MINI-STOP

QE3760

$C\epsilon$

Type

Q10MS

Instruction Manual

Part 3

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Technical updatings reserved!

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 Q10MSII (7A_901_1.ENO)

Function	Abbrev'n	Parameter	Input Output	Connection Socket/Contacts
Accelerate	DRZAN	722		
Brake	DRZAB	723/851		
Control	REG	880/881/884 885/886/887 889/890/891 990		
Defect search	HWT	797		
Delay	VERZ	623		
Direction of rotation	DRR	800		
Hardware test	HWT	797		
Inverse rotation	RDR	618/623/801		
Machine class	MAKL	799		
Needle position	NAPO	648/701/702 703		
Program	PR	851		
Programming level C	EBC	798		
Residual brake	STBR	718		
Soft start	SANL	116/117		
Speed	DRZ	117/605/606 607/608/609 676		
Speed decrease	DRZAB	723/851		
Speed increase	DRZAN	722		
Speed limitation	DB	676	E13 E15 E18	X3:23 X3:24 X4:21
Start	START	603		
Thread trimming	SN	609	A2 A2	X3:5 X4:5
Time needed to switch on	EINZ	889		

11.4 List of Parameters Q10MSII (7A_901_1.EN)

No.	Function (Meaning)	Level	Range Values	of Value	Standard
116	(SANL) Soft start stitches	A,B,C	0 - 255	0	Kl. 1
117	(SANL/DRZ) Speed for soft start stitches	B,C	30 - 640	500	Kl. 1
603	(START) Start after seam end	B,C		I	Kl. 1
	I after treadle 0 only				
	II immediate start of operation				
605	(DRZ) Actual speed in display	B,C		II	Kl. 1
	I yes				
	II no				
606	(DRZ) Speed: level 1 (min.)	B,C	30 - 640	200	Kl. 1
607	(DRZ) Speed: level 12 (max.)	B,C	100 - 9900	4000	Kl. 1
608	(DRZ) Speed level curve (treadle characteristic)	B,C		I	Kl. 1
	I linear				
	II not linear				
609	(SN/DRZ) Trimming speed 1	B,C	30 - 300	200	Kl. 1
618	(RDR) Inverse rotation after seam end	B,C		II	Kl. 1
	I yes				
	II no				
623	(RDR/VERZ) Delay in start-up time (ms) for inverse rotation	B,C	0 - 2550	10	Kl. 1
648	(NAPO) Needle positions	B,C		II	Kl. 1
	I one				
	II two				
676	(DRZ/DB) Speed adjustment via potentiometer possible	B,C		I	Kl. 1
	I yes				
	II no				
701	(NAPO) Angular adjustment	B,C		I	Kl. 1
	I with handwheel (teach-in)				
	II by keys (+/-)				
702	(NAPO) Needle position 1 (needle down)	B,C	0 - 127	40	Kl. 1
703	(NAPO) Needle position 2 (thread take-up lever up) (00000011)	B,C	0 - 127	108	Kl. 1
718	(STBR) Timing of residual brake (0 = brake off)	B,C	0 - 100	0	Kl. 1
722	(DRZAN) Acceleration ramp	B,C	1 - 50	40	Kl. 1
	1 gradual				
	50 steep				
723	(DRZAB) Brake ramp	B,C	1 - 50	31	Kl. 1
	1 gradual				
	50 steep				
797	(HWT) Hardware test	B,C		II	Kl. 1
	I yes				
	II no				
798	(EBC) Programming level C	B,C		II	Kl. 1
	I yes				
	II no				
799	(MAKL) Machine class which has been selected	B,C	1 - 1	1	Kl. 1
800	(DRR) Direction of motor rotation viewed from belt pulley	B,C		II	Kl. 1
	I left-hand rotation				

	II right-hand rotation				
801	(RDR) Reverse rotation angle after seam end	B,C	5 - 106	16	Kl. 1
851	(PR/DRZAB) Brake ramp for stitch-count seams	C		I	Kl. 1
	I steep				
	II gradual				
880	(REG) Starting current max. [A]	C	1 - 10	5	Kl. 1
881	(REG) adaption of positioning characteristics of motor to machine to avoid vibration	B,C	0 - 12	6	Kl. 1
884	(REG) Proportional amplification of the speed control (in general)	B,C	4 - 255	15	Kl. 1
885	(REG) Integral amplification of the speed control	C	0 - 100	35	Kl. 1
886	(REG) Proportional amplification of the order controllers	C	1 - 255	64	Kl. 1
887	(REG) Differential amplification of the order controllers	C	1 - 255	32	Kl. 1
889	(EINZ/REG) Time required for order controlling (0 = always)	C	0 - 1000	250	Kl. 1
890	(REG) Proportional amplification of the superior order controllers for the residual brake	C	1 - 255	25	Kl. 1
891	(REG) Proportional amplification of the lower speed controllers for the residual brake	C	1 - 255	20	Kl. 1
990	(REG) Distance to position at switch over from speed control to position control	C	1 - 255	12	Kl. 1