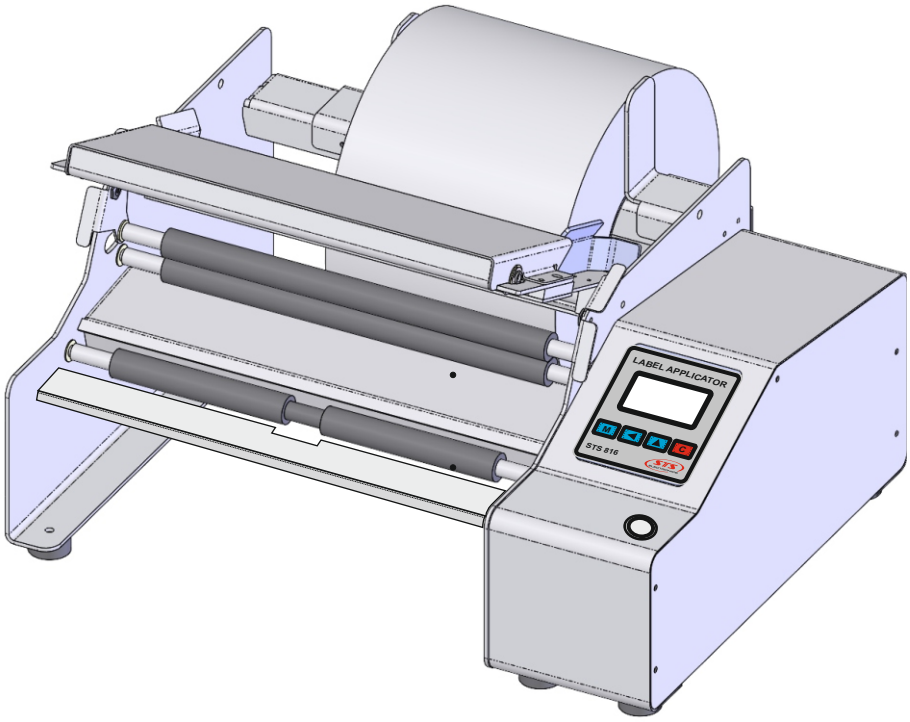
STS Electronics Ltd.
14 Stancionna Str., 5300 Gabrovo, BULGARIA

LABEL APPLICATOR
FOR BAGS
STS 816



Operating manual
/original instruction/

V.1.01

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

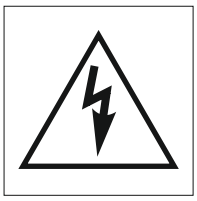
Content

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

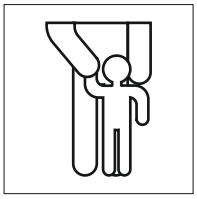
In the present Operation Manual have been used the following pictograms.

Read the Operation Manual!

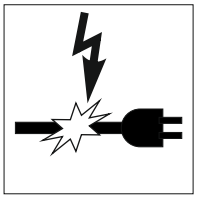
Follow safety warnings and instructions!



Protect yourself from electric shock. Danger to life!



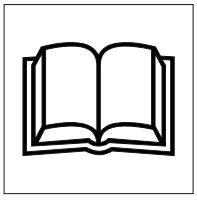
Keep the children away from the machine!



Risk of life from electric shock when a power cord or plug is damaged!

Dispose the packaging and the appliance in accordance with environmental regulations!

1. Introduction



Before starting the machine for the first time, get acquainted with the functions of the machine and be informed about the correct operation with electrical appliances. In this connection, read the following operating instructions. Follow the instructions in the manual. When handing over the machine to third parties, hand over and all the documentation.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

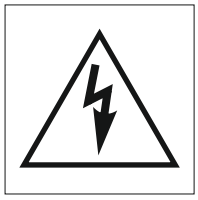
Proper usage

The machine is designed to spread one or two self-adhesive labels (front side and back side ones) on cylindrical vessels of different diameter and length, with smooth walls. Labels should be on one roll, / in case of front and back labels - arranged consequently in series / on the conveyor.

Place the container horizontally on the machine shafts, between the detents. The process starts. The machine glues the label as it rotates the vessel. After stopping the rotation, the label is glued and the container is removed from the machine manually. The process is visualized on the manufacturer's website -**http: //stsmachines.eu.**

Any other use is considered unlawful and generates significant risks of accident. The manufacturer accepts no responsibility for faults and damages caused by use contrary to the indicated instructions.

The electrical protection of the machine is accomplished by protective sheath of the current-carrying parts and by zeroing of the metal housing. This requires the use of a straight electrical outlet (socket). Over current protection is provided by fuses built into the machine. Their replacement should by performed qualified personnel.



Attention !

Do not place any larger or smaller vessels on the machine than those specified in the technical data! Do not use damaged vessels or vessels which have irregularly shapes. There is a danger of being injured.
Do not dispose onto the shafts full vessels which are not sealed good! There is a danger of electric shock!
Do not use labels with size beyond those specified in the specifications!
Feed with labels, maintain and clean the machine only when the power is off!
Do not cover the ventilation openings of the machine!
Be careful not to spill liquid on the machine!
Do not insert objects into the openings of the machine! There is a danger of electric shock!

Do not place your hand or fingers on the shafts of the machine! There is a danger of injury!

Attention !

In case of electric shock! Injury immediately disconnect the electrical supply through pulling the plug out of the socket!
Get medical attention immediately

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

Equipment /Figure 1.1,Figure 1.2/.

1. Supporting plate.
2. Pull shaft for the object.
3. Peeling edge.
4. Pull shaft for the labels.
5. Pressing shaft for the labels..
6. Thumbs for locking / unlocking the pressing shaft.
7. Movable arm with pressing shaft for the object.
8. Label tape roller .
9. Stoper (detent) of label tape roller .
10. Roll label holder.
11. Stopper for the object
12. Control panel
13. Button
14. Connector for control of a feeding machine
15. Power connector.
16. Power on / off switch.
17. Brake of the label tape roller.
18. Label sensor
19. Drive shaft.
20. Label tape guides.

Scope of the delivery.

Check immediately after unpacking the machine:
- 1 label applicator for bags STS816;
- 1 power cable 220V, 3x0,75mm2, 1,8m;
- 1 operation manual.

Technical data.

Supply voltage:	220Vac, 50Hz.
Own consumption:	< 100VA.
Electrical connection:	cable with plug type 'SHUKO'.
Dimensions:	440mmW, 230mmH, 330mmD.
Machine weight:	15kg.
Width of the bag:	80 ... 250mm.
Length of the bag:	120 ... 350mm.
Thickness of the bag:	< 5mm.
Diameter of the labels roll:	< 200mm.
Spool diameter:	46 ... 76mm.
Width of the roll / of the label /:	25 ... 230mm.
Label length:	25 ... 300mm.
Distance between labels on the tape:	> 2,5mm.
Download speed of the tape:	0,03 ... 0,1msec.
Distance to start labeling from the edge of the bag:	>40mm.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

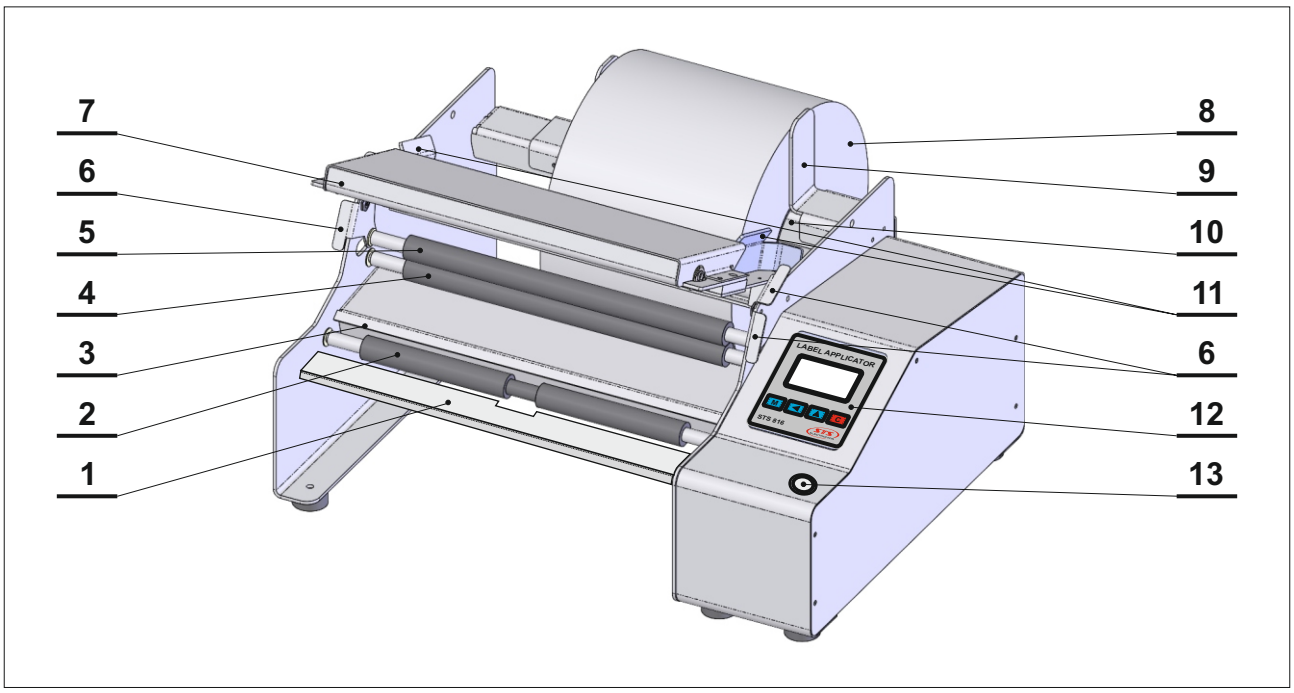


fig. 1.1

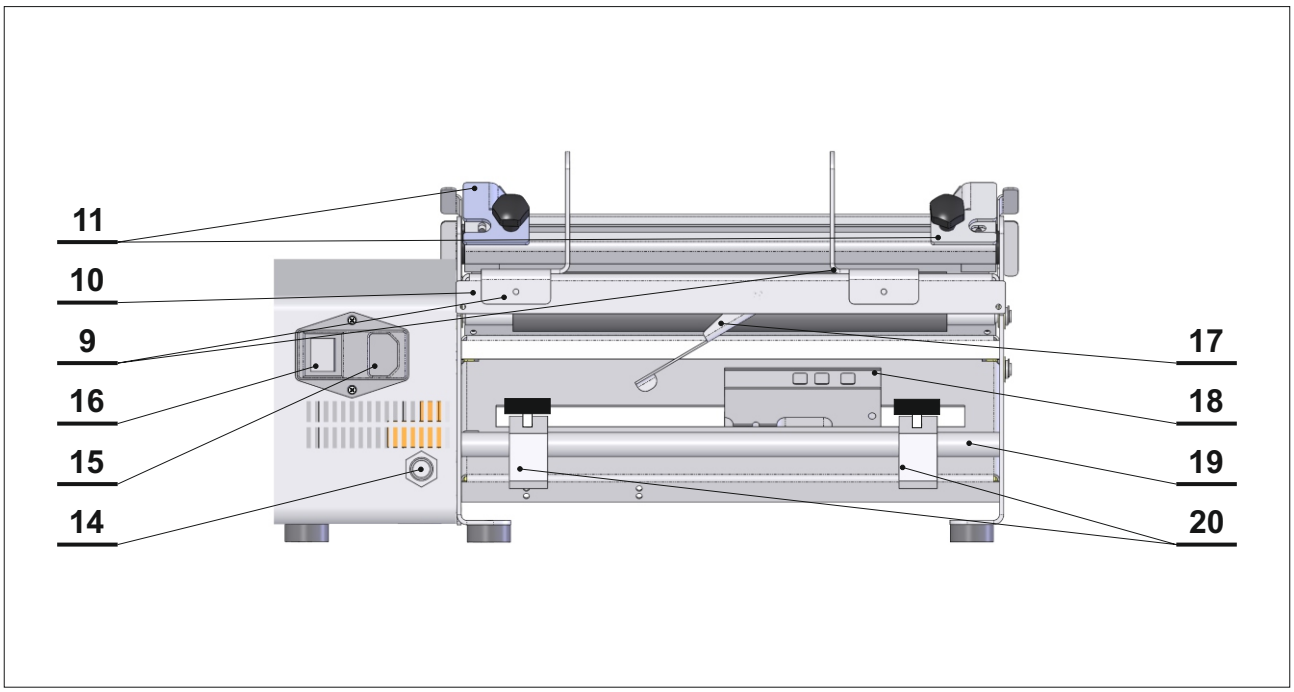


fig. 1.2

Noise information.
Noise level determined by analysis A.
Acoustic pressure level <75dB (A).
Noise level <75dB.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

2. General safety instructions for handling electrical appliances.

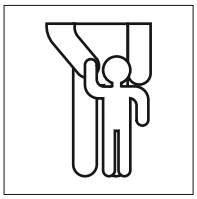
Attention!

The following safety precautions must be observed when using electrical appliances to protect against electric shock, risk of injury and fire. Read all of these instructions before using the machine and store them carefully.

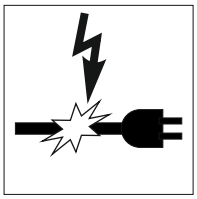
Safe work.

-Keep your workplace in order. Clutter in the work area can lead to accidents.

- Ensure good lighting in the workplace.
- Do not use the appliance in humid conditions.
- Do not use the appliance in places where there is a risk of fire or explosion.
- Keep bystanders, especially children, away from the appliance when operating the appliance.
- Do not use the appliance for purposes other than those intended.



- Do not use the cord to pull the plug from the wall socket. Protect the cable from oil heat and sharp edges.
- Avoid unnatural postures of the body. Take care of a secure posture, keep balance in every way.
- Carefully maintain your appliances.
- If you do not use the appliance, remove the plug from the socket.
- Do not use the appliance with a damaged power switch.



An electrical appliance that cannot be switched on and ?Carefully maintain your appliances.
- If you do not use the appliance, remove the plug from the socket.
- Do not use the appliance with a damaged power switch.

An electrical appliance that cannot be switched on and switched off is dangerous and needs to be repaired

-Be careful. Treat your work with caution. Do not use the appliance if you are not concentrated enough.

- Check the appliance for eventual damages. Check that the moving parts function flawlessly and are not tightened and that there are no damaged parts. All parts must be installed flawlessly and meet all conditions to ensure a faultless working condition of the appliance. Damaged safety components and parts must be repaired reliably by a certified electrician or replaced, unless otherwise stated in the instructions of the operation manual. Damaged circuit breakers must be replaced by a workshop.

Specific safety instructions.

The bags are placed manually. The labeling procedure is started automatically when the bags enters the machine.

- Do not place a new bag while the labeling procedure is in progress.
- Do not place two or more bags.
- Do not lift the movable arm while the labeling procedure is in progress.
- Do not pull the bag forcibly.

Failure to keep the above instructions may result in injuries or damages.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

3. Operating instructions

Attention !
Every operator working with the labeling machine (with the Label applicator) should become acquainted carefully with the present operating manual.

Mounting.
The machine should be placed on a flat, horizontal surface larger than its base. Should provide space around the machine for maintenance servicing and handling. From the kit supplied with it, a power cord is connected to the supply soket.

Turn ON.
After turning on the power, the welcome logo / Fig. 3.1 / appears on the display, followed by the type of machine / Fig. 3.2 / and switches to operating mode / Fig. 3.3.

fig. 3.1

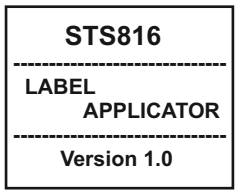


fig. 3.2

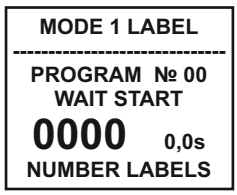


fig. 3.3

Determination of "Offset start" and length of the bag
The "Offset start" parameter determines the positioning of the label on the bag. Set in millimeters. The minimum distance for the beginning of labeling the label is limited by the peculiarities of the mechanics of the machine and is ~ 40mm / at "Offset start = 1 /. The sum of the minimum distance and the parameter determine the beginning of labeling.
For two labels, two parameters are entered - "Offset start 1" / for front label / and "Offset start 2" / for rear label /.
The length of the bag is required to record errors both in case of problems and when working with the STS817 bag feeder module. Their measurement is specified in Chapter 4.

Determination of "Offset stop".
The sensor reading the end of the label is located 100 mm before the peeling edge and its position cannot be changed. This requires entering an parameter - Offset stop - for one label, and Offset stop 1 and Offset stop 2 for two labels.
This parameter determines the correct positioning of the subsequent label to the peel-off edge. The values depend on the length of the labels and the distances between them. For convenience, the measurement of the labels, the distances between them and the calculation of the offsets is done before mounting the label roll on the machine.
In one label mode the parameter is determined according to: Chapter 5. Offset stop - mode 1 label.
In two labels mode the parameters are determined according to: Chapter 6. Offset stop 1, Offset stop 2 - mode 2 labels.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

Loading labels and setting up the label sensor.

The machine is loaded with a label roll meeting the requirements described in the technical data. For better access, the movable arm is raised. The procedure is performed with the power off, according to:

Chapter 7. Loading labels.

The sensor is set with the power on, according to:

Chapter 8. Setting up the label sensor.

Positioning of the bag

The orientation of the bag is chosen depending on the label and how it should be located. Adjust the stoppers in order to ensure the free passage of the bag through the gluing area. The position of the stoppers determines the positioning of the label - left / right.

Working with the menu and changing parameters

The menus of the machine are two types - user menu and service menu. All menus are password protected and can not be changed. The user menu password can be turned off.

The user menu is for the machine operator. It can change the menu language, the operating mode / one or two labels /, offset start, the already calculated offset stop / offset stop 1 and offset stop 2 - for two labels mode / and the length of the bag. Access and work is performed according to:

Chapter 9. Working with the menu and changing parameters. The service support works with the service menu. Can turn on / off the password of the user menu change the speed of gluing turn on / off the fast speed of the platform. Access and work is performed according to:

Chapter 10. Working with the service menu and changing parameters.

Tests and precise settings

The machine is started by making precise test settings:

- monitor the position of the label - flush with the peeling edge. It is corrected by changing the offset stop / "Offset stop 1" and "Offset stop 2" - for two labels mode / - up to several digits. Decreasing its value causes the label to move backwards.
- monitor the position of the left / right label. the position is corrected with the side stops.
- monitor the position of the beginning of the label. Change the value of Offset start or for two-label mode - "Offset start 1" first label, "Offset start 2" second label.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

Labeling

The labeling procedure is done by placing a bag in the provided area. The display shows execution. When labeling procedure is completed, the machine stops and the label counter increases. Any time you press and hold the button [C] for more than 3 seconds, the counter resets.

When the STS817 automatic bag feeder module is installed, labeling is started by pressing the button below the control panel. The module must be pre-configured and loaded with bags.

Errors.

When the machine is started or operated and a conflict situation is reached, which can lead to damage or stop in cyclic mode, the process stops. A flashing error message appears on the display, along with beep signal. The problem needs to be fixed. To clear the error, press and hold the button (for more than 3 seconds) under the control panel or restart the machine (by switching the power off and on). Errors, possible problems and solutions are described in: Chapter 11. Errors and actions.

Removing the problem allows the machine to continue working correctly. Having a problem at startup causes a new stop and error message.

Adjusting of the display.

The brightness and contrast of the display can be changed as needed. The access to the menu and the way of work are described in:

Chapter 12. Adjust the brightness and contrast of the display

Service menus.

The service support works with these menus.

The first menu shows records of the event counters / total counter and error counter / as well as the machine serial number. The description of the counters and the access to them is described in:

Chapter 13. Service menu - counters

The second menu allows for diagnostics of all sensors / inputs of the controller / on the machine - indicates their status. Access to them is described in:

Chapter 14.Service menu - inputs.

Attention !

After finishing work unplug the machine.

In order to prevent damage to the rubber shafts, after finishing work, raise the movable arm as far as it will go and unlock the pressure shaft - thumbs back.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

4. Offset start.

Determining the value of a parameter - Offset start.

The parameter determines the positioning of the label on the bag. It is set in millimeters. The minimum distance for the beginning of labeling the label is limited by the peculiarities of the mechanics of the machine and is ~ 40mm / at "Offset start = 0 /. The sum of the minimum distance and the parameter determine the beginning of labeling - Figure 4.1.

When labeling of a front and rear label, it is necessary to enter two parameters "Offset start 1" and "Offset start 2" - respectively for the positioning of the front label and rear label - are determined similarly.

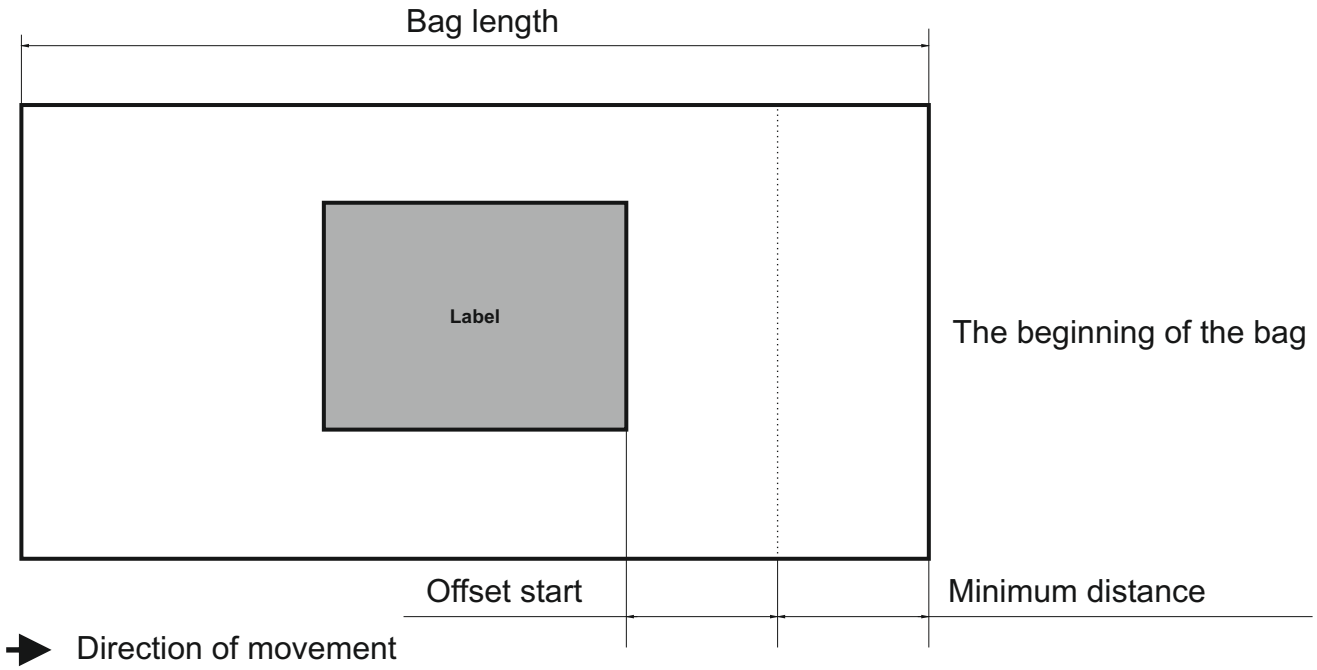


Figure 4.1

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

5. Offset stop - mode 1 label.

Determination of 'Offset stop'

Determines the right positioning of the beginning end of the following (subsequent label) to the peeling edge.

There are some possible variants and they are shown on Figure 5.1

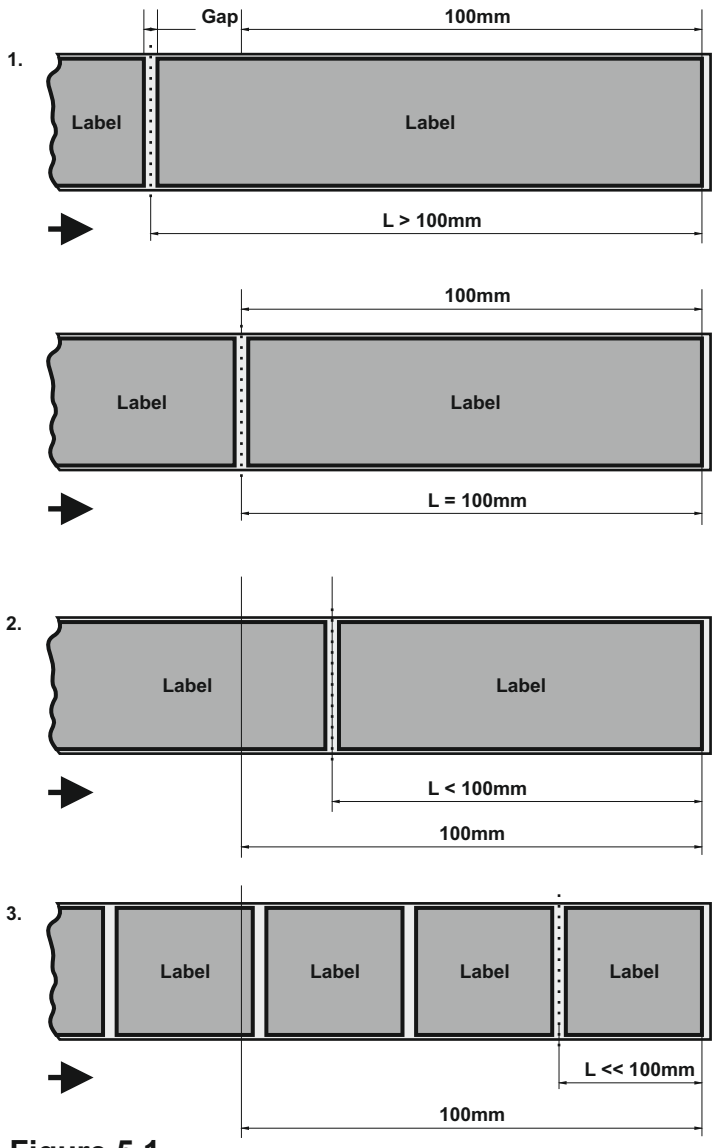


Figure 5.1

Variant 1:
Label >= 100 mm.
Offset value is 100:
Offset stop = 100.

Variant 2:
Label <= 100mm.
The length of the label used is less than **L**. The Offset value shall be determined by subtracting the length of the label and the half of the gap from 100 [mm].
Offset stop = 100 - Label - Gap/2.

Variant 3:
Label << 100mm.
The length of the label used is several times less than **L**.The Offset value is determined by subtracting from 100 [mm] the sum of all lengths of the fitted labels and gaps between them, and adding the half of the gap.

For the specific example:
Offset stop = 100 - Label - Gap - Label - Gap - Label - Gap + Gap/2.

Note: Measured offset results are a good start. Several adjustments may be needed to better position the start of the label.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

6. Offset stop 1, Offset stop 2 - mode 2 labels.

Determination of 'Offset stop1','Offset stop2'

Determination of Offset stop1 and Offset stop 2 to the right positioning of the beginning end of the following (subsequent label) to the peeling edge.

There are some possible variants:

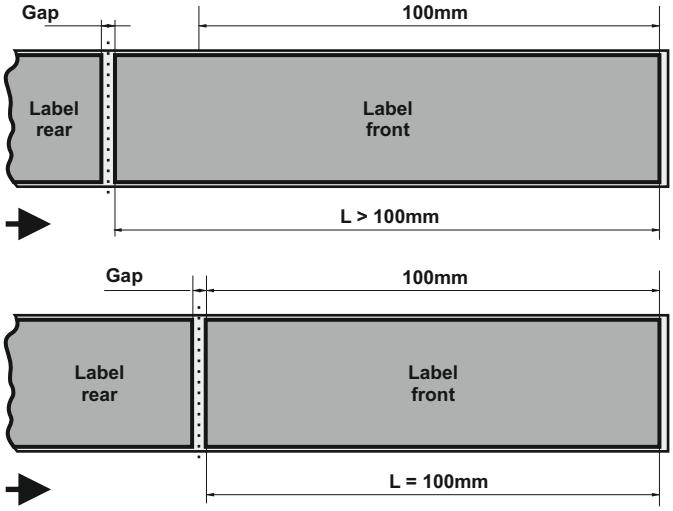


Figure 6.1

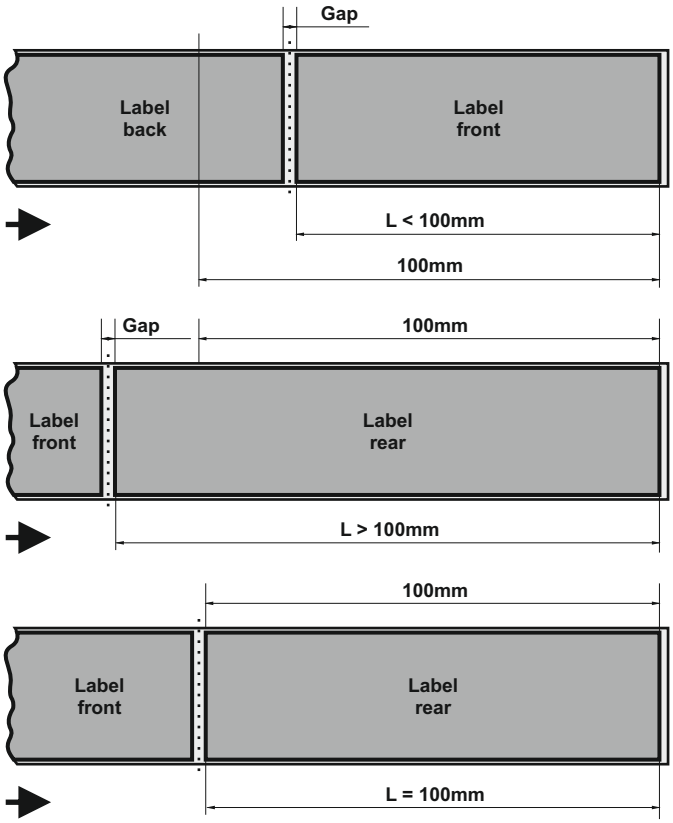


Figure 6.2

Variant 1:

Front label >= 100mm

Rear label - no matter the size - Figure 6.1.

The value of Offset stop 1 is determined by adding the length of half of the gap to 100:**Offset stop 1 = 100 +Gap/2.**

The value of Offset stop 2 is determined by adding the length of half of the gap to the length of the rear label: **Offset stop 2 = Rear label + Gap/2.**

The machine must start with a front label.

Variant 2:

Front label < 100mm

Rear label >= 100mm - Figure 6.2.

The value of Offset stop 1 is determined by adding the length of half of the gap to 100:
Offset stop 1 = 100 + Gap/2.

The value of Offset stop 2 is determined by adding the length of half of the gap to the length of the Front label:
Offset stop 2 = Front label + Gap/2.

The machine must start with a rear label.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

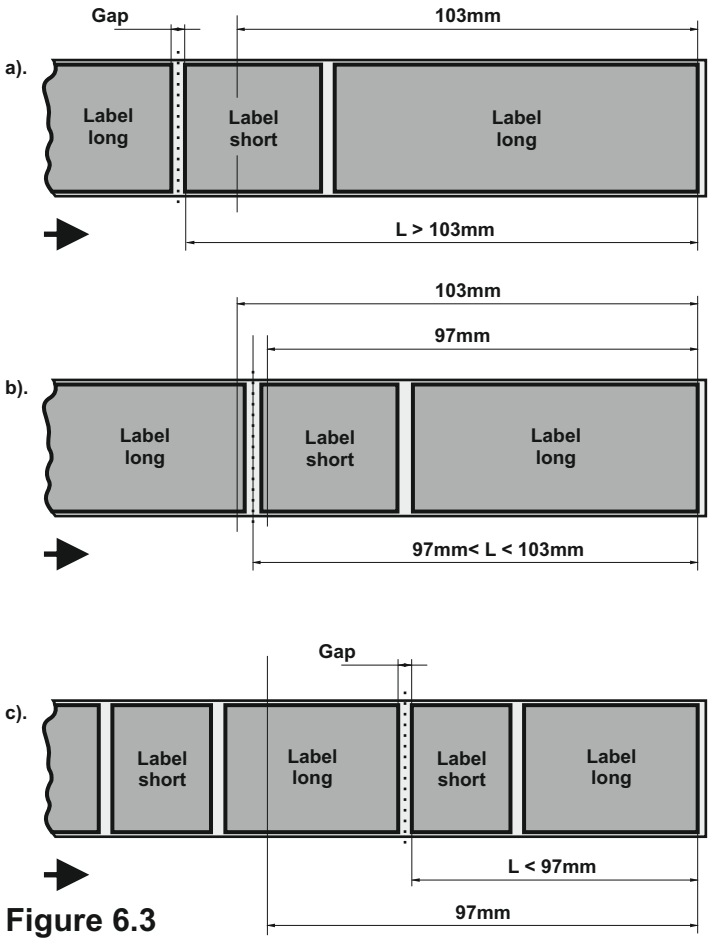


Figure 6.3

Variant 3:

Front label < 100mm
Rear label < 100mm - Figure6.3.
There are three options:

a). - the sum of the lengths of the two labels and the gap is greater than or equal to 103mm. The value of Offset Stop 1 is then determined by subtracting the length of the shorter label and the length of half of the gap from 100:
Offset stop 1 = 100 - Short label - Gap/2.

The value of Offset Stop 2 is determined by adding the length of half of the gap to the length of the Short Label:
Offset stop 2 = Short label + Gap/2.

The machine must start with a long label.

b). - the sum of the lengths of the two labels and the gap is less than 103mm but greater than 97mm.

Then the value of Offset stop 1 is equal to the length of half the gap:
Offset stop 1 = Gap/2.

The value of Offset Stop 2 is determined by adding the length of half of the gap to the length of the Short Label:
Offset stop 2 = Short label + Gap/2.

The machine must start with a long label.

c). - the sum of the lengths of the two labels and the gap is less than or equal to 97mm. Then the value of Offset stop 1 is determined by subtracting from 97 the length of the two labels with the gap between them and the length of another half gap: **Offset stop 1 = 100 - Long label - Gap - Short label - Gap/2.**

The value of Offset Stop 2 is determined by adding the length of half of the gap to the length of the Short Label:
Offset stop 2 = Short label + Gap/2.

The machine must start with a long label.

Note: Measured offset results are a good start. Several adjustments may be needed to better position the start of the label.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

7. Loading labels.

The machine is loaded with a label roller according to the **Scheme of label movement** - Figure 7.1.

Label roller is placed on **Stand for label roller. Pressing shaft** is 'unlock' by moving the thumbs on both sides backwards. On part of the tape the labels need to be removed and loaded according to the attached diagram - **Path of the label:**

- the **Movable arm** is raised, to the stop;
- slips under the Drive Shaft, between the **Drivers**;
- goes through the slot of **Label sensor**;
- folds through **Peeling edge** and goes back;
- passes over the **Pulling Shaft** and under the **Pressing Shaft**;
- passes over **Label roller** and falls back freely..
- **Movable arm** returns.

Label roller is positioned so that the label tape passes through **Label sensor** work area to cover it completely. The sensor is adjusted according to - chapter 8**. Setting up the label sensor**. The beginning of the label /front - for two labels is positioned next to the **Peeling Edge**. **Pressing shaft** is 'lock' - thumbs up on both sides down. **Magnetic limiter** /left and right/ fix the position of **Label roller**. The tape is manually tightened by reversing the roll. **The Drivers** fix the position of the label tape parallel to the sides without pressing it.

The tape after **Peeling edge** need to be without labels.

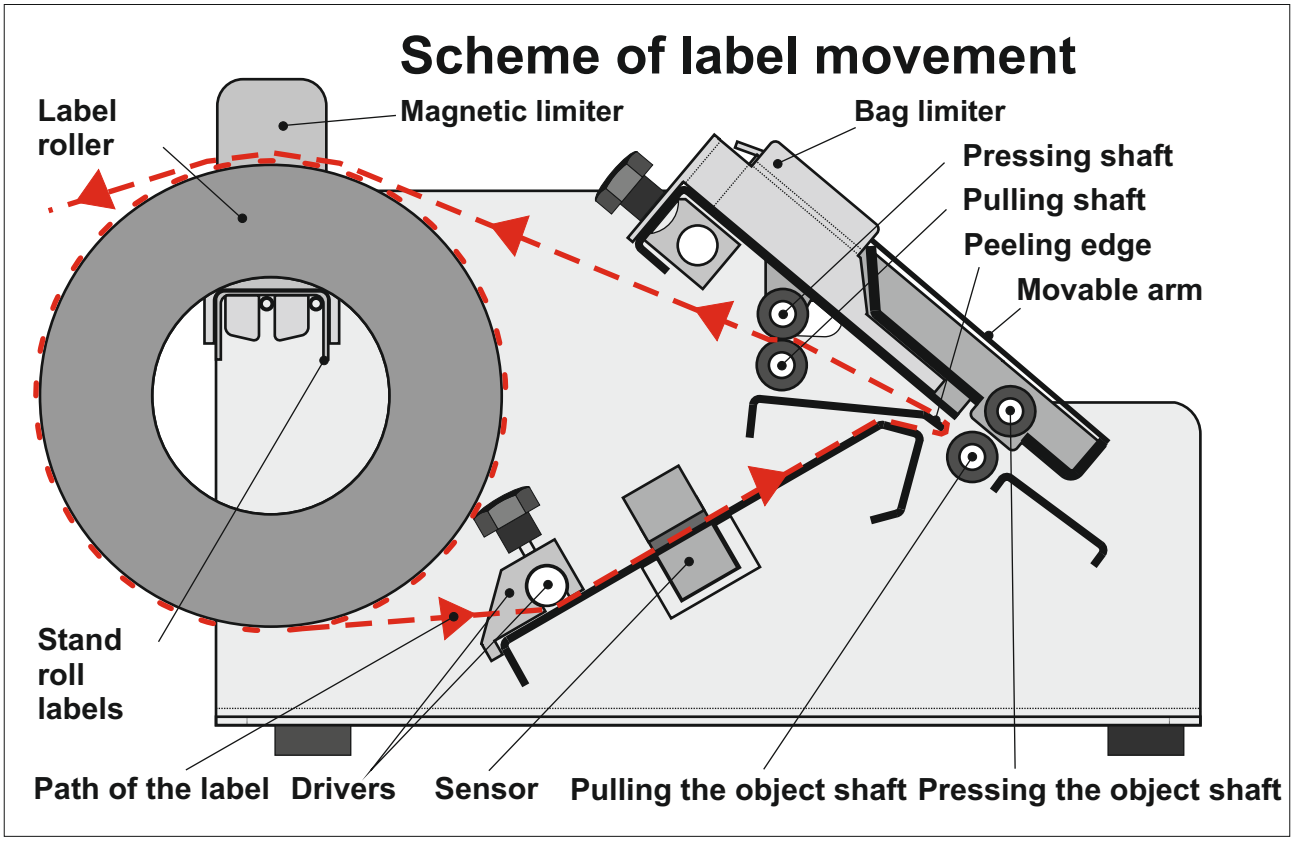
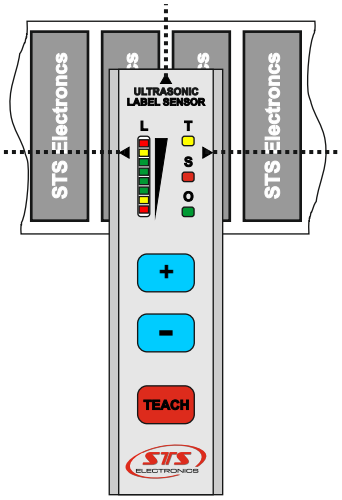


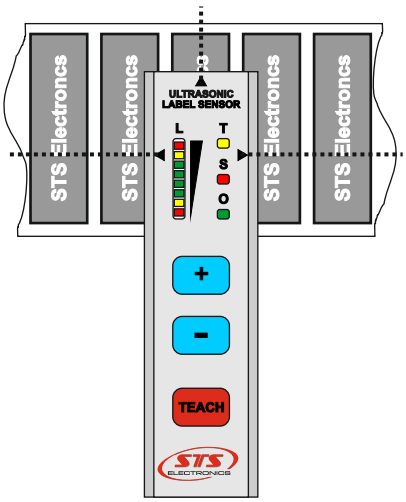
Figure 7.1

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

8. Setting up the label sensor



Фиг. 8.1



Фиг. 8.2

The sensor is positioned in such a way that the label and the support base must completely cover the sensor area (narrow gap) when moving. In the case of irregularly shaped labels, cut-off parts must not pass through the sensor area. The sensor and the label tape roller **must be** at rest during adjustment!

1. The label tape roller is positioned on the gap between the labels - Figure 7.1 taking into account the markers on the front face panel.

2. Press and hold TEACH key for more than 3 seconds - LED '**T**' /yellow/ illuminates - sensor is in setting mode. When the key is released, the LED starts blinking - automatic sensor training begins. The signal level indicated by the bar graph '**L**' is increasing. Waiting for LED '**T**' to go out.

3. The label tape roller is positioned on a label - Fig.7.2.

4.The TEACH key is pressed. '**T**' LED lights up. When the button is released, the LED starts to blink. With the '**T**' LED off, the automatic tuning is complete.

If the gap signal level is insufficient / after step 2 / or there is insufficient gap between the gap-label signals / after step 4 /, the bargraph starts to blink - indicating an error.

Exit from this state is caried by new / correct / training or by turning off the power

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

9. Working with the user menu and changing parameters.

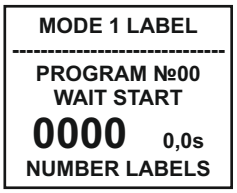


Figure 9.1

Access to the parameter change menu is password protected. From operating menu /fig.9.1/, by pressing and holding the [M] key for longer than 3 seconds displays a password window fig.9.2 **(1)**. It is canceled by pressing the [C] key, and access to the input menu by pressing the [◄] key - fig.9.3. The password is entered by pressing the [▲] key and thus the displayed digit changes cyclically.

Going to the next digit is done by pressing the [◄] key. Pressing the [C] key returns to the default password input position.

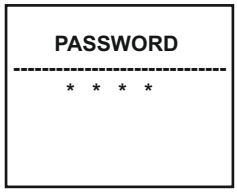


Figure 9.2

The password for this machine is **8163** - fixed and cannot be changed by the user. **(2)**.

If the password is incorrectly entered, an error window is displayed - Figure 9.4. By pressing the [M] key goes to a new input - Figure 9.3 Cancellation of new input shall be done by pressing the [C] key and it goes into working mode - Figure9.1.

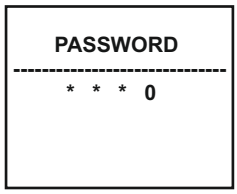


Figure 9.3

Properly entered password gives access to change the parameters.

The first window that appears is the language selection - Figure10.5. By pressing the [◄] key , the language is cyclically changed - **BULGARIAN** /Figure 9.5/ - **ENGLISH** /Figure9.6/. Confirmation of the desired selection is done by pressing [M] key. .

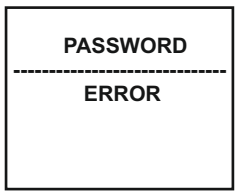


Figure 9.4

Go to the next parameter input - Select mode / 1, 2 labels / - Figure 9.7.

Pressing the [◄] key cycles through the mode / ONE LABEL / TWO LABELS /. Confirmation of the desired selection is done by pressing the [M] key. .

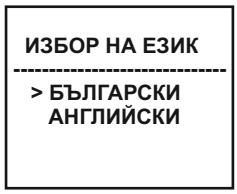


Figure 9.5

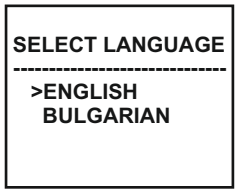


Figure 9.6

(1) - If the password from the service menu is switched off, pressing and holding the button [M] from the operating menu for more than 3 seconds gives access to change the parameters.

(2) - entering password 8888 gives access to changing the parameters from the service menu.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

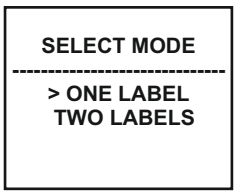


Figure 9.7

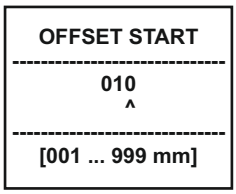


Figure 9.8

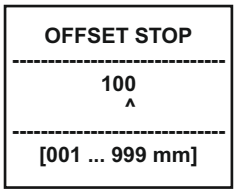


Figure 9.9

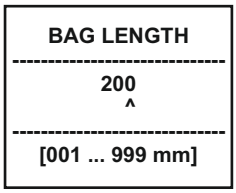


Figure 9.10

Select mode **'ONE LABEL'.**

When selecting the 'ONE LABEL' mode, and confirming it, it proceeds to entering the next parameter - offset start - figure 9.8. Its value determines the beginning of labeling - the distance from the beginning of the bag to the label. Its determination is given in chapter 4.

The input is made by changing the specified number trough pressing the [▲] key. Go to the next digit shall be done by pressing the [◄] key. The process is cyclical.

By pressing the [M] key, the set offset is confirmed and proceeds to the next parameter - Offset stop - figure 9.9. Its value determines the proper positioning of the beginning of a subsequent label to the peeling edge. Its determination depends on the length of the label and is given in chapter 5.

The input is made by changing the specified number trough pressing the [▲] key. Go to the next digit shall be done by pressing the [◄] key. The process is cyclical.

By pressing the [M] key, the set offset is confirmed and proceeds to the next parameter - bag length - figure 9.10. The length of the bag is required for error registration and in case of problems and when working with the STS817 automatic bag feeder module. Its determination is given in chapter 4.

By pressing the [M] key, the set length is confirmed and proceeds to working mode - figure 9.1.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

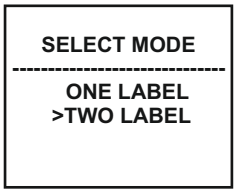


Figure 9.11

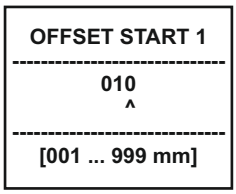


Figure 9.12

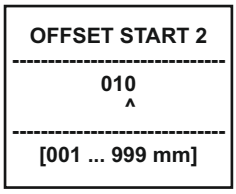


Figure 9.13

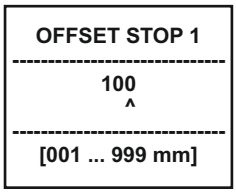


Figure 9.14

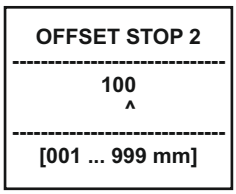


Figure 9.15

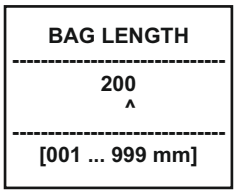


Figure 9.16

Select mode 'TWO LABELS'.

When selecting the 'TWO LABELS' mode /Figure 9.11/, and confirming it the next parameter - offset start 1 - /Figure 9.12. Its value determines the beginning of labeling of the first label - the distance from the beginning of the bag to the label. Its determination is given in chapter 4.

The input is made by changing the specified number trough pressing the ▲ key. Go to the next digit shall be done by pressing the ◄ key. The process is cyclical.

By pressing the M key, the set offset is confirmed and proceeds to the next parameter - Offset start 2 - Figure 9.13. Its value determines the beginning of labeling of the second label - the distance from the beginning of the bag to the label. Its determination is given in chapter 4.

The input is made by changing the specified number trough pressing the ▲ key. Go to the next digit shall be done by pressing the ◄ key. The process is cyclical.

By pressing the M key, the set offset is confirmed and proceeds to the next parameter - Offset stop 1 - Figure 9.14. Its value determines the proper positioning of the beginning of the front label to the peeling edge. Its determination depends on the length of the two labels (front, back), and is given in chapter 6.

The input is made by changing the specified number by pressing the ▲ key. To move to the next digit, press the ◄ key. The process is cyclical.

By pressing M key, the set Offset stop 1 is confirmed and proceeds to the next parameter - Offset stop 2 - Figure 9.15. Its value determines the proper positioning of the beginning of the front label to the peeling edge. Its determination depends on the length of the two labels (front, back), and is given in chapter 6.

The input is made by changing the specified number trough pressing the ▲ key. Go to the next digit shall be done by pressing the ◄ key. The process is cyclical.

By pressing the M key, the set offset is confirmed and proceeds to the next parameter - bag length - Figure 9.16. By pressing the M key, the set length is confirmed and proceeds to working mode - Figure 9.1.

Attention !

When staying in a parameter menu window for more than 60 seconds without activity (pressing any key), the machine enters Figure 9.1 operating mode. Changes made so far are being recorded.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

10. Working with the service menu and setting parameters.

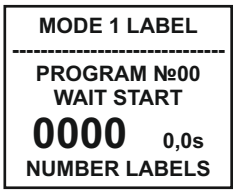


Figure 10.1

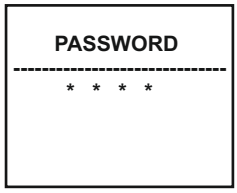


Figure 10.2

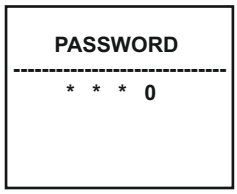


Figure 10.3

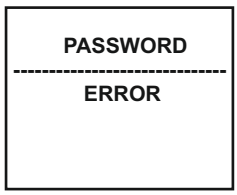


Figure 10.4

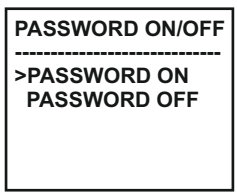


Figure 10.5

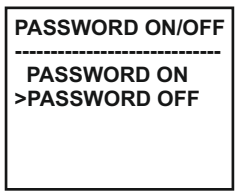


Figure 10.6

Access to the parameter change menu is password protected. From the operating mode /Figure 10.1/ by pressing and holding buttons [C] and [M] together /first is pressed [C] / , for longer than 3 seconds displays a password window - Figure 10.2. It is canceled by pressing the [C] key and access to the input menu by pressing the [◄] key - Figure 10.3. The password is entered by pressing the [▲] key and thus the displayed digit changes cyclically.
Going to the next digit is done by pressing the [◄] key. Pressing the [C] key returns to the default password input position.

The password for service menu of this machine is **8888** - fixed and cannot be changed by the user.

If the password is incorrectly entered, an error window is displayed - Figure 10.4. By pressing the [M] key goes to a new input - Figure10.2. Cancellation of new input shall be done by pressing the [C] key and it goes into working mode - Figure 10.1.

Properly entered password gives access to change the parameters.

The first window that is displayed is for ON/OFF of the password for the user menu - Figure 10.5. by pressing the [◄] key changes cyclically - **PASSWORD ON** /Figure 10.5/ - **PASSWORD OFF** /Figure 10.6/.

Confirmation of the desired selection is done by pressing [M] key. Go to the next parameter input - Speed - Figure 10.7.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

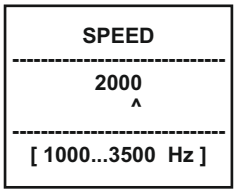


Figure 10.7

Entering the parameter is done by the displayed digit changes cyclically by pressing ▲ key. Going to the next digit is done by pressing the ◄ key. The value can be between 1000 and 3500 Hz. By pressing C key goes to a new input /value 1000 and the ability to set the first digit/.

Confirmation of the desired selection is done by pressing the M key and it goes into working mode - Figure 10.1.

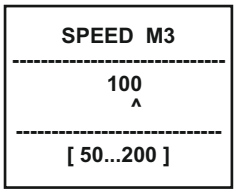


Figure 10.8

If the module for automatic bag feeding is installed after confirming the speed by pressing the M button, go to the next parameter for feeding speed of the module during labeling - Speed M3 / .Figure 10.8 /.

Entering the parameter is done by the displayed digit changes cyclically by pressing ▲ key. Going to the next digit is done by pressing the ◄ key. The value can be between 50 and 200 Hz. By pressing C key goes to a new input /value 50 and the ability to set the first digit/.

Confirmation of the desired selection is done by pressing the M key and it goes into working mode - Figure 10.1.

Attention !

When staying in a parameter menu window for more than 60 seconds without activity (pressing any key), the machine enters Figure 10.1 operating mode. Changes made so far are being recorded.

Note:

The labeling speed and the movement of the platform during labeling are parameters set by the menu. Heavy and large bags require lower speeds.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

11. Errors and events.

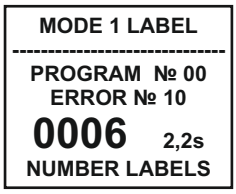


Figure 11.1

ERROR № 10 /Figure 11.1./ - the rotation of the shaft that moves the bag stops.
Possible reasons and measures:
- Incorrectly entered value for the length of the bag. Measure and enter a correct value.
- optical sensor 2 does not respond to the bag - unsuitable bag material for the machine
- damaged optical sensor 2 or electronic unit. Send for repair.

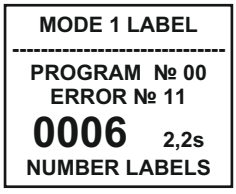


Figure 11.2

ERROR № 11 /Figure 11.2./ - the rotation of both shafts stops the bag with the label / labels / has not come out.
Possible reasons and measures:
- Incorrectly entered value for the length of the bag. Measure and enter a correct value.
- label longer than the bag. Replace with the correct label.
- incorrectly set label sensor, two or mostly the label. Make the correct setting of the label sensor.
- damaged label sensor or electronic unit. Send for repair.

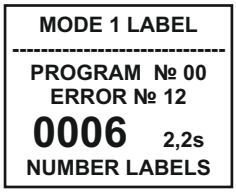


Figure 11.3

ERROR № 12 /Figure 11.3./ - the bag comes out, there is no signal from the label sensor.
Possible reasons and measures:
- unlocked pull shaft. Lock the shaft.
- no labels. Check the roll with labels.
- incorrectly set label sensor, two or more labels are labelled. Make the correct setting of the label sensor.
- damaged label sensor or electronic unit. Send for repair.

ERROR № 13 /Figure 11.4./
/ when the module for automatic envelope feeding is installed / - stops the bag feeding. Overloaded motor for feeding bags
Possible reasons and measures:
- Improperly adjusted mechanics which led to traffic jams and blocking the movement of the engine. Release and adjust the mechanics.
- damaged electric motor, mechanics or electronic unit. Send for repair.

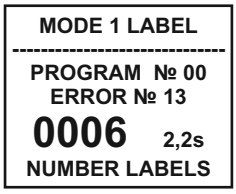


Figure 11.4

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

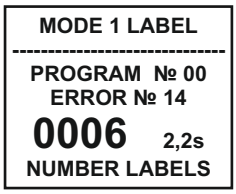


Figure 11.5

ERROR № 14 /Figure 11.5./ **/ when the module for automatic bag feeding is installed /** - expired rotation time of the motor for bag feeding.

Possible reasons and measures:

- no bags in the module. Load with bags.
- takes out a few bags. Adjust the mechanics.
- Incorrectly entered value for the length of the bag. Measure and enter a correct value.
- the shafts do not rotate. Non-tensioned feed belts. Mechanical failure - send for repair.
- the bag is fed into the applicator but the labeling procedure does not start. Damaged optical sensor 1 or electronic unit. Send for repair.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

12. Adjusting the brightness and the contrast of the display.

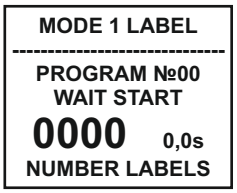


Figure 12.1

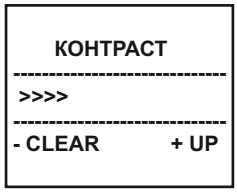


Figure 12.2

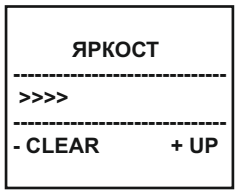


Figure 12.3

The menu for changing the display settings is accessed from the operating mode - Figure 12.1.

Pressing and holding for longer than 3 seconds on the [▲] key will enter the contrast adjustment mode - Figure 12.2. The current level is represented by a bargraph / >>>> ..... /. Adjustment is done gradually by pressing [C] key to decrease and [▲] key to increase.

By pressing the [M] key, the desired value is stored and switched to the brightness setting mode - Figure 12.3. The current level is represented by a bargraph / >>>> ..... /. Adjustment is incremental by pressing [C] key to decrease and [▲] key to increase. The desired value is memorized by pressing the [M] key, and goes into working mode - Figure 12.1.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

13. Information service menu - counters.

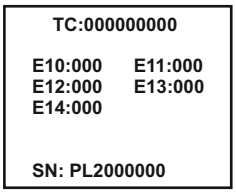


Figure 13.1

The menu provides information about number of machine cycles, number and type of errors as well as last error /Figure 13.1/, where:

TC:000000000 - total counter of the machine;
Exx:000 - error number, number of times;
SN:PL2000000 - serial number.

The menu can be accessed after the power is turned off. Press and hold the button [M] . The power is turned on. After the display lights up and the alarm sounds, the button is released.

Pressing the button [M] again causes initial start of the machine.

14. Information service menu - inputs.

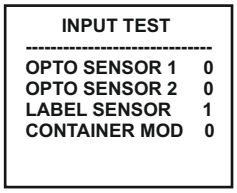


Figure 14.1

Allows testing of the sensors and the inputs of the controller / Figure 14.1/, where:

OPTO SENSOR 1 0 - optical sensor "START" - in the middle of the movable arm;
OPTO SENSOR 2 0 - optical sensor "STOP" - next to the rubber shaft of the movable arm;
LABEL SENSOR 1 - sensor gap between labels.
CONTAINER MOD 0 - included module for automatic bag feeding.

The menu can be accessed after the power is turned off. Press and hold the button [C] . The power is turned on. After the display lights up and the alarm sounds, the button is released.

Pressing the button [M] again causes initial start of the machine.

1 - active sensor.
0 - inactive sensor.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

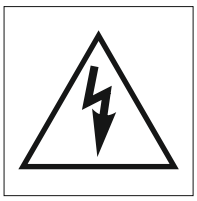
15. Maintenance and cleaning

Attention! Risk of injury!

Always disconnect the plug from the socket before performing any work on the machine.

The labeling machine does not require any technical maintenance within the specified service life.

Clean the machine after finishing the job.



Use a brush or a dry cloth. Do not use solvents to clean the cabinet and face panel.

Technical alcohol may be used to clean the shafts. No liquids should enter the machine.

Make sure that the vents are always clear.

If detergent gets into your eyes, wash it immediately with water!
If discomfort or vision problems continue, seek medical attention!

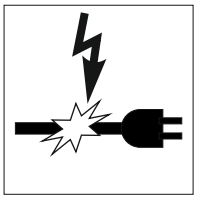
In the event of electric shock or injury, disconnect the power supply immediately by pulling the plug out of the socket!

Get medical attention immediately

16. Service

Attention!

Have the machine serviced by qualified personnel only and only use original spare parts. This guarantees the safety of the machine.



If the power cord is damaged, replace it with a new one. This ensures the protection against electric shock and guarantees the safety of the machine.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

17. Waranty

General conditions

The machine is manufactured with due care and tested in good faith.
It is intended for use in normal climatic conditions, in an environment with normal fire safety, without liquids and gases aggressive to the housing material. In case of a warranty event, contact a certified service center.

Warranty conditions

Warranty period: 24 months from the date of sale.

The warranty applies only to defects in materials and factory defects, but not to damage emerged during transportation, worn parts or damage of fragile parts.

In the case of malicious and misconduct, use of force and encroachment not done by our repairers, the warranty is void.

Your legal rights are not limited to this warranty.

The warranty period is not extended after the warranty service has been provided. This also applies to replaced and repaired parts.

After the warranty period, repairs are paid.

18. Transportation

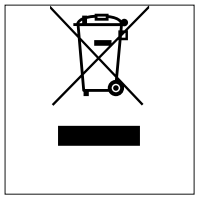
Attention!

Transport the machine to be done in its original packaging. Use the original reinforcing materials.

Avoid tilting or tipping the machine. Keep away from getting wet and hit.

The weight of the machine together with the package is 17 kg.

19. Disposal of the machine



The packaging is made from environmentally friendly materials that you can hand over for recycling.

Do not dispose of electrical appliances with household waste!

According to European Union Directive 2002/96 / EU, end-of-life electrical appliances must be collected separately and disposed of for recycling in accordance with environmental protection requirements.

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

20. EC DECLARATION OF CONFORMITY - original

With the present STS Electronics Ltd., Gabrovo, 41 Industrial Street, tel .: 066/801536, e-mail: info@stselectronics.eu manufacturer

Declares

under its own responsibility that the **STS 808 labeling machine** complies with the requirements of:

DIRECTIVE 2006/42 / EC, introduced by the Ordinance on Essential Requirements and Conformity Assessment of Machines

DIRECTIVE 2014/30 / EC, introduced by the Ordinance on Essential Requirements and Conformity Assessment for Electromagnetic Compatibility.

The product meets the requirements of the following harmonized standards:

BDS EN ISO 12100: 2011
Machine safety. General principles for design. Risk assessment and reduction risk (ISO 12100: 2010)

BDS EN 60204 - 1: 2006 + A1: 2009
Safety of machinery. Electrical equipment of machines. Part 1: General иequirements.

BDS EN 61000-6-2: 2006
Electromagnetic compatibility (EMC). Part 6-2: Common standards. Resistance to interference with industrial environments.

BDS EN 61000-6-4: 2007 +A1: 2011
Electromagnetic compatibility (EMC). Part 6-4: Common standards. Radiation standard for industrial environments.

The person who compiled the technical file - eng. Krasimir Savov

Date: 12.02.2020
Gabrovo City

Sign: .....
Manager: Diplomated Engineer Krasimir Dikov

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

21. Notes

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu

22. Producer

STS Electronics Ltd.
City of Gabrovo 5300
14 „Stancionna“ street

FACTORY NUMBER:_____

phone: (+359) 66 801 536 fax: (+359) 801 547
info@stselectronics.eu www.stselectronics.eu