

FROMM

**AUTOMATIC
Cutting device
Series FS400 / FS401 / FS402 / FS403**

Item No FS4.0146
 Rev.02

Installation Instr FS4.0146.05.EN02 / © 09/16

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B Opgelet!

Leest U in elk geval de gebruiksaanwijzing, vooraleer de machine wordt opgesteld, geïnstalleerd en in gebruik genomen wordt. Daardoor zorgt U voor Uw eigen veiligheid en vermijdt U schade aan Uw machine.

D Achtung!

Lesen Sie unbedingt die Gebrauchsanweisung vor Aufstellung-Installation-Inbetriebnahme. Dadurch schützen Sie sich und vermeiden Schäden an Ihrem Apparat.

D OBS!

De bør absolut læse bruganvisningen, inden maskinen opstilles, installeres og tages i brug. Derved beskytter De Dem selv og undgår skader på maskinen.

E Atención!

Resulta imprescindible leer las Instrucciones de manejo antes de proceder al Emplazamiento/ Instalacion/Puesta en servicio del aparato, con objeto de protegerse a si mismo y evitar el deterioro de la máquina debido a un manejo incorrecto.

F Attention!

Lisez impérativement le mode d'emploi avant l'installation/la mise en service. Vous vous protégerez ainsi et éviterez des détériorations sur votre appareil.

GB Important!

Read the operating instructions carefully before installation and before using this machine for the first time.

You will avoid the risk of causing harm to yourself or to your machine in this way.

GR Προσοχή!

Πρίν την εγκατάσταση, σύνδεση και αρχική λειτουργία της συσκευής διαβάστε προσεκτικά τις οδηγίες χρήσης.

Έτσι προστατεύετε τον εαυτό σας και αποφεύγετε πιθανές βλάβες συσκευής.

I Attenzione!

Leggere assolutamente le istruzioni d'uso prima di procedere a posizionatura – installazione - messa in funzione. In questo modo ci si protegge e si evitano danni all'apparecchio.

N NB!

De må lese bruksanvisningen før oppstilling, installasjon og start av maskinen! Gjør det for å unngå skade på Dem selv og maskinen.

NL Let op!

Lees beslist de gebruiksaanwijzing voor het plaatsen, installeren en in gebruik nemen van uw machine. Dat is veiliger voor Uzelf en U voorkomt onnodige schade aan Uw machine.

P Atencão!

Leia as instruções de utilização antes da montagem - instalação e - primeira utilização. Assim evita avarias no aparelho.

S OBS!

Läs bruksanvisningen noga före uppställning, installation och användning. Ni förebygger därmed olycksrisker och undviker skador på maskinen.

FIN Huomio!

Tutustukaa huolellisesti käyttöohjeeseen ennen laitteen asennusta ja käyttöönottoa. Näin välttytte mahdollisilta vahingoilta käyttäessä konetta.

GENERAL

- This manual is only intended for a automatic cutting device, mentioned at page one, as delivered by FROMM Stretch Wrapping Division.
- FOR EVERYTHING IN THIS MANUAL IS VALID, IF APPLIED!
- For safety reasons the entire instruction manual should be read before setting in operation the machine/installation, solving failures and executing maintenance.
- We particularly draw your attention to the chapters **SAFETY INSTRUCTIONS** and **WARNINGS** which point out the intended use and unsafe situations that could not be prevented in the design and manufacture of the wrapping machine.
- It is strictly prohibited to tamper with the machine It is prohibited to feed the machine with unforeseen, corrosive or inflammable products since the machine is not the explosion-proof type.
- The duration of guarantee is provided the following are observed: the use for which the machine was designed, built and protected, in addition to recommendations, information - including matters of general knowledge - details plus the safety and health technical limits notified to by the Manufacturer to the User by virtue of the operating use.

We cannot accept any claim for warranty if non-original spare parts are utilized.

- If the machine is used beyond its operating limits and if the manufacturer's features are altered in any way, such use is considered **improper**. In this case **MANUFACTURER** is relieved of any liability for injury/damage caused to people/property due to failure to comply with these guidelines.
- For all the aforementioned reasons, we recommend that our customers always notify the Service Department.

SERVICE DEPARTMENT

Please contact, in case of problems:

SPARE PARTS

Spare parts can be ordered from:

SAFETY INSTRUCTIONS

ATTENTION!

The following conditions have always to be satisfied, unless otherwise indicated in other instructions in this manual.



- This product has been delivered by FROMM Stretch Wrapping Division and may only be applied for FS400 / FS401 / FS402 / FS403 wrapping machines.
Any other use of this product as for the described purpose may cause danger due to damage to the machine and/or the safety of the operator or other persons in the neighbourhood of the machine.
- Read this manual carefully before using the machine
- This product is not fit with components that involve special decommissioning problems.
- In any case all the components must be disposed of by scrupulously complying with the corresponding laws in force in the country in which the machine is used, and only by qualified persons who are capable of assessing possible risks.
- Only personnel trained for the purpose may operate the machine
- Use the emergency stop to halt the machine immediately
- Only trained electricians may perform electrical work on the machine
- When installing the option / machine, as a precaution, always check that the controls and safety systems are correctly mounted and operating efficiently. If any malfunctions are noted, immediately stop the production cycle and ask the authorized technical service to intervene
- Examine the data-plates. If they are in poor condition, replace them with utmost urgency, strictly and directly contacting the authorized technical service or the Manufacturer
- The requirements, as mentioned in chapter **MAINTENANCE INSTRUCTIONS** should be satisfied during adjustment and maintenance activities
- People should not step on to means of transport, unless indicated clearly otherwise
- People should not find themselves above the means of transport
- Do not place tools and components on the machine
- Safety devices should not be bridged and put out of operation
- The manufacturer will only make the machine ready for operation, when the electrical main connection satisfies the standards applicable in the country of delivery

SAFETY INSTRUCTIONS

- The supplier will do the training of the operating personnel. If not, the training will have to be done properly by the company that takes care of the installation.
- This option is designed and implemented conforming to the safety laws in force. Consequently, no intrinsic fire risks are envisaged when the machine is used normally
- As such, the equipment provided against the possibility of **fire outbreaks** inside the company are sufficient for any problems caused by the material used for the process
- In the event a fire breaks out and fire extinguishers are used, it is recommended that extinguishers filled only with CO2 be used, so as not to damage both the equipment on the machine and the wiring system
- In the event of **flooding**, it is compulsory that all the power supplies be disconnected before entering the room in which the machine is installed
- In the event the wrapping machine was subjected to a flooding, contact the Customer technical service of MANUFACTURER
- You are strictly recommended not to work in the machine while wearing unsuitable clothing (unbuttoned, ample garments) or personal objects (bracelets, watches, rings, etc.)

WARNINGS

- The mean weighed noise level of the machine is less than 80 dBa. It is possible that, depending on the applied film, during wrapping of the pallets incidentally a noise level with a maximum of 80 dBa will be measured. Carrying of noise protecting devices is advised.
- One has to reckon with the possibility that the film (roll) contains an electrostatic charge.
- Utmost caution has to be taken with respect to the complete electrical installation. ONLY trained persons may carry out activities to it, after having taken the required safety measures as mentioned in the chapter **SAFETY INSTRUCTIONS**.
- One has to reckon with the European safety requirements and standards if the machine has to be adapted and thus safety measures or protection covers also have to be adapted.
- Touching the electrical equipment will hazard your personal safety.
- Persons who carry out changes in or adaptations (function, operation or principles) to the machine are fully responsible for those changes and/or adaptations.
- All relevant safety measures should be taken when carrying out any activity on the machine, especially during maintenance activities and solving failures.
Take care that the main switch is switched off (position "0") and locked (If possible), or that the power cable is disconnected in order to prevent other persons in putting in action the machine during your activities.
All the normally valid safety measures or customs with respect to safety should also be taken during those activities.
- Playing with or around the machine may cause dangerous situations with a machine in operation. This playing is never allowed!
- All other prescriptions and laws with respect to working conditions and safety on the working spot should be observed with this machine.

Cutting device Kit FS4.0146

(If you need, for the connection look also 3 pages of ELS at the end of this manual).

Installing the power supply FS4.1283:

1. Install the power supply FS4.1283 into the switch cabinet, by using the 2 screws N1.1921 and the 2 plain washers N1.6115. All the necessary holes are already made on the components plate.



2. Open the above plastic duct and unplug the 2 red fast-on connectors from the transformer T1 connected to the 0- 230 primary windings



3. Connect the male fast-on connectors from the power supply FS4.1283 to the 2 red fast-on of the transformers T1, "unplugged at step 2"
And the 2 blue female fast-on connectors from the power supply FS4.1283 to the 0-230 terminals of the transformer T1.
Above operation has to be done, in order to give both primary windings of the transformer a power supply



4. Open the cable later cable duct and the cable duct just above the PLC



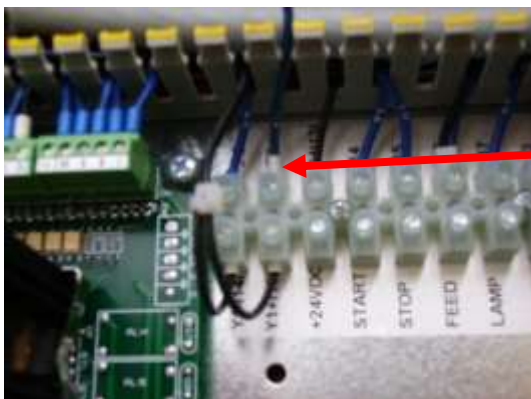
Open these two cable duct's

5. Connect red wires marked "21/20" from the power supply FS4.1283 to the terminal 21/20 of the PLC.



Connect red wires 21/20 here. Standard cables are red, old production was blue.

6. Connect blue wires marked "T2/T1" from the power supply FS4.1283 to the terminal T2/T1 of the connection terminal bar.



Connect the wire here

7. Place all wires nicely back into the cable ducts, followed by closing them with the supplied covers.

Cutting device Kit FS4.0146

Installing the power Cutting device group FS4.0133:

1. Remove the yellow top cover from the stretch unit, open the door and place the cutting device, inside at the left topside of the carriage.



2. Use bolts N1.1573 and washers N1.6163, to fix the unit to the stretch frame




3. Pass the cable connected to the cutting device, behind the motor and through the hole on the top of stretch unit in a way to bring the cable to the connection box above the stretch unit.




4. Open the connection box of the stretch unit and pass the cable from the cutting device from the plastic gland and connect the 2 wires marked 1, and 2 to the terminals 35 and 36 of the connection board (the polarity is not important).




5. Close the connection box, fix the cable to the stretch unit by using 2 plastic tie-wraps. Re-install the yellow protection cover on the stretch unit.
6. Switch on the machine again
7. Enter into the hidden FROMM technical menu:

Hold down the key 


Followed by pressing the keys in this sequence 

you will enter into the test menu and the display will indicate:

```
TEST INPUT (flashing)
TEST OUTPUT
```

scroll down the functions using the key  until on the display appears

```
CUTTING DEVICE
NO
```

Press the start key 

And on the display will appear

```
CUTTING DEVICE
YES
```

Followed by pressing more times the “stop”  key, and you will exit from the menu.

The cutting device is installed and should work.

NOTE!!


The cutting device has to be enabled program by program.

OEM settings are:

Cutting device disabled in all programs

Select the program in the machine where the cutting device should work “for example the number 2”



Press the  key and scroll down the parameter until the display will indicate:

CUTTING DEVICE
NO



By pressing the  key, you can enable it.

CUTTING DEVICE
YES

You have to repeat this operation in all the programs where you want to activate the cutting device.

In case that you know sure that the complete cutting device is installed without failures and still it doesn't work.

Check 1

Check if the pre-selected tension is very low. If yes you have to decrease the value of the analogue sensor in the hidden technical menu.

8. Enter into the hidden FROMM Technical menu:



Hold down the key 




Followed by pressing the keys in this sequence

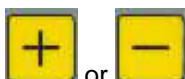
you will enter into the test menu and the display will indicate:



TEST INPUT (flashing)
TEST OUTPUT



scroll down the functions using the key 
until on the display appears

ANALOGUE VALUE
20



By pressing  or  you will increase or decrease the value.

The value should be lower to solve above problem. Select the value 15



Followed by pressing more times the “stop” key, you can exit from the menu.

Try if the cutting device works. If not repeat the steps after step 8.
Decreasing more the value of the analogue sensor.

Check 2

Find and look at page 07 of the Electrical schematic.
Unscrew wires 20 and 21 and connect them shortly on each other. (No longer than 0.5 seconds)

If the cutter knife go's in front.

It means the power supply is working correctly and you have to look better in the settings of the parameters.

If the cutter is not working. Than probably the relays on the board has broken down. In this case you have to change the board. And send the old board for repair.
Don't forget to ask for a claim number.

MAINTENANCE INSTRUCTIONS FOR OPERATORS**SAFETY!**

- First switch off the main switch and lock it before carrying out maintenance on the installation.
- Take care, that other persons cannot put the installation in action.
- Take care, that the protection covers, etc. are remounted when putting the installation in action again.

The installation will have a long operational life due to preventive maintenance. This means, that the various parts of the installation have to be monitored on a weekly, monthly, semi-annually or annually schedule.

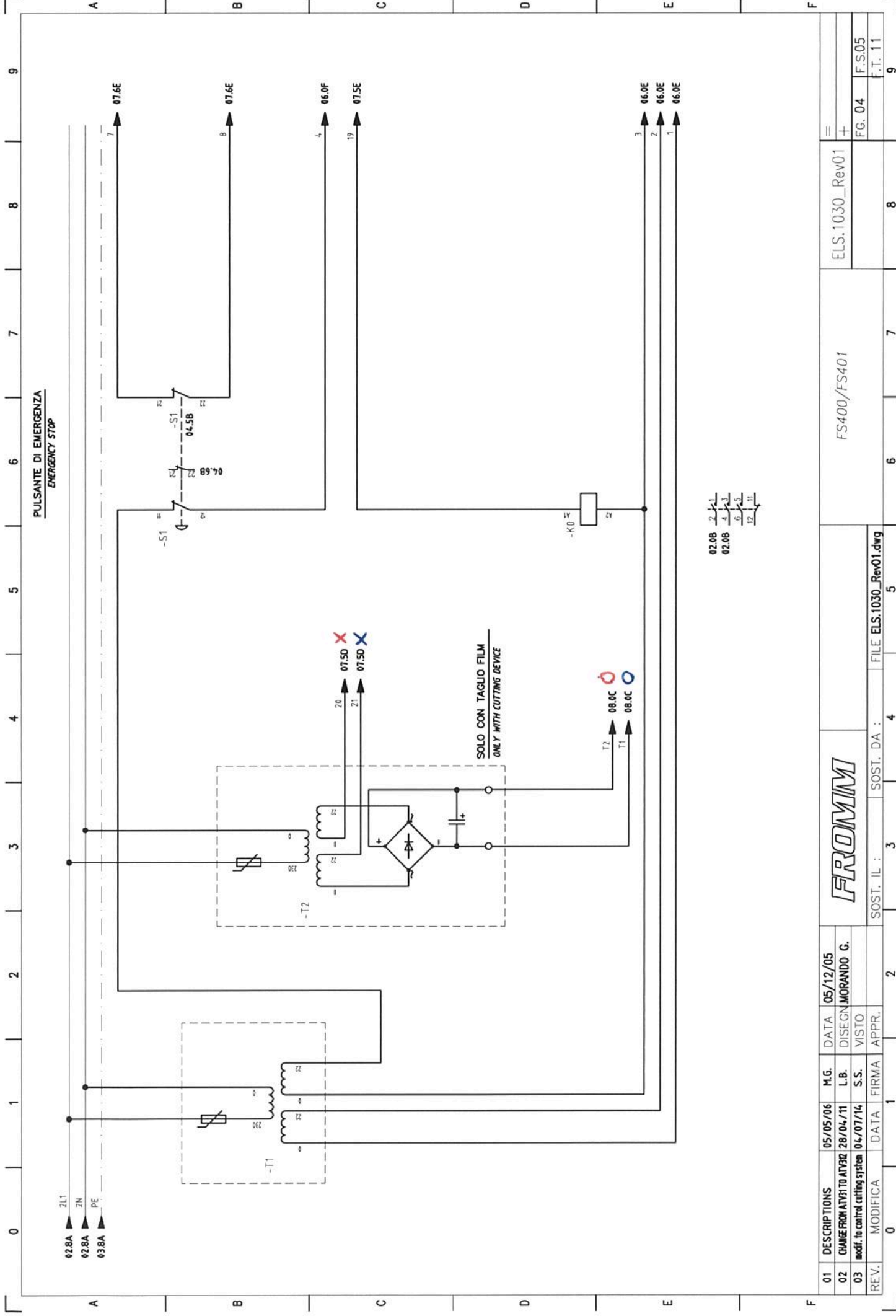
The operational lifetime is influenced by the environmental conditions. The indicated maintenance frequency is valid for normal operation conditions (8 hrs per day, 20° C, clean environment). One is advised to increase the maintenance frequency under more severe conditions. Keep rotating parts free from dirt.

REMAINDER OF THE FILM

The machine has to be cleaned every day

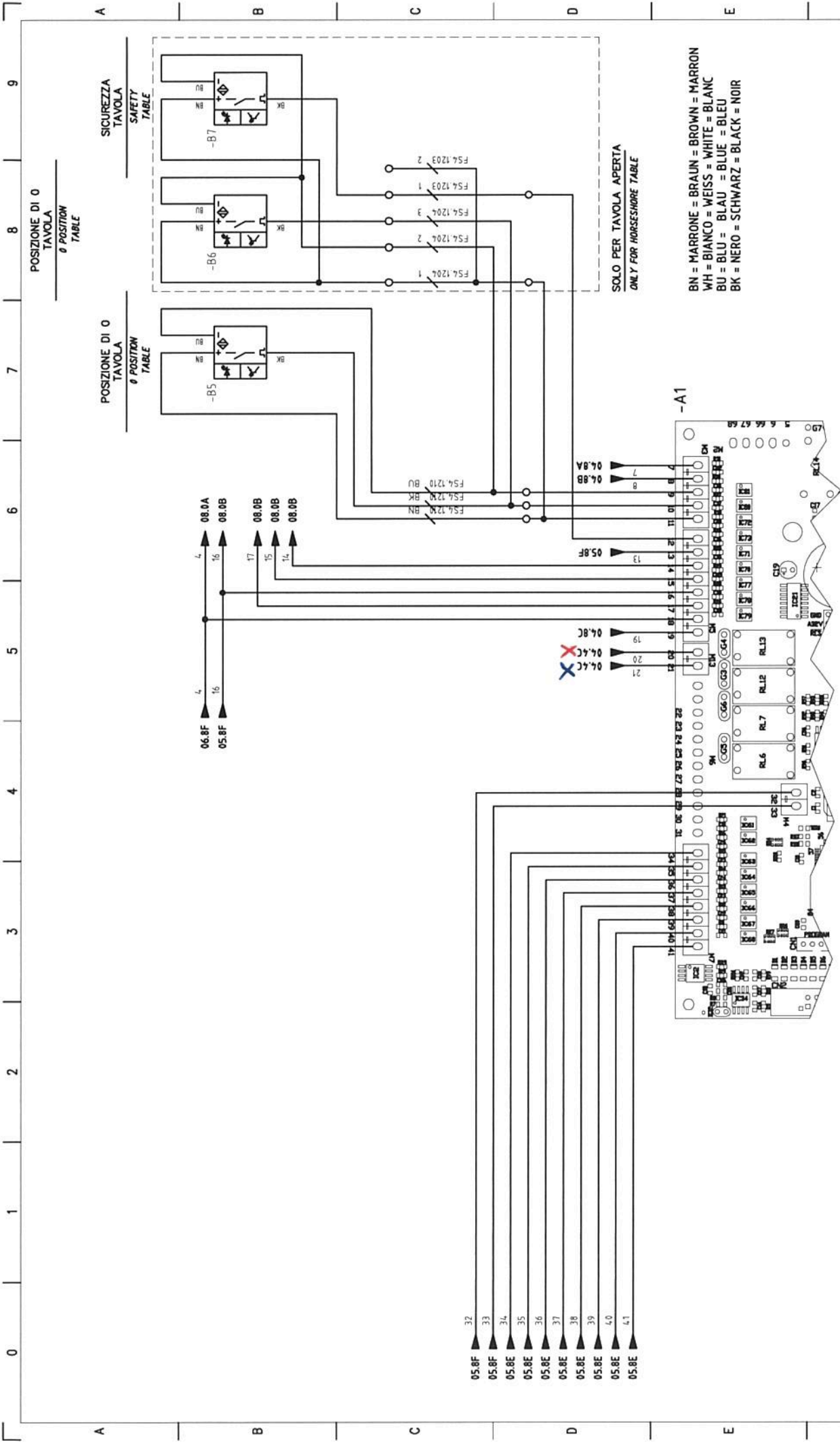
Never use solvents to clean the machine. To remove dust or particles deposited during the size changeover operations, never use compressed air: only use rags and aspirators.

Check if any film and packaging remainder are present in the brake system and remove it.



02.0B 2L1
02.0B 2N
02.0B 2PE
12 11

01	DESCRIPTIONS	05/05/06	M.G.	DATA	05/12/05			ELS.1030_Rev01		
02	CHANGE FROM ATYS1 TO ATYS2	28/04/11	L.B.	DISEGN	MORANDO G.			+		
03	modif. to control cutting system	04/07/14	S.S.	VISTO				FC. 04		F.S.05
REV.	MODIFICA	DATA	FIRMA	APPR.				F.T. 11		9
								FS400/FS401		8
								FILE ELS.1030_Rev01.dwg		5
								SOST. DA :		4
								SOST. IL :		3
								FROMMI		7
								ELS.1030_Rev01		8



01	DESCRIPTIONS	05/05/06	M.G.	DATA	05/12/05			
02	CHANGE FROM ATY91 TO ATY92	28/04/11	L.B.	DISGN	MORANDO G.			
03	modif. in central calling system	04/07/14	S.S.	VISTO				
REV.	MODIFICA	DATA	FIRMA	APPR.				
0								
SOST. IL :					3	SOST. DA :		
FILE ELS.1030_Rev01.dwg					4	SOST. DA :		
FS400/FS401					7	ELS.1030_Rev01		
					8	FG. 07		
					9	F.S.08		
					9	F.T. 11		

