

LK-1900B Series

Computer-controlled, High-speed, Bartacking Machine

Higher productivity.

Low-noise and low-vibration.



LK-1900B Series

The machine is provided with an active tension mechanism which enables the electronic control of "stitching."

LK-1900B Series

Higher productivity.

Low-noise and low-vibration.

Higher productivity.

- The machine achieves sewing speed of 3,200sti/min. The machine's starting, stopping, thread-trimming and automatic presser lifting speeds have been increased to significantly shorten total cycle time.

Excellent workability and operability.

(Low-noise and low-vibration)

- The direct-drive head (with no belt), which is directly connected to a compact AC servomotor, achieves outstanding. This head helps create a comfortable working environment with reduced vibration and noise.
- The arm section of the machine head is fitted with a hand pulley. This allows the operator to visually check the needle entry points.



LK-1900B-SS

Excellent seam quality.

- Needle thread grasping mechanism helps produce consistent knot tying at the beginning of sewing. (This device has been factory-set to "invoking prohibited" status at the time of delivery.)

Many different 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-1900B is also able to sew buttons using the same data used for the LK-1900 (EP-ROM).

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.
- It is also possible to change over the stroke of the auto-lifter from a onestep stroke to a double-step stroke, which offers easier positioning of a material on the machine. For the double-step stroke, an intermediate stopping height can be established on the operation panel.
- The work clamp foot lift can be set to a maximum of 13mm.

The sewing starting point can be corrected.

- In cases where the needle entry point for button sewing is to be corrected, the sewing starting point can be corrected without the adjustment of the relevant mechanism.

Oil stains are eliminated.

- Thanks to our advanced dry-head technology, the frame (needle bar and thread take-up) no longer requires lubrication. This prevents the material from being stained with lubricating oil.
- Just a small quantity of clean oil is supplied from the oil tank to the hook.

Eco-friendly power saving

- An encoder is installed in the pulse motor, thereby achieving substantially improved power-consumption saving.

The machine is provided as standard with the active tension (electronic thread tension control mechanism).

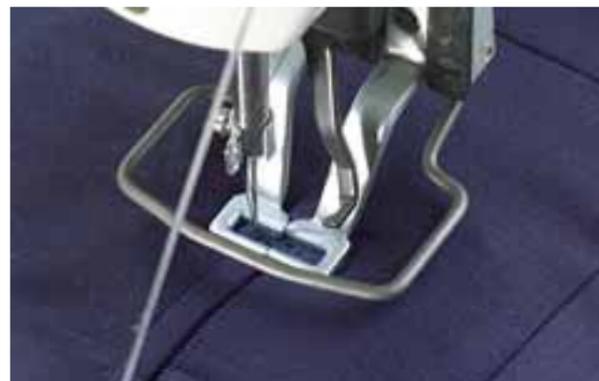
- Since the machine is provided with an active tension mechanism, it is able to set a needle thread tension that matches various sewing conditions (such as thread, material and sewing speed) on the operation panel, store the data in memory and reproduce it.
- The needle thread tension can be separated according to stitching type or portion of a seam, such as the beginning part of the seam, base stitched part, zigzag stitched part and end of the seam (fastening stitch).
- When the operation panel IP-420U is used in combination with the active tension, the needle thread tension can be set on a stitch-by-stitch basis. This helps eliminate undesired thread tension variations at a multi-layered part of a material or with sewing direction, thereby contributing to upgraded seam quality.



Active tension

Many different models are prepared according to the type of materials.

- The LK-1900B model comes in five different subclass models, such as S type (standard), H type (for heavy-weight materials), F type (for foundation), M type (for knits and knitted materials) and W type (with a large shuttle hook for heavy-weight materials), to offer a choice according to any application.
- The needle's penetrating force into the material has been increased. This provides an improved responsiveness to heavy-weight materials for the H type machine.
- The W type has adopted a large shuttle hook, which reduces the frequency of bobbin-thread changing to enable highly efficient sewing work.



1 S type (Bartacking pocket lip of suits)



H type (Bartacking crotch of jeans)



F type (Attaching the shoulder straps to brassier)
*Presser foot for vertical bartacking is supplied with the unit as an accessory.



M type (Bartacking shoulder of running shirt)

Computer-controlled,
High-speed Bartacking Machine for Eyelet Buttonholes

LK-1901B



LK-1901B-SS (Table stand is optionally available.)



The machine ensures high-quality bartacks on eyelet buttonholes.

- The machine is provided with a material-drawing mechanism which draws the right and left parallel portions of an eyelet buttonhole near to one another.
- The machine performs bartacking with the right and left parallel portions of the eyelet buttonhole drawn near to one another after the buttonhole is clamped under the work clamp foot, thereby finishing highly durable and well-tensed eyelet buttonholes.

The sewing pattern best suited to the sewing product to be bartacked can be selected by single-key operation.

- Three different sewing patterns are prepared to enable easy switchover of sewing sizes. If the sewing patterns are assigned to the pattern keys on the operation panel, the sewing patterns can be called up or changed with single-key operation.
- The machine sews the most optimally suited bartacks on eyelet buttonholes on the front bodies of garments and straight buttonholes that differ in stitch number and size on jacket lapels, thereby improving the finished quality of sewing products.

The material drawing mechanism can be switched to ON/OFF.

- The material drawing amount can be adjusted to 3mm at maximum. The material drawing mechanism can be switched ON/OFF in accordance with the setting of the memory switch. With these features, the material drawing mechanism can be used with greater flexibility.

Computer-controlled,
High-speed Belt-loop-attaching Machine

LK-1902B



LK-1902B-SS (Table stand is optionally available.)



The sewing pattern best suited to the sewing product to be bartacked can be selected by single-key operation.

- The machine is provided as standard with six different linear bartacking patterns. Since the sewing size can be easily changed, the optimal number of stitches and sewing size can be speedily selected according to the belt-loop width. If the normally used patterns are assigned to the patterns keys, a desired pattern can be called up or changed with single-key operation.

The machine head has been designed with an emphasis on operability.

- With its broadly curved feed bracket (presser arm), the machine permits easy placement of the material to be sewn. The slimly shaped bed and head design that allows free space under the arm demonstrates greater operability in handling materials on the machine and continuous processes. These features contribute substantially to increased productivity in belt-loop attachment processes.

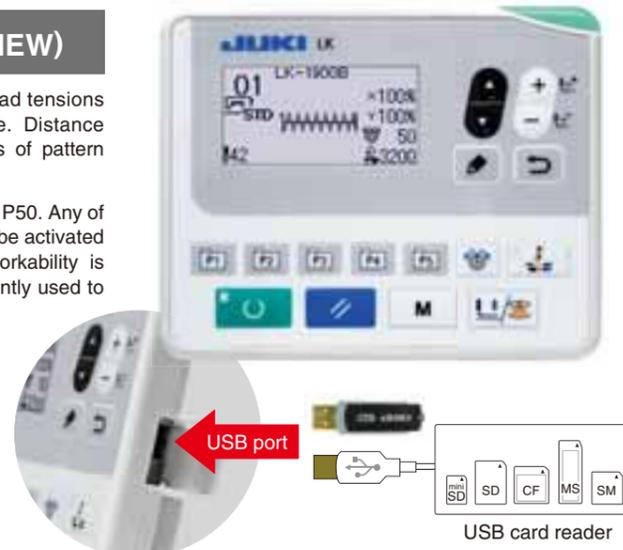
WORK CLAMP FOOT AND FEED PLATE FOR LK-1902B (for belt-loop attaching)

	Work clamp foot	Feed plate	Number of pattern
Provided as standard	13544465	14143002	17
LK-1902B-SS			18
LK-1902B-HS			
Option	13545660	13545504	19
For large size			20
			21
Option	13547161	13545801	22
For extra large size			22
		13547005	
			22

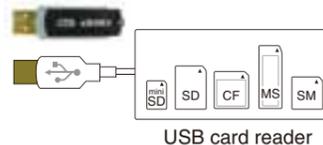
*A finger guard is included in the presser foot.

STANDARD LIQUID CRYSTAL PANEL (NEW)

- Functional settings, such as pattern numbers and needle thread tensions can be established through the operation panel with ease. Distance between holes in a button can be easily changed by means of pattern enlargement/reduction feature.
- Standard sewing patterns 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 25 different sewing patterns, can be stored in the memory.



USB port



USB card reader

IP-420U Operation panel provided with programmable functions

The IP-420U is a new operation panel configured with a "input function" not available in standard panel.

- Input and edit data while observing the needle-entry points visually.
- The operator can easily check the shape of the pattern displayed on the wide liquid crystal panel.
- Make minor adjustments to data quickly and efficiently. Overall use is easier than ever before.
- The memory storage capability of the main body of the sewing machine has been dramatically enhanced. Now the USB-ready main body of the sewing machine uses many different kinds of media. In addition to the Compact Flash card, the main body of the sewing machine is provided as standard with a USB connector. Now, data can be input/output to/from various kinds of media (SD (Secure Digital Card), CF (Compact Flash), SM (Smart Media), FD (floppy disks) etc.) by means of a USB thumb device and a card reader.



*IP-420U should be ordered as a part.
[IP-420U : 40144886]

TABLE OF THE STANDARD PATTERNS

	No.	Stitch diagram	Number of stitches	Sewing size (mm)		No. of work clamp foot (Note 2)	
				Length-wise	Cross-wise		
Large bartacking	1		42	2.0	16	1	
						2	
						3	
		2		42	2.0	10	1
			2				
			3				
		3*		28	2.5	16	1
			4				
		4*		36	3.0	24	6
			7				
	5		36	2.0	10	1	
						2	
						3	
	6*		56	2.5	16	1	
						4	
	7		64	3.0	24	6	
						7	
						7	
Small bartacking	11		21	2.5	6		
	12		28	2.5	6	8	
	13		36	2.5	6		
Large bartacking	14		14	2.0	8		
	15		21	2.0	8	5	
	16		28	2.0	8		

	No.	Stitch diagram	Number of stitches	Sewing size (mm)		No. of work clamp foot (Note 2)	
				Length-wise	Cross-wise		
Linear bartacking	17		21	0	10	1	
						2	
						3	
		18		28	0	10	1
			2				
			3				
	19		41	0	25	6	
		7					
	20		44	0	25	6	
		7					
	21		44	0	35	6	
		7					
Lengthwise bartacking	23		28	20	4.0		
		24		36	20	4.0	
	25		56	20	4.0	9, 10	
	26		18	20	0		
Lengthwise linear bartacking	27		21	10	0		
		28		28	20	0	11

(Note) 1. Sewing size shows the dimensions when the scale rate is 100%.
 2. Refer the No. of work clamp foot to the separate table of work clamp foot.
 3. For No. 22, modify the work clamp foot blank for use.
 4. Use the patterns with * marks for sewing denim.

	No.	Stitch diagram	Number of stitches	Sewing size (mm)		No. of work clamp foot (Note 2)	
				Length-wise	Cross-wise		
Semilunar bartacking	31		52	7	10	13	
		32		63	7	12	13
		33		24	6	10	13
	34		48	10	7	14	
	35		48	10	7	14	
Large size bartacking	36		90	3	24	6	
						7	
Knit goods bartacking	37		28	2	8	5	
Round bartacking	38		28	ø12	16		
		39		48	ø12	16	
	40						

	No.	Stitch diagram	Number of stitches	Sewing size (mm)		No. of work clamp foot (Note 2)	
				Length-wise	Cross-wise		
Lengthwise bartacking	41		29	20	2.5		
		42		39	25	2.5	
	43		45	25	2.5	12	
	44		58	30	2.5		
	45		75	30	2.5		
Radial tacking	46		42	30	2.5		
		47		91	ø8	15	
	48		148	ø8	15		
	49		164	ø8	15		
	50						

TABLE OF THE WORK CLAMP FOOT

No. of work clamp foot	1	2	3	4	5	6	7	8
Work clamp foot	13518659(asm.)		13548557(asm.)	13542964(asm.)	13548151(asm.)		13542451(asm.)	
Feed plate	14116107	14116404	14116800	14116305	14116206	13548003	13554803	14116602
Finger guard*	26224204				13548300			26224204
Application code	S	F	F	H	M	S	H	S
S (standard)	Installed on machine head	—	—	—	—	Option	—	Option
H (heavy-weight materials)	—	—	—	Option	—	—	Installed on machine head	—
F (foundation)	—	Option*	Installed on machine head*	—	—	—	—	—
M (knitted materials)	—	—	—	—	Installed on machine head	—	—	—
W (with large hook, heavy-weight materials)	—	—	—	—	—	—	Installed on machine head	—

No. of work clamp foot	9	10	11	12	13	14	15	16
Work clamp foot	13571955(asm.)		13561360(asm.)	14137509(Right) 14137608(Left)	40021871(Right) 40021872(Left)	40021874(Right) 40021875(Left)	40021877(Right) 40021878(Left)	40021880(Right) 40021881(Left)
Feed plate	14116503	14116909	14116701	14137707	40021873	40021876	40021879	40021882
Finger guard*	14135305				26224204			
Application code	F	F	F	H	S	S	S	S
S (standard)	—	—	—	—	Option	Option	Option	Option
H (heavy-weight materials)	—	—	—	—	—	—	—	—
F (foundation)	Option*	Supplied with machine as accessory*	Option	Option	—	—	—	—
M (knitted materials)	—	—	—	—	—	—	—	—
W (with large hook, heavy-weight materials)	—	—	—	—	—	—	—	—

* For the foundation type (F-type) sewing machine for the European market, the work clamp foot No. 2 is installed on the machine head and the work clamp foot No. 9 is supplied with the machine as an accessory (packed together) (note that the work clamp feet No. 3 and No. 10 are not supplied with the machine).

* Install a finger guard suitable for each work clamp foot when replacing the work clamp foot.

OPTION

Simple work clamp kit

for the LK-1900B Series

Conventionally, the front plate has to be removed to change the work clamp. With the new work clamp kit, the work clamp can be changed without removing the plate.



- The lever for lifting the work clamp can be independently slid back and forth.
- The machine parts can be adjusted and replaced entirely by hand without screwdrivers or others tools. Changing parts is now a "clean-hands" procedure.

Simple work clamp kit

Part No.: 40057279

* The work clamp cover plates (right and left) are not included in the kit.

Foot pedal for standing work (optional)



● 2-pedal unit for standing work*

[Part No. M85205800A0]

* To connect the cable asm. to the electrical box, conversion cable (separately available) is necessary.

● Pedal switch conversion cable asm.

[Part No. M90125900A0]



● PK-57*

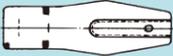
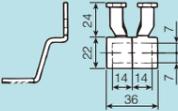
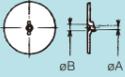
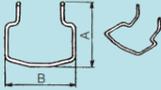
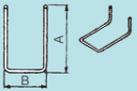
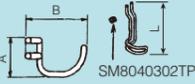
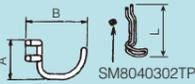
[Part No. GPK570010B0]

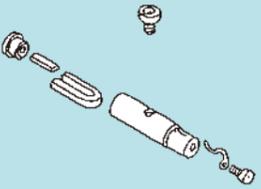
* To connect the cable asm. to the electrical box, conversion cable (separately available) is necessary.

● Pedal switch conversion cable asm.

[Part No. M90135900A0]

TABLE OF THE OPTIONAL PARTS

Part name	Type	Part No.
Feed plate blank  t=1.2 *Stainless steel t=0.5	Without knurl/with plating Sewing area 20x40	14120109
	With knurl/with plating Sewing area 20x40	14120307
	Without knurl/stainless steel* Sewing area 20x40	14120505
	Without knurl/with plating Sewing area 30x40	40021855
	Without knurl/without plating Sewing area 30x40	40021856
	Without knurl/stainless steel* Sewing area 30x40	40021857
	With knurl/with plating Sewing area 30x40	40021858
	With knurl/without plating Sewing area 30x40	40021859
Work clamp foot face plate (asm.) 	Face plate for presser blank	14121263
Presser blank  t=3.2	With knurl/with plating (right) Sewing area 20x40	14121701
	With knurl/with plating (left) Sewing area 20x40	14121800
	With knurl/with plating (right) Sewing area 30x40	40021851
	With knurl/with plating (left) Sewing area 30x40	40021852
	With knurl/without plating (right) Sewing area 30x40	40021853
	With knurl/without plating (left) Sewing area 30x40	40021854
Work clamp foot blank 	With knurl/with plating (right)	40021869
	With knurl/with plating (left)	40021870
Needle hole guide 	A=1.6 B=2.6 With relief slit Standard type	B2426280000
	A=1.6 B=2.0 Without relief slit F and M types	D2426282C00
	A=2.3 B=4.0 Without relief slit for heavy-weight material	14109607
	A=2.7 B=3.7 Without relief slit for extra heavy-weight material	D2426MMCK00
Finger guard (1) 	A=56.5 B=64	13533104
	A=59 B=74 For extra-large bartacking	13548300
Finger guard (2) 	A=66.5 B=43 For lengthwise bartacking	13573407
Finger guard (3) 	A=21.5 B=35.5 L=67 For lengthwise bartacking	14135305
Finger guard (4) 	A=21.5 B=35.5 L=58.5 For specially ordered work clamp	14120000

Part name	Feature	
Silicon oil pipe 	The silicon oil pipe are the parts which cool the heat of a needle.	
	Type	Part No.
	Silicon oil pipe	40040910
	Rubber plug	TA1050504R0
	Oil felt	13501705
	Silicon oil thread guide	B1127280000
	Screw 11/64 - 40 L5	SS4110515SP
Silicon oil pouring hole	13501408	

SPECIFICATIONS

Model name	LK-1900B-SS	LK-1900B-HS	LK-1900B-FS	LK-1900B-MS	LK-1900B-WS
Application	Standard	For heavy-weight materials	For foundation	For knits and knitted materials	With large hook for heavy-weight materials
Max. sewing speed	3,200sti/min*				2,700sti/min*
Sewing area	30mm (L) x 40mm (W)				
Stitch length	0.1~10mm (0.1mm step)				
Needle bar stroke	41.2mm				
Lift of the work clamp foot	Standard 14mm (17mm when the reverse-rotation needle-up function)				
Auto-lifter	Provided as standard (stepping motor type)				
Needle thread tension	Active tension (electronic thread tension control system)				
Needle (at the time of delivery)	DPx5 (#14)	DPx17 (#21)	DPx5 (#11)	DPx5 (#11)	DPx17 (#21)
Hook	Standard shuttle hook				Large 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 (for up to 150 patterns, sewing data can be added.)				
Enlarging/Reducing facility	20~200% (1% step), Pattern enlargement/reduction can be done by increasing/decreasing the stitch length				
Memory method	Internal-organs memory				
Bobbin thread counter	Provided as standard (up/down method)				
Lubrication	Hook: minute-quantity lubrication				
Lubricating oil	JUKI New Defrix Oil No.2 (equivalent to ISO VG32)				
Sewing machine motor	450W compact AC servomotor (direct-drive system)				
Power consumption	250VA				
Weight	Machine head (include motor) 42kg, Control box 5.6kg				

Model name	Eyelet buttonhole bartacking machine	Belt-loop attaching machine	
	LK-1901B-SS	LK-1902B-SS	LK-1902B-HS
Application	Standard	Standard	For heavy-weight materials
Max. sewing speed	3,000sti/min*		
Sewing area	30mm (L) x 40mm (W)		
Stitch length	0.1~10mm		
Needle bar stroke	41.2mm		
Lift of the work clamp foot	Standard 14mm (by using the reverse-rotation needle-up function 17mm)		
Auto-lifter	Provided as standard (stepping motor type)		
Needle thread tension	Active tension (electronic thread tension control mechanism)		
Needle (at the time of delivery)	DPx5 (#14)	DPx5 (#14)	DPx17 (#21)
Hook	Standard shuttle hook		
Number of stitches that can be stored in memory	Max. 20,000 stitches		
Applicable pattern number	11, 12, 13	17, 18 (19, 20, 21, 22*) *This device has been factory-set to "invoking prohibited" status at the time of delivery.	
Number of data that can be input	200 patterns (for up to 150 patterns, sewing data can be added.)		
Enlarging/Reducing facility	20~200% (1% step), Pattern enlargement/reduction can be done by increasing/decreasing the stitch length		
Memory method	Internal-organs memory		
Material drawing amount	Max. 3mm	—	
Bobbin thread counter	Provided as standard (up/down method)		
Lubrication	Hook: minute-quantity lubrication		
Lubricating oil	JUKI New Defrix Oil No.2 (equivalent to ISO VG32)		
Sewing machine motor	450W compact AC servomotor (direct-drive system)		
Power consumption	250VA		
Weight	Machine head (include motor) 42kg, Control box 5.6kg		

* "sti/min" stands for "Stitches per Minute"
 * CompactFlash™ or CFA specification compatible media.
 * "CompactFlash™" is a registered trademark of SanDisk Corporation, U.S.A.
 * Other company names and product names/brand names are trademarks or registered trademarks of the respective companies.

WHEN YOU PLACE ORDERS

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

Machine head

Bartacking

LK1900B□S000

Application	Code	Work clamp foot	Code	Attachment	Code
Standard	S	Standard	S	Not provided	000
For heavy-weight materials	H				
For foundation	F				
For knits and knitted materials	M				
With large hook for heavy-weight materials	W				

Eyelet buttonhole bartacking

LK1901BSS000

Application	Code	Work clamp foot	Code	Attachment	Code
Standard	S	Standard	S	Not provided	000

Belt-loop attaching

LK1902B□S000

Application	Code	Work clamp foot	Code	Attachment	Code
Standard	S	Standard	S	Not provided	000
For heavy-weight materials	H				

Control box

MC670□□□□□□

Power supply			Code	Operation panel		Code
3-phase	200~240V		E	Standard panel	SS	
	200~240V		K	Option panel	IP420U	
Single-phase	CE 200~240V (not provided with power switch)		N			

● To order, please contact your nearest JUKI distributor.

JUKI ECO PRODUCTS	<p>The LK-1900B Series is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment</p> <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. ● This sewing machine reduces power consumption by 15% as compared with the conventional models. <p>For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html <small>*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.</small></p>
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2-11-1, TSURUMAKI, TAMA-SHI,
 TOKYO 206-8551, JAPAN
 PHONE : (81) 42-357-2254
 FAX : (81) 42-357-2274
<http://www.juki.com>

* 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.



JUKI CORPORATION HEAD OFFICE
 Juki Corporation operates an environmental management system to promote and conduct the following as the company engages in the research, development, design, sales, distribution, and maintenance of industrial sewing machines, household sewing machines, industrial robots, etc., and in the provision of sales and maintenance services for data entry systems:
 (1) The development of products and engineering processes that are safe to the environment
 (2) Green procurement and green purchasing
 (3) Energy conservation (reduction in carbon-dioxide emissions)
 (4) Resource saving (reduction of papers purchased, etc.)
 (5) Reduction and recycling of waste
 (6) Improvement of logistics efficiency (modal shift and improvement of packaging, packing, etc.)