

MINI-STOP

QE3760

CE

Type

Q40MSII

Instruction Manual

Part 3

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11. Survey and List of Parameters

11.1 Explanation of Parameter Survey

The parameter survey is designed as an aid for finding parameters quickly. It is a summary of references for the parameter list. Listed behind each reference are all parameters which exert an influence on the function described by the reference.

The parameter survey is divided into five columns:

Column 1 shows the references (functions) to which parameters are assigned.

Column 2 shows the abbreviations of the respective functions.

Column 3 shows all parameters (setting numbers) belonging to the respective reference.

Column 4 shows, for each function (reference) which controls inputs or outputs, the applicable indications such as Ex or Ax which can also be found on the connections diagram.

Column 5 shows, for each function (control inputs (Ex) or control outputs (Ax)), the respective plugs with the number of contacts (see connections diagram).

Example for searching a parameter:

Keyword (function): inverse rotation

The parameter survey shows in column 3 the parameter numbers 618, 801.

Suppose that the inverse rotation function is to be enabled. The parameter list shows this function under parameter number 618.

11.2 Explanation of Parameter List

The parameter list is divided into 5 columns. These comprise, in

column 1: the parameter number,

column 2: is the explanation (meaning) of the parameters and the coding system of row 1 of the keys of the mini operator's panel, used when the parameter concerned can be programmed with the mini operator's panel,

column 3: the programming level (A, B, C) on which the parameter in question can be accessed,

column 4: the range of values within which the parameter in question can be set,

column 5: the value of the parameter in question is set on delivery ex factory.

Parameters having "either/or" validity (software switches) can merely be set to value I or II. In the case of such parameters, column 4 is empty.

Parameter numbers in acute brackets; e.g. <105>, mean the value (content) set for the parameter in question.

Example:

107 Speed for front backtack when <106> = I

I limited by <105>

II limited by <607>

Explanation:

Parameter 107 is valid only the the value (content) of parameter <106> = I.

If parameter 107 is set to I (<107> = I), then the speed for the front backtack is limited by parameter 105, e.g. <105> = 1500. If parameter 107 is set to II (<107> = II), then the speed for the front backtack is limited by the value of parameter 607, e.g. <607> = 4000.

11.3 Parameter survey Q40MS II (7z_921_6.hex)

Function	Abbrev'n	Parameter	Input Output	Connection Socket/Contacts
Accelerate	DRZAN	722		
Affichage	ANZ	605/796		
Backtack	RIE	102/103/104 105/107/108 109/110/126 523/584/585		
Backtack inversion	RIV	419/617		
Backtack suppression	RIUNT	419		
Beckmann	BECK	341/342/343		
Blindstitch	BLIND	658		
Blower	BLA	668		
Brake	DRZAB	723/758/851		
Catcher	FANG	707		
Chainstitch machine	KES	578		
Chopper	MESSER	105/110/126 427/531/714		
Clean-cut	CC	671		
Control	REG	758/880/881 884/885/886 887/889/890 891/990		
Decorative backtack	ZRIE	505/506/507 508/522/523 530/775		
Defect search	HWT	797		
Delay	VERZ	403/581/623 641/716/717 730/731/732 739/740/770		
Direction of rotation	DRR	800		
Display	ANZ	605/796		
End backtack	ER	108/109/110 126/149/604 731/732/740		
Engine	MOT	897		

Feed reverse	TUM	721/903	E1 A5	X1:3 X1:11
Front backtack	AR	102/103/104 105/106/107 148/739		
Hardware test	HWT	797		
Inverse rotation	RDR	618/623/801		
Knotting	VERK	657		
Lockstitch machine	STS	578		
Machine class	MAKL	799		
Needle position	NAPO	522/654/700 701/702/703 704/705/706 707/710		
Needle position change-over	NPW	616		
Needle up without trimming	NHOS	616/710	E2	X1:8
Number of stitches	STZA	102/103/108 109/111/112 145/343/363 404/505/506 507/508/570 572		
ON period	EINZ	714/715/738 743/889		
Photocell	LS	111/112/113 160/199/615 640/641		
Positioning	POS	342/343		
Presser foot	PF	427/554/651 719/729/730 770	E4	X1:5
Program	PR	114/203/206 221/222/304 313/554/851		
Programming level C	EBC	798		
Puller	PULL	363/427		
Repeat backtack	WRIE	731/740		
Residual brake	STBR	718		
Seam end	NE	110/114/126 145/206/602 658		
Seam start	NA	105		

Single stitch	EST	617	E3	X1:2
Soft start	SANL	116/117		
Speed	DRZ	105/106/107 110/117/126 199/203/221 222/402/403 462/530/585 586/587/591 605/606/607 609/676/901 903		
Speed decrease	DRZAB	723/758/851		
Speed increase	DRZAN	722		
Speed limitation	DB	221/222/402 585/586/587 591/676	E13	X1:20
Start	START	113/160/603 640/641		
Start delay	STVERZ	729		
Starting block	ANLSP	665		
Stitch condensation	STVD	102/105/106 107/108/110 126/419/570 572/617/671 739/903		
Stitchcounter	STZ	342/343		
Stitch security	STISI	657		
Stop	STOP	114/206/427 665	E6	X1:6
Stop time	STOPZ	712/775		
Stroke adjustment	HV	401/402/403 404/427		
Target stitch	PEIPO	653/789		
Thread clamp	FK	581		
Thread puller	FZ	581/743/761		
Thread tension release	FSL	707/761	A10	X1:15
Thread trimming	SN	601/604/609 654/704/705 706/714/717 732/734/738 901	A1	X1:9
Thread wiper	WI	668/715/716	A3	X1:7

Time needed to switch on	EINZ	714/715/738 743/889
Timing output	TA	719/721/734
Unlocking of chain	ENTKET	425
Vacuum	SAUG	105/110/126

11.4 List of Parameters Q40MS II (7z_921_6.hex)

No.	Function (Meaning)	Level	Range Values	of Value	Standard Value
102	(AR/RIE/STVD/STZA) Front backtack stitches forward	C	0 - 9	3	Kl. 1, 2, 3, 4
103	(AR/RIE/STZA) Front backtack stitches backward	C	0 - 9	3	Kl. 1, 2, 3, 4
104	(AR/RIE) Front backtack correction (delayed disabling of feed reverse)	B,C	0 - 15	8	Kl. 1, 2, 3, 4
105	(AR/RIE/DRZ/MESSER/NA/SAUG/STVD) Speed for front backtack/ stitch condensation	B,C	100 - 6400	1500	Kl. 1, 5, 6
106	(AR/DRZ/STVD) Speed for front backtack/stitch condensation	B,C		1200	Kl. 2, 3, 4
	I variable (treadle-controlled)			II	Kl. 1, 2, 3, 4, 5, 6
	II constant (corresponding to <105>)				
107	(AR/RIE/DRZ/STVD) Speed for front backtack/stitch condensation when <106> = I	B,C		II	Kl. 1, 2, 3, 4, 5, 6
	I limited by <105>				
	II limited by <607>				
108	(ER/RIE/STVD/STZA) End backtack stitches backward	C	0 - 9	4	Kl. 1, 3, 4
				3	Kl. 2
				-	Kl. 5, 6
109	(ER/RIE/STZA) End backtack stitches forward	C	0 - 9	3	Kl. 1, 2, 3, 4
				-	Kl. 5, 6
110	(ER/RIE/DRZ/MESSER/NE/SAUG/STVD) Speed for end backtack/ stitch condensation	B,C	100 - 6400	1500	Kl. 1, 5, 6
				1200	Kl. 2, 3, 4
111	(LS/STZA) Light barrier compensation stitches 1 (stitches from light barrier clear to seam end)	A,B,C	1 - 255	6	Kl. 1, 2, 3, 4, 5, 6
112	(LS/STZA) Number of stitches for light barrier fade-out on knit fabrics (according to stitch size)		A,B,C	0 - 255	0 Kl. 1, 2, 3,
4, 5, 6					
113	(LS/START) Start with light barrier	B,C		II	Kl. 1, 2, 3, 4, 5, 6
	I when light barrier is dark only				
	II also when light barrier is clear				
114	(PR/STOP/NE) Stop before seam end after stitch count (last seam section)	B,C		II	Kl. 1, 2, 3, 4, 5, 6
	I yes				
	II no				
116	(SANL) Soft start stitches	A,B,C	0 - 255	0	Kl. 1, 2, 3, 4, 5, 6
117	(SANL/DRZ) Speed for soft start stitches	B,C	30 - 640	500	Kl. 1
				400	Kl. 2, 3, 4, 5, 6
126	(ER/DRZ/MESSER/NE/RIE/SAUG/STVD) Speed for End backtack / stitch condensation	B,C		II	Kl. 5
	I variable (treadle-controlled)			-	Kl. 1, 2, 3, 4, 6
	II constant (corresponding to <110>)				
145	(NE/STZA) Number of stitches for seam end	A,B,C	0 - 255	0	Kl. 5
				2	Kl. 6
				-	Kl. 1, 2, 3, 4
148	(AR) Front backtack	A,B,C		I	Kl. 1, 2, 3, 4
	I double			-	Kl. 5, 6
	II single				
149	(ER) End backtack	A,B,C		I	Kl. 1, 2, 3, 4
	I double			-	Kl. 5, 6
	II single				
160	(LS/START) Start of photocell	B,C		II	Kl. 5
	I automatic			-	Kl. 1, 2, 3, 4, 6
	II treadle-controlled				
199	(DRZ/LS) Speed for light barrier compensation stitches	B,C	300 - 6400	1500	Kl. 1, 5, 6
				1200	Kl. 2, 3, 4
203	(PR/DRZ) Speed for seam program	B,C		II	Kl. 1, 2, 3, 4, 5, 6
	I variable (treadle-controlled)				
	II constant (corresponding to <221> or <222>)				

206	(NE/PR/STOP) Interrupt/discontinue seam sections at speed = constant (<203> = II) I with treadle -2 II with treadle 0	B,C		II	Kl. 1, 2, 3, 4, 5, 6
221	(PR/DB/DRZ) Speed limitation for sewing program 1 (or for all sewing programs)	B,C	300 - 6400	1000	Kl. 1, 2, 3, 4, 5, 6
222	(PR/DB/DRZ) Speed limitation for sewing program 2	B,C	300 - 6400	1500	Kl. 1, 2, 3, 4, 5, 6
304	(PR) Stitch compensation at feed reverse for a seam section	B,C	0 - 2550	30	Kl. 1, 2, 3, 4 - Kl. 5, 6
313	(PR) Programs are backtack programs (darning programs) I yes II no	A,B,C		II	Kl. 1, 2, 3, 4, 5, 6
341	(BECK) Input E1 I switch II pushbutton	B,C		II	Kl. 1, 2, 3, 4, 5, 6
342	(BECK/POS/STZ) Positioning after signal „Stop“ (E3) I after stitch count II without stitch count	B,C		II	Kl. 1, 2, 3, 4, 5, 6
343	(BECK/POS/STZ/STZA) Number of stitches for positioning after signal „Stop“ (E3)	B,C	1 - 25	5	Kl. 1, 2, 3, 4, 5, 6
363	(PULL/STZA) Stitches for switching on puller	B,C	0 - 255	3	Kl. 1, 2, 3, 4, 5, 6
401	(HV) Input „stroke adjustment“ I switch operation II push-button operation	B,C		II	Kl. 1, 2, 3, 4, 5, 6
402	(HV/DRZ/DB) Speed at stroke adjustment	B,C	300 - 2500	2000 600 400 900	Kl. 1, 5, 6 Kl. 2 Kl. 3 Kl. 4
403	(HV/DRZ/VERZ) Delay (ms) of the speed variation at end of stroke adjustment	B,C	0 - 2550	100	Kl. 1, 2, 3, 4, 5, 6
404	(HV/STZA) Number of stitches with stroke adjustment	B,C	0 - 255	0	Kl. 1, 2, 3, 4, 5, 6
419	(RIV/RIUNT/STVD) Function of external key I backtack / stitch condensation inversion II backtack / stitch condensation suppression (flip-flop function)	B,C		I	Kl. 1, 2, 3, 4, 5, 6
425	(ENTKET) Unlocking of chain at seam end I yes II no	A,B,C		II -	Kl. 5, 6 Kl. 1, 2, 3, 4
427	(PF/HV/PULL/STOP/MESSER) Selection of the function available with input E4 1 = presser foot 2 = stroke adjustment 3 = control of puller 4 = stop 5 = chopper 6-9 without function	B,C	1 - 9	1	Kl. 1, 2, 3, 4, 5, 6
462	(DRZ) Function of speed control unit I 2 speeds only n-min (to position +7) and n-max (from position +8) and one needle position II 12 speed levels and two needle positions	B,C		II -	Kl. 1 Kl. 2, 3, 4, 5, 6
505	(ZRIE/STZA) Number of stitches for front decorative backtack forward (stitch in stitch, speed = <530>)	C	0 - 9	3	Kl. 1, 2, 3, 4 - Kl. 5, 6
506	(ZRIE/STZA) Number of stitches for front decorative backtack backward (stitch in stitch, speed = <530>)	C	0 - 9	3	Kl. 1, 2, 3, 4 - Kl. 5, 6
507	(ZRIE/STZA) Number of stitches for end decorative backtack backward (stitch in stitch, speed = <530>)	C	0 - 9	3	Kl. 1, 2, 3, 4 - Kl. 5, 6
508	(ZRIE/STZA) Number of stitches for end decorative backtack forward (stitch in stitch, speed = <530>)	C	0 - 9	3	Kl. 1, 2, 3, 4 - Kl. 5, 6

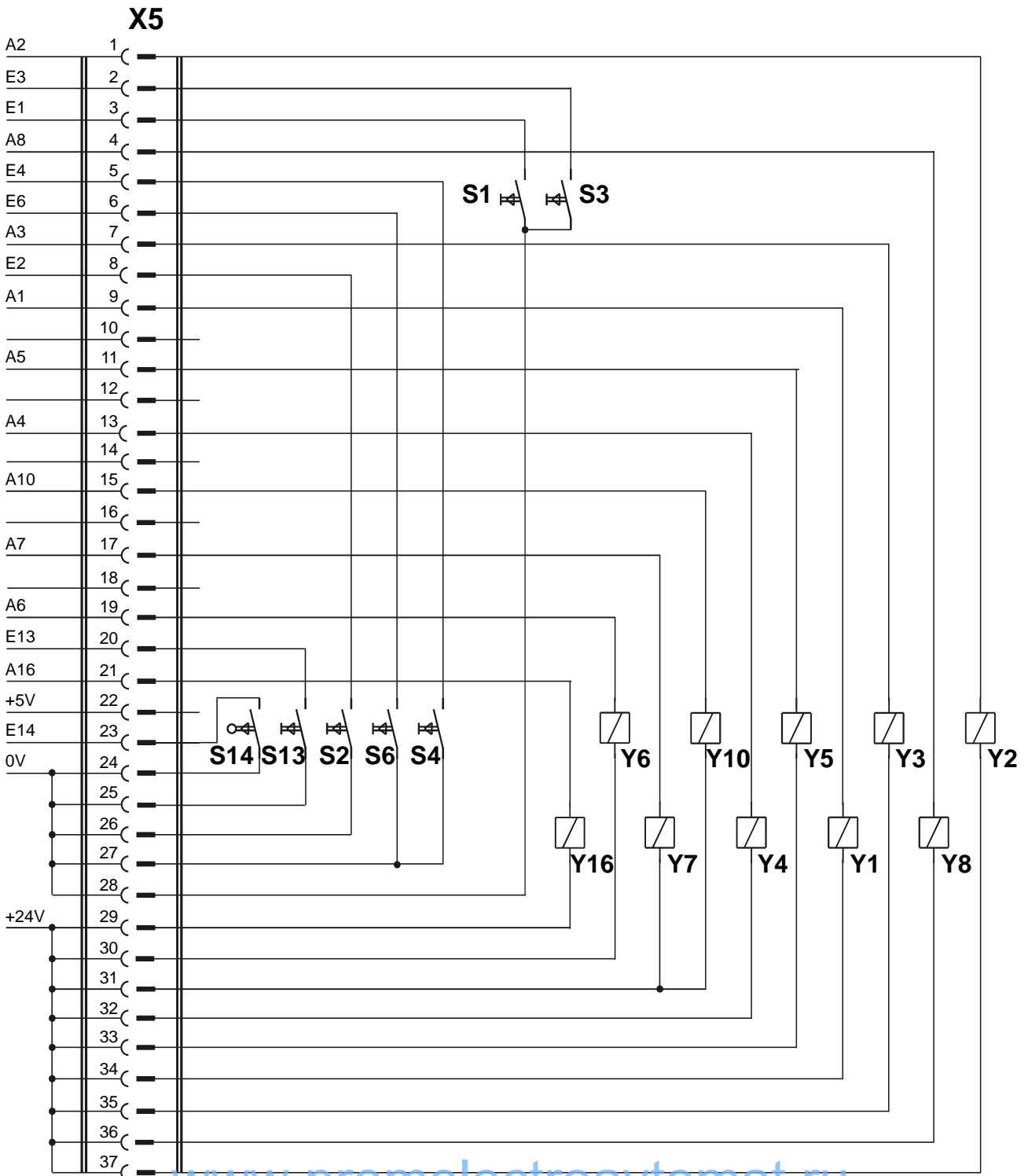
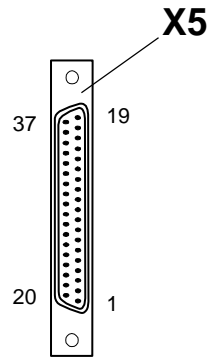
522	(NAPO/ZRIE) Needle position when stop occurs during decorative backtack (stitch in stitch) I position 2 (up) II position 1 (down)	B,C		II	Kl. 1, 2, 3, 4 - Kl. 5, 6
523	(RIE/ZRIE) Backtack I decorative backtack (stitch in stitch) II standard backtack	A,B,C		II	Kl. 1, 2, 3, 4 - Kl. 5, 6
530	(DRZ/ZRIE) Speed (max.) for decorative backtack	B,C	100 - 6400	1000	Kl. 1, 2, 3, 4 - Kl. 5, 6
531	(MESSER) With chopper after start stitches (<560>) I yes II no	B,C		II	Kl. 5 - Kl. 1, 2, 3, 4, 6
554	(PF/PR) Presser foot position after seam section stitch count and treadle position > +1 I up II down	B,C		I	Kl. 1, 2, 3, 4, 5, 6
570	(STVD/STZA) Number of stitches for stitch condensation at seam start	C	0 - 99	3 10	Kl. 5 Kl. 6 - Kl. 1, 2, 3, 4
572	(STVD/STZA) Number of stitches for stitch condensation at seam end	C	0 - 99	3 10	Kl. 5 Kl. 6 - Kl. 1, 2, 3, 4
578	(KES/STS) Type of machine I overlock II chainstitch or lockstitch (<799>)	B,C		II	Kl. 5 - Kl. 1, 2, 3, 4, 6
581	(FK/FZ/VERZ) Delay in start-up time (ms) for thread clamp or thread puller	B,C	0 - 2550	0	Kl. 6 - Kl. 1, 2, 3, 4, 5
584	(RIE) Backtack I four times II double	B,C		II	Kl. 1, 2, 3, 4 - Kl. 5, 6
585	(DRZ/DB/RIE) Speed limitation	B,C	300 - 6400	1000	Kl. 1, 2, 3, 4, 5, 6
586	(DRZ/DB) Speed limitation	B,C	300 - 6400	1500	Kl. 1, 2, 3, 4, 5, 6
587	(DRZ/DB) Speed limitation	B,C	300 - 6400	2000	Kl. 1, 2, 3, 4, 5, 6
591	(DRZ/DB) Speed limitation via push-button I yes II no	B,C		II	Kl. 1, 2, 3, 4, 5, 6
601	(SN) Trimming I yes II no	B,C		I	Kl. 1, 2, 3, 4, 5, 6
602	(NE) Seam end at treadle position I slightly heeled (-1) II fully heeled (-2)	B,C		II	Kl. 1, 2, 3, 4, 5, 6
603	(START) Start after seam end I after treadle 0 only II immediate start of operation	B,C		I	Kl. 1, 2, 3, 4, 5, 6
604	(SN/ER) Trimming after single end backtack I forward II backward	B,C		I	Kl. 1, 2, 3, 4 - Kl. 5, 6
605	(DRZ/ANZ) Actual speed in display I yes II no	B,C		II	Kl. 1, 2, 3, 4, 5, 6
606	(DRZ) Speed: level 1 (min.)	B,C	30 - 640	200	Kl. 1, 5, 6 180 Kl. 2, 3, 4
607	(DRZ) Speed: level 12 (max.)	B,C	100 - 9900	4000	Kl. 1 1500 Kl. 2, 3, 4, 5, 6
609	(SN/DRZ) Trimming speed 1	B,C	30 - 300	200	Kl. 1 180 Kl. 2, 3, 4, 5, 6
615	(LS) End recognition when photocell goes I from light to dark II from dark to light	B,C		II	Kl. 1, 2, 3, 4, 5, 6
616	(NPW/NHOS) Function of external key (input E2) I needle position change-over (NPW) II needle up without trimming (NHOS)	B,C		II	Kl. 1, 2, 3, 4, 5, 6

617	(EST/RIV/STVD) Function of external key (input E3) I single stitch (EST) II backtack / stitch condensation inverted (RIV)	B,C		I	Kl. 1, 2, 3, 4, 5, 6
618	(RDR) Inverse rotation after seam end I yes II no	B,C		II	Kl. 1, 2, 3, 4, 5, 6
623	(RDR/VERZ) Delay in start-up time (ms) for inverse rotation	B,C	0 - 2550	50	Kl. 1, 2, 3, 4, 5, 6
640	(LS/START) Start possible by obscuring the photocell (if existing, note parameter 113!) I yes II no	B,C		II -	Kl. 5 Kl. 1, 2, 3, 4, 6
641	(LS/START/VERZ) Delay before start (ms) after photocell (at <640> = I)	B,C	0 - 2550	100 -	Kl. 5 Kl. 1, 2, 3, 4, 6
651	(PF) Presser foot with automatic descent on machine stop I yes II no	B,C		I	Kl. 1, 2, 3, 4, 5, 6
653	(PEIPO) Target stitch before sewing I yes II no	B,C		II	Kl. 1, 2, 3, 4, 5, 6
654	(SN/NAPO) Positioning before thread trimming I yes II no	B,C		II -	Kl. 1 Kl. 2, 3, 4, 5, 6
657	(STISI/VERK) Stitch security (knotting) I yes II no	B,C		II -	Kl. 6 Kl. 1, 2, 3, 4, 5
658	(NE/BLIND) Seam end blindstitch I yes II no	A,B,C		II -	Kl. 6 Kl. 1, 2, 3, 4, 5
665	(ANLSP/STOP) Run locking/stop I contact closed II contact open	B,C		I	Kl. 1, 2, 3, 4, 5, 6
668	(BLA/WI) Thread wiper/thread clearer I yes II no	B,C		I	Kl. 1, 2, 3, 4, 5, 6
671	(CC/STVD) Stitch condensation for clean-cut after end backtack and before trimming I yes II no	B,C		II -	Kl. 2 Kl. 1, 3, 4, 5, 6
676	(DRZ/DB) Speed adjustment via potentiometer possible I yes II no	B,C		I	Kl. 1, 2, 3, 4, 5, 6
700	(NAPO) Needle position 0 (reference position of the needle)	B,C	0 - 127	0	Kl. 1, 2, 3, 4, 5, 6
701	(NAPO) Angular adjustment I with handwheel (teach-in) II by keys (+/-)	B,C		I	Kl. 1, 2, 3, 4, 5, 6
702	(NAPO) Needle position 1 (needle down)	B,C	0 - 127	40	Kl. 1, 2, 3, 4, 5, 6
703	(NAPO) Needle position 2 (thread take-up lever up) (00000011)	B,C	0 - 127	108 109	Kl. 1, 3, 4, 5, 6 Kl. 2
704	(NAPO/SN) Needle position 4 (start trimming signal 1)	B,C	0 - 127	47 45 -	Kl. 1 Kl. 4 Kl. 2, 3, 5, 6
705	(NAPO/SN) Needle position 5 (end of trimming signal 1) (00000101)	B,C	0 - 127	84 62 -	Kl. 1 Kl. 2 Kl. 3, 4, 5, 6
706	(NAPO/SN) Needle position 6 (start trimming signal 2)	B,C	0 - 127	59 -	Kl. 2 Kl. 1, 3, 4, 5, 6
707	(NAPO/FSL/FANG) Needle position 9 (thread tension release or thread catcher start) (00000111)	B,C	0 - 127	59 -	Kl. 1, 3, 4 Kl. 2, 5, 6

710	(NAPO/NHOS) Needle position 3 (needle up)	B,C	0 - 127	100	Kl. 1, 2, 3, 4, 5, 6
712	(STOPZ) Time for stop in needle position 1	B,C	0 - 2550	70	Kl. 1
				-	Kl. 2, 3, 4, 5, 6
714	(EINZ/SN/MESSER) Duration (ms) for chainstitch trimming or chopper	B,C	0 - 2550	100	Kl. 5, 6
				-	Kl. 1, 2, 3, 4
715	(EINZ/WI) Duration (ms) of thread wiper	B,C	0 - 2550	60	Kl. 1
				120	Kl. 2, 3, 4
				100	Kl. 5, 6
716	(VERZ/WI) Delay in start-up time (ms) for thread wiper	B,C	0 - 2550	70	Kl. 5
				100	Kl. 6
				-	Kl. 1, 2, 3, 4
717	(SN/VERZ) Delay in start-up time (ms) for trimming method when the machine is not activated by the treadle	B,C	0 - 2550	60	Kl. 5
				40	Kl. 6
				-	Kl. 1, 2, 3, 4
718	(STBR) Timing of residual brake (0 = brake off)	B,C	0 - 100	0	Kl. 1, 2, 3, 4, 5, 6
719	(PF/TA) Timing output A4 (0 = 100% switching on)	B,C	0 - 90	40	Kl. 1, 2, 3, 4, 5, 6
721	(TUM/TA) Timing output A5 (0 = 100% switching on)	B,C	0 - 90	50	Kl. 1, 2, 3, 4, 5, 6
722	(DRZAN) Acceleration ramp	B,C	1 - 50	40	Kl. 1, 2, 3, 4, 5, 6
	1 gradual				
	50 steep				
723	(DRZAB) Brake ramp	B,C	4 - 50	25	Kl. 1, 2, 3, 4, 5, 6
	1 gradual				
	50 steep				
729	(STVERZ/PF) Start delay after lowering presser foot	B,C	0 - 2550	130	Kl. 1
				120	Kl. 2, 3, 4, 5, 6
730	(PF/VERZ) Lift delay for presser foot after seam end	B,C	0 - 2550	30	Kl. 1
				50	Kl. 2, 3, 4, 5, 6
731	(ER/WRIE/VERZ) Delay before stitch counting for end backtack (ERV)	B,C	0 - 2550	40	Kl. 1, 2, 3, 4
				-	Kl. 5, 6
732	(SN/ER/VERZ) Delay (ms) for trimming after single end backtack	B,C	0 - 2550	30	Kl. 1, 2, 3, 4
				-	Kl. 5, 6
734	(SN/TA) Timing output A2	B,C	0 - 90	10	Kl. 4, 5
				30	Kl. 6
				-	Kl. 1, 2, 3
738	(EINZ/SN) Time needed to switch on (ms) for trimming signal 2	B,C	10 - 2550	60	Kl. 4
				-	Kl. 1, 2, 3, 5, 6
739	(AR/STVD/VERZ) Delay (ms) for speed after front backtack/stitch condensation	B,C	0 - 2550	30	Kl. 1
				100	Kl. 2, 3, 4
				-	Kl. 5, 6
740	(ER/WRIE/VERZ) Delay before stitch counting for end backtack backward	B,C	0 - 2550	60	Kl. 1, 2, 3, 4
				-	Kl. 5, 6
743	(FZ/EINZ) Duration (ms) of thread puller	B,C	0 - 2550	60	Kl. 6
				-	Kl. 1, 2, 3, 4, 5
758	(REG/DRZAB) Deceleration ramp	B,C		II	Kl. 1, 2, 3, 4, 5, 6
	I braking as per <723>				
	II braking with maximal moment				
761	(FSL/FZ) Prolongation Thread tension release/ Thread puller	B,C	0 - 2550	0	Kl. 1, 2, 3, 4
				-	Kl. 5, 6
770	(PF/VERZ) Lifting delay of presser foot at threadle-position „-1“	B,C	0 - 250	30	Kl. 1
				50	Kl. 2, 3, 4, 5, 6
775	(ZRIE/STOPZ) Stop time (ms) with stitch in stitch backtack (decorative backtack)	B,C	0 - 2550	100	Kl. 1, 2, 3, 4
				-	Kl. 5, 6
789	(PEIPO) Needle position 10 (target stitch)	B,C	0 - 127	62	Kl. 1, 2, 3, 4, 5, 6
796	(ANZ) Operating hours display	B,C		I	Kl. 1, 2, 3, 4, 5, 6
797	(HWT) Hardware test	B,C		II	Kl. 1, 2, 3, 4, 5, 6
	I yes				
	II no				
798	(EBC) Programming level C	B,C		II	Kl. 1, 2, 3, 4, 5, 6
	I yes				
	II no				

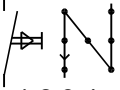
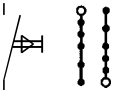
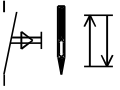
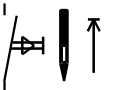
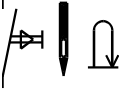
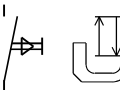
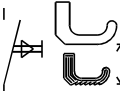
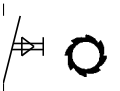
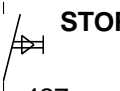
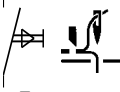
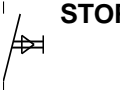
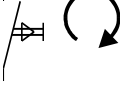
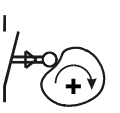
799	(MAKL) Machine class which has been selected	B,C	1 - 6	1 2 3 4 5 6	Kl. 1 Kl. 2 Kl. 3 Kl. 4 Kl. 5 Kl. 6
800	(DRR) Direction of motor rotation viewed from belt pulley I left-hand rotation II right-hand rotation (00000001)	B,C		I II	Kl. 1 Kl. 2, 3, 4, 5, 6
801	(RDR) Reverse rotation angle after seam end	B,C	5 - 106	16	Kl. 1, 2, 3, 4, 5, 6
851	(PR/DRZAB) Brake ramp for stitch-count seams I steep II gradual	B,C		II	Kl. 1, 2, 3, 4, 5, 6
880	(REG) Starting current max. [A]	C	1 - 10	5	Kl. 1, 2, 3, 4, 5, 6
881	(REG) adaption of positioning characteristics of motor to machine to avoid vibration	B,C	0 - 12	6	Kl. 1, 2, 3, 4, 5, 6
884	(REG) Proportional amplification of the speed control (in general)	B,C	4 - 255	15	Kl. 1, 2, 3, 4, 5, 6
885	(REG) Integral amplification of the speed control	C	0 - 255	35	Kl. 1, 2, 3, 4, 5, 6
886	(REG) Proportional amplification of the order controllers	C	1 - 255	25	Kl. 1, 2, 3, 4, 5, 6
887	(REG) Differential amplification of the order controllers	C	1 - 255	25	Kl. 1, 2, 3, 4, 5, 6
889	(EINZ/REG) Time required for order controlling (0 = always)	C	0 - 2550	150	Kl. 1, 2, 3, 4, 5, 6
890	(REG) Proportional amplification of the superior order controllers for the residual brake	C	1 - 255	25	Kl. 1, 2, 3, 4, 5, 6
891	(REG) Proportional amplification of the lower speed controllers for the residual brake	C	1 - 255	20	Kl. 1, 2, 3, 4, 5, 6
897	(MOT) MINI motor version I long II short	B,C		II	Kl. 1, 2, 3, 4, 5, 6
901	(DRZ/SN) Trimming release speed	C	30 - 500	300 400	Kl. 1 Kl. 2, 3, 4, 5, 6
903	(TUM/STVD/DRZ) Function of external key (input E1) I constant speed II feed reverse / stitch condensation	B,C		II	Kl. 1, 2, 3, 4, 5, 6
990	(REG) Removal of setpoint position upon change-over from speed control to position control	B,C	1 - 127	32	Kl. 1, 2, 3, 4, 5, 6

12. Electrical Connections Diagram X5 Q40MSII

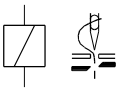
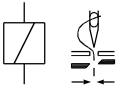
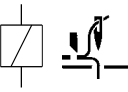
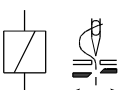
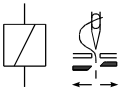
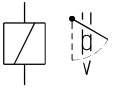

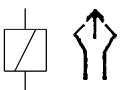
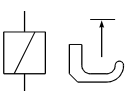
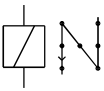


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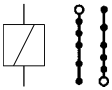

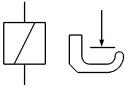
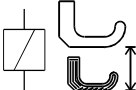
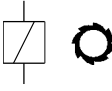
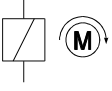
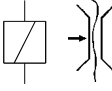
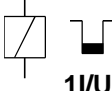
Bedeutung der Magnete bzw. Magnetventile, Taster / Meaning of magnets and/or solenoids and keys
 Signification des aimants resp. solenoides et touches / Significação dos imãs e/ou as solenoidas e teclas
 Significato dei magneti, delle valvole magnetiche e dei tasti / Significación de los imanes y/o los solenoides
 y pulsadores / Betekenis van de magneten resp. magneetkleppen, toetsen

<p>S1</p>  <p><799> = 1,2,3,4</p>	<p>Transportumstellung von Hand / manual feed reverse / renversement de marche manuel / mudança do transporte manual / commutazione trasporto a mano / inversión de transporte manual / handmatige transportomschakeling</p>
<p>S1</p>  <p><799> = 5,6</p>	<p>Stichverdichtung / stitch condensation / rétrécissement des points / condensação dos pontos / addensamento punti / condensación de puntadas / steekverdichting</p>
<p>S2</p>  <p><616> = I</p>	<p>Nadelpositionswechsel / needle position change-over / changement de position d'aiguille / troca de posição da agulha / cambio di posizione dell'ago / cambio de posición de aguja / naaldpositie-verwisseling</p>
<p>S2</p>  <p><616> = II</p>	<p>Nadel hoch ohne Schneiden / needle up without thread trimming / aiguille en haut sans coupe / agulha para cima sem corte de linhas / ago su senza taglio / aguja arriba sin corte / naald omhoog zonder snijden</p>
<p>S3</p> 	<p>Einzelstich / single stitch / point unique / ponto individual / punto singolo / puntada individual / enkele steek</p>
<p>S4</p>  <p><427> = 1</p>	<p>Presserfuß / presser foot / pied presseur / calcador / alzapiedino / prensatelas / drukvoet</p>
<p>S4</p>  <p><427> = 2</p>	<p>Hubverstellung / stroke adjustment / variation de course / alteração do curso / regolazione della corsa / ajuste de carrera / hefhoogteverstelling</p>
<p>S4</p>  <p><427> = 3</p>	<p>Puller / puller / puller / puller / puller / estirar / puller</p>
<p>S4</p>  <p><621>, <427> = 4</p>	<p>STOP</p>
<p>S4</p>  <p><427> = 5 <578> = I <799> = 5</p>	<p>Abhacker / chopper / chopper / guilhotina / taglio / guillotina / afhakker</p>
<p>S6</p>  <p><665></p>	<p>STOP</p>
<p>S13</p>  <p><585></p>	<p>Drehzahlbegrenzung / speed limitation / limitation de vitesse / limitação das rotações / limitazione velocità / limitación de velocidad / beperking van het toerental</p>
<p>S14</p> 	<p>Synchronisationsimpuls / synchronisation pulse / impulsion de synchronisation / Synchronisationsimpuls / Synchronisationsimpuls / impulso de sincronisacion / sincroniesatie impuls</p>

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 Signification des aimants resp. solenoides et touches / Significação dos imãs e/ou as solenoidas e teclas
 Significato dei magneti, delle valvole magnetiche e dei tasti / Significación de los imanes y/o los solenoides
 y pulsadores / Betekenis van de magneten resp. magneetkleppen, toetsen

<p>Y1  I max 8 A * <799> = 1,2,3,4</p>	<p>Fadenschneider magnet. / magn. thread trimmer / coupe-fil magnétique / corte de linhas magnético / rasafilo magnetico / cortahilos magnético / draadsnijder magnetisch</p>
<p>Y1  I max 8 A * <799> = 5,6 <427> ± 5 <578> = II</p>	<p>Fadenschneider vorwärts / thread trimmer forward / coupe-fil en avant / corte de linhas para a frente / rasafilo avanti / cortahilos adelante / draadsnijder voorwaarts</p>
<p>Y1  I max 8 A * <799> = 5 <427> = 5 <578> = I</p>	<p>Abhacker / chopper / chopper / guilhotina / taglio / guillotina / afhakker</p>
<p>Y2  I max 8 A * <799> = 4,5</p>	<p>Fadenschneider rückwärts / thread trimmer backward / coupe-fil en arrière / corte de linhas para trás / rasafilo indietro / cortahilos atrás / draadsnijder achterwaarts</p>
<p>Y2  I max 8 A * <799> = 6</p>	<p>Begrenzung der Stichlänge / Limitation of stitch length</p>
<p>Y3  I max 8 A * <799> = 1,2,3,4,6</p>	<p>Fadenwischer / thread wiper / écarteur de fil / retira-linhas / scartafilo / retirahilos / draadwisser</p>
<p>Y3  I max 8 A * <799> < 5</p>	<p>Messer (Pedal ≥ +2 / Lichtschanke dunkel) / chopper (treadle ≥ +2 / light barrier is dark) / chopper (pédale ≥ +2 / barrage photoélectrique est éteint) / lâmina (pedal ≥ +2 / barreira luminosa estiver escura) / coltello (pedale ≥ +2 / relè fotoelettrico è scuro) / cuchilla (pedal ≥ +2 / barrera fotoeléctrica está oscura) / mes (pedaal ≥ +2 / lichtbarrière donker)</p>
<p>Y3  I max 8 A * <799> = 5</p>	<p>Kette blasen / chain blowing / soufflage de chaînette / soprar de cadeia / soffiatura catenella / soplar cadeneta / blazen van een ketting</p>
<p>Y4  I max 8 A *</p>	<p>Presserfuß heben / lifting presser foot / relevage du pied presseur / levantar do calcador / sollevamento del alzapiedino / elevación de prensatelas / drukvoet optillen</p>
<p>Y5  I max 8 A * <799> = 1,2,3,4</p>	<p>Transportumsteller / feed reverse / renversement de marche / mudança do transporte / commutazione trasporto / inversión de transporte / transportomschakeling</p>

Bedeutung der Magnete bzw. Magnetventile, Taster / Meaning of magnets and/or solenoids and keys
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 Significato dei magneti, delle valvole magnetiche e dei tasti / Significación de los imanes y/o los solenoides
 y pulsadores / Betekenis van de magneten resp. magneetkleppen, toetsen

<p>Y5 I max 8 A * <799> = 5,6 <427> ≠ 5</p> 	<p>Stichverdichtung / stitch condensation / rétrécissement des points / condensação dos pontos / addensamento punti / condensación de puntadas / steekverdichting</p>
<p>Y5 I max 8 A * <799> = 5,6 <427> = 5</p> 	<p>Kette saugen / chain vacuum / aspiration de chaînette / aspirar de cadeia / aspirazione catenella / aspiración cadeneta / zuigen van een ketting</p>
<p>Y6 I max 8 A * <799> = 1,2,3,4</p> 	<p>Fadenschneider pneumatisch / pneum. thread trimmer / coupe-fil pneumatique / corte de linhas pneumático / rasafilo pneumático / cortahilos neumático / draadsnijder pneumatisch</p>
<p>Y7 I max 8 A * <427> = 1</p> 	<p>Presserfuß senken / presser foot down / pied presseur en bas / calcador em baixo / alzapiedino giù / prensatelas abajo / drukvoet laten zakken</p>
<p>Y7 I max 8 A * <427> = 2</p> 	<p>Hubverstellung / stroke adjustment / variation de course / alteração do curso / regolazione della corsa / ajuste de carrera / hefhoogteverstelling</p>
<p>Y7 I max 8 A * <427> = 3</p> 	<p>Puller / puller / puller / puller / puller / estirar / puller</p>
<p>Y8 I max 8 A *</p> 	<p>Motor läuft / motor runs / moteur en marche / motor em movimento / motore in moto / motor en marcha / loop van de machine</p>
<p>Y10 I max 8 A *</p> 	<p>Fadenspannungslösen / thread tension release / détenteur de fil / soltar tensão da linha / sbloccaggio tendifilo / detensión del hilo / verbreken van de draadspanning</p>
<p>Y16 I max 80 mA 1/U</p> 	<p>Zählsignal / count signal / signal de comptage / sinal de contagem / segnale conteggio / señal del contador / telsignaal</p>

- * Die Summe der Lastströme aller gleichzeitig eingeschalteten Stellglieder (Magnete, Magnetventile) darf den Wert von 4A nicht überschreiten (siehe hierzu Kapitel 2. Technische Daten).
- * The total of load currents of all servos activated simultaneously (solenoids, solenoid valves) is not allowed to exceed 4 amps (see also section 2. Technical Specifications).
- * Le total des courants de charge de tous les vérins (aimants, électro-vannes) activés simultanément ne doit pas dépasser 4 A (voir aussi le chapitre 2. "caractéristiques techniques").
- * A soma das correntes sob carga de todos os actuadores ligados ao mesmo tempo (ímans, solenóides) não pode ultrapassar o valor de 4A (ver também capítulo 2. Dados Técnicos).
- * La somma delle correnti di carico di tutti gli attuatori inseriti contemporaneamente (magneti, elettrovalvole) non deve essere superiore a 4 A (vedere il capitolo 2. Dati Tecnici).
- * La suma de las corrientes bajo carga de todos los elementos de todos los componentes de regulación conectados simultáneamente (imanes, válvula magnética) no podrá sobrepasar el valor de 4A (véase también el capítulo 2. de datos técnicos).
- * De belastingsstroom van alle tegelijkertijd ingeschakelde bedieningsschakels (magneten, magneetventielen) mag in totaal niet meer dan 4 A bedragen (zie hiervoor hoofdstuk 2. Technische gegevens).