



5. Be sure to turn the power off and check to be sure that the machine and motor completely stop before removing the belt cover and V-belt in order to prevent accident caused by abrupt start of the machine or motor.
6. If a servomotor is used with the machine, the motor does not produce noise while the machine is at rest. Be sure not to forget to turn the power off in order to prevent accident caused by abrupt start of the motor.
7. Never use the machine with the cooling opening of the motor power box shielded in order to prevent fire accident by overheat.

**Lubrication**

1. Be sure to use JUKI genuine oil and JUKI genuine grease to the parts to be lubricated.
2. If the oil adheres on your eye or body, be sure to immediately wash it off in order to prevent inflammation or irritation.
3. If the oil is swallowed unintentionally, be sure to immediately consult a medical doctor in order to prevent diarrhea or vomiting.

**Maintenance**

1. In prevention of accident caused by unfamiliarity with the machine, repair and adjustment has to be carried out by a service technician who is thoroughly familiar with the machine within the scope defined in the instruction manual. Be sure to use JUKI genuine parts when replacing any of the machine parts. JUKI assumes no responsibility for any accident caused by improper repair or adjustment or the use of any part other than JUKI genuine one.
2. In prevention of accident caused by unfamiliarity with the machine or electrical-shock accident, be sure to ask an electrical technician of your company or JUKI or distributor in your area for repair and maintenance (including wiring) of electrical components.
3. When carrying out repair or maintenance of the machine which uses air-driven parts such as an air cylinder, be sure to remove the air supply pipe to expel air remaining in the machine beforehand, in order to prevent accident caused by abrupt start of the air-driven parts.
4. Be sure to check that screws and nuts are free from looseness after completion of repair, adjustment and part replacement.
5. Be sure to periodically clean up the machine during its duration of use. Be sure to turn the power off and verify that the machine and motor stop completely before cleaning the machine in order to prevent accident caused by abrupt start of the machine or motor.
6. Be sure to turn the power off and verify that the machine and motor stop completely before carrying out maintenance, inspection or repair of the machine. (For the machine with a clutch motor, the motor will keep running for a while by inertia even after turning the power off. So, be careful.)
7. If the machine cannot be normally operated after repair or adjustment, immediately stop operation and contact JUKI or the distributor in your area for repair in order to prevent accident that can result in personal injury or death.
8. If the fuse has blown, be sure to turn the power off and eliminate the cause of blowing of the fuse and replace the blown fuse with a new one in order to prevent accident that can result in personal injury or death.
9. Be sure to periodically clean up the air vent of the fan and inspect the area around the wiring in order to prevent fire accident of the motor.

**Operating environment**

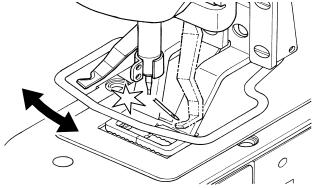
1. Be sure to use the machine under the environment which is not affected by strong noise source (electromagnetic waves) such as a high-frequency welder in order to prevent accident caused by malfunction of the machine.
2. Never operate the machine in any place where the voltage fluctuates by more than "rated voltage  $\pm 10\%$ " in order to prevent accident caused by malfunction of the machine.
3. Be sure to verify that the air-driven device such as an air cylinder operates at the specified air pressure before using it in order to prevent accident caused by malfunction of the machine.
4. To use the machine with safety, be sure to use it under the environment which satisfies the following conditions:  
Ambient temperature during operation     $5^{\circ}\text{C}$  to  $35^{\circ}\text{C}$   
Relative humidity during operation         $35\%$  to  $85\%$
5. Dew condensation can occur if bringing the machine suddenly from a cold environment to a warm one. So, be sure to turn the power on after having waited for a sufficient period of time until there is no sign of water droplet in order to prevent accident caused by breakage or malfunction of the electrical components.
6. Be sure to stop operation when lightning flashes for the sake of safety and remove the power plug in order to prevent accident caused by breakage or malfunction of the electrical components.
7. Depending on the radio wave signal condition, the machine may generate noise in the TV or radio. If this occurs, use the TV or radio with kept well away from the machine.
8. In order to ensure the work environment, local laws and regulations in the country where the sewing machine is installed shall be followed.  
In the case the noise control is necessary, an ear protector or other protective gear should be worn according to the applicable laws and regulations.
9. Disposal of products and packages and treatment of used lubricating oil should be carried out properly according to the relevant laws of the country in which the sewing machine is used.

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**Precautions to be taken so as to use the LK-1900BN Series more safely**



1. To avoid electrical shock hazards, neither open the cover of the electrical box for the motor nor touch the components mounted inside the electrical box.
2. After changing the pattern, make sure the needle entry point. If the pattern is protruded from the work clamp feet, the needle will interfere with the work clamp feet during sewing, and it is dangerous due to the needle breakage or the like.
3. Do not turn OFF the power in a state that the needle is lowered. Wiper may break the needle.



1. In case nothing is displayed in the operation panel even when the power switch is turned ON, turn OFF the power switch and check the power voltage and phase.
2. To prevent personal injury or death, never put fingers into the thread take-up lever, work clamp, work clamp mechanism and thread take-up cover, and under or near the cloth cutting knife and needle when turning on the power switch or while the machine is in operation.
3. To protect against possible accidents due to abrupt startup of the machine, turn OFF the power switch before tilting the machine head or removing the motor cover.
4. So as to prevent possible accidents caused by abrupt start of the sewing machine, depress the start switch after ascertaining that there is no interfering thing under the needle when winding the bobbin thread. In addition, do not allow hair to be close to the bobbin winder while it is in operation.
5. Feeding frame automatically comes down when pattern is changed, ready key is ON, Presser switch is ON, intermediate presser button is ON and bobbin winder button is ON. To prevent possible accidents caused by abrupt start of the sewing machine, never place your fingers under the feeding frame.
6. To avoid personal injury, never bring your fingers, hair or clothing close to V belt, cloth cutting knife or motor during operation, and never place anything on any of these parts.
7. To avoid personal injury, never operate the machine with the motor cover, eye protection cover, or any other safety devices removed.
8. To prevent personal injury or death, do not operate the sewing machine with its covers removed.
9. The operation panel displays safety warnings. It is necessary therefore to first verify normal display on the panel when the power switch is turned on, before operating the sewing machine.
10. To prevent personal injury or death, do not press the hand pulley while the sewing machine is in operation.
11. To avoid personal injury, be careful never to allow your fingers to go inside the machine when tilting or raising the machine head.
12. To prevent possible accidents due to electric shocks or damaged electrical component(s), always turn OFF the power switch before connecting or disconnecting the power plug.
13. During thunder and lightning storms, stop your work and disconnect the power from the outlet to ensure safety and prevent possible accidents due to damaged electrical component(s).

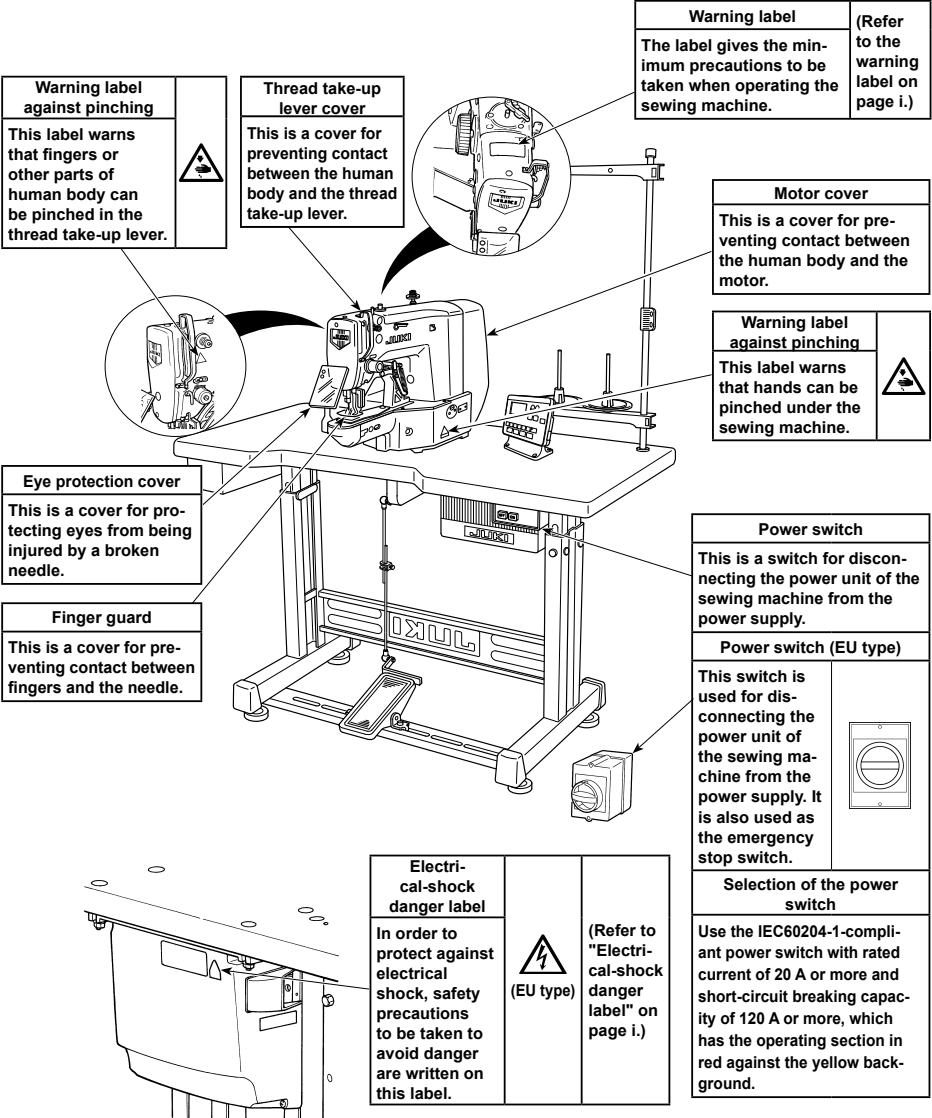
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14. If the machine is suddenly moved from a cold place to a warm place, dew condensation may result. If this occurs, be sure to confirm that there are no potentially dangerous water drops in the machine before turning it on in order to prevent possible accidents due to damaged electrical component(s).
15. In the event of a power failure, be sure to turn OFF the power to the machine to protect against damaged electrical components.
16. When the sewing machine is used without a break for many hours, the temperature of a part of the machine body or the rear side of operation panel rises higher by  $15^{\circ}\text{C}$  than the environmental temperature, and you may feel the heat from the part. However, this phenomenon is not abnormal, and does not affect the components or the like.
17. Do not lubricate the machine oil to the places other than the oil tank and the hook section. The grease lubricating system except the hook section is employed for this sewing machine, and the grease flows out when lubricating the machine oil resulting in worn-out of the components.
18. Be careful of handling this product so as not to pour water or oil, shock by dropping, and the like since this product is a precision instrument.
19. In a domestic environment this product may cause radio interference, in which case the user may be required to make corrective actions.
20. In order to prevent possible accidents due to a ground fault, the earth cable should be properly grounded.
21. For the control box to be connected to the LK-1900B Series, use the exclusive control box for the LK-1900B Series.


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**Safety devices and warning labels**




vii

Precautions to be taken so as to use the LK-1903BN/BR35 more safely



1. To avoid electric shock hazards, neither touch the motor or the button feeder, nor open the control box cover, and nor touch components mounted inside the control box while the power switch is turned ON.

2. Use the machine under the correct voltage setting.



1. To avoid personal injuries, exercise care not to allow your fingers, etc. to be caught in the button carrier acting to supply buttons during operating the machine.

2. Do not use the buttons other than those specified in the specifications of this machine.

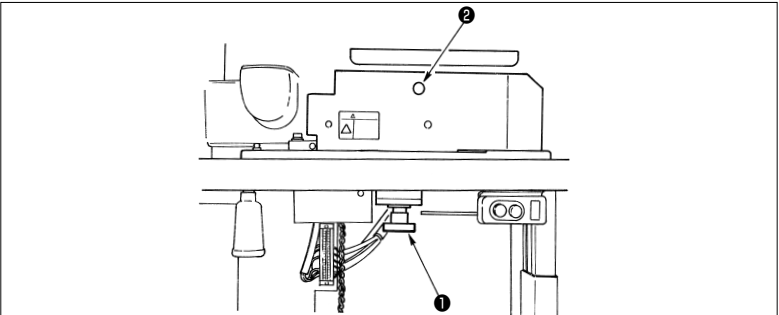
3. Be sure to use the button carrier and the pattern suitable for the buttons to be used.

4. After changing the shape of button, the pattern or enlargement/reduction of the sewing size, make sure of the needle entry point without fail.

5. So as to prevent possible accidents caused by abrupt start of the sewing machine, depress the pedal after ascertaining that there is no interfering thing under the needle when winding the bobbin thread.

6. Use the feed plate suitable for the buttons to be used.

7. When tilting the sewing machine, make sure that the button carrier is located at the origin position (the position where the button position is determined.). If not, turn spinner oscillating arm motor knob ➊ until the carrier is brought to its origin.



8. When Error “4” indicating an occurrence of a spinner oscillating arm failure or Error “5” indicating an occurrence of an index unit failure is given, the reset switch will be inoperative in order to protect the mechanical components. In this case, turn OFF the power to the machine once, and then re-turn ON the power.

9. This machine is equipped with the continuous cycle sewing feature. When you keep depressing the pedal, therefore, the buttons will be continuously fed from the button feeder. So, be careful.

10. If tightening too firmly screws of such components as the feed plate and the adjusting plate which are made of resin, the resin breakage may occur. So, be careful.

11. Apply grease on the worm gear and cam periodically (every six months).

12. The work attachment comes in two different types, the standard type and the large-button type (separate order). Whenever you have replaced the work attachment, be sure to adjust the fine positioning completion switch. (Refer to “V.11.(2) Adjusting the fine positioning completion switch (RFIN)” INSTRUCTION MANUAL for LK-1903BN/BR35 p. 22.)

13. If a button clogs in the index unit, turn first manual spinner oscillating shaft ➋ counterclockwise using a slit screwdriver until it is released.

14. Sensitivity of the button feeder is very delicate, so be sure to adjust it carefully.

15. Connect the connectors while checking the correct direction of the respective connectors.

16. When the operation panel is installed on the top surface of the table, pass the cable of the operation panel to the rear face of the table through the table hole where BR device cable is wired.

17. Be careful of handling this product so as not to pour water or oil, shock by dropping, and the like since this product is a precision instrument.

18. In a domestic environment this product may cause radio interference, in which case the user may be required to make corrective actions.

19. Be aware that the button clamp device comes down by its own weight when you turn the power off. Be sure not to place your hands or fingers under it to prevent injury.

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

We hereby declare that the sewing machine (sewing head) described below ;

1. Must not be put into service until the machinery to which it is incorporated has been declared in conformity with provisions of the Machinery Directive 2006/42/EC, and

2. Conforms to the essential requirements of the Machinery Directive 2006/42/EC, described in the technical documentation, and

3. To be prepared with above technical documentation compiled in accordance with part B of Annex VII, and

4. Also to conform to the RoHS Directive 2011/65/EU

5. Relevant information on which should be transmitted in response to a reasoned request by the national authorities, by the electronic method or other according to the request.

Model	LK-1900BN Series
Description	Industrial Sewing Machine
Function	make stitches and sew


Applied harmonized standards, in particular :  
EN ISO12100, EN ISO10821, EN 50581

Manufacturer :  
JUKI CORPORATION  
2-11-1, Tsurumaki, Tama-shi, Tokyo, Japan

Safety devices and warning labels

Warning label against pinching

This label warns that fingers or other parts of human body can be pinched in the thread take-up lever.



Warning label

The label gives the minimum precautions to be taken when operating the sewing machine.

(Refer to the warning label on page i.)

Thread take-up lever cover

This is a cover for preventing contact between the human body and the thread take-up lever.

Motor cover

This is a cover for preventing contact between the human body and the motor.


Warning label

The label gives the minimum precautions to be taken when operating the sewing machine.

(Refer to the warning label on page i.)

Warning label against pinching

This label indicates that there is a risk of contact between hands and fingers and the button carrier.

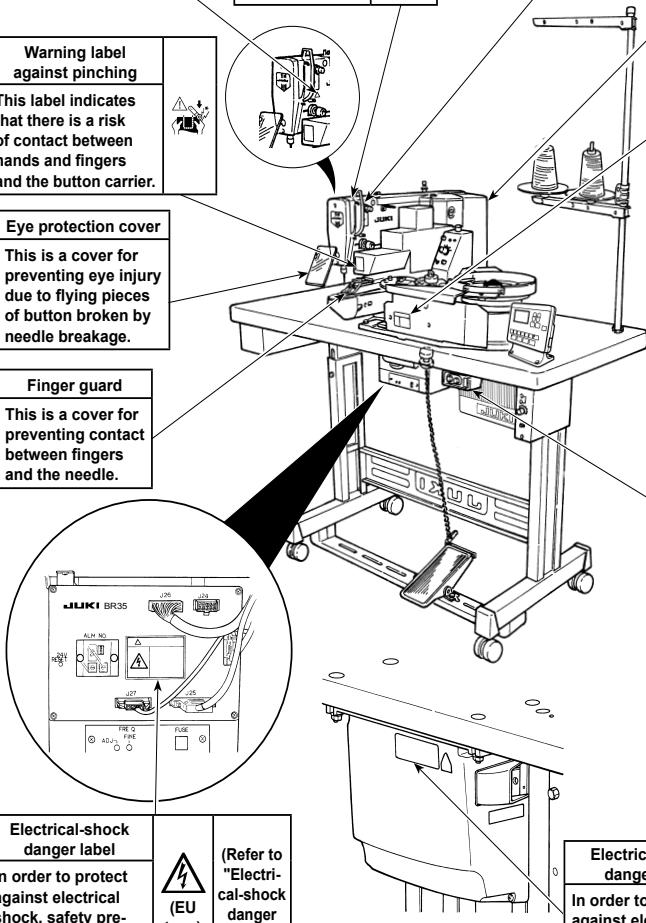


Eye protection cover

This is a cover for preventing eye injury due to flying pieces of button broken by needle breakage.

Finger guard

This is a cover for preventing contact between fingers and the needle.




Power switch

This is a switch for disconnecting the power unit of the sewing machine from the power supply.

Power switch (EU type)

This switch is used for disconnecting the power unit of the sewing machine from the power supply. It is also used as the emergency stop switch.




Selection of the power switch

Use the IEC60204-1-compliant power switch with rated current of 20 A or more and short-circuit breaking capacity of 120 A or more, which has the operating section in red against the yellow background.

Electrical-shock danger label

In order to protect against electrical shock, safety precautions to be taken to avoid danger are written on this label.


(EU type)



Electrical-shock danger label

In order to protect against electrical shock, safety precautions to be taken to avoid danger are written on this label.

(EU type)



CAUTION

In addition, be aware that the safety devices such as the “eye protection cover” and “finger guard” are sometimes omitted in the sketches, illustrations and figures included in the Instruction Manual for the explanation’s sake. In the practical use, never remove those safety devices.

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EC DECLARATION OF CONFORMITY

We hereby declare that the sewing unit or sewing system described as

Model	LK-1903BN/BR35
Description	Industrial Sewing Unit
Function	automatically make stitches and sew

complies with the following applicable regulations :  
EU Machinery Directive 2006/42/EC  
EU EMC Directive 2014/30/EU  
EU RoHS Directive 2011/65/EU

Applied harmonized standards, in particular :  
EN ISO12100, EN ISO10821, EN IEC 60204-31, EN 50581

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