

LK-1903S

Computer-controlled, High-speed, Lockstitch, Button Machine

JUKI

SIMPLY
smart solution

Good Value Models with JUKI Quality and Friendly to Operators



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SPECIFICATIONS

Model name	LK-1903S-SS
Application	Standard
Max. sewing speed	2,700sti/min*
Button size	Type : Round-shaped, flat button (2-holed, 4-holed) Size : φ8~φ32mm 301 : φ8~φ20 302 : φ10~φ20 OPTION : φ15~φ32
Lubrication	Semi-dry head (Hook: minute-quantity lubrication)
Stitch length	0.1~10mm (0.1mm step)
Needle bar stroke	45.7mm
Lift of the work clamp foot	Max.13mm
Auto-lifter	Provided as standard (stepping motor type)
Needle thread tension	Spring type dial thread tension controller
Needle (at the time of delivery)	DP×17 (#14)
Hook	Standard shuttle hook
Number of stitches that can be stored in memory	Max. 20,000 stitches
Number of standard patterns	50 patterns
Number of data that can be input	200 patterns
Enlarging/Reducing facility	20~200% (1% step), Pattern enlargement/reduction can be done by increasing/decreasing the stitch length
Memory medium	Internal-organs memory
Bobbin thread counter	Provided as standard (up/down method)
Lubricating oil	JUKI New Defrix Oil No.2 (equivalent to ISO VG32)
Sewing machine motor	Compact AC servomotor (direct-drive system)
Power supply / Power consumption	Single-phase 200~240V / 250VA
Weight	Machine head (include motor) 42kg, Control box 5.1kg

*"sti/min" stands for "Stiches per Minute"

WHEN YOU PLACE ORDERS

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

Machine head

Application	Code	Work clamp foot	Code
Standard	S	Standard	S

LK1903SSS

Button clamp jaw lever	Code
For extra-small, small button	301
For medium-size button	302

Control box

Operation panel	Code
Standard	S

MC673

Power supply		Code
Single-phase	200V~240V	K
	200V~240V (For CE)	N
	200V~240V (For China)	U

● To order, please contact your nearest JUKI distributor.

JUKI ECO PRODUCTS	The LK-1903S is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.
	<ul style="list-style-type: none"> ● The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive. <p>For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html</p> <p>*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment. The Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.</p>

CM001	ISO14001 JSAE389	089
Registered Organization : JUKI CORPORATION Head Office The Scope of the Registration : The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.		

JUKI

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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 catalogue prints with environment-friendly soyink on recycle paper.
- * Paper from responsible sources FSC™ C001712

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JUKI Simple Series sewing machine LK-1903S has been designed to have simplified and narrowed down capabilities that are essentially required to produce JUKI's established seam quality. In addition, it supports the operator with the voice guidance system to improve work efficiency.



Standard operation panel (new model)

Voice guidance for the operator

This sewing machine is provided as standard with the voice-guidance system with clock function. This voice guidance can be used for the purpose of production support such as giving the operator information about the number of pieces produced, work progress management and the operation rate of sewing machine, though the initial setting is required.



Distance between holes in a button data contained in a pattern number can be changed with ease by means of the pattern enlargement / reduction function. This operation can be done by entering the scale ratio through the operation panel.

Standard sewing patterns(P1 to P200) can be assigned to pattern keys P1 to P50. Any of the sewing patterns assigned to the P1 to P25 pattern keys can be activated with a touch of the corresponding key. This means that workability is improved by assigning 25 sewing patterns that are most frequently used to those pattern keys.

As many as 99 different cycle sewing patterns, each of which combines a maximum of 99 different sewing patterns, can be stored in the memory.

The operation panel is provided as standard with a USB port. This means that the sewing machine data management and software updating can be carried out with ease by means of the USB port.

JUKI's established quality is achieved with simplified functions

Higher productivity

The machine's starting, stopping, thread-trimming, up and down of button clamp jaw lever and the jump speeds have reducing to total cycle time.

Higher flexibility

This sewing machine quickly carries out sewing of various kinds of sewing patterns.

- The machine is provided as standard with 50 different sewing patterns. The machine permits easy changeover of sewing patterns for effortless execution of an inexhaustible range of sewing specifications.
- The LK-1903S is also able to sew buttons using the same data used for the LK-1903 (Data in EP-ROM are enabled by conversion).

Improved operability

Auto-lifter mechanism utilizing a system.



- The machine is provided as standard with auto-lifter that uses a stepping-motor system. This helps reduce operator fatigue.
- The work clamp foot lift can be set to a maximum of 13mm.

LED light (light quantity in five levels + light-out function)



The LED light that illuminates the needle entry area is provided as standard. The LED light is provided with the six-step changeover switch to control its brightness and light-out.

Excellent responsiveness promises comfortable work



The direct-drive system that directly connects the compact AC servomotor to the main shaft of the sewing machine has been adopted. This system enables quick startup and promises increased stopping accuracy, thereby contributing to improved responsiveness.

TABLE OF THE SEWING PATTERNS

Pattern No.	Stitch shape	Sewing thread (pcs.)	Standard length X (mm)	Standard length Y (mm)	Pattern No.	Stitch shape	Sewing thread (pcs.)	Standard length X (mm)	Standard length Y (mm)
1-34	⊗	6-6	3.4	3.4	18-44	⊗	6	3.4	0
2-35	⊗	8-8			19-45	⊗	8		
3	⊗	10-10			20	⊗	10		
4	⊗	12-12			21	⊗	12		
5-36	⊗	6-6			22	⊗	16		
6-37	⊗	8-8			23-46	⊗	6	0	3.4
7	⊗	10-10			24	⊗	10		
8	⊗	12-12			25	⊗	12		
9-38	⊗	6-6			26-47	⊗	6-6	3.4	3.4
10-39	⊗	8-8			27	⊗	10-10		
11	⊗	10-10			28-48	⊗	6-6		
12-40	⊗	6-6			29	⊗	10-10		
13-41	⊗	8-8			30-49	⊗	5-5-5	3.0	2.5
14	⊗	10-10			31	⊗	8-8-8		
15-42	⊗	6-6			32-50	⊗	5-5-5		
16-43	⊗	8-8			33	⊗	8-8-8		
17	⊗	10-10							

※ (1) Standard sewing lengths X and Y given above are given assuming that the scale is 100.
 (2) Use the patterns No. 34~50 with hole diameter 1.5mm or less.

MODELS CLASSIFIED BY BUTTON SIZES

Model name	LK-1903S-301	LK-1903S-301	LK-1903S-302
Button size	For extra-small button		For medium-size button
Outside diameter that can be adjusted (mm)	φ8~φ9	φ9~φ10	φ10~φ20
Sewing size (mm)	Length (Y)	0~2.5	0~3.5
	Width (X)	0~2.5	0~3.5
Button clamp jaw lever (combination)	Thickness (mm)	1.7 (2.2)	2.0 (2.2) (2.7) (0.9)
	Part No.	MAZ158070BB (MAZ158070BA)	G (MAZ155070B0) (MAZ156070B0) (B25553720A0)
Needle hole guide (mm)	A	1.6 (1.8)	(1.6) (1.8) (1.1)
		φ2.8	(φ3.5)
	B	φ1.6	φ3.5
		MAZ15801000 (14149900)	(MAZ15501000) (14149603)
C	—	(D2426284Y00)	
	Part No.	—	MAZ15601000
Feed plate	MAZ15502000 (□8.5)	MAZ15502000 (□8.5)	MAZ15602000 (□10)

※ Parts shown in parentheses () are optional. ※: Engraved marker

OPTION

Option	Model name	Option
For large button	Button type	For shank button
φ15~φ32	Max. sewing speed	1,500sti/min
0~6.5	Button configuration	Outside diameter
0~6.5		Diameter of hole in button
2.7 (3.2)	Position of hole in button	φ8~φ20
—	Configuration of shank	φ1.5 or more
—		1.5mm or more
MAZ157070BB (MAZ157070BA)	Pattern No.	18, 19, 20, 21, 22
—		
MAZ157080BB (MAZ157080BA)	Optional part for shank button	
—	Part No.	Name of part
1.4	14146054	Pick-up device complete
φ3.5	D1401M1YC0A	Needle bar (for TQx1)
	φ2.0	MAZ160170A0
MAZ15701000		40015434
	MAZ15702000 (□12.5)	14148209
		SL6030892TN (2 pcs.)
	MAZ16015000	Button support link
	SD0640321TP	Hinge screw
	40010103	Connecting link
	SL6040892TN (2 pcs.)	Screw
	MAZ16021000	Needle hole guide
	MTQ300B1400	Needle TQx3 #14