

EFKA

dc15xx

CONTROL

AB425S5850



Instruction Manual

- Adapter Cords

No. 402328 English

Important Notes

The particulars used in various figures and tables, such as type, program number, speed, etc., serve as examples. They may differ from those in your display.

For current versions of the Instructions for Use and Lists of Parameters, necessary for operating EFKA drives in accordance with regulations, please refer to the EFKA web site www.efka.net, page "Downloads".

On our web site you will also find the following supplementary instructions for this control:

- ✘ General instructions for use and programming
- ✘ Use with USB Memory Stick
- ✘ Use of the C200 compiler
- ✘ Adapter cords

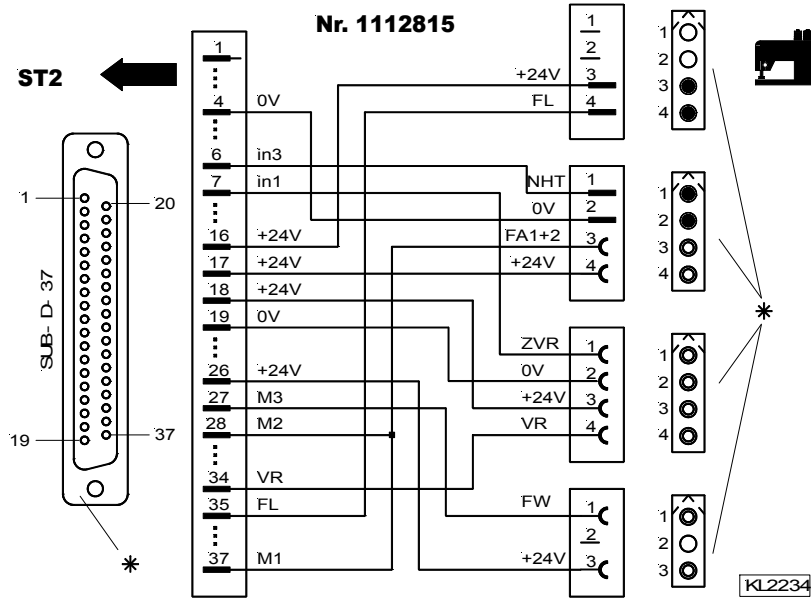
CONTENTS	Page
1 Adapter Cords for Special Machines - Overview	4
2 Adapter Cords – Interconnection Diagrams	5

1 Adapter Cords for Special Machines - Overview

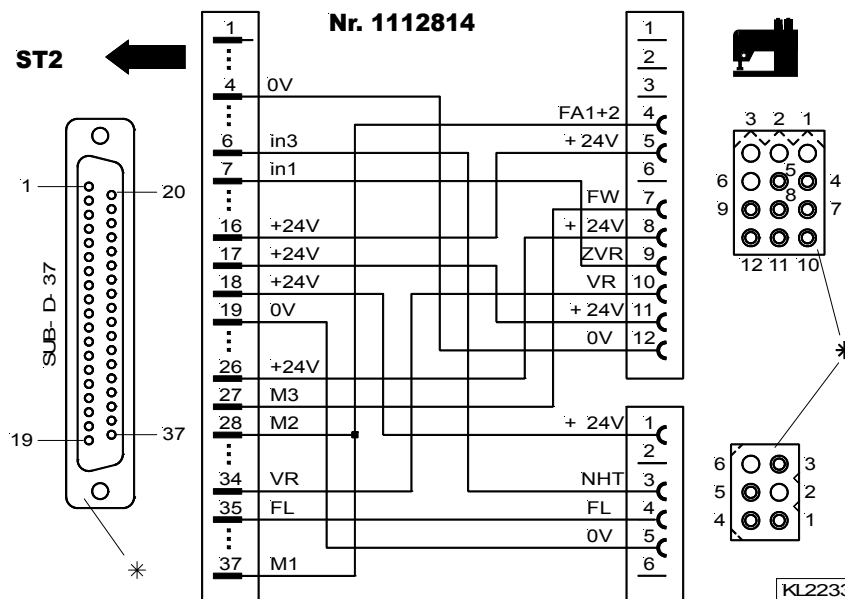
Machine / Type / Model	Material No.
AISIN high-speed seamer AD3XX, AD158, 3310 and overlock machine EK1	1112815
BROTHER model 737-113, 737-913	1113420
BROTHER lockstitch machine with 100 Ω select resistor, models 7xxx, B84xx, 877B, B87xx, 878B (mode 31)	1113420
BROTHER chainstitch machine with 150 Ω select resistor, models FD3-B257, 25xx, 26xx, 27xx (mode 32)	1112822
BROTHER models B721, B722, B724, B737, B748, B772, B774, B778, B842, B845, B872, B875 <i>Connection of the position sensor incorporated in the handwheel</i>	1113433
BROTHER model B891	1113290
DÜRKOPP ADLER models 210 and 270	1112845
GLOBAL model CB2803-56	1112866
JUKI high-speed seamer with index -6	1112816
JUKI high-speed seamer with index -7	1113132
JUKI lockstitch machines <i>Connection of the position sensor incorporated in the handwheel</i>	1113157
JUKI lockstitch machine models LU1510-7 and LU1521N-7	1113557
JUKI lockstitch machine model DNU1541-7	1113557
JUKI lockstitch machine model DNU1541-7 <i>Connection of the position sensor incorporated in the handwheel</i>	1113558
JUKI lockstitch machine models LU2210, LU2260	1113526
JUKI lockstitch machine model LU2220N-7	1113704
KANSAI machine model RX 9803	1113130
PEGASUS models W500/UT, W600/UT/MS with or without stitch condensing	1112821
PEGASUS backlatch machine	1113234
PEGASUS chainstitch machine MHG-100	1113267
PFAFF models 563, 953, 1050, 1180 (without thread monitor)	1113491
PFAFF models 1425, 1525	1113324
RIMOLDI model F27	1113096
SINGER models 211, 212U, 212UTT and 591	1112824
UNION SPECIAL lockstitch machine model 63900AMZ (in replacement of US80A)	1112823
UNION SPECIAL model 34700 with stitch lock	1112844
UNION SPECIAL models 34000 and 36200 (in replacement of US80A)	1112865
UNION SPECIAL models CS100 and FS100	1112905
YAMATO VC/VG series chainstitch machines + stitch lock	1113345
YAMATO backlatch machine ABT3	1112826
YAMATO backlatch machine ABT13, ABT17	1113205
MITSUBISHI lockstitch machines <i>Connection of the position sensor incorporated in the handwheel</i>	1113411

2 Adapter Cords – Interconnection Diagrams

Machine / Type / Model		Material No.
AISIN high-speed seamer AD3XX, AD158, 3310 and overlock machine EK1		1112815
Setting the functional sequence	Thread trimming mode	→ Set parameter 290 = 0
Setting the functions of the keys	Input in1	→ Set parameter 240 = 16
	Input in3	→ Set parameter 242 = 1

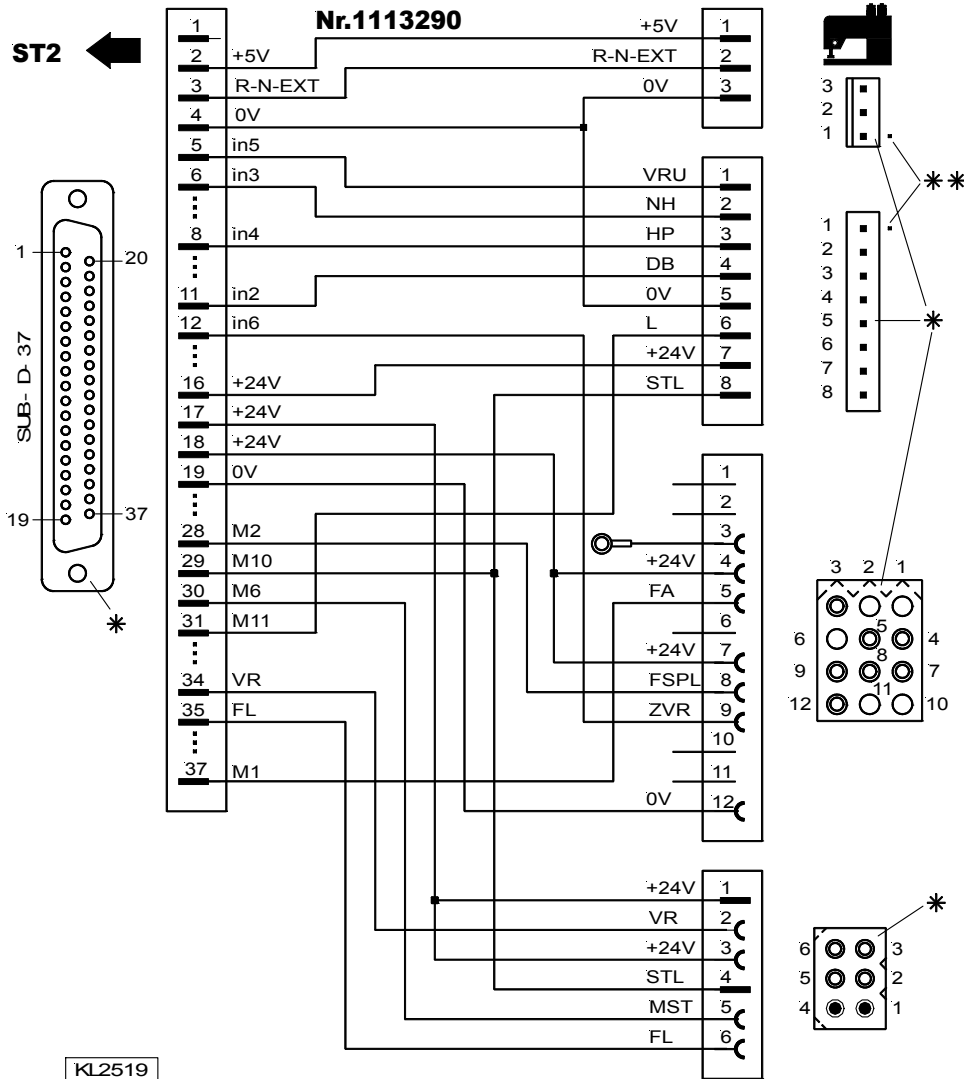


Machine / Type / Model		Material No.
BROTHER model 737-113, 737-913		1113420
BROTHER models B721, B722, B724, B737, B748, B772, B774, B778, B842, B845, B872, B875		1113433
<i>Connection of the position sensor incorporated in the handwheel</i>		
Setting the functional sequence	Thread trimming mode	→ Set parameter 290 = 0
Setting the functions of the keys	Input in1	→ Set parameter 240 = 16
	Input in3	→ Set parameter 242 = 1



*) View: Outgoing connecting cable

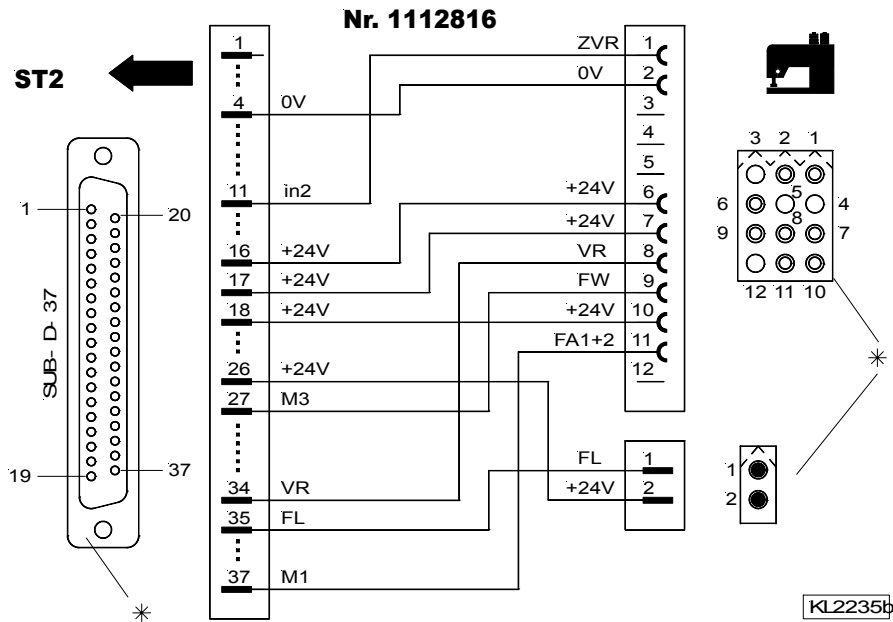
Machine / Type / Model		Material No.
BROTHER Model B891		1113290
Connection of the position sensor incorporated in the handwheel		1113433
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 22
Setting the functions of the keys (Automatic setting)	Input in1 →	Set parameter 240 = 12
	input in2 →	Set parameter 241 = 22
	Input in3 →	Set parameter 242 = 2
	Input in4 →	Set parameter 243 = 14
	Input in5 →	Set parameter 244 = 17
	Input in6 →	Set parameter 245 = 16



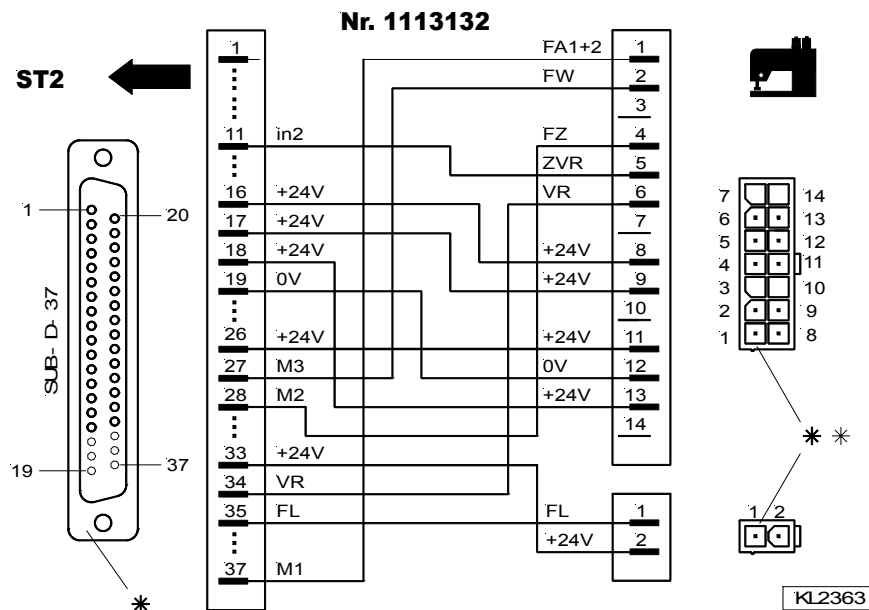
- in2** = Input speed limitation n11 (flip-flop 2) output ST2/29 is active according to setting of parameter 186 (DB)
- in3** = Input needle up (NH)
- in4** = Input high lift for walking foot with speed limitation n10 (flip-flop 1) (HP)
- in5** = Input stitch regulator suppression / stitch regulator recall (VRU)
- in6** = Input intermediate backtack / intermediate stitch condensing (ZVR)

*) View: Outgoing connecting cable
 **) Attention: Note the mark on pin 1 of the connector strips!

Machine / Type / Model			Material No.
JUKI high-speed seamer with index -6			1112816
Connection of the position sensor incorporated in the handwheel			1113157
Setting the functional sequence	Thread trimming mode	➔	Set parameter 290 = 14
Setting the functions of the keys	Input in2	➔	Set parameter 241 = 16

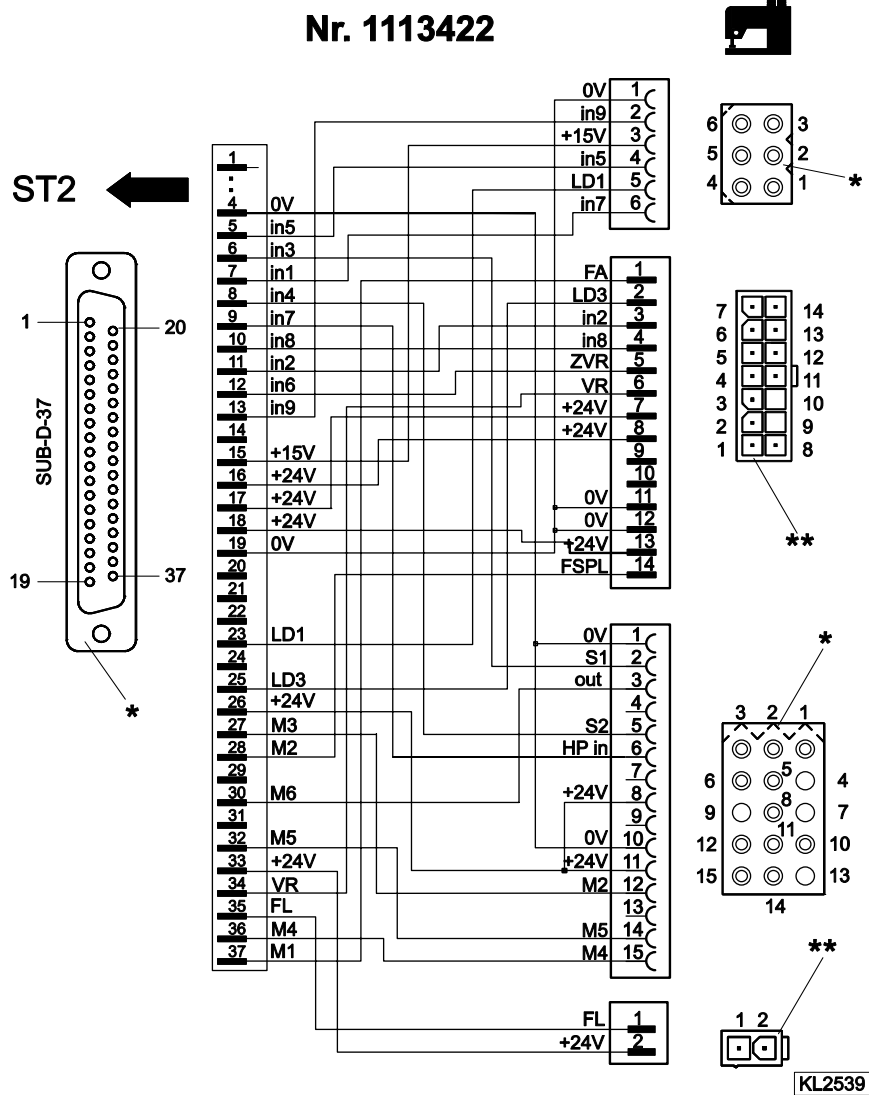


Machine / Type / Model			Material No.
JUKI high-speed seamer with index -7			1113132
Connection of the position sensor incorporated in the handwheel			1113157
Setting the functional sequence	Thread trimming mode	➔	Set parameter 290 = 14
Setting the functions of the keys	Input in2	➔	Set parameter 241 = 16



*) View: Outgoing connecting cable
 **) Front view (component side) of the Molex Minifit plugs.

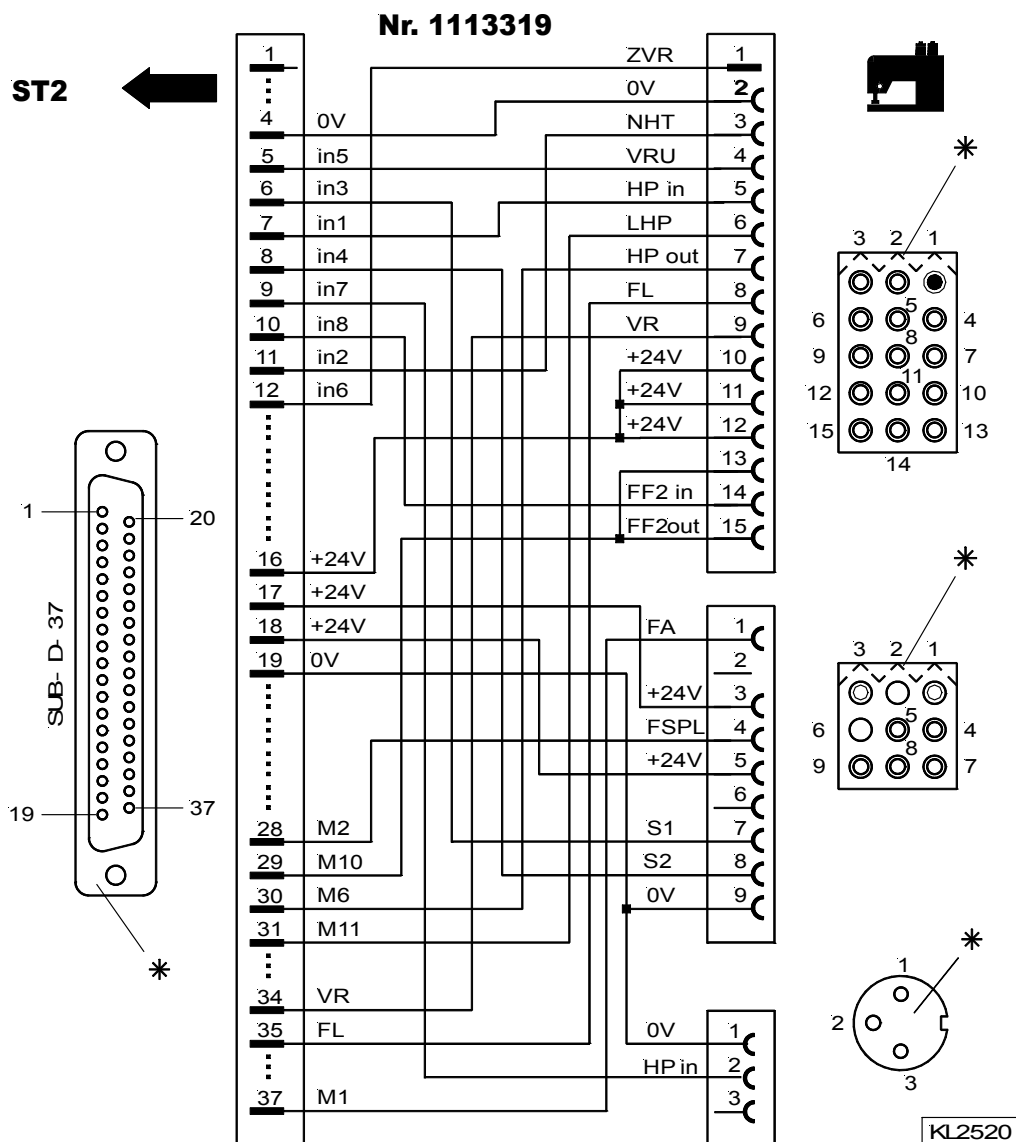
Machine / Type / Model		Material No.
JUKI lockstitch machine models LU1510-7 and LU1521N-7		1113422
Connection of the position sensor incorporated in the handwheel		1113314
		(LU1510-7) (LU1521N-7)
Setting the functional sequence	Thread trimming mode → Set parameter 290 = 20	30
Setting the functions of the keys (Automatic setting)	Input in1 → Set parameter 240 = 14	0
	Input in3 → Set parameter 242 = 31	0
	Input in4 → Set parameter 243 = 32	14
	Input in6 → Set parameter 245 = 16	31
	Input in7 → Set parameter 246 = 13	32



- in1** = Input high lift for walking foot with speed limitation n10 (operational mode not stored) for knee switch
- in3** = Input speed limitation bit 0 (S1)
- in4** = Input speed limitation bit 1 (S2)
- in6** = Input intermediate backtack
- in7** = Input high lift for walking foot with speed limitation n10 (operational mode not stored) for additional pushbutton on the machine head

*) View: Outgoing connecting cable
 **) Front view (component side) of the Molex Minifit plugs.

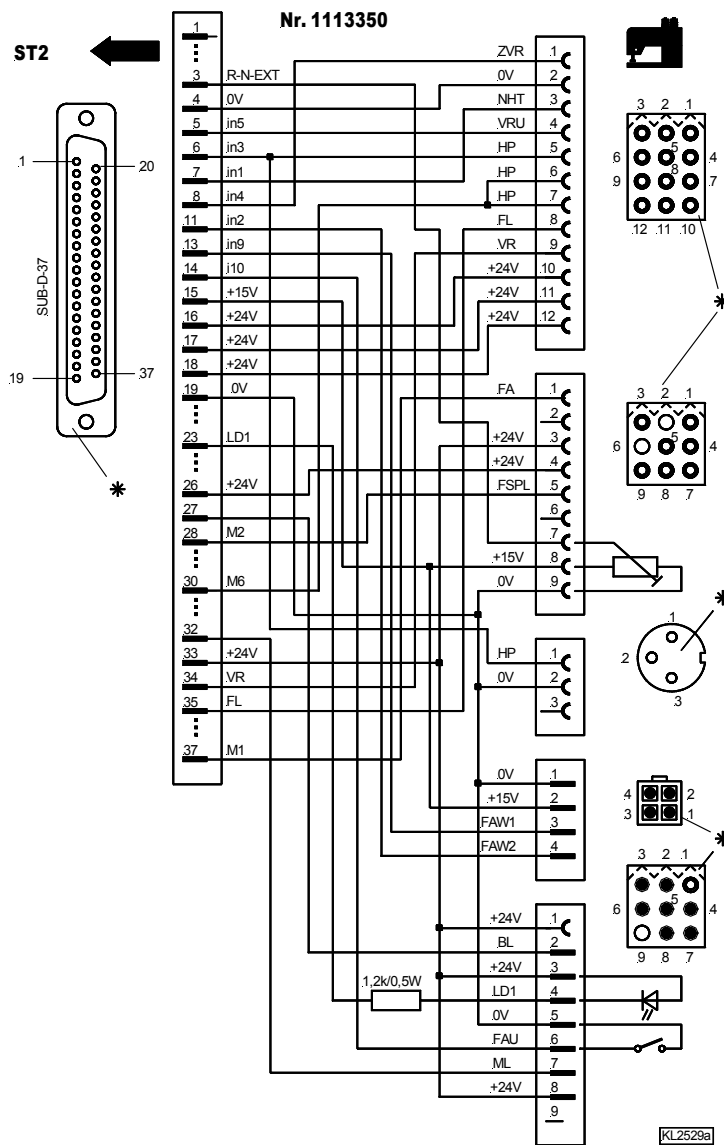
Machine / Type / Model		Material No.
JUKI lockstitch machine model DNU1541-7		1113319
Connection of the position sensor incorporated in the handwheel		1113157
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 20
Setting the functions of the keys (Automatic setting)	Input in1 →	Set parameter 240 = 13
	input in2 →	Set parameter 241 = 1
	Input in3 →	Set parameter 242 = 31
	Input in4 →	Set parameter 243 = 32
	Input in5 →	Set parameter 244 = 17
	Input in6 →	Set parameter 245 = 16
	Input in7 →	Set parameter 246 = 13
	Input in8 →	Set parameter 247 = 22



- in1** = Input high lift for walking foot with speed limitation n10 (operational mode not stored) for knee switch
- in2** = Input needle up/down
- in3** = Input speed limitation bit 0 (S1)
- in4** = Input speed limitation bit 1 (S2)
- in5** = Input stitch regulator suppression / stitch regulator recall
- in6** = Input intermediate backtack
- in7** = Input high lift for walking foot with speed limitation n10 (operational mode not stored) for additional pushbutton on the machine head
- in8** = Input speed limitation n11 (operational mode stored)

*) View: Outgoing connecting cable

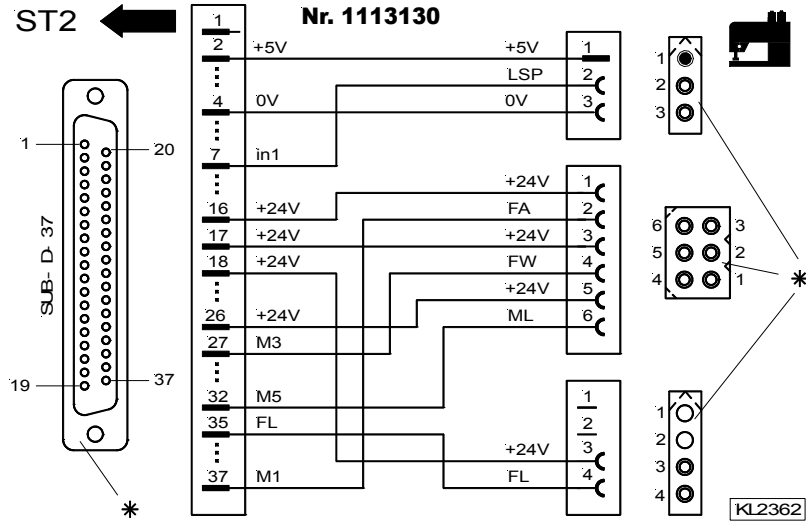
Machine / Type / Model		Material No.
JUKI lockstitch machine models LU2210, LU2260		1113350
Connection of the position sensor incorporated in the handwheel		1113157
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 25
Setting the functions of the keys (Automatic setting)	Input in1 →	Set parameter 240 = 1
	input in2 →	Set parameter 241 = 57
	Input in3 →	Set parameter 242 = 14
	Input in4 →	Set parameter 243 = 16
	Input in5 →	Set parameter 244 = 17
	Input in9 →	Set parameter 248 = 57
	Input i10 →	Set parameter 249 = 19



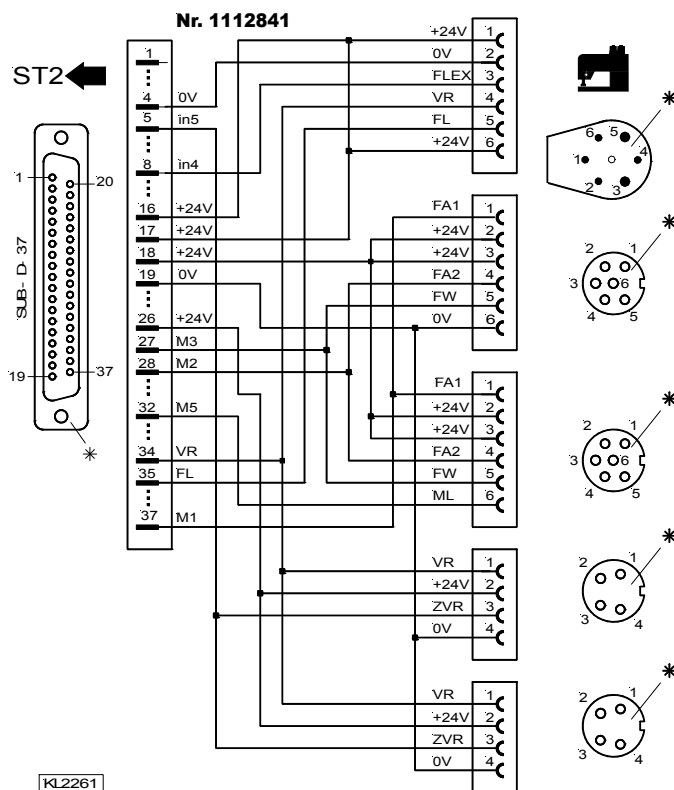
- in1 = Input needle up/down (NHT)
- in2 = Input Juki bobbin thread monitor 2 (FAW2)
- in3 = Input high lift for walking foot with speed limitation n10 (HP) (flip-flop 1)
- in4 = Input intermediate backtack / intermediate stitch condensing (ZVR)
- in5 = Input stitch regulator suppression / stitch regulator recall (VRU)
- in9 = Input Juki bobbin thread monitor 1 (FAW1)
- i10 = Input reset bobbin thread monitor (FAU)

*) View: Outgoing connecting cable

Machine / Type / Model		Material No.
KANSAI machine model RX 9803		1113130
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 5
Setting the functions of the keys	Input in1 →	Set parameter 240 = 7

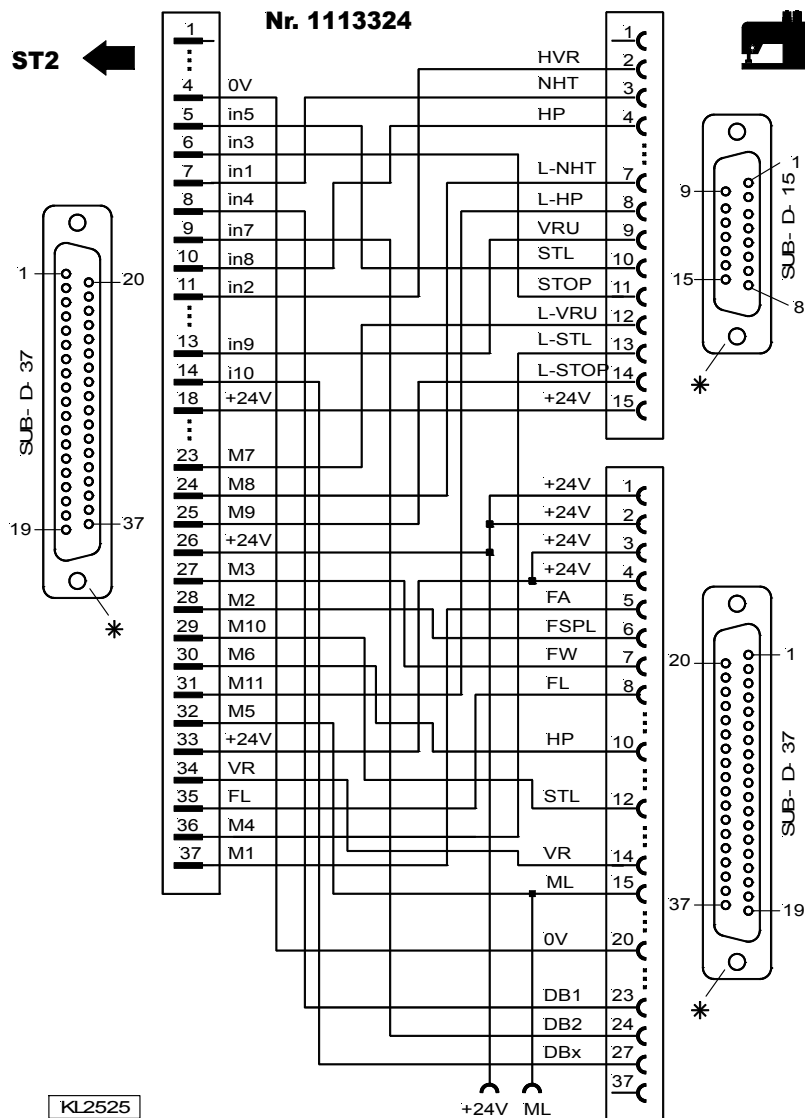


Machine / Type / Model		Material No.
PFAFF models 563, 953, 1050, 1180 (without thread monitor)		1113491
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 0
Setting the functions of the keys	Input in4 →	Set parameter 243 = 12
	Input in5 →	Set parameter 244 = 16



*) View: Outgoing connecting cable

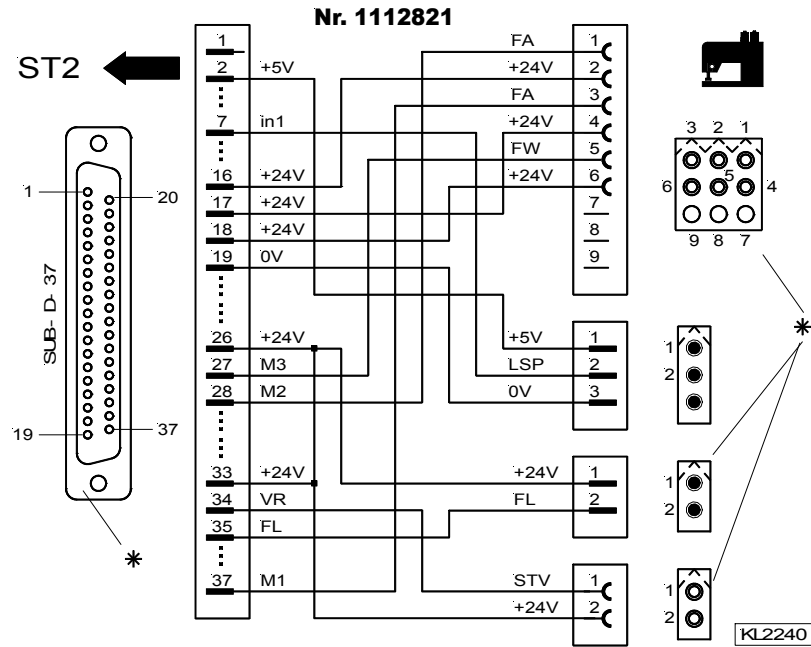
Machine / Type / Model		Material No.
PFAFF Kl. 1425, 1525		1113324
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 13
Setting the functions of the keys (Automatic setting)	Input in1 →	Set parameter 240 = 2
	input in2 →	Set parameter 241 = 16
	Input in3 →	Set parameter 242 = 24
	Input in4 →	Set parameter 243 = 11
	Input in5 →	Set parameter 244 = 22
	Input in6 →	Set parameter 246 = 33
	Input in7 →	Set parameter 247 = 14
	Input in9 →	Set parameter 248 = 17
	Input i10 →	Set parameter 249 = 25



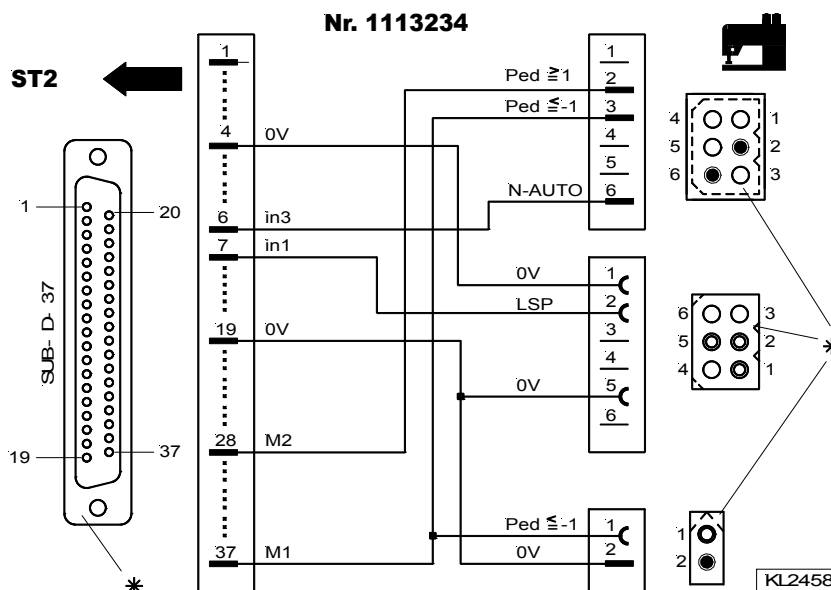
- in1 = Input needle up
- in2 = Input intermediate backtack
- in3 = Input needle moves from position 1 to position 2
- in4 = Input speed limitation n12 with pedal (DB1 = speed limitation 1)
- in5 = Input flip-flop for speed limitation n11
- in7 = Input speed limitation n9 (DB2 = speed limitation 2)
- in8 = Input high lift for walking foot with speed limitation n10 (operational mode stored)
- in9 = Input stitch regulator suppression / stitch regulator recall
- i10 = Input speed limitation with external potentiometer

*) View: Outgoing connecting cable

Machine / Type / Model		Material No.
PEGASUS models W500/UT, W600/UT/MS with or without stitch condensing		1112821
Attention! When using this adapter cord on a Pegasus machine, the 9-core cable no. 742373-91 must be removed from the machine!		
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 5
Setting the functions of the keys	Input in1 →	Set parameter 240 = 7

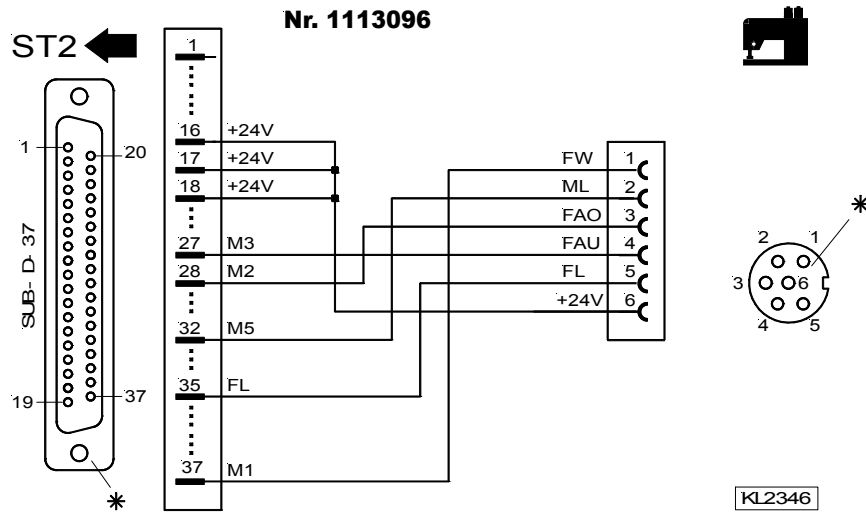


Machine / Type / Model		Material No.
PEGASUS backlatch machine		1113234
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 8
Setting the functions of the keys (Automatic setting)	Input in1 → input in3 →	Set parameter 240 = 6 Set parameter 242 = 10

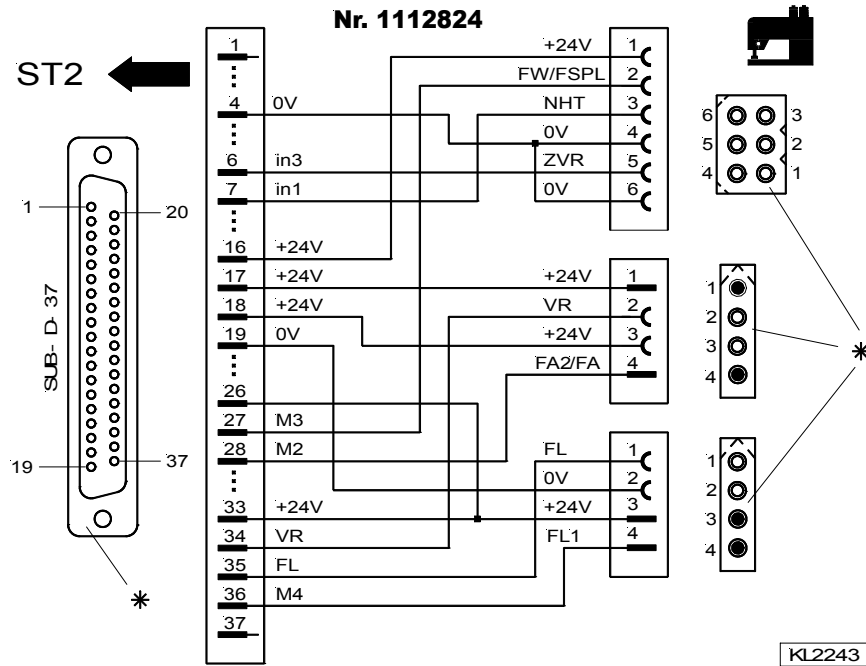


*) View: Outgoing connecting cable

Machine / Type / Model		Material No.
RIMOLDI model F27		1113096
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 5

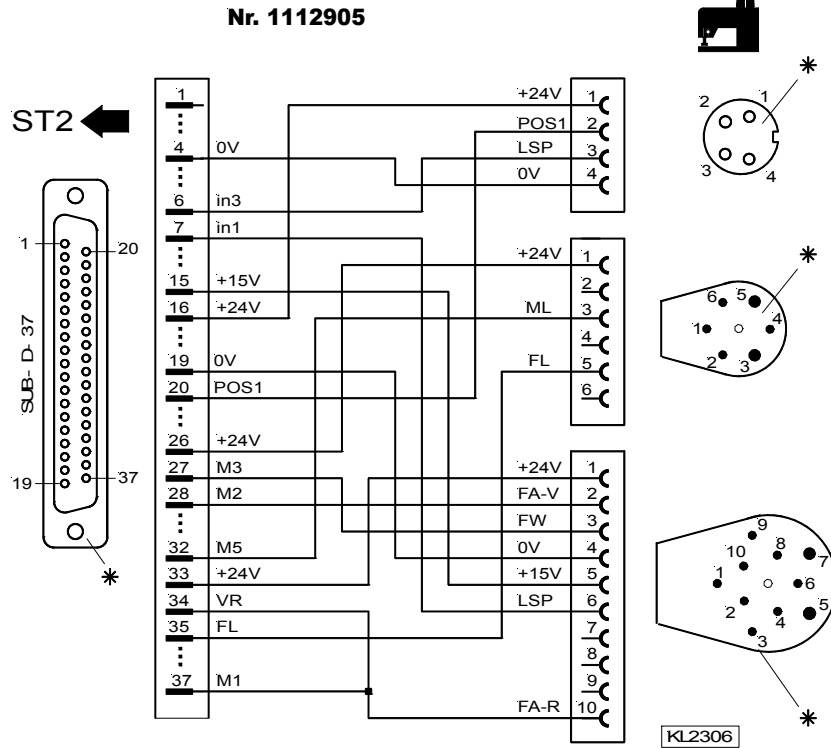


Machine / Type / Model		Material No.
SINGER models 211, 212U, 212UTT and 591		1112824
Setting the functional sequence (Singer model 212UTT)	Thread trimming mode →	Set parameter 290 = 2
Setting the functions of the keys	Input in1 →	Set parameter 240 = 1
	Input in3 →	Set parameter 242 = 16



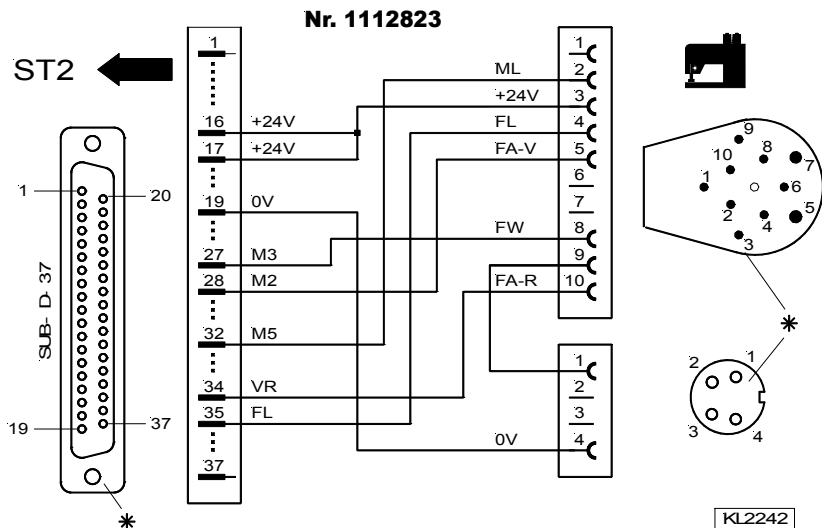
*) View: Outgoing connecting cable

Machine / Type / Model		Material No.
UNION SPECIAL model CS100 and FS100		1112905
Setting the functional sequence	Thread trimming mode	→ Set parameter 290 = 4
Setting the functions of the keys	Input in1	→ Set parameter 240 = 6
	Input in3	→ Set parameter 242 = 6



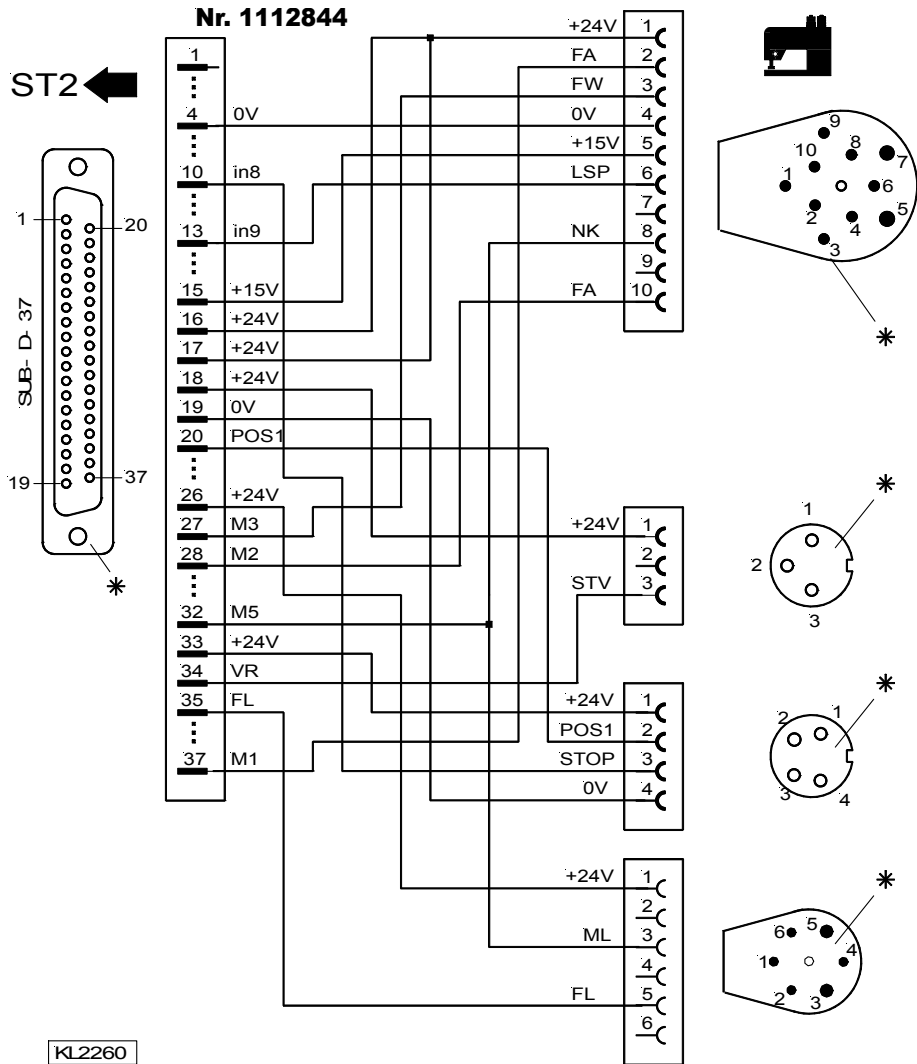
in1 = Input machine run blockage for thread trimming control proximity switch
 in3 = Input machine run blockage for thread monitor

Machine / Type / Model		Material No.
UNION SPECIAL lockstitch machine model 63900AMZ (in replacement of US80A)		1112823
Setting the functional sequence	Thread trimming mode	→ Set parameter 290 = 10



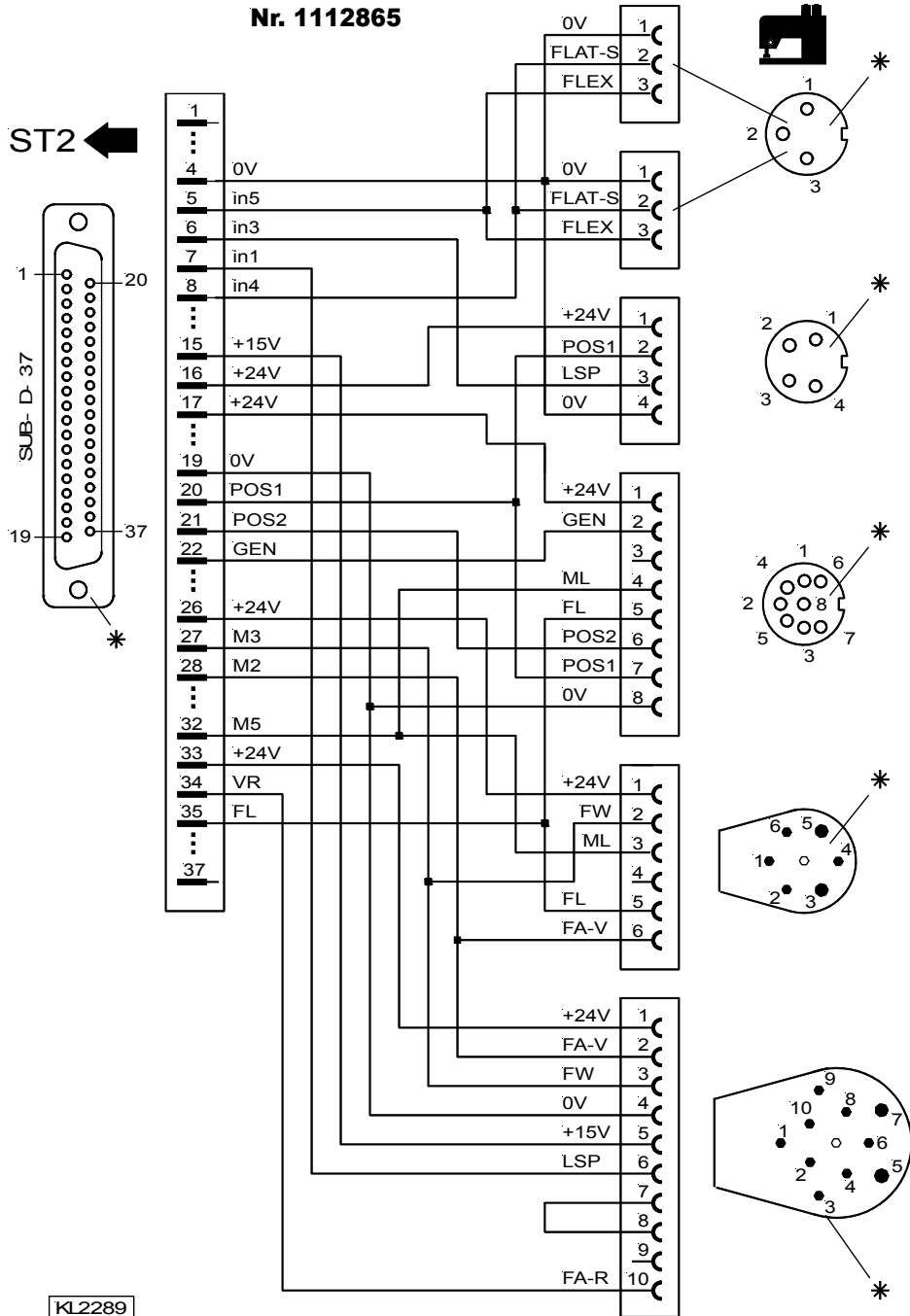
*) View: Outgoing connecting cable

Machine / Type / Model		Material No.
UNION SPECIAL model 34700 with stitch lock		1112844
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 5
Setting the functions of the keys	Input in8 →	Set parameter 247 = 7
	Input in9 →	Set parameter 248 = 6



*) View: Outgoing connecting cable

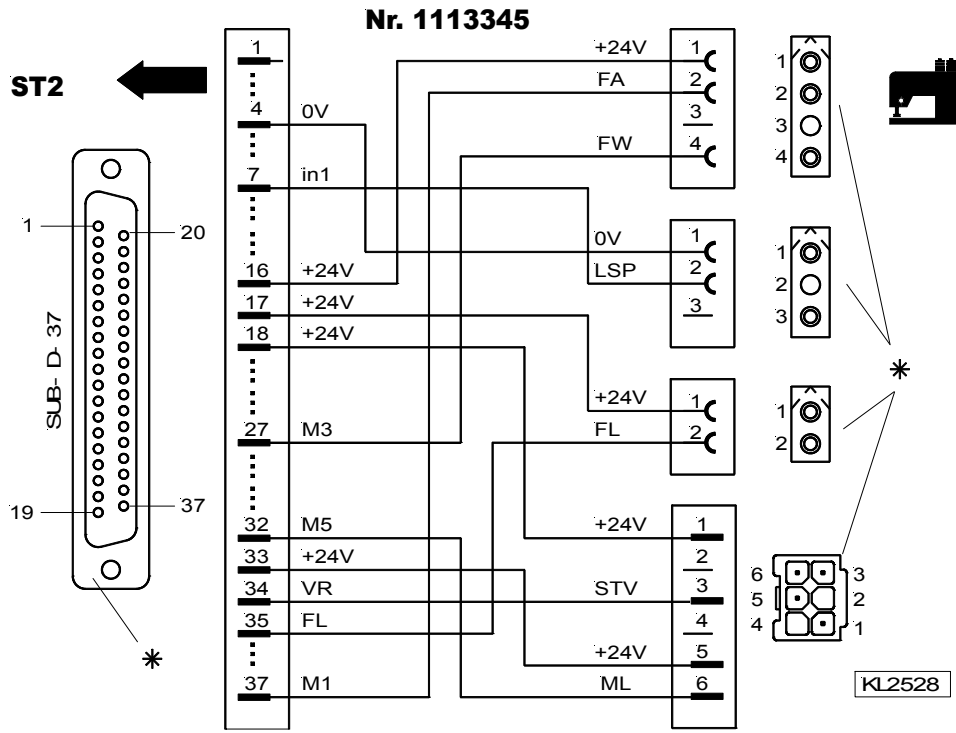
Machine / Type / Model		Material No.
UNION SPECIAL model 34000 and 36200 (in replacement of US80A)		1112865
Setting the functional sequence	Thread trimming mode	→ Set parameter 290 = 4
Setting the functions of the keys	Input in1	→ Set parameter 240 = 6
	Input in3	→ Set parameter 242 = 6
	Input in4	→ Set parameter 243 = 18
	Input in5	→ Set parameter 244 = 12



- in1** = Input machine run blockage for thread trimming control proximity switch
- in3** = Input machine run blockage for thread monitor
- in4** = Input unlocking the chain corresponds to function flatseamer (FLAT-S)
- in5** = Input sewing foot lift with pedal in pos. 0 (neutral)

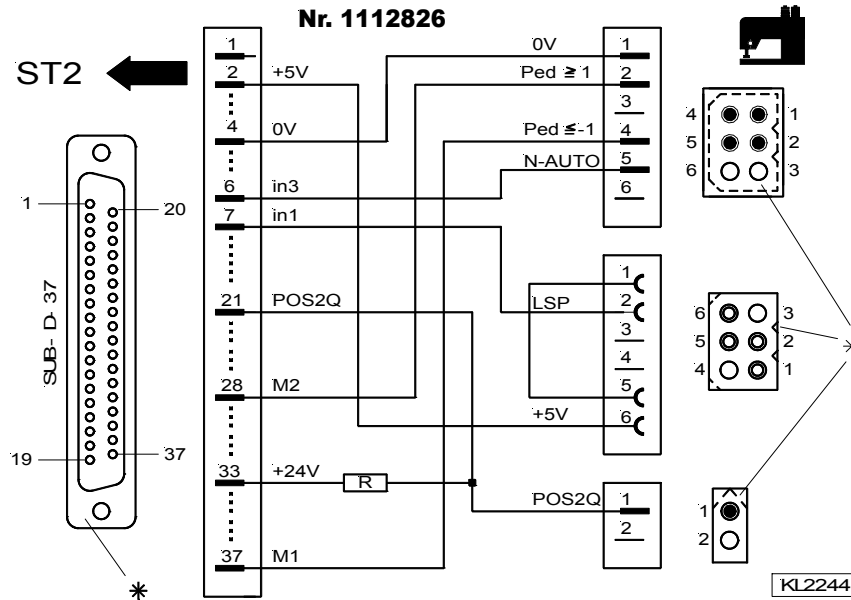
*) View: Outgoing connecting cable

Machine / Type / Model		Material No.
YAMATO VC/VG series chainstitch machines + stitch lock		1113345
Setting the functional sequence	Thread trimming mode →	Set parameter 290 = 5/21
Setting the functions of the keys	Input in1 →	Set parameter 240 = 7

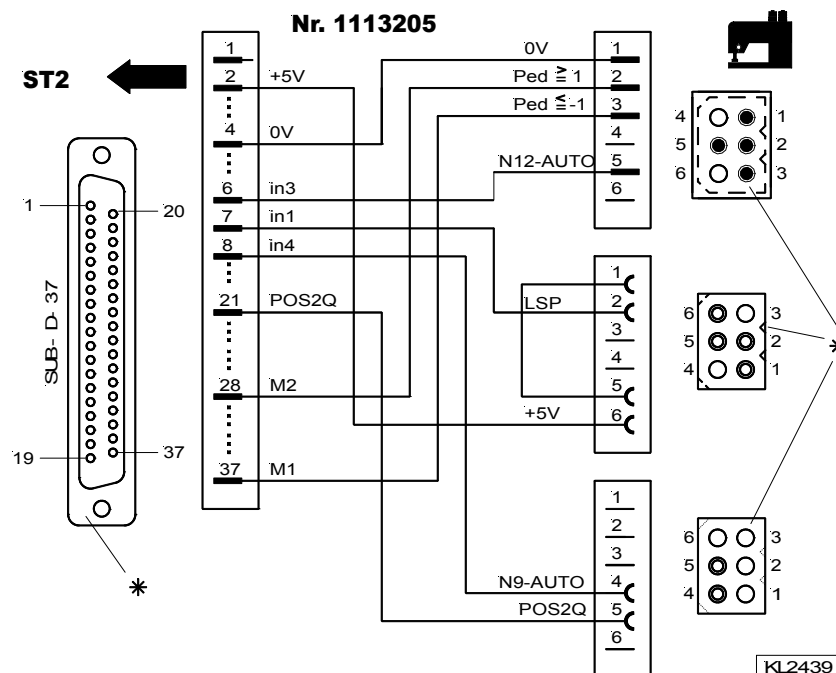


*) View: Outgoing connecting cable

Machine / Type / Model		Material No.
YAMATO backlatch machine ABT3		1112826
Setting the functional sequence	Thread trimming mode	→ Set parameter 290 = 9
Setting the functions of the keys (Automatic setting)	Input in1	→ Set parameter 240 = 6
	input in3	→ Set parameter 242 = 38



Machine / Type / Model		Material No.
YAMATO backlatch machine ABT13, ABT17		1113205
Setting the functional sequence	Thread trimming mode	→ Set parameter 290 = 9
Setting the functions of the keys (Automatic setting)	Input in1	→ Set parameter 240 = 6
	input in3	→ Set parameter 242 = 38
	input in4	→ Set parameter 243 = 34



*) View: Outgoing connecting cable

For your notes:



FRANKL & KIRCHNER GMBH & CO KG
SCHEFFELSTRASSE 73 – 68723 SCHWETZINGEN – GERMANY
PHONE: +49-6202-2020 – FAX: +49-6202-202115
E-MAIL: info@efka.net – <http://www.efka.net>



OF AMERICA INC.
3715 NORTHCREST ROAD – SUITE 10 – ATLANTA – GEORGIA 30340
PHONE: +1 (770) 457-7006 – FAX: +1 (770) 458-3899 – E-MAIL: efkaus@bellsouth.net



ELECTRONIC MOTORS SINGAPORE PTE. LTD.
67, AYER RAJAH CRESCENT 05-03 – SINGAPORE 139950
PHONE: +65-67772459 – FAX: +65-67771048 – E-MAIL: efkaems@efka.net