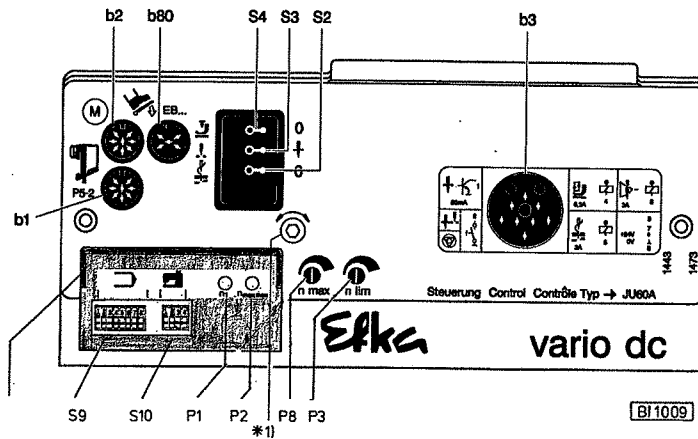# Efka vario dc

CONTROL   **JU60A**

CONCISE INSTRUCTIONS

No. 402064 english

⚠

Attention! These concise instructions are not intended to replace the instruction manual which is provided with the unit, but to assist with setting the functions.
Nevertheless the instruction manual is to be read and to be used by all persons working on the machinery.

Service flap

The Operating and Connection Elements

Socket:	b1	-	Positioner
	b2	-	Commutation transmitter
	b3	-	Sewing machine connection
	b80	-	external speed controller

Flip switch:	S2	-	Thread trimmer on/off
	S3	-	Basic position needle down/up
	S4	-	Presser foot lifting at stop in the seam up/down

*1 - Lock of the service flap (standard as from 01/93)
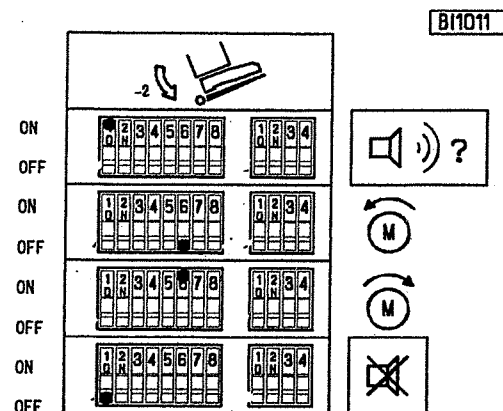   (Turn to the left = open, turn to the right = closed)

Setting Instructions

| NOTE | Unplug sewing machine (socket b3) before initial operation. |

Sense of rotation of the motor shaft

I.   Brief full heelback

II. S9/1 = ON   - Programming mode ON

III. S9/6 = OFF - Pulley turns left

     S9/6 = ON   - Pulley turns right

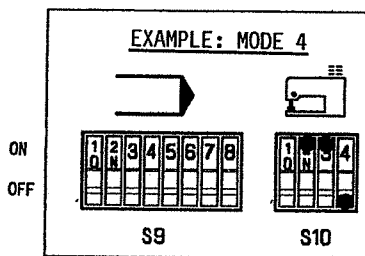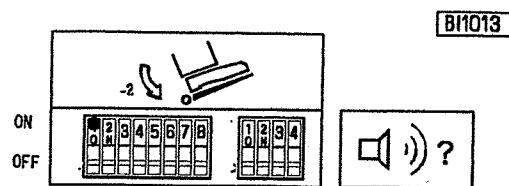IV. S9/1 = OFF - Programming mode OFF

Speed class

I. Brief full heelback

II. S9/1 = ON - Programming mode ON

III. S9/8 = OFF - Maximum speed 5000 RPM

    S9/8 = ON - Maximum speed 10000 RPM

IV. S9/1 = OFF - Programming mode OFF

n max.
5000 RPM

n max.
10000 RPM
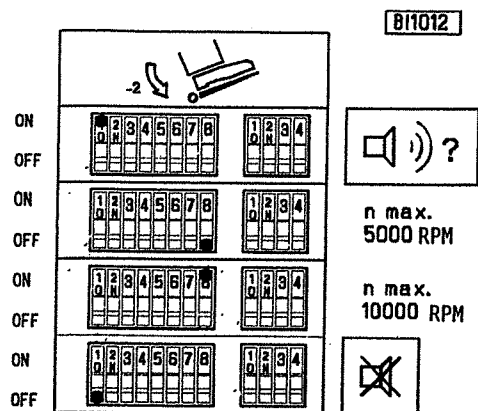
Type of sewing machine

I. Brief full heelback

II. S9/1 = ON   - Programming mode ON

III. Set mode according to table below

| S10 /2	S10 /3	S10 /4	Mode NO.	Type of sewing machine
OFF	OFF	OFF	1	Chain stitch mode 1
ON	OFF	OFF	2	Chain stitch mode 2
OFF	ON	OFF	3	Overlock mode
ON	ON	OFF	4	Lock stitch mode 1
OFF	OFF	ON	5	Lock stitch mode 2
ON	OFF	ON	6	Lock stitch mode 2
OFF	ON	ON	7	Lock stitch mode 2
ON	ON	ON	8	Stitch condensation mode

EXAMPLE: MODE 4

S9   S10
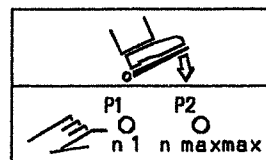
IV. S9/1 = OFF   Programming mode OFF

Maximum speed

I. Turn P8 completely to the right

II. Pedal fully forward

III. Set max. machine speed with P2
     Turn to the left = lower; turn to the right = higher

IV. Set max. operating speed with P8
     Turn to the left = lower; turn to the right = higher

P8   P3
n max   n lim

P1   P2
n 1 n maxmax

P8   P3
n max   n lim
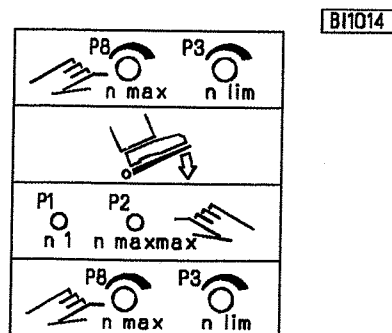
Positioning speed

BI1015

I.   Pedal forward to the first speed stage

II. Set speed with P1
     Turn to the left = lower; Turn to the right = higher

Braking power at standstill

BI1016
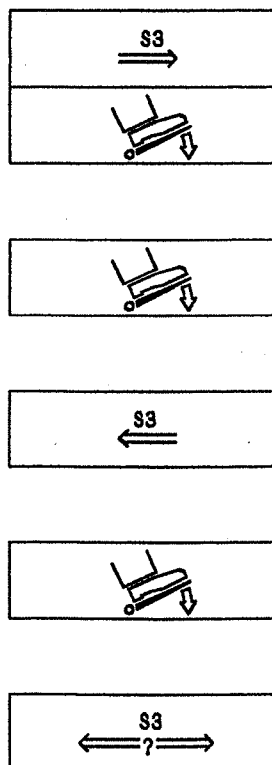
I.   Brief full heelback

II.   S9/1 = ON   - Programming mode ON

III. Set switches S2, S3, S4 to the left

IV.   Set braking effect with P3

V.   Sewing start, positioning, check braking power

VI.   S9/1 = OFF   - Programming mode OFF

VII. Set switches S2, S3, S4 to original position

Positioner

BI1017
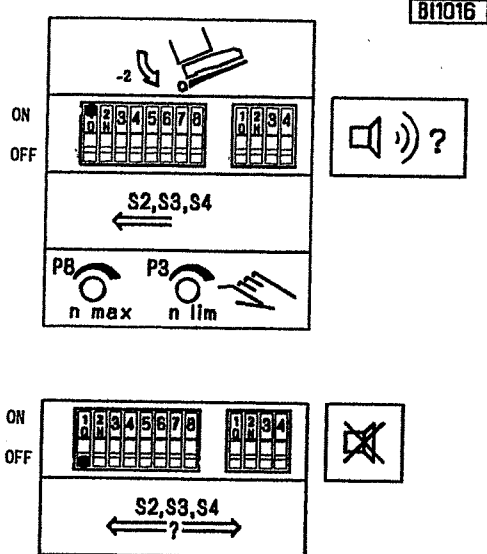
I.   S3 = to the right (basic position of the needle down)

II.   Push pedal briefly forward

III. Adjust central positioner disc

IV.   Push pedal briefly forward

V.   Check stop position

VI.   S3 = to the left (basic position of the needle up)

VII. Adjust outer positioner disc

VII. Push pedal briefly forward

IX.   Check stop position

X.   Set desired stop position with S3

| NOTE | For setting the activation times of the outputs plug in sewing machine, when power is off. |

Activation times of the outputs

I.   Brief full heelback

II. S9/1 = ON   - Programming mode ON

III. Set switches S2, S3, S4 according to table below

IV. Set outputs (final stages) for the selected type of sewing machine (mode) with P3 and P8

V.   Check setting by briefly starting to sew and trimming
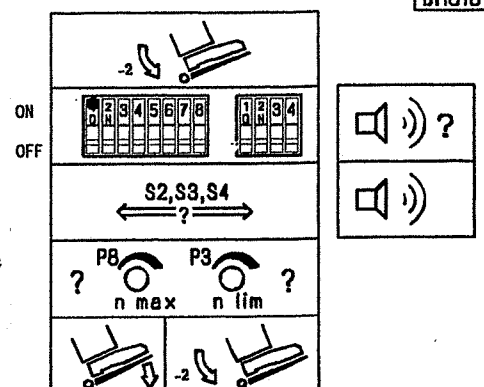
Programming of the final stages (only when programming mode is on)						
Mode	Final stage	S4	S3	S2	Effect potentiometer P8	Effect potentiometer P3
Lock stitch 1	MII FA	R	L	L	none	none
	MIII FW	L	R	L	none	FW operating time (t6)
	MI FL	L	L	R	delay after FW (t7)	start delay after FL (t3)
Lock stitch 2	MII FA	R	L	L	none	FA operating time (t8)
	MIII ML	L	R	L	none	none
	MI FL	L	L	R	delay after FW (t7)	start delay after FL (t3)
Chain stitch 1	MII FA	R	L	L	none	FA operating time (t8)
	MIII FW	L	R	L	delay from end of FA to FW (t9)	FW operating time (t6)
	MI FL	L	L	R	delay after FW (t7)	start delay after FL (t3)
Chain stitch 2	MII FA	R	L	L	none	FA operating time (t8)
	MIII FW	L	R	L	delay from beginning of FA to FW (t9)	FW operating time (t6)
	MI FL	L	L	R	delay from beginning of FA to FL (t7)	start delay after FL (t3)
Overlock	MII FL	R	L	L	none	FA operating time (t8)
	MIII ML	L	R	L	none	none
	MI FL	L	L	R	delay after FW (t7)	start delay after FL (t3)
Stitch condensing	MII FA	R	L	L	none	FA operating time (t8)
	MIII STV	L	R	L	start delay -> stitch condensing (t9)	stitch condensing operating time (t6)
	MI FL	L	L	R	delay from beginning of FA to FL (t7)	start delay after FL (t3)

FA = thread trimmer/trimming (max. 3A)   FW = thread wiper/wiping(max. 3A)
FL = presser foot lifting (max 6.5A)   ML = motor running (max. 3A)
STV = stitch condensing (max. 3A)

VI. S9/1 = OFF   - Programming mode OFF

VII. Set P8 (max. operating speed) at original value
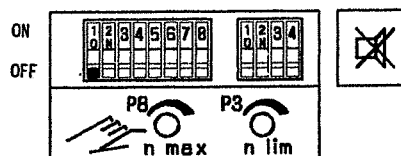
Further functions that can be set with S9/...

I.   Function of the switch (pushbutton) connected to socket B3,
        blocking of machine run or needle up/down

I.I   S9/3 = OFF - S61 causes needle up and/or needle up/down
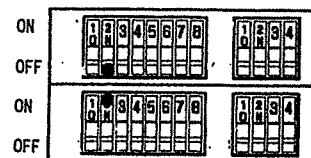   (dependent on S9/2, no blocking of machine run)

I.II   S9/3 = ON - S61 causes blocking of machine run
                     (Funktion Nadel hoch/tief entfällt)
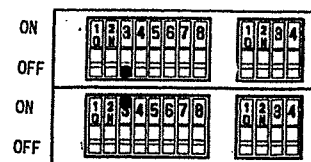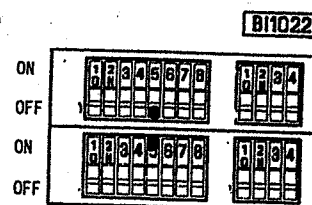
II.   Needle up or up/down

II.I   S9/2 = OFF - Needle up/down

II.II   S9/2 = ON - Only needle up

III.   Blocking of machine run as break contact (N.) or make contact (N.O.)

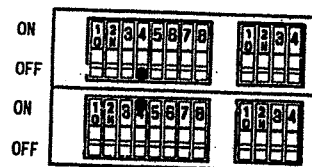III.I   S9/5 = OFF - Blocking of machine run with open switch contact

III.II S9/5 = ON - Blocking of machine run with closed switch contact

IV.   Presser foot lifting at seam end

IV.I   S9/4 = OFF - Presser foot lifting not automatic
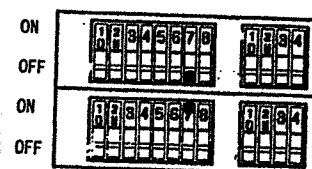
IV.II   S9/4 = ON - Presser foot lifting automatic

V.   Softstart on/off

V.I   S9/7 = OFF - Softstart off

V.II   S9/7 = ON - Softstart on

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