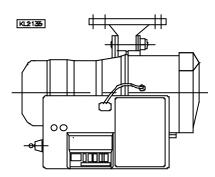


# variostop - Specification

Type V....1F82AV2306..-N..

14/06/2000 (EN) Replacing: 1F82AV2216 Sheet 1/2



#### FIELD OF APPLICATION

Lockstitch machines of various manufacturers.

#### With connections and/or outputs for:

Thread trimmer position 1...1A (max. 3.0A)
Thread trimmer position 1A...2 (max. 3.0A)
Thread tension release (max. 3.0A)
Thread wiper (max. 3.0A)
Sewing foot lift (max. 6.5A/3A)
Backtacking (max. 6.5A/3A)

The total power of the outputs is to be limited to 96VA! Power supply 24V=, max. 0.5A for further additional devices.

# CHARACTERISTICS

The control has a digital touch panel for programming all parameters (functions, times, speeds, etc.). When a Variocontrol V820 control panel is connected, additional functions are possible, e. g. 8 seam patterns with a total of 40 seams (order nos. of the V810/V820 control panels see Special Accessories).

By means of the incorporated actuator, 12 speed stages can be activated. Stage 1 (positioning speed) and stage 12 (maximum speed) can be set. The maximum speed of the set value can be reduced by stages. The basic setting of the maximum speed is not affected. Stages 2...11 (intermediate speeds) adapt automatically to the respective maximum speed.

#### THE FOLLOWING FUNCTIONS ARE AVAILABLE AND CAN BE ADAPTED TO THE MACHINE:

- SOFTSTART: On / off; number of stitches and speed at the start of the seam can be selected (2 stitches / factory setting: 500 RPM).
- BASIC POSITION: Needle position at stop in the seam up/down.
- BRAKING POWER AT MACHINE STANDSTILL: Braking effect can be set.
- **SEWING FOOT LIFT:** At stop in the seam automatic / by pedal, after thread trimming automatic / by pedal, start delay from lifted sewing foot can be set.
- START AND END BACKTACK: Can be set separately, single / double / off, possibility of compensation between forward and backward section, length of each backtacking section and speed selectable.
- START AND END ORNAMENTAL BACKTACK: Stop time can be set.
- THREAD TRIMMER: On / off; signals for various manufacturers.
- THREAD WIPER: On / off.
- STITCH COUNTING: On / off.
- SPEED RANGE: 70 RPM up to 9900 RPM (depending on machine).
- SPEED LIMITATION: Can be varied during machine run and at intermediate stop.

# SWITCHING FUNCTIONS WHEN USING A VARIOCONTROL V810/V820:

# V810

- Start backtack single / double / off
- End backtack single / double / off
- Automatic sewing foot lift at stop in the seam / after thread trimming.
- Basic position of the needle at stop in the seam up / down.
- 2 pushbuttons which can be set with different input functions.

#### V820

- Start backtack single / double / off
- End backtack single / double / off
- Automatic sewing foot lift at stop in the seam / after thread trimming.
- Basic position of the needle at stop in the seam up / down.
- Stitch counting seam forward / backward / off.
- Light barrier function uncovered-covered / covered-uncovered / off.
- Thread trimmer and thread wiper.
- Function key programmable.
- Programming seams TEACH IN; a maximum of 8 patterns with a total of 40 seams is possible, feeding direction can be inverted.
- 2 pushbuttons which can be set with different input functions.

# PUSHBUTTONS AND SWITCHES FOR THE FOLLOWING FUNCTIONS CAN BE CONNECTED:

- NEEDLE POSITION UP/DOWN: Needle up / needle up-down / single stitch / full stitch
- INTERMEDIATE BACKTACK
- BACKTACK SUPPRESSION/RECALL

# • IF THE LIGHT BARRIER MODULE IS NOT CONNECTED, THE LIGHT BARRIER INPUT CAN BE USED FOR THE FOLLOWING TOUCH AND/OR SWITCHING FUNCTIONS:

- NEEDLE POSITION UP and/or DOWN
- NEEDLE POSITION UP
- SINGLE STITCH: Basting stitch
- FULL STITCH
- NEEDLE TO POSITION 2
- SEWING FOOT UP WITH PEDAL IN POS. 0 (neutral)
- RESET STITCH COUNTER

- MACHINE RUN BLOCKAGE: Positioned stop; break contact [N.C.] / make contact [N.O.] selectable
- MACHINE RUN BLOCKAGE: Unpositioned stop; break contact [N.C.] / make contact [N.O.] selectable
- AUTOMATIC SPEED
- LIMITED SPEED WHEN USING THE PEDAL
- INTERMEDIATE BACKTACK
- BACKTACK SUPPRESSION / RECALL

## UNIT CONSISTING OF:

- 1 induction motor with electromagnetic clutch
- type V....\*1)

  1 control box type 1F82AV2306 with power pack N30
- 1 position transmitter type P5-2

- 1 set of standard accessories B10 consisting of:
- 1 belt guard, complete (for pulleys up to 132 mmØ)
- set of hardware
- motor mounting foot
- 1 bracket 1 and 2, short
  - documentation
- I set of accessories Z1 consisting of:
- 1 pitman rod, complete
- 1 10-pin plug (MES 100)
- 1 pulley DIN42692-L (size according to request) \*2)

# SPECIAL ACCESSORIES:

SPECIAL ACCESSORIES, AGAINST EXTRA CHARGE:	Part No.
Control panel Variocontrol V810 with 9-pole/25-pole adapter	5970153
Control panel Variocontrol V820 with 9-pole/25-pole adapter	5970154
Reflection light barrier module LSM001A	6100028
Belt guard for pulleys up to 180 mm ø	7960012
Solenoid type EM1(for e. g. sewing foot lift, backtacking)	available versions see
3 3, 3,	specification "solenoids"
Adapter cord for the connection to JUKI high-speed seamers with index –16	1112298
(large Molex plugs)	
Adapter cord for the connection to JUKI high-speed seamers with index -7	1112367
(Molex Minifit)	
Adapter cord for the connection to BROTHER cl. 737-913 without sewing foot lift	1100182
Adapter cord for the connection to BROTHER cl. 737 (setting as with Brother Mark II)	1112310
Adapter cord for the connection to DAEWOO	1112311
Adapter cord for the connection to MITSUBISHI DY-359	1112306
Adapter cord for the connection to AISIN high-speed seamers AD320, 340, 345; 3310 and overlock	1112476
EK1 and TOYOTA LS2-AD158-203	
Extension cable for external actuator, approx. 750 mm long, complete with plug and socket connector	1111845
Extension cable for external actuator, approx. 1500 mm long, complete with plug and socket connector	1111787
5-pin plug with locking screw for the connection of another external actuator	0501278
External actuator type EB301 with approx. 250 mm connecting cable and 5-pin plug with locking screw	4170011
External actuator type EB302 (softer spring) with approx. 250 mm connecting cable and 5-pin plug	4170012
with locking screw	
Foot control type FB301 (one pedal) for standing operation with approx. 1400 mm connecting cable	4170013
and plug	į
Foot control type FB302 (three pedals) for standing operation with approx. 1400 mm connecting cable	4170018
and plug	
Potential equalization cord 700 mm long, LIY 2.5 mm², grey with forked cable brackets on both sides	1100313
Fitting piece for position transmitter	0300019
Extension cable for position transmitter P5, approx. 1100 mm long, complete with plug and socket	1111584
connector	
Extension cable for position transmitter P5, approx. 315 mm long, complete with plug and socket	1111229
connector	İ
Knee switch type KN3 (pushbutton) with cord of approx. 950 mm length without plug for activating	5870013
the functions mentioned overleaf	-
Sewing light transformer	please indicate line voltage
	and sewing light voltage
	(6.3V or 12V)
3-pin plug with locking screw (MAS 3100)	0500402
10-pin plug (MES 100)	0500357

- \*1) Available motors see next page
- \*2) The following sizes are available: B58-L, B63-L, B67-L, B71-L, B75-L, B80-L, B85-L, B90-L, B95-L, B100-L, B106-L, B112-L, B118-L, B125-L, B132-L, B140-L

Note: Select the pulley such that the maximum speed of the machine corresponds to the speed indicated on the motor nameplate!









# variostop - Specification

Type V....1F82AV2306..-N..

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## AVAILABLE MOTORS

