

CONTROL BOX / SERVOMOTOR

SC-510 / M51

M51(AC servomotor)



SC-510 (control box)

High-power motor M51

- High-torque AC servomotor with an output of 750 W 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.

Sophisticated control box SC-510

Excellent operability

- The control box SC-510 allows the setting of automatic reverse stitching and multi-layer stitching, as well as establishing sewing programs simply from the control panel mounted on the front face of the control box without using the operation panel.



Panel on the front face of the control box.

Higher reliability

- Reliability is further increased by the adoption of a switching power system, which is not easily affected by voltage variations, and the strengthening of the protective circuit.

Operation panel (option)

- The CP-160C or IP-100E operation panel can be used as an option.

The control box has been provided with a simplified programming capability.

- Four different programs can be operating at one time. Twenty operation steps can be entered in one program.
- The control box can be utilized for additional functions, such as the addition of a stacker function, by establishing many different programs.

The control box has been provided with a function for responding to external signals.

- The control box has been provided with eight* each of input and output ports which can be used by the customer as desired, an IPOP board (for IP-100E) connection port and a CP-160C connection port.

* The number of input/output ports is limited by the machine head used by the customer.

- An additional eight input ports and eight output ports are available by installing an IPOP board (optional), which supports various controls and specifications.

SPECIFICATIONS

Model name	SC-510/M51
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	9 (8 for optional inputs + 1 for back-tucking inputs)
Number of output ports	13 (8 for optional outputs + 5 for magnet outputs)
Number of programs	4
Number of steps	20 steps / 1 program
Program input	Control box or operation panel (optional)

APPLICABLE MODELS

1-needle, Lockstitch Machine	DLN-6390-7
Overlock / Safety Stitch Machine	MO-6000 Series
Coverstitch Machine	MF-7700 Series
	MF-7800 Series
Double Chainstitch Machine	MH-480 Series
	MH-1410
Machine for Heavy Materials	LU-1500N Series
	LU-2200N Series
	DSC-240 Series
	DSU-140 Series
	PLC-1600 Series
	DU-141H-7, DNU-1541-7
	LS-1342-7, LZH-1290-7

Operation panel (option)



CP-160C

- Available functions are further increased and operability is improved by installing a CP-160C.
- Pattern sewing can be performed by the number of stitch control feature.
- Four different kinds of pattern sewing are possible: automatic reverse stitching, constant-dimension sewing, rectangle-shape sewing, and multi-layer stitching. The maximum number of stitches that can be set for automatic reverse stitching (single or double) is 19.
- The CP-160C has been provided with a bobbin thread counter.



IP-100E

- The IP-100E has more functions than those provided for the CP-160C and has improved operability.
- The operation panel has been provided with a large user-friendly LCD. A pictograph and set values are shown on the same screen, which promises improved operability of the panel.
- The operation panel has been provided with a variety of communication and maintenance control features and is able to store data on a SmartMedia or personal computer.
- The features of the operation panel can be updated without the need for changing the PWB/ROM.

WHEN YOU PLACE ORDERS

Please note when placing orders, that the model name should be written as follows:

PSC box

SC510□S

PSC box			Code
For JUS (LA)*	Single-phase	100~120V	S
For JUS*, General Export	3-phase	200~240V	D
For General Export	Single-phase	200~240V	K
For EU (CE)	Single-phase	200~240V	N
For China	Single-phase	200~240V	U

*JUS: North America and Central and South America.

● To order, please contact your nearest JUKI distributor.

Control box	Code
Standard	S

Motor for SC

M51

Operation panel (option)

Operation Panel	Code
IP-100E*	IP-100E
CP-160C	CP-160C

*The IP-100E has been supplied with an IPOP board.

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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.
* This catalog is printed on recycle paper.



JUKI CORPORATION HEAD OFFICE
The environmental management system to promote and conduct
① the technological and technical research, the development and
design of the products in which the environmental impact is
considered,
② the conservation of the energy and resources, and the recycling,
in the research, development, design, distribution, sale and
maintenance service of the industrial sewing machines,
household sewing machines and industrial-use robots, etc. and
in the purchase, distribution and sale of the household
commodities including the healthcare products.