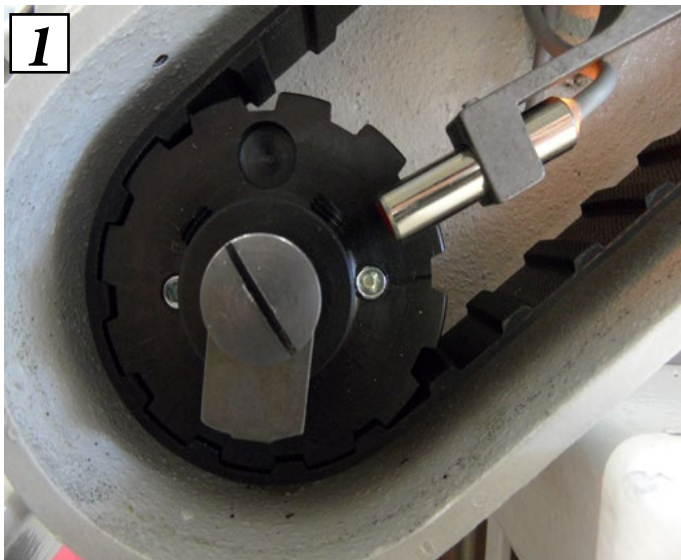
16. STOP POSITION



NEEDLE LOW

This unit has 2 STOP positions:

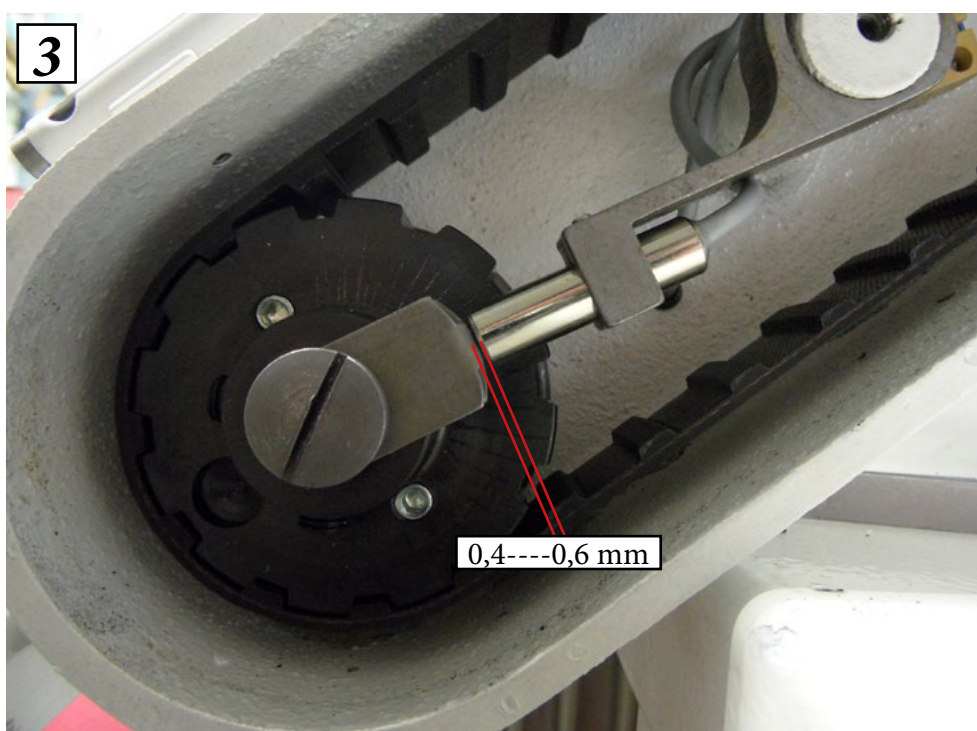
1. STOP position is when the machine stops after releasing the pedal and the loopers have already entered the thread (as image 2) and in this position the detector is facing down (as image 1)



NEEDLE HIGH

2. Back pedalling the machine stops in STOP position with detector as image 3 and needle bar in upper dead position.

To adjust correctly the stop position sensor, position the detector in the center of the sensor keeping a distance of 0,4 ▶ 0,6 mm. (as image 3)

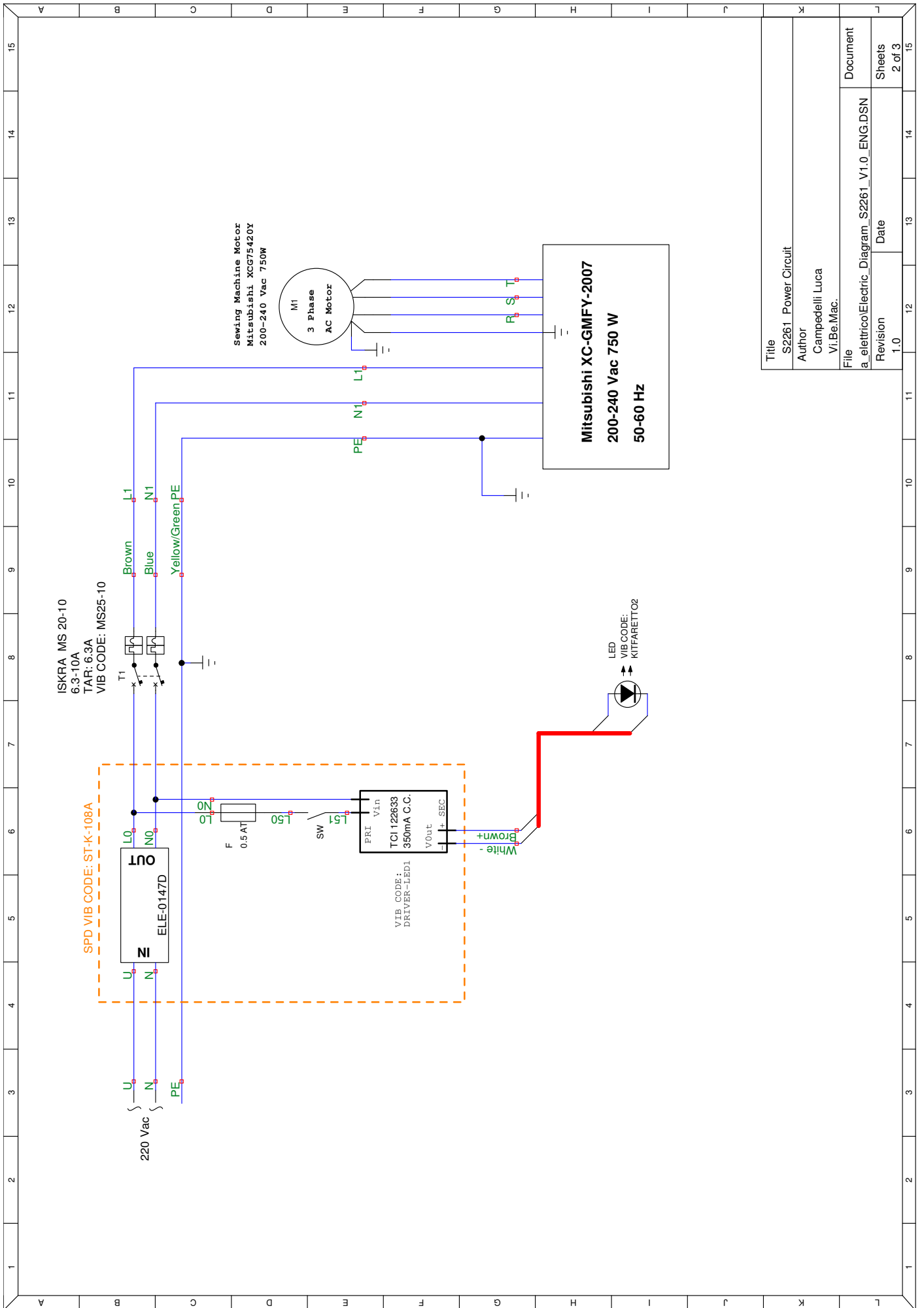


Electric diagram S2261HP

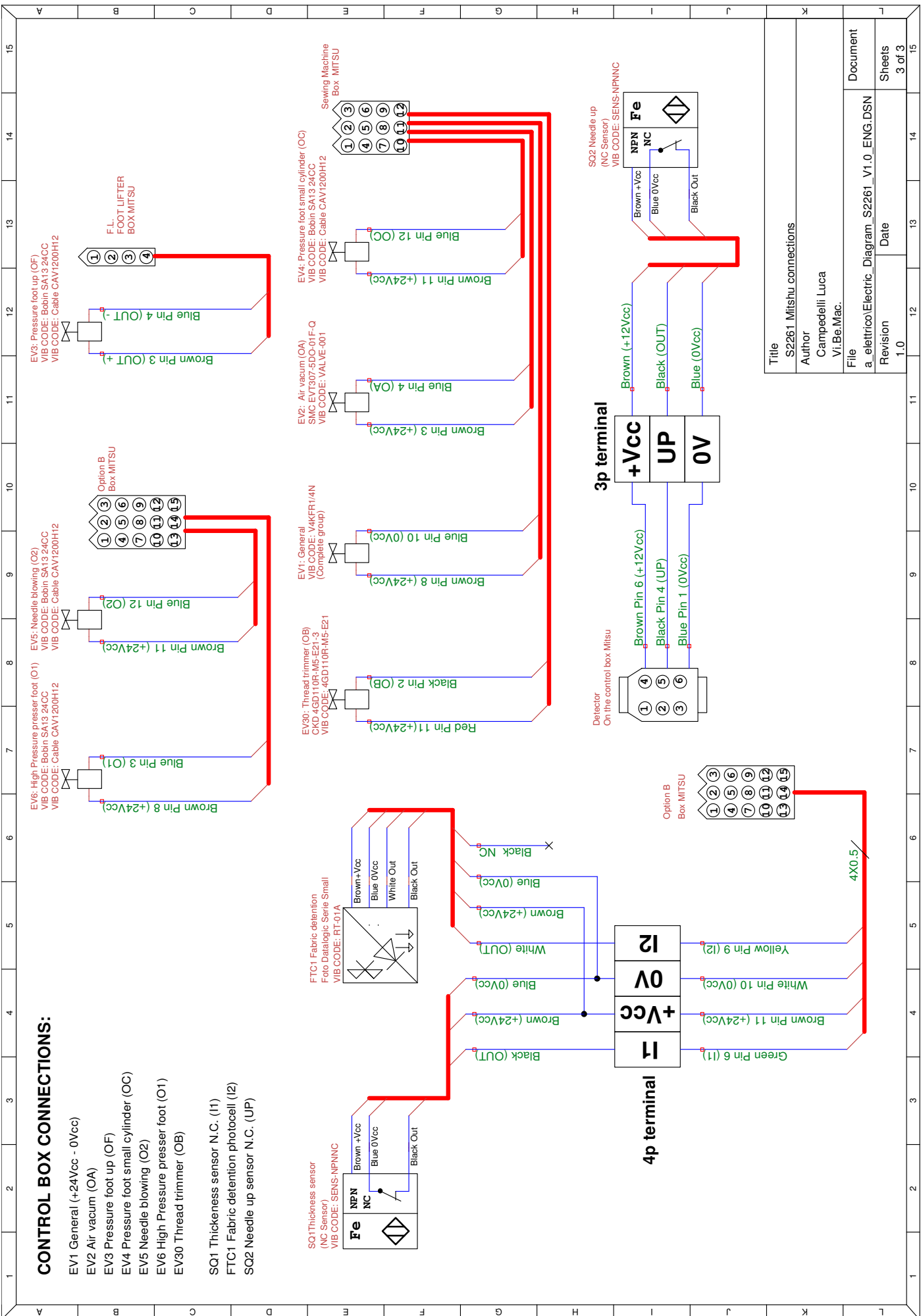


V1.0

Title	S2261HP	Document
Author	Vi.Be.Mac.	Document
File	a_elettrico\Electric Diagram_S2261_V1.0_ENG.DSN	Document
Revision	1.0	Revision
Date		Date
		Revision
		1 of 3
		15



Title	S2261 Power Circuit
Author	Campedelli Luca
File	a_elettrico/Electric_Diagram_S2261_V1.0_ENG.DSN
Revision	1.0
Date	
Document	
Sheets	2 of 3



CONTROL BOX CONNECTIONS:

- EV1 General (+24Vcc - 0Vcc)
- EV2 Air vacuum (OA)
- EV3 Pressure foot up (OF)
- EV4 Pressure foot small cylinder (OC)
- EV5 Needle blowing (O2)
- EV6 High Pressure presser foot (O1)
- EV30 Thread trimmer (OB)
- SQ1 Thickness sensor N.C. (I1)
- FTC1 Fabric delation photocell (I2)
- SQ2 Needle up sensor N.C. (UP)

Title	S2261 Mitshu connections
Author	Campedelli Luca
File	Vi.Be.Mac.
Revision	1.0
Date	
Document	a_elettrico\Electric_Diagram_S2261_V1.0_ENG.DSN
Sheets	3 of 3

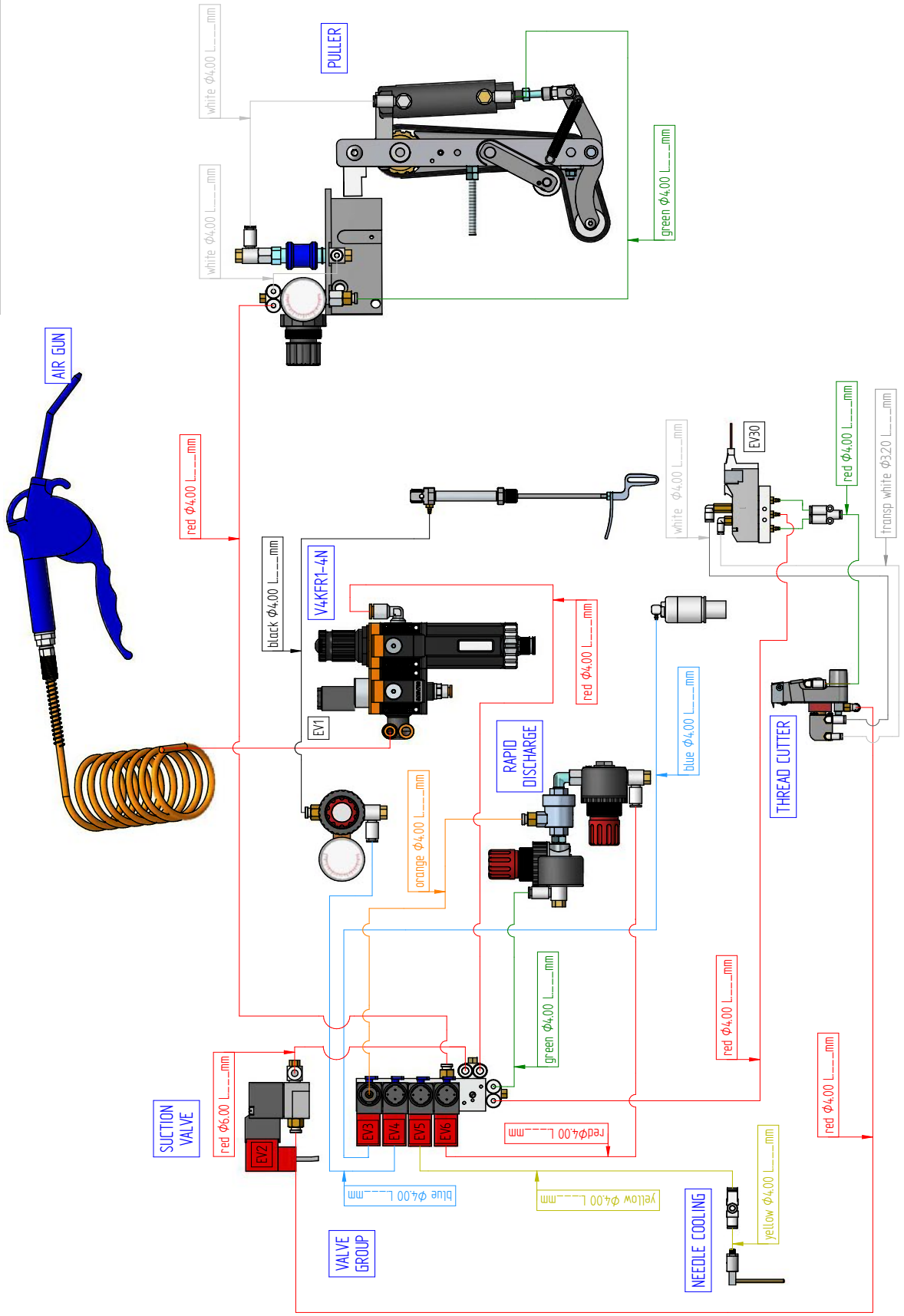
17. PNEUMATIC DIAGRAM

17.1- Topographic Pneumatic Diagram

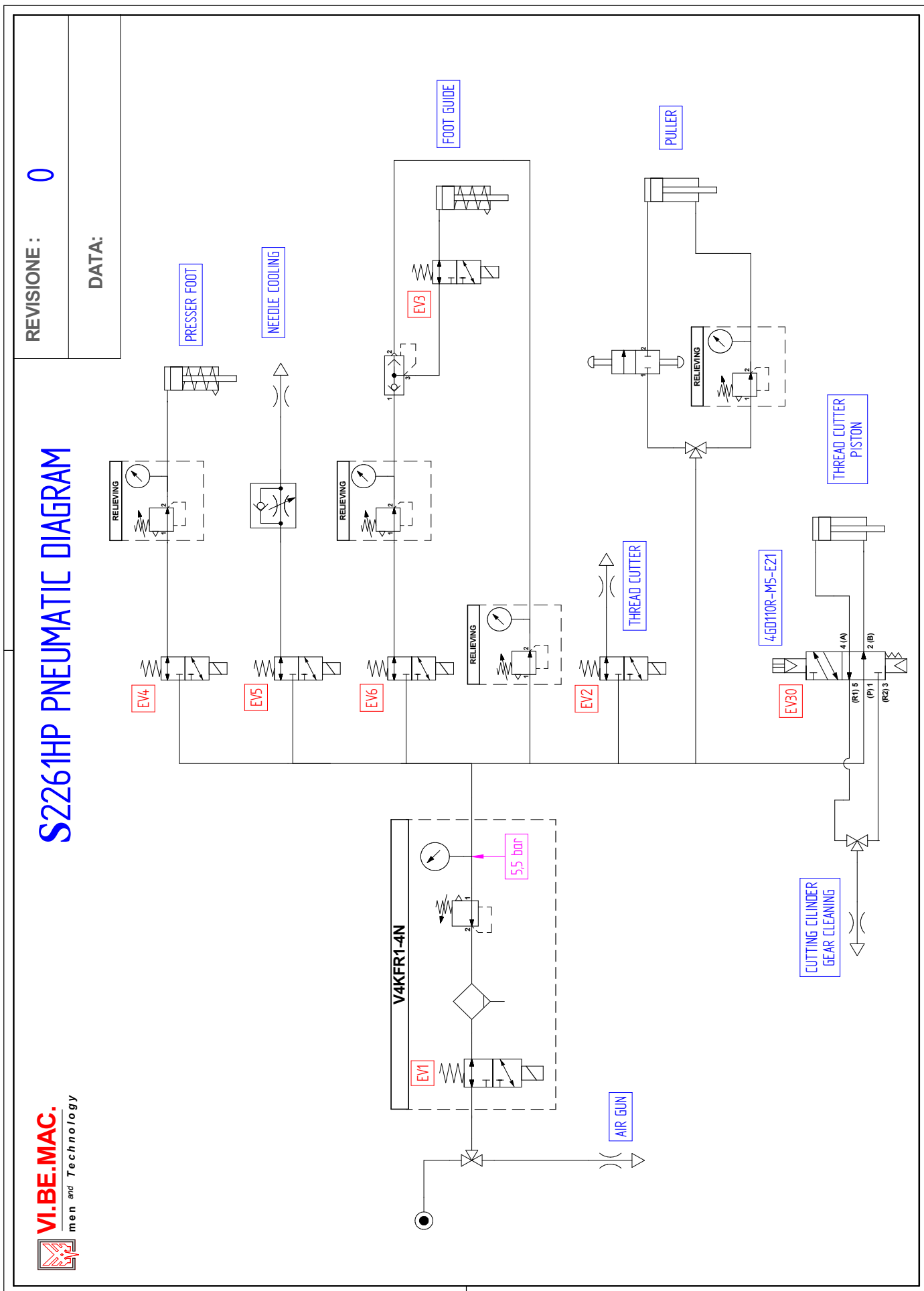
S2261HP PNEUMATIC DIAGRAM

REVISIONE :

DATA:



17.2- Technical Pneumatic Diagram



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