

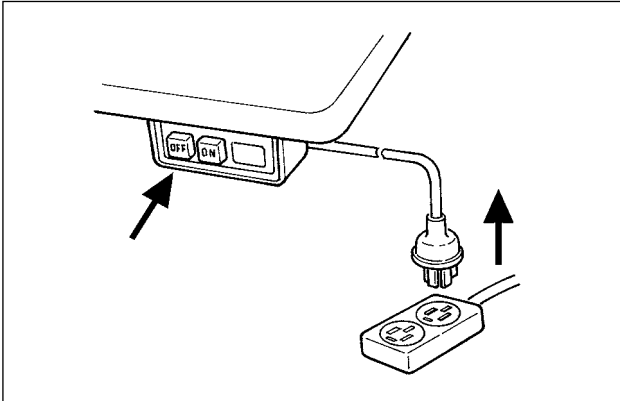
ENGLISH

**AK85B
INSTRUCTION MANUAL**

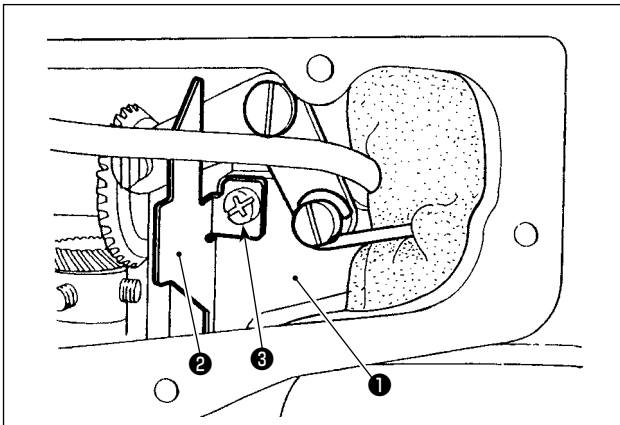
Congratulations on your purchase of a JUKI's window-plate-mounting type Auto lifter.

The main features of this device are as follows: 1) Simple installation, 2) Usable in combination with the knee lifter. Please read these instructions to assure long-term satisfactory usage.

INSTALLATION

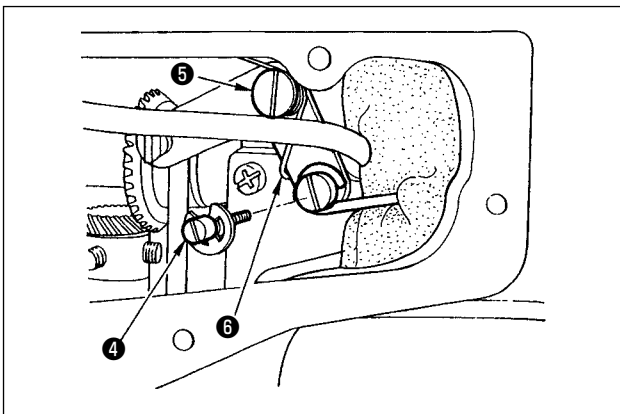


1. Press the OFF button of the power switch to turn OFF the power after confirming that the sewing machine has stopped.
2. Check to make sure that the power switch is in the OFF state. Then, unplug the power cord. Perform the work of step 3. after confirming that the power has been cut and it has passed for 5 minutes or more.

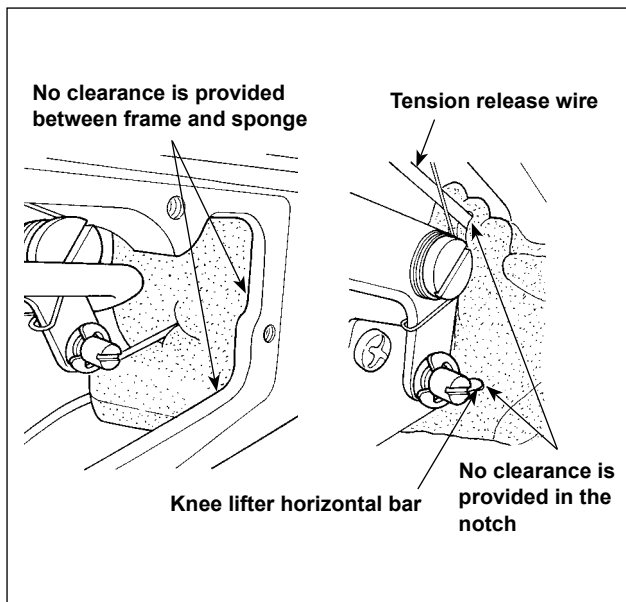


3. Remove the side plate.
Remove setscrew ③. Remove wire clamping base ① and oil shield ② both of which are secured with the same screw. (This oil shield ② is not used to install the AK device.) After you have removed oil shield ②, fix wire clamping base ① at its home position by means of setscrew ③.

(Caution) The floating amount of the tension disc is changed by loosening wire clamping base ①. After the assembly of the AK-85, check the floating amount of the tension disc and adjust if necessary. (Refer to "12. Adjustment of the floating amount of the tension disc No. 2"p.4.)

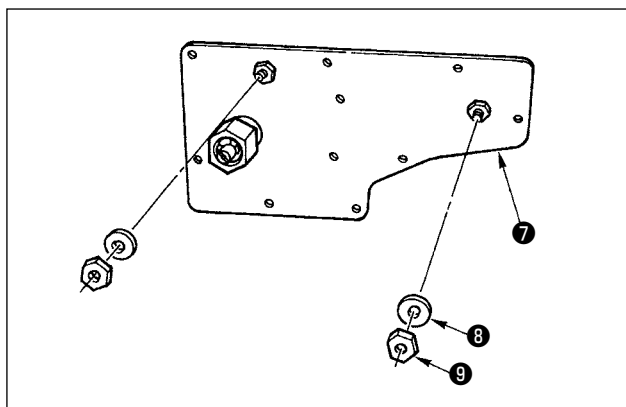


4. Replace the hinge screw of the knee lifter horizontal bar and the hinge screw of the knee lifter link with horizontal bar pin ④ and hinge screw ⑤ supplied with the unit. Install knee lifter link spring ⑥ as illustrated in the figure.

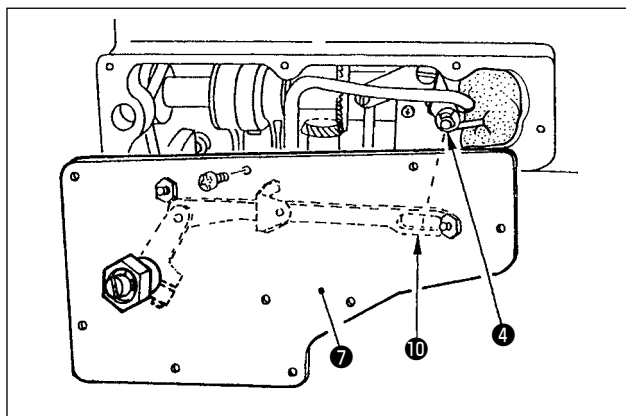


5. Make sure that a sponge is placed as illustrated in the figure. If not, pass the tension release wire in the upper notch and pass the knee lifter horizontal bar in the lower notch so that no clearance is provided in the notches. In addition, make sure that there is no clearance between the frame and the sponge.

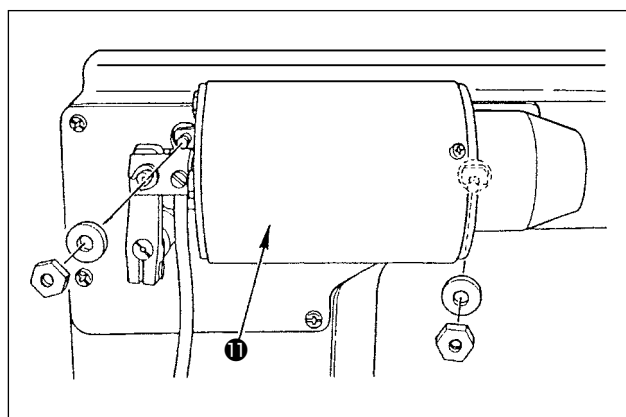
* Improperly-installed sponge can be a cause of oil leakage from the bobbin winder.



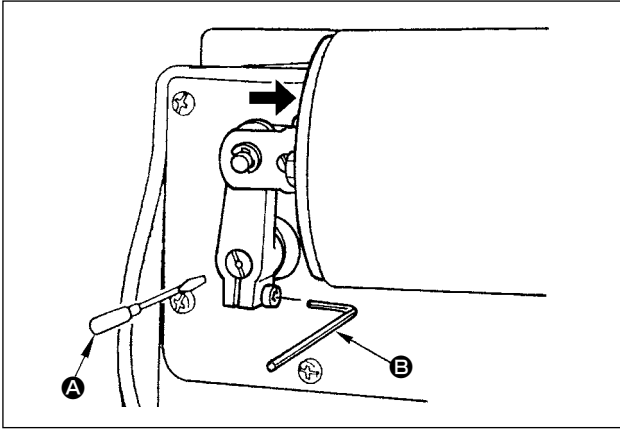
6. Remove washer 7 and nut 9 from side plate (asm.) 8 of the device.



7. Install side plate (asm.) 7 on the sewing machine. At this time, install side plate (asm.) so that the slot in solenoid link 10 fits over knee lifter horizontal bar pin 4.

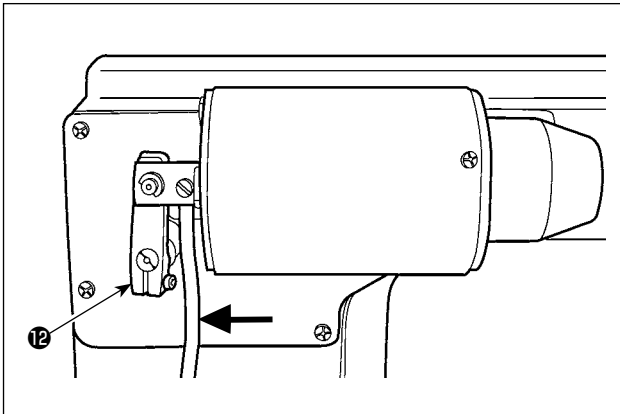


8. Install solenoid (asm.) 11.

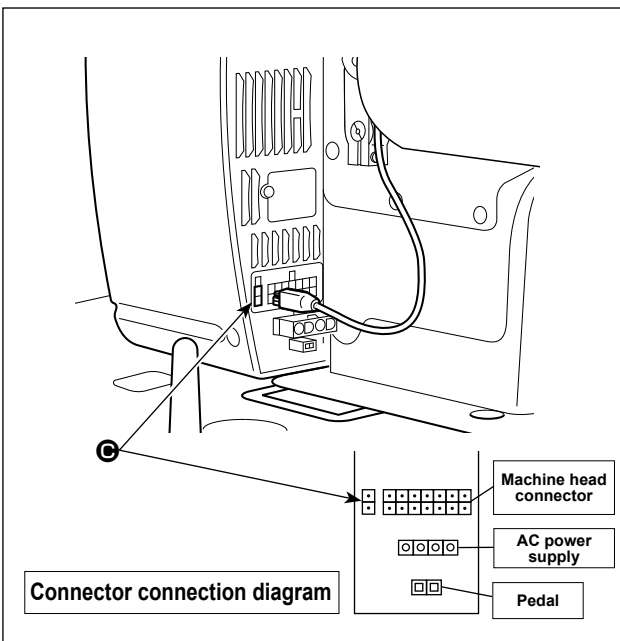


9. Lower the presser foot until it comes in close contact with the throat plate. Turn solenoid shaft counterclockwise with a screwdriver **A** with the solenoid pressed in the direction of the arrow, then tighten the connecting stud clamping screw with hexagonal wrench key **B**.

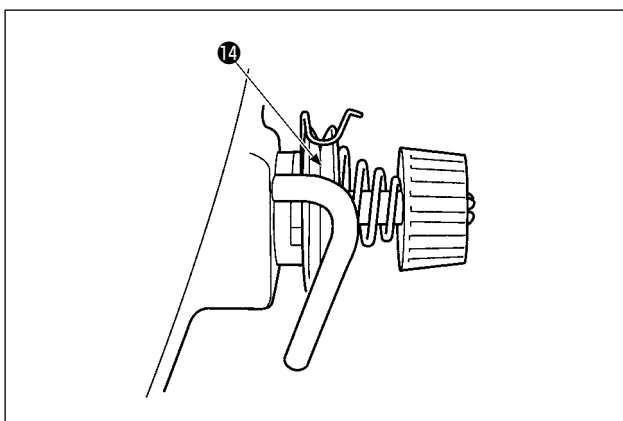
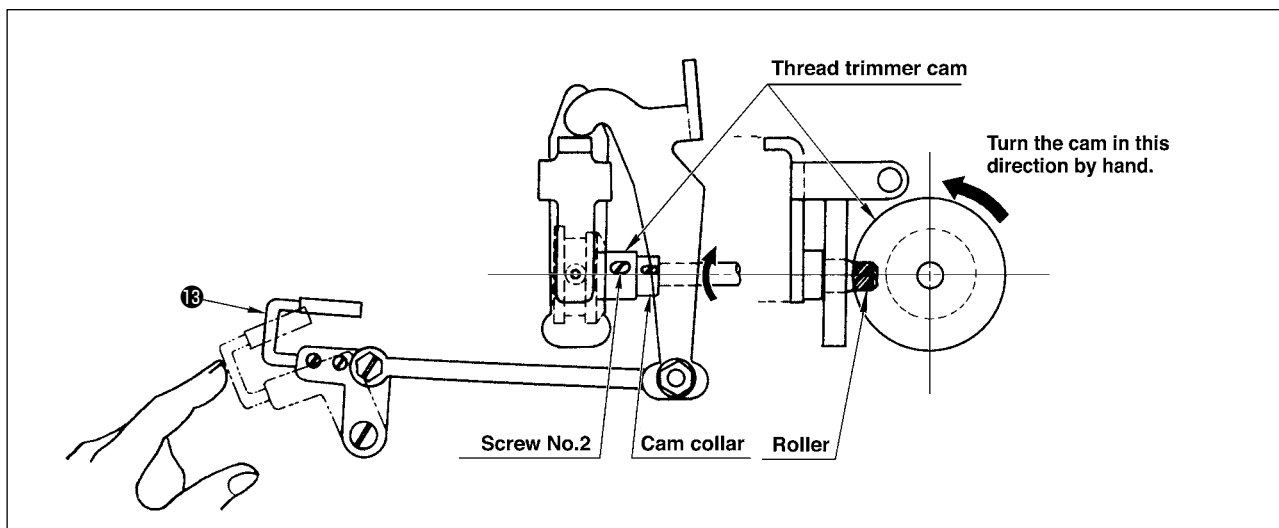
(Caution) The adequate tightening torque is 3.4 to 5.9 N·m. Be aware, if the connecting stud clamping screw is excessively tightened, the solenoid arm can break.



10. Pass the solenoid cord inside solenoid shaft **12**.



11. Connect the solenoid connector to connector **C** for the AK solenoid on the back surface of the control box.



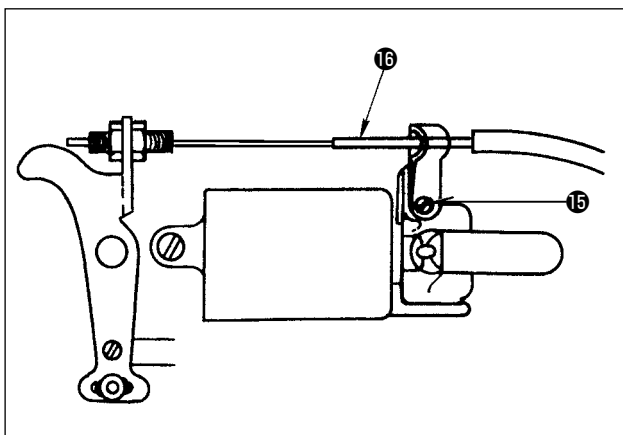
12. Adjustment of the floating amount of the tension disc No. 2

A. How to check the floating amount of the tension disc No. 2

Check whether the tension disc No. 2 (14) floats 0.5 to 1 mm when thread take-up picker (13) is pressed to the right with the thread take-up lever located slightly below its highest position and the presser foot lifted.

B. How to adjust the floating amount of the tension disc No. 2

1. To increase the floating amount, loosen screw (15), and move tension release wire (16) to the right.
2. To decrease the floating amount, loosen screw (15), and move tension release wire (16) to the left. After adjustment, securely tighten screw (15).



- (Caution) 1. To perform re-turning ON of the power, be sure to perform after the time of one second or more has passed. (If ON / OFF operation of the power is performed quickly, setting may be not changed over well.)
2. Auto-lifter is not actuated unless this function is properly selected.
 3. When "FL ON" is selected without installing the auto-lifter device, starting is momentarily delayed at the start of sewing. In addition, be sure to select "FL OFF" when the auto-lifter is not installed since the touch-back switch may not work.

SPECIFICATIONS

○ Presser foot lifting amount : Standard 9mm.

○ Max. presser foot pressure : 88N.

* Line voltage : At 100%