

# **EFKA** variostop modular

**CONTROL**

**2D72AV2053**

## **PARAMETER LIST**

**No. 402092**

**english**

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**EFKA**

FRANKL & KIRCHNER  
GMBH & CO KG

**EFKA**

EFKA OF AMERICA INC

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EFKA ELECTRONIC MOTORS  
SINGAPORE PTE. LTD.

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**OPERATOR LEVEL**

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
F-000 c1	Counting start of seam to signal A3 ON		100	0	10		B
F-001 c2	Counting light barrier uncovered to signal A4 ON		40	0	0		B
F-002 c3	Counting signal A4 to seam end		100	10	40		A
F-003 c4	Counting at the start of the seam to signal A3 ON		100	10	25		A
F-004 LSF	Number of stitches of the light barrier filter for knitted fabrics		254	0	8		B
F-080 PoS	Basic position, position 1 / position 2		2	1	2		B

**TECHNICIAN LEVEL****Code No. 1907**

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
<b>Group 0 Stitches/Countings</b>							
F-100 SSc	Number of Softstart stitches		254	0	4		A
<b>Group 1 Speeds</b>							
F-110 n1	Positioning speed	RPM	390	80	180		A
F-111 n2-	Upper limit setting range n-max	RPM	7500	400	6300		B
F-115 n6	Softstart speed	RPM	1500	100	1500		A
F-118 n12	Automatic speed for stitch counting	RPM	7500	400	4000		A
F-119 nSt	Speed stage graduation 1 = linear 2 = slightly progressive 3 = highly progressive		3	1	2		A

**TECHNICIAN LEVEL****Code No. 1907**

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
<b>Group 2 Speeds</b>							
F-121 n2_	Lower limit setting range n-max	RPM	7500	400	400		A
F-128 ASd	Start delay, when start command is given by covering the light barrier (see F-129)	ms	2000	0	100		B
<b>Group 3 Switching Functions</b>							
F-130 LSF	Light barrier filter for knitted fabrics	on/off			on		B
F-132 LSS	Blocking of machine start, when light barrier "uncovered"	on/off			on		B
F-134 SSt	Softstart	on/off			on		A
F-139 nIS	Display of machine speed	on/off			on		B
<b>Group 5 Time Functions</b>							
F-153 brt	Braking power at machine standstill	ms	50	0	12		B

## TECHNICIAN LEVEL

Code No. 1907

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
<b>Group 7 Service Functions</b>							
F-170 Sr1	Setting the reference position (Position 0) = Needle point at the height of the needle plate, from downward movement of the needle in the direction of rotation of the motor shaft						A
F-171 Sr2	Adjustment of the needle positions 1 = lower needle position  1A = off position  2 = upper needle position  2A = off position  The positions 3 and 3A are to be set to 000		510	0	190  090  380  318		B  B  B  B
F-172 Sr3	Display of the signal Position 1 to 1A (LED next to pushbutton 1 lights up) or position 2 to 2A (LED next to pushbutton 2 lights up)						A

## TECHNICIAN LEVEL

Code No. 1907

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
<b>Group 7 Service Functions</b>							
F-173 Sr4	<p>Checking the signal outputs</p> <p>Pushbutton 1 = Lift jamming device (A7)</p> <p>Pushbutton 2 = Presser foot lifting</p> <p>Pushbutton 3 = ---</p> <p>Pushbutton 4 = Suction current in the thread chain cutter channel (A1)</p> <p>Pushbutton 5 = Suction current in the jamming device (A2)</p> <p>Pushbutton 6 = Nozzle (A8)</p> <p>Pushbutton 7 = Nozzle in the thread chain cutter channel (A5)</p> <p>Pushbutton 8 = Thread chain positioning device (A3)</p> <p>Pushbutton 9 = Thread tension release (A4)</p> <p>Pushbutton 0 = ---</p> <p>By actuating the switches connected to the control the function of these switches is checked and displayed with "on/off".</p>						A
F-178	Language selection				dEU--USA ESP--Fra		A
F-179	Display of the program number of the control with index (top line) and identification number (bottom line)						A

## TECHNICIAN LEVEL

Code No. 1907

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
<b>Group 8 Functions of Specific Types</b>							
F-180 ti1	Activation delay of jamming device lifting and suction current ON at the seam end	ms	1000	100	100		A
F-181 ti2	Activation delay presser foot up at the seam end	ms	1000	100	100		A
F-182 ti3	Activation delay nozzle in the thread chain cutter channel at the seam end	ms	100	10	60		A
F-183 ti4	Operating time nozzle in the thread chain cutter channel at the seam end	ms	1000	100	200		A
F-184 ti5	Switch-off delay suction current in jamming device at the seam end	ms	1000	100	300		A
F-185 ti6	Start delay at the start of the seam in operation mode seam backlatching after backward actuation	ms	1000	100	250		A
F-186 ti7	Switch-off delay suction current in the thread chain cutter channel at the seam end in operation mode seam backlatching after backward actuation	ms	1000	100	250		A
F-187 c5	Counting at the start of the seam with released thread tension		5	0	0		B
F-188 FK <sub>n</sub>	Pull thread chain two times	on/off			off		C
F-189 Ket	Thread chain cutter/signal "run" (SSLKT)	on/off			off		D
F-190 FKA	Thread chain stitch with automatic speed	on/off			off		D

## TECHNICIAN LEVEL

Code No. 1907

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
<b>Group 9 Functions of Specific Types</b>							
F-197 FMb	Function Memory Box	on/off			off		A
F-198 Foc	Format Memory Card	on/off			off		A

**SUPPLIER LEVEL****Code No. 3112**

Parameter	Designation	Unit	max	min	Preset	Customer	Ind. Prg. No.
<b>Group 0 Time Functions</b>							
F-200 t2	Activation delay of presser foot lifting, when heeling the pedal half back	ms	500	20	60		A
F-201 t3	Start delay after presser foot lifting	ms	500	0	80		A
F-207 br1	Braking effect when changing the preset value $\leq 4$ stages		100	1	80		A
F-208 br2	Braking effect when changing the preset value $\geq 5$ stages		100	1	80		A
<b>Group 2 Speeds</b>							
F-220 ALF	Accelerating power of the motor		150	1	80		A
<b>Group 3 Switching Functions</b>							
F-230 AP2	Automatic correction of the upper needle position (position 2)	on/off			off		A
F-231 Sn1	Execution of the first stitch after power on at positioning speed	on/off			off		B
<b>Group 8 Switching Functions</b>							
F-280 LSP	Function "blocking of machine run"	on/off			off		A



## STATUS DISPLAYS

Display	Designation
Error 0	Wrong code or function number
Error 1	Position transmitter defective or undervoltage identified
Error 2	Varioreselect wrong
Error 3	Pedal not in position zero (neutral) after power on
Error 4	Reference point missing

For your notes

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