JUKI®

SC-921,SC-922/M51N/CP-18,CP-180
Control Box / Servomotor / Operation Panel

SC-922/M51N

CP-18

CP-180

Control Box / Servomotor — SC-921,SC-922 / M51N

■ The new model control box, which energy-saving mode is provided. SC-921,SC-922

The new model control box SC-921 and SC-922 have been newly developed. The control boxs are resistant to voltage fluctuations, noise and vibration. The new model control boxs are provided with an energy-saving mode for the first time in a control box for sewing machines. Power consumption during standby period is further reduced. Considering convenience in setup and resource saving, both the volume and the weight of the control box has been reduced by 30 % or more (as compared with the conventional control box SC-500 and SC-510).

■ High-power motor M51N

High-torque AC servomotor M51N with an output of 750W has been adopted. The machine has excellent high-speed sewing performance and a strong cloth-penetrating force. The machine therefore demonstrates a broader range of applicability, from general fabric to extra heavy-weight materials.

Operation panels — CP-18,CP-180

Two different operation panels, the CP-18 and CP-180 are applicable to the SC-921,922/M51N. Select the operation panel to be used, either the CP-18 or the CP-180. (The sewing machine will not operate unless the operation panel is installed.) The main functions of the respective operation panels are as shown in the table.

The CP-180 is recommended for sewing difficult-to-sew materials, hard-to-sew parts or for processes in which lots of setup changes are required. With the CP-180, in addition to the functions of the CP-18, the speed of stitch adjustment, ON/OFF of the automatic thread trimmer, automatic reverse stitching, double-reverse stitching, constant-dimension sewing, rectangular stitching and multi-layer stitching can be changed over with a finger-tip control, thereby substantially reducing the length of time required for setup changing.

Production support function

Both operation panels are provided with a production support function. The production support function actually consists of three different functions (six different modes), which are the output control function, operation measuring function and bobbin counter function. Each with its own production support effect. An appropriate function (mode) can be selected as required. The parameter setting can be done on the operation panel, thereby helping reduce operator fatigue during setup changing.

◎ Function comparison table between CP-18 and CP-180

Main function	CP-18	CP-180
Production support function	○	○
Automatic reverse-feed stitching (performed at start/end of sewing; selectable)	0 to 15 stitches	0 to 19 stitches
Double reverse-feed stitching (performed at start/end of sewing; selectable):	0 to 15 stitches	0 to 19 stitches
Constant-dimension sewing (performed at start/end of sewing; selectable)	—	0 to 500 stitches, 0 to 19 stitches
Rectangular stitching (performed at start/end of sewing; selectable)	—	0 to 99 stitches, 0 to 19 stitches
Multi-layer stitching	0 to 15 stitches, 0 to 9 times	0 to 19 stitches, 0 to 9 times
Bobbin thread counter display	○	○
Needle up/down correction (1 stitch stroke or needle up/down according to the internal setting) (changeable between "up → down" and "down → up")	—	○
Automatic sewing (selectable between constant-dimension sewing and rectangular sewing)	—	○
Max. sewing speed control dial	—	○
Display of sewing speed (combined with the SC-921,SC-922)	○	○

※For the chainstitch machine (MF,MH,MO,MS), only CP-18 is applicable. Therefore, automatic reverse feed stitching function, double reverse feed stitching function, multi-layer stitching function and bobbin counter display function are not available.

Example of use

❶ Target No. of products display mode <F100>
In this mode, the target number of products for a day and the number of products finished at the current time are displayed.

Actual number of products : 496 psc. Target number of products : 500 psc.

Actual   Target

Actual   Target

CP-18

CP-180

❷ Target-actual result difference display mode <F200>
Under this mode, the difference between the target number of products and the actual number of products produced is displayed according to the work hours.

Target-actual result difference : -4 pcs , Remaining operation time (Count down by sec.) : 58sec

Difference   Remaining operation time

Difference   Remaining operation time

CP-18

CP-180

■ SPECIFICATIONS

Model name	SC-921/M51N	SC-922/M51N
Motor type	AC servomotor	
Motor output	750W	
Power requirement	Single-phase 100～120V, 200～240V	3-phase 200～240V
Power consumption	It depends on the operating conditions and installed machine head.	
Number of input ports	10 (for optional inputs)	Max.24 [*1] (for optional inputs)
Number of output ports	8 (for optional outputs)	Max.32 [*1] (for optional outputs)
Number of basic programs [*2]	–	4
Number of basic programs steps	–	25 sewing steps (per 1 program)

[*1] It depends on installed machine head.
[*2] Basic programs are intended to operate external devices such as the stacker or to change the sewing machine operation during sewing.

■ WHEN YOU PLACE ORDERS

Control box

S C 9 2 1 ☐☐

Applicable model	Code
MF-7200D/UT(Thread trimming type), MS-3580	A
LH-3500A-7, LH-3528A(Direct-drive type), LH-4128, LH-4128-7, MF-3620-B(Direct-drive Hand-pulley type)	B
DLN-6390-7, DSC-245-7･246-7, DSU-142-7･145-7、DU-141H-7, MF-7700･7700D/UT(Thread trimming type), MF-7800･7800D/UT(Thread trimming type), MH-481-5･484-5･486-5, MO-6700･6900/LB6, LH-3500A, LZ-2284C-7, LZH-1290-7	C

S C 9 2 2 ☐☐

Applicable model	Code
DNU-1541-7, DSC-245-7･246-7, DSU-142-7･145-7, DU-141H-7, LS-1342-7, LU-1510N-7･1511N-7･1510NA-7, LU-1520N-7･1521N-7･1560N-7･1561N-7, LU-2210N-7･2210W-7･2212N-7, LU-2216N-7･2266N-7, LU-2220N-7･2260N-7･2260W-7, LZH-1290-7, PLC-1710-7･1760-7･1760L	A

Power supply	Code
Single-phase 100～120V (for JA[*])	S
3-phase 200～240V (for General Export, JA[*])	D
Single-phase 200～240V (for General Export)	K
Single-phase 200～240V (for CE)	N
Single-phase 200～240V (for China)	U

[*] JA : North America and Central and South America

Motor

M 5 1 N

Operation panel

C P 1 8 ☐

Applicable model	Applicable control box	Code
DLN-6390-7, LH-3500A, LH-3500A-7, LH-4128, LH4128-7	SC-921	A
MF-3620-B(Direct-drive Hand-pulley type), MF-7200D/UT(Thread trimming type), MF-7700･7700D/UT(Thread trimming type), MF-7800･7800D/UT(Thread trimming type), MH-481-5･484-5･486-5, MO-6700･6900/LB6, MS-3580	SC-921	B
DSC-245-7･246-7, DSU-142-7･145-7, DU-141H-7, LZH-1290-7	SC-921	C
DNU-1541-7, LS-1342-7, LU-1510N-7･1511N-7･1510NA-7, LU-1520N-7･1521N-7･1560N-7･1561N-7, LU-2210N-7･2210W-7･2212N-7, LU-2216N-7･2266N-7, LU-2220N-7･2260N-7･2260W-7, PLC-1710-7･1760-7･1760L	SC-922	

C P 1 8 0 ☐

Applicable model	Applicable control box	Code
DLN-6390-7, LH-3500A, LH-3500A-7, LH-4128, LH4128-7	SC-921	A
DSC-245-7･246-7, DSU-142-7･145-7, DU-141H-7, LZH-1290-7	SC-921	C
DNU-1541-7, LS-1342-7, LU-1510N-7･1511N-7･1510NA-7, LU-1520N-7･1521N-7, LU-1560N-7･1561N-7, LU-2210N-7･2210W-7･2212N-7, LU-2216N-7･2266N-7, LU-2220N-7･2260N-7･2260W-7, PLC-1710-7･1760-7･1760L	SC-922	

● To order, please contact your nearest JUKI distributor.

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※ Specifications and appearance are subject to change without prior notice for improvement.
※ Read the instruction manual before putting the machine into service to ensure safety.