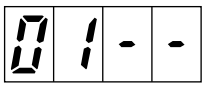
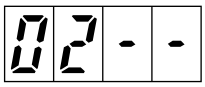
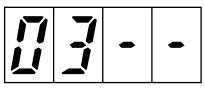
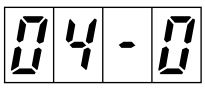
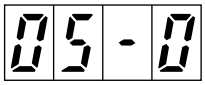
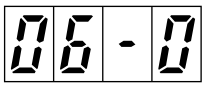
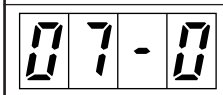
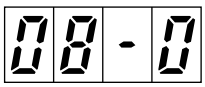
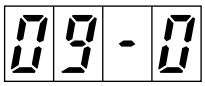
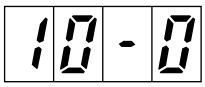
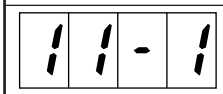
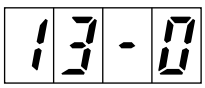
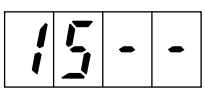
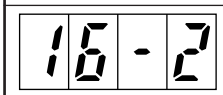
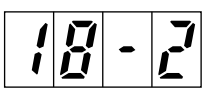
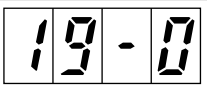
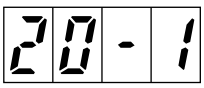
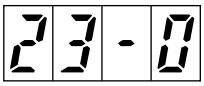
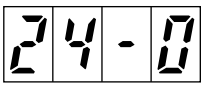
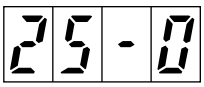
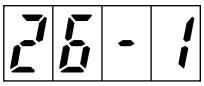
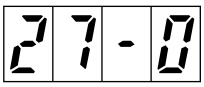
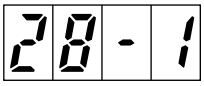
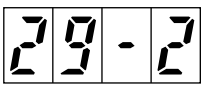
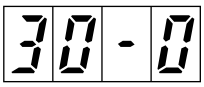
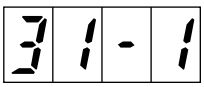
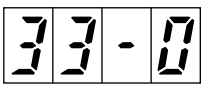
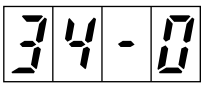
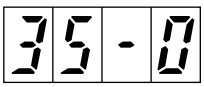
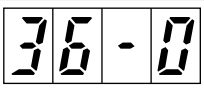
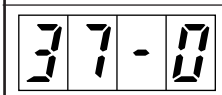
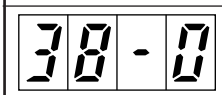
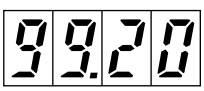
5. MEMORY SWITCH (LK-1910, 1920)

○ **Purpose of the memory switch ....** The memory switches are able to set the various performance of the sewing machine by means of programming. The contents are separated in the user level (U) and the service level (S).

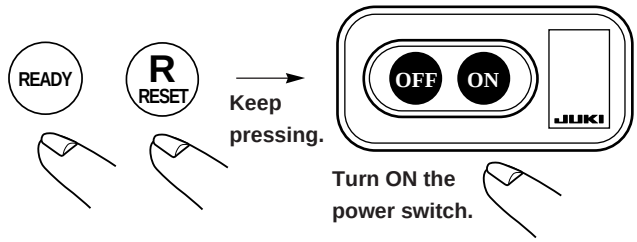
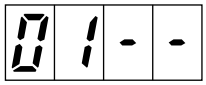
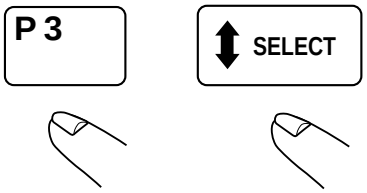
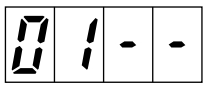
○ **List of items of memory switches**

No.	Level	Function	Setting range	State at the time of delivery
	U	Setting of upper limit of sewing speed (Setting in unit of 100 r.p.m.)	200 to 2,500 r.p.m.	2,500 r.p.m.
	U	Setting of soft start speed (Start-up speed of 1st to 5th stitch at sewing start is set in unit of 100 r.p.m.)	1st stitch : 200 to 900 2nd stitch : 200 to 2,500 3rd stitch : 200 to 2,500 4th stitch : 200 to 2,500 5th stitch : 200 to 2,500	200 r.p.m. 600 r.p.m. 1,000 r.p.m. 2,500 r.p.m. 2,500 r.p.m.
	U	Setting of calling service pattern data	Pattern No. 50 to 52 can be individually set. 0 : Ineffective 1 : Effective	No. 50 : 1 No. 51 : 1 No. 52 : 1
	U	Selection of key lock mode X/Y scale, display of max. speed limitation, and whether to change can be set. (Prevention of maloperation)	0 : OFF 1 : ON (Key lock)	0
	U	Selection of counter action Production counter : adding counter Bobbin thread counter : subtracting counter	0 : Production counter 1 : Bobbin thread counter	0
	U	Selection of needle bar stop position Upper dead point stop : After up-position stop, needle bar rotates reversely and stops near its upper dead point. (Stop position is higher.)	0 : Up position stop (53˚) 1 : Upper dead point stop (0˚)	0
	U	Selection of reference point of enlargement/reduction	0 : Origin 1 : Sewing start point	0
	U	Whether to execute origin retrieval after completion of sewing (When sewing with normal pattern No.)	0 : No 1 : Yes	0
	U	Whether to execute origin retrieval after completion of sewing (When sewing with cycle pattern)	0 : No 1 : Yes	0
	U	Selection of pedal specifications	0 : 1 pedal 1 : 2-step pedal 2 : 1 pedal (PK-57) 3 : 3-step pedal (right precedence) 4 : 3-step pedal (left precedenc) 5 : 3-step pedal (no precedence)	Solenoid type : 0 Pneumatic type : 3
	U	Selection of output of wiper solenoid	0 : No 1 : Yes	1
	S	Selection of prohibition of presser lifting after completion of sewing	0 : Lifting 1. : Prohibited	0
	S	Setting of range of feed travel limit (Setting separated in domains of +X, -X, +Y, and -Y)	X : 0 to ± 50 Y : 0 to ± 30 (Unit : 1 mm)	+X : 50 -X : 50 +Y : 30 -Y : 30
	U	Selection of input of midway stop switch (When selecting panel reset key, input of midway stop is performed only during sewing operation.	0 : Ineffective 1 : Operation panel reset key 2 : Machine head switch	2
	U	Selection of feed timing When thread is not well-tightened, set 1 or 0 to increase effect. (Main shaft angle sets start of feeding.)	0 : 161˚ Slow 1 : 149˚ 2 : 137˚ 3 : 125˚ Fast	2
	S	Selection of control of simultaneous jump feed with thread trimming (Normally, use 0.)	0 : Yes 1 : No	0

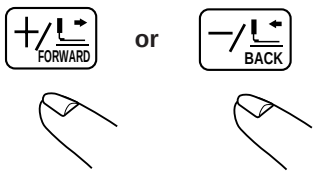
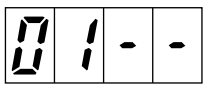
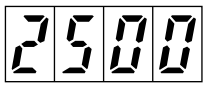
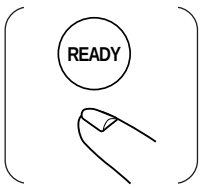
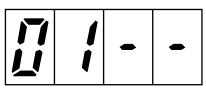
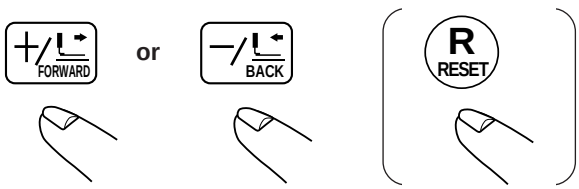
No.	Level	Function	Setting range	State at the time of delivery
	S	Needle thread breakage detection function is provided or not. (Detected at 8 stitches at sewing start and 3 stitches in midway)	0 : No 1 : Yes	1
	S	Selection of whether to execute intermediate presser control (Intermediate presser action delay is omitted and the cycle-time is shortened by setting "without intermediate presser control" when initial setting of LK-1920. Approximately 0.1 sec)	0 : No 1: Yes	LK-1910 : 0 LK-1920 : 1
	U	Selection of upper/lower sweeping of wiper	0 : Wiper sweeps above intermediate presser. 1 : Wiper sweeps below intermediate presser.	0 LK-1920 only
	U	Selection of air pressure detection	0 : No 1 : Yes	Solenoid type : 0 Pneumatic type : 1
	U	Origin correction when using presser of AMS-206 (Automatic shift to Y = -12 mm immediately after origin retrieval)	0 : No 1 : Yes	1
	U	Selection of basting mode Sewing data of pattern is read to “jump feed” and point of inflection to “sewing” respectively, and operation is performed.	0 : Normal 1 : Basting	0
	U	Selection of output of optional disk floating solenoid	0 : No 1 : Yes	1
	S	Do not change setting	0 : 1 : 2 :	2
	S	Selection of automatic preparation action when turning the power ON (Mode that pattern reading is executed and the condition is put in sewing when turning the power ON.)	0 : No 1 : Yes	0
	U	Making use of inversion command of pattern data, select whether to use inversion presser or thread tension controller No. 3 drive.	0 : Connection with inversion clamp presser 1 : Connection with thread tension controller No. 3	1
	U	Selection of presser lifting timing after completion of sewing	0 : Thread trimming presser lifting after return to origin 1 : Presser lifting immediately after thread trimming	0
	U	Selection of action of return to sewing start point If it is made effective, the machine traces sewing pattern and returns to sewing start point (only when inversion presser is used.).	0 : Normal 1 : Trace	0
	U	Selection of output of needle cooler	0 : No 1 : Yes	0
	S	Selection of thermal protect detection (Normally use “0”.)	0 : Yes 1 : No	0
	U	Selection of control of thread trimming command of pattern data (Even when it is ineffective, it is effective when stopping in midway or the like.)	0 : Yes 1 : No	0
	U	Selection of control of thread trimming device (In any case, thread trimming is not possible.)	0 : Yes 1 : No	0
	S	Selection of model at the time of delivery (Initial setting)	10 : LK-1910 / S 11 : LK-1910 / A 20 : LK-1920 / S 21 : LK-1920 / A (/ S : Magnet type) (/ A : Pneumatic type)	Depending on the specifications When changing, all memory switches are initialized to default values.

(1) Operating method (LK-1910, 1920)

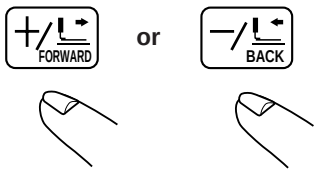
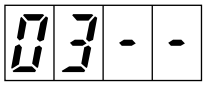
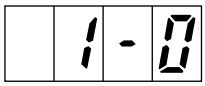
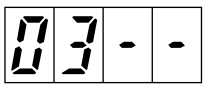
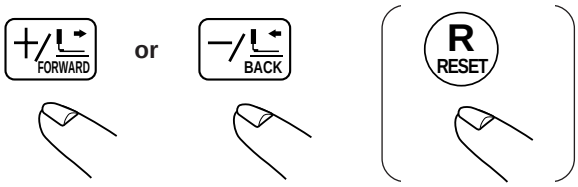
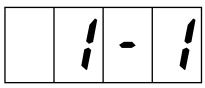
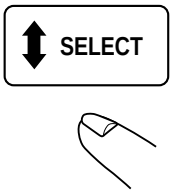
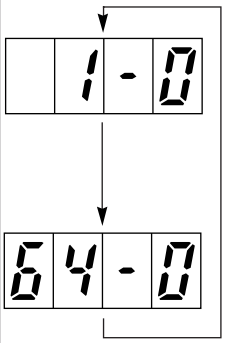
1) How to start the memory switches

Step	Operation method	Indication	Explanation
1			Pressing (READY) key and (R RESET) key, turn ON the power switch. (Start of the level 1) Immediately after turning
2			ON the power switch, simultaneously press [P 3] key and [SELECT] key. (The level moves to the level 2.)

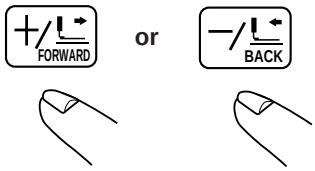
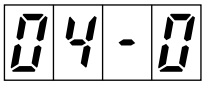
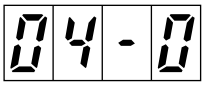
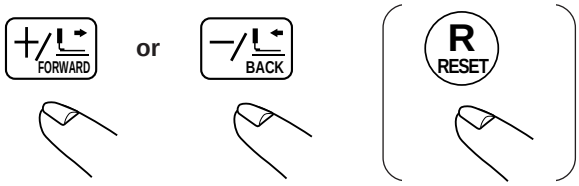
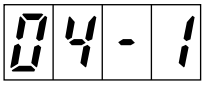
① Operation when both the latter first digit and second digit on the indication are "- -".

Step	Operation method	Indication	Explanation
① -1		[Ex.] When No. 01 is indicated. 	Press down [FORWARD] and [BACK] keys to select the indication No. desired to change.
① -2		 Sewing LED Lights up.	Press down (READY) key to light up the sewing LED.
			In step ① -2, if pressing down (READY) key again, the indication returns to the indication No.
① -3		(Example) When the max. speed limit is 1,800 r.p.m. 	Press down [FORWARD] and [BACK] keys to change and check the contents. (The setting returns to the initial setting by pressing down (R RESET) key.)
① -4		 Sewing LED Put out.	After setting, press down (READY) key and put out the sewing LED. Then register the contents.

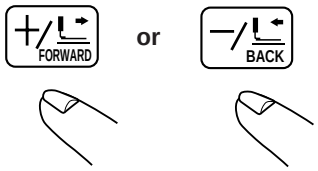
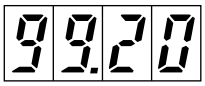
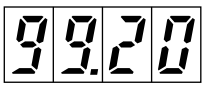
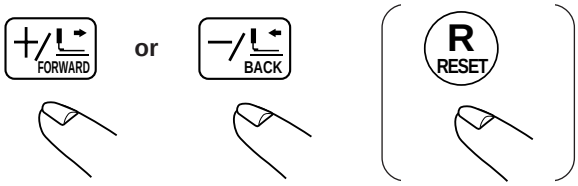
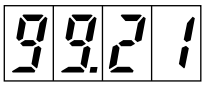
② Operation when the indication is “0 3 - -”.

Step	Operation method	Indication	Explanation
② -1			Press down FORWARD or BACK key to select the indication No. 3.
② -2		SEWING Sewing LED Lights up. 	Press down READY key to light up Sewing LED.
		SEWING Sewing LED Put out. 	When the step is ② - 2, if READY key is pressed twice, Sewing LED is put out and the indication returns to No. 03.
② -3		[Ex.] Calling of the standard pattern data to pattern No. 1 is possible. 	Press down FORWARD or BACK key to change whether or not to call the standard pattern data. (The setting returns to the initial value by pressing down R RESET key.)
② -4			Every time SELECT key is pressed, the pattern No. increases by one. (Pattern Nos. : 1 to 64) When the pattern No. is changed to the No. desired, change whether or not to call the standard pattern by operating the step ② - 3. After the pattern No. 64, the pattern No. returns to the Pattern No. 1.
② -5		SEWING Sewing LED Put out.	After setting, press down READY key to put out Sewing LED and register.

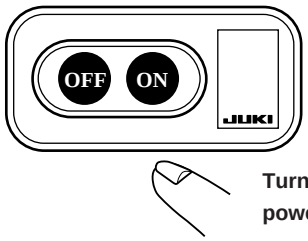
③ Operation when the latter second digit is “–” and first digit is “Numeral”

Step	Operation method	Indication	Explanation
③ -1		[Ex.] When the indication No. is No. 04. 	Press down FORWARD or BACK key to select the indication No. 04.
③ -2		SEWING Sewing LED Lights up. 	Press down READY key to light up Sewing LED.
③ -3			Press down FORWARD or BACK key to change the set value. (The setting returns to the initial value by pressing down R RESET key.)
③ -4		SEWING Sewing LED Put out.	After setting, press down READY key to put out Sewing LED and register.

Operation when the indication section is “99.”

Step	Operation method	Indication	Explanation
-1		[Ex.] When the indication No. is No. 99. 	Press down FORWARD or BACK key to select the indication No. 99.
-2		SEWING Sewing LED Lights up. 	Press down READY key to light up Sewing LED.
-3			Press down FORWARD or BACK key to change the set value. (The setting returns to the initial value by pressing down R RESET key.)
-4		SEWING Sewing LED Put out.	After setting, press down READY key to put out Sewing LED and register.

2) How to finish the memory switches

Step	Operation method	Indication	Explanation
1	 **Turn OFF the power switch.**		Turn OFF the power.