

Efka variocontrol

CONTROL PANEL

V810 / V820

INSTRUCTION MANUAL

Nr. 402205 english

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1 Important Safety Instructions

When using the control panel and accompanying devices (e.g. for sewing machines), basic safety precautions should always be followed, including the following:

- Read all instructions thoroughly before using this control panel.
 - Control panel and its accessories should be mounted and put into operation by qualified personnel in accordance with the guidelines provided in the instruction manual.
- To reduce the risk of burns, fire, electric shock, or personal injury:**
- Use this control panel only for its intended use as described in the instruction manual.
 - Use only attachments recommended by the manufacturer or as contained in the instruction manual.
 - Never operate this control panel if one or more parts (e.g. cables, plugs) are damaged, if it is not working properly, if any damages can be identified or are to be suspected (e.g. after it has been dropped). Only qualified personnel are authorized to make adjustments, eliminate faults and complete repair work.
 - Do not use control panel outdoors.
 - Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
 - Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
 - Before mounting the control panel and accompanying devices, disconnect drive from mains (turn off main switch, remove mains plug from outlet [DIN VDE 0113 part 301; EN 60204-3-1; IEC 204-3-1]).

- Only qualified personnel are authorized to work on the electrical components.
- Work on high voltage circuit areas is forbidden, except as stated in the respective regulations, e.g. DIN VDE 0105 part 1.
- Only specially trained personnel are authorized to complete repair work.
- Cables to be wired must be protected against expectable strain and fastened adequately.
- Cables near moving machine parts (e.g. V-belts) must be wired at a minimum distance of 25 mm (see DIN VDE 0113 part 301; EN 60204-3-1; IEC 204-3-1).
- For safety it is preferred to wire the cables separately from each other.
- Observe all safety guidelines before undertaking conversions or modifications.
- For repair and maintenance use only original replacement parts.



Warnings in the instruction manual which point out particular risks of personal injury or risk to the machine are marked with this symbol wherever applicable.

- The control panel together with the drive is not an independently operating unit, but is designed to be incorporated into other machinery. It must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the EC Directive.

Save these instructions for future reference.

2 Use of the Control Panels

The control panels V810/V820 are suitable for the connection to controls type AB62CV, AB200V, AB220A and DA220C, as well as for FKV 82 and DC82 controls with the corresponding program and 9-pole/25-pole adapter (supplied with the unit). See instruction manual of the respective control.

When using these control panels, digital input of all parameters (times, speeds, number of stitches, functions) is possible.

Easy selection of recurring functions by pushbuttons.

3 Unit Consisting of

- | | | |
|-------------------------------|------|--------------------|
| ■ Control panel Variocontrol | V810 | - part no. 5970153 |
| ■ or | V820 | - part no. 5970154 |
| ■ Support for control panel | | - part no. 1112828 |
| ■ Velcro strips for fastening | | - part no. 0206909 |
| ■ Insertable strip | V810 | - part no. 0206898 |
| ■ or | V820 | - part no. 0206899 |
| ■ Adaptor 9/25pol. | | - part no. 0504539 |

4 Mounting of the Control Panel on the Machine

Mount the control panel **Variocontrol V810** and/or **V820** according to the instructions of the sewing machine manufacturer, before putting the control into service.

For mounting devices see annex B.



Attention!

When choosing the mounting place and when wiring the connection cable, follow the safety instructions in chapter 1.
It is especially important to keep a distance from moving parts..

5 Connection of the Control Panel to the Control



Attention!

Before plugging or unplugging the Variocontrol connecting plug, the drive must be disconnected by using the mains switch or by pulling off the mains plug.

In order to set up the electric connection, the plug of the control panel must be inserted into socket B776 of the control box and the union joint must be tightened.

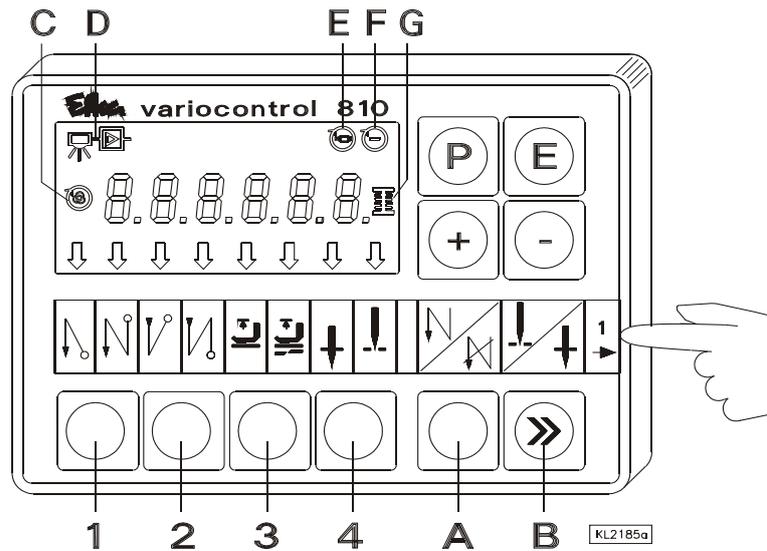
The position of the socket is indicated in the instruction manual of the corresponding control box.



Attention!

Use the standard insertable strip above the pushbuttons of the control panel only for controls whose functions correspond to the symbols. Replace the insertable strip for controls with different functions and read the corresponding instruction manual!

6 Operating Elements of the Control Panel V810



Use insertable strip whose symbols correspond to the type of control. Pull out the standard insertable strip by using a tool (e.g. tweezers), if necessary, and insert the appropriate strip. See annex A.

Functional Setting of the Pushbuttons

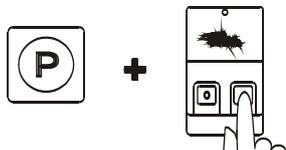
Pushbutton P	Recall or exit of programming mode
Pushbutton E	Enter button for modifications in the programming mode
Pushbutton +	Increase of the value indicated in the programming mode
Pushbutton -	Decrease of the value indicated in the programming mode
Pushbutton 1	Start backtack SINGLE / DOUBLE / OFF or start stitch condensing
Pushbutton 2	End backtack SINGLE / DOUBLE / OFF or end stitch condensing
Pushbutton 3	Automatic foot lifting at stop in the seam ON / OFF
Pushbutton 4	Automatic foot lifting after thread trimming ON / OFF
Pushbutton A	Basic position of the needle (bottom/upper dead center)
Pushbutton B	POSITION 1 / POSITION 2
Pushbutton A	Pushbutton for backtack suppression and/or recall
Pushbutton B	Pushbutton for needle up/down and/or shift button in the programming mode
Symbol C	Automatic speed is effective
Symbol D	Light barrier is on
Symbol E	Machine running
Symbol F	Limited speed is effective
Symbol G	Bobbin thread monitor is on. Symbol blinks when bobbin is empty.

7 Operation of Control Panel V810

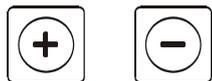
7.1 Programming the Code Number

Code number technician level => 1907 and/or supplier level => 3112

Press pushbutton P and turn power on. First digit blinks



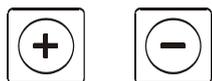
Press pushbutton + and/or - to select the first digit



Press pushbutton >>. Second digit blinks



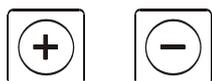
Press pushbutton + and/or - to select the second digit



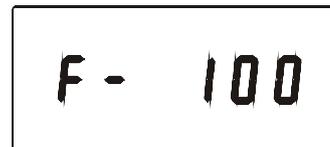
Press pushbutton >> twice. Fourth digit blinks



Press pushbutton + and/or - to select the fourth digit



Press pushbutton E. The first parameter on the technician level is displayed



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7.2 Selection of the Parameters

Note

The parameter numbers in the illustrations below serve as examples and may not be available in all program versions. In this case, the display shows the next possible parameter number. (See Parameter List of the respective control).

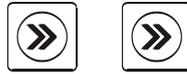
7.2.1 Direct Selection of the Parameters and Changing Parameter Values

After inputting the code number on the programming level



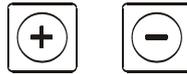
F - 100

Press pushbutton >> twice.
Second digit blinks



F - 100

Press pushbutton + and/or - to select the second digit



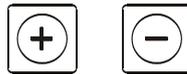
F - 130

Press pushbutton >>. Third digit blinks



F - 130

Press pushbutton + and/or - to select the third digit



F - 132

Press pushbutton E. Parameter value is displayed



on

Press pushbutton + and/or - to select the parameter value



off

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After inputting and/or changing the parameter value, continue as shown in the following example (possibilities **A** and **B**):

A)

Press pushbutton E. The next parameter number is displayed.



F - 133

Press pushbutton P. Exit programming.



Ab62cu

B)

Press pushbutton P. The same parameter number is displayed.



F - 132

Press pushbutton P. Exit programming.



Ab62cu

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The display varies according to the type of control.

7.2.2 Selection by Using the +/- Pushbuttons

After inputting the code number on the programming level.



F - 100

Select the previous parameter by pressing the - pushbutton.



x)

F - 015

Select the next parameter by pressing the + pushbutton.



x)

F - 110

After pressing pushbutton E, the parameter value is displayed.



x)

200

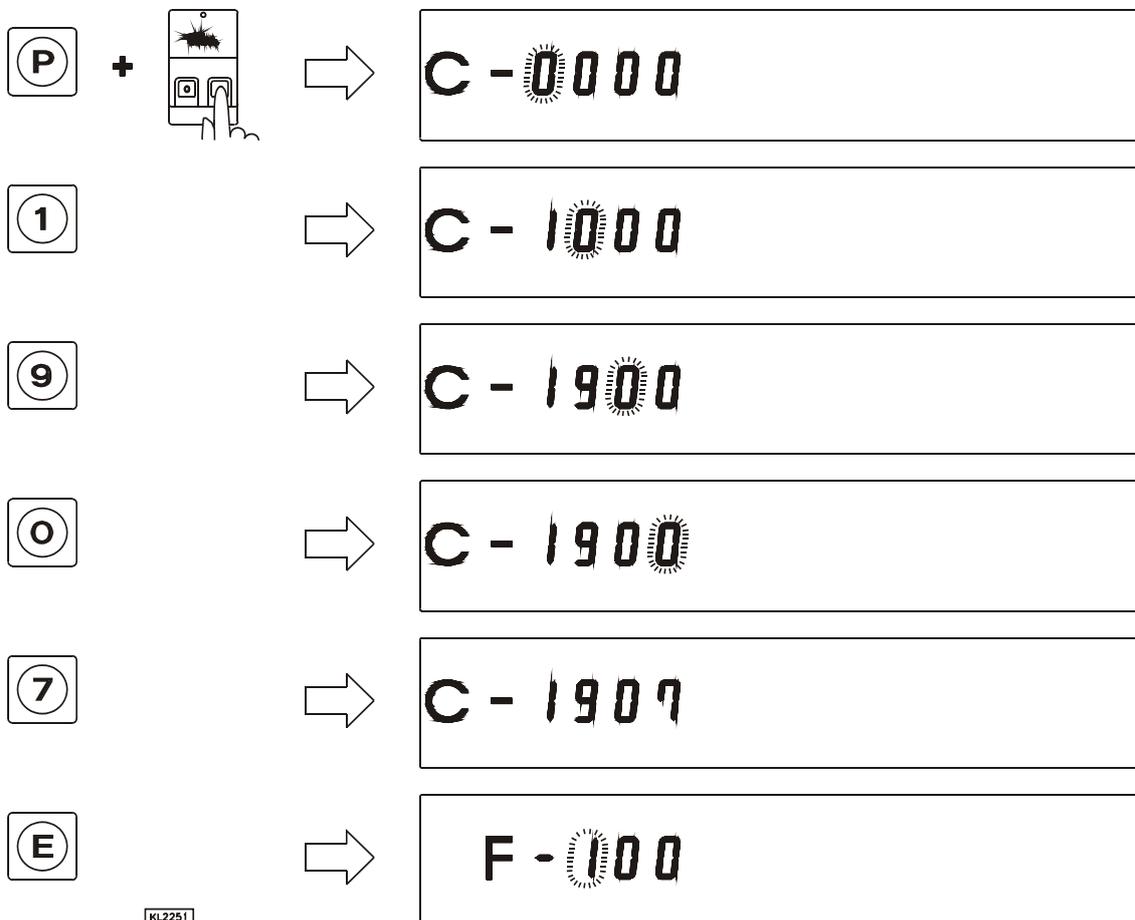
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The parameters and/or parameter values marked with *) can be differ according to the type of control. Please observe the corresponding Parameter List!

9 Operation of Control Panel V820

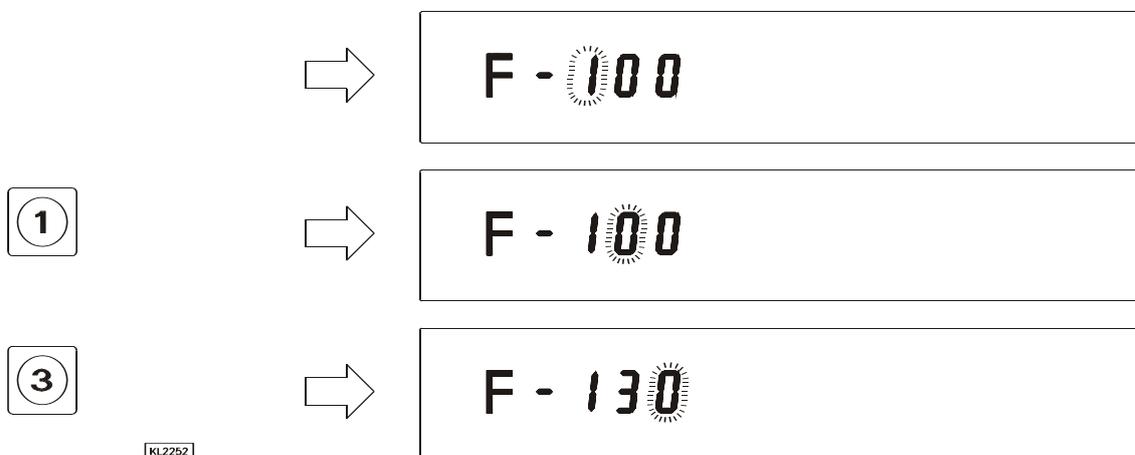
9.1 Code Number Input

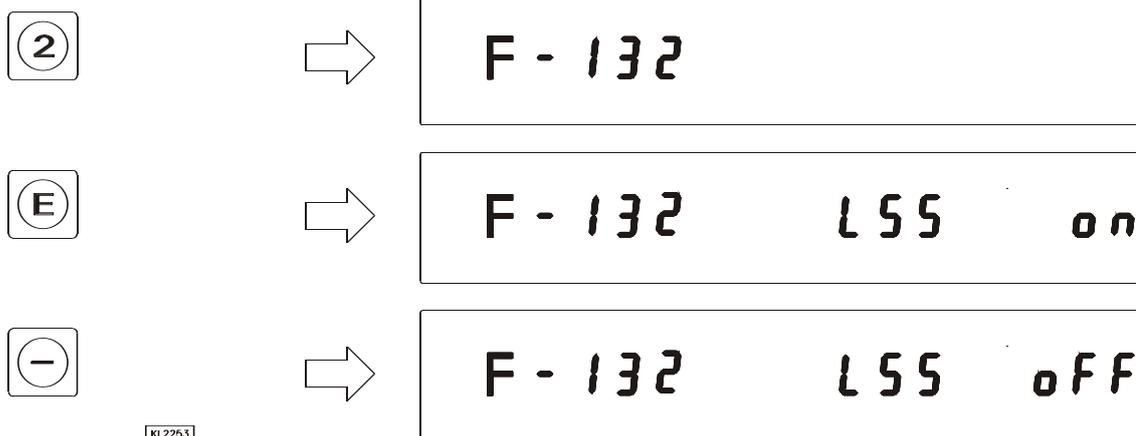
Code number technician level => 1907 and/or supplier level => 3112



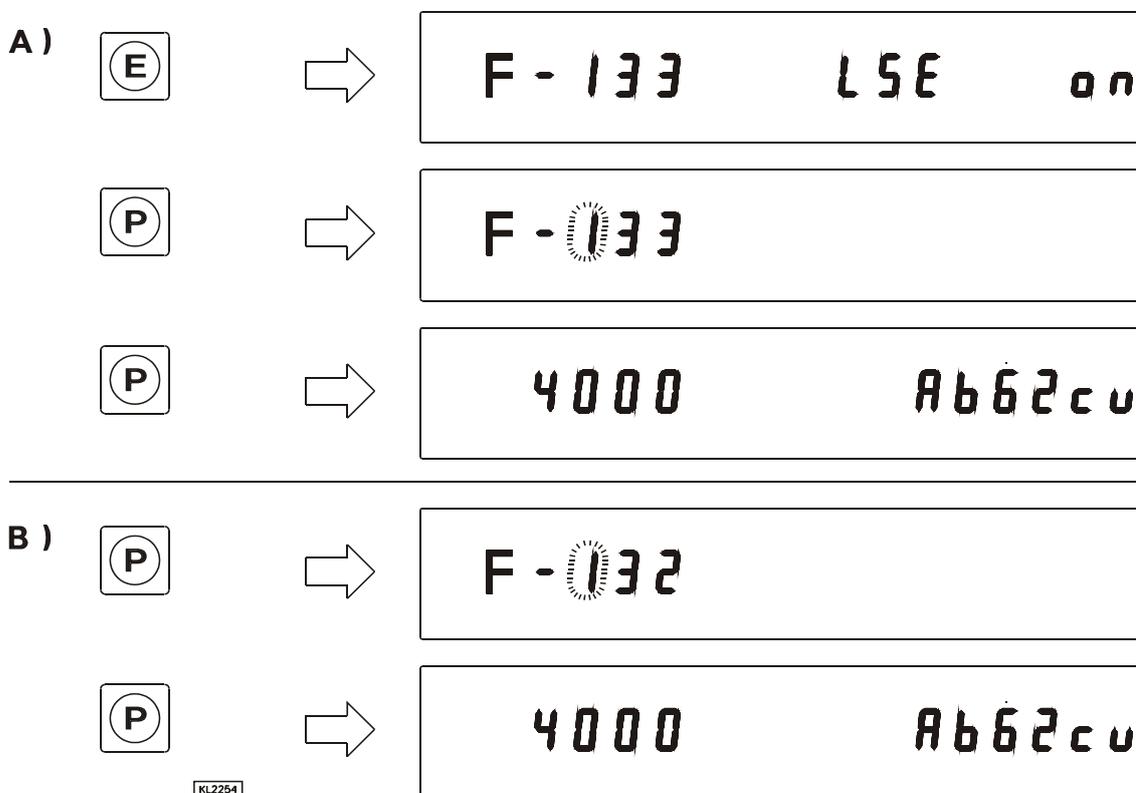
9.2 Selection of the Parameters and Changing Parameter Values

After inputting the code number on the programming level.





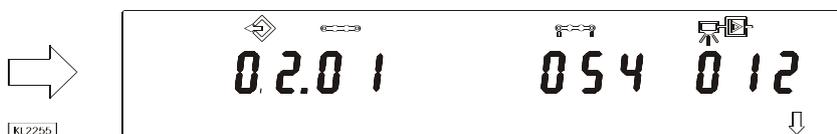
After inputting and/or changing the parameter value, continue as shown in the following example (possibilities **A** and **B**):



The display varies according to the type of control.

9.3 LC Display in the Teach-in Mode

The following illustration shows the arrangement of symbols of the **teach-in** function. The programming of **teach-in** is described in the instruction manual of the mounted type of control.



For your notes:

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