

JUKI

Pneumatic auto-lifter
TSC-461/AK-78

INSTRUCTION MANUAL

No.00

29036308

Congratulations on your purchase of a JUKI AK-78.

The AK-78 is a pneumatic auto-lifter. It is a reverse-step type lifter driven by air.

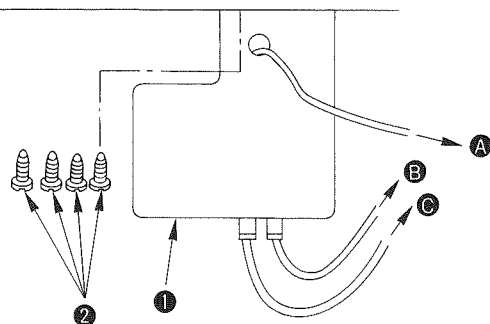
The AK-78 has been designed to be exclusively used with the K7H and is operated with connected to the K7H (AC servo mighty stop) motor.

To get the most out of the many functions of the AK-78, it is necessary to use the unit correctly, so please read this Instruction Manual carefully before using it. We hope you will enjoy using it for a long time.

Please keep this Instruction Manual taking care not to lose it.

1. Assembling procedure

* Figure observed from the handwheel
(Fig. 1)

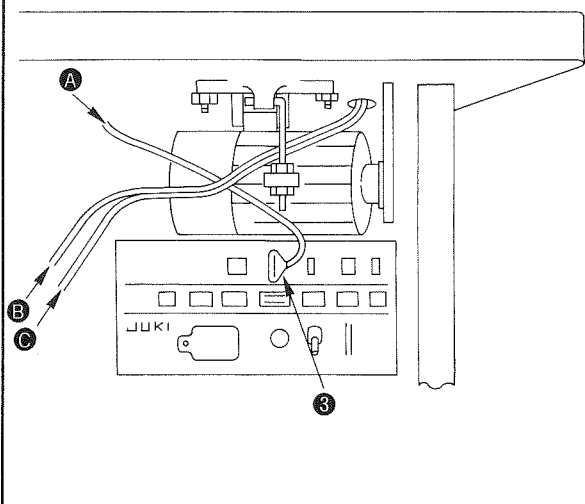


- 1) After the sewing machine has been set up, attach solenoid valve installing plate ① onto the wrong side of the table using wooden screws ② supplied with the unit

(Cable ① in Fig. 1 continues to cable ① in Fig. 2. Air hoses ② and ③ in Fig. 1 respectively continue to air hoses ② and ③ in Fig. 2.)

(Fig. 1)

* Figure observed from the operator
(Fig. 2)

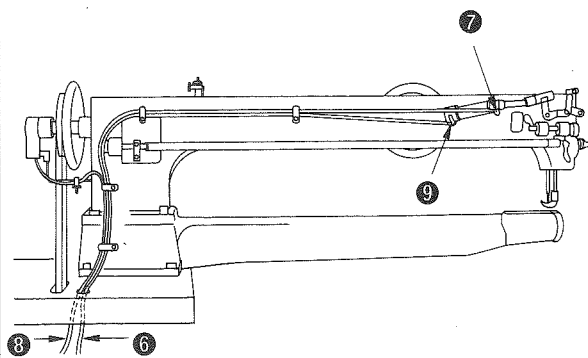


- 2) Connect 4-pin connector ③ to the connector for the auto-lifter in the PSC box. (Fig. 2)

(Caution)

Connect the cable and air hoses taking care not to allow them to come in contact with the V belt.

(Fig. 3)

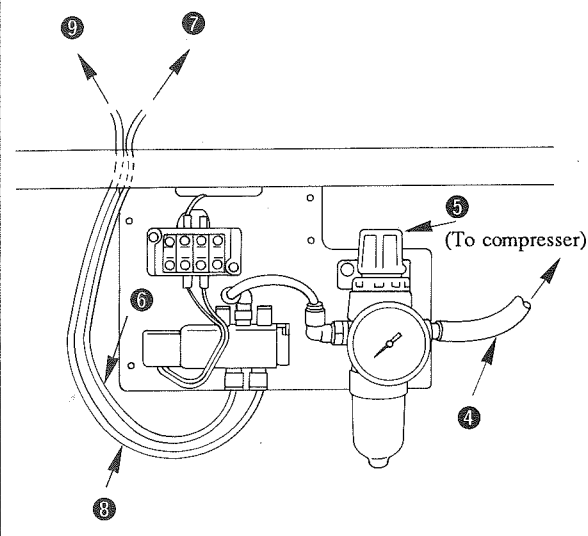


- 3) Connect air hose ④ to regulator ⑤. (Fig. 4)
- 4) Connect air hose ⑥ to quick coupling joint ⑦ on the upper section of the air cylinder, air hose ⑧ to quick coupling joint ⑨ on the lower section of the air cylinder. (Fig. 3 and Fig. 4)

(Caution)

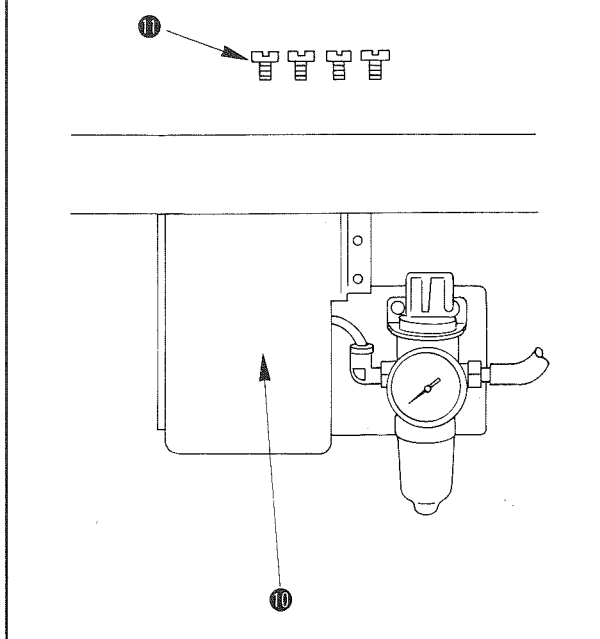
When connecting the air hoses, take care of the leakage of air, and not to allow the air hose to bend.

(Fig. 4)



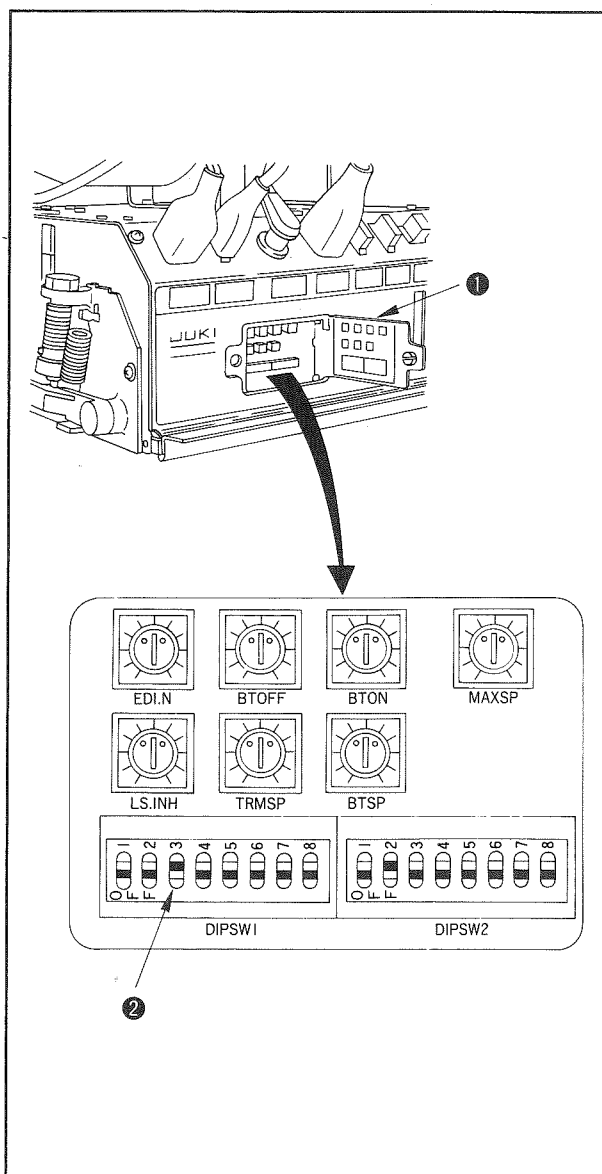
- 5) After the completion of air piping, adjust the air pressure to 4 to 5 kgf/cm² using regulator ⑤. (Fig. 4)

(Fig. 5)



- 6) After the adjustment of the air pressure, attach cover ⑩ of the solenoid valve installing plate in place using four screws ⑪. (Fig. 5)

2. Changing over the switch in the PSC box



When the auto-lifter is used:

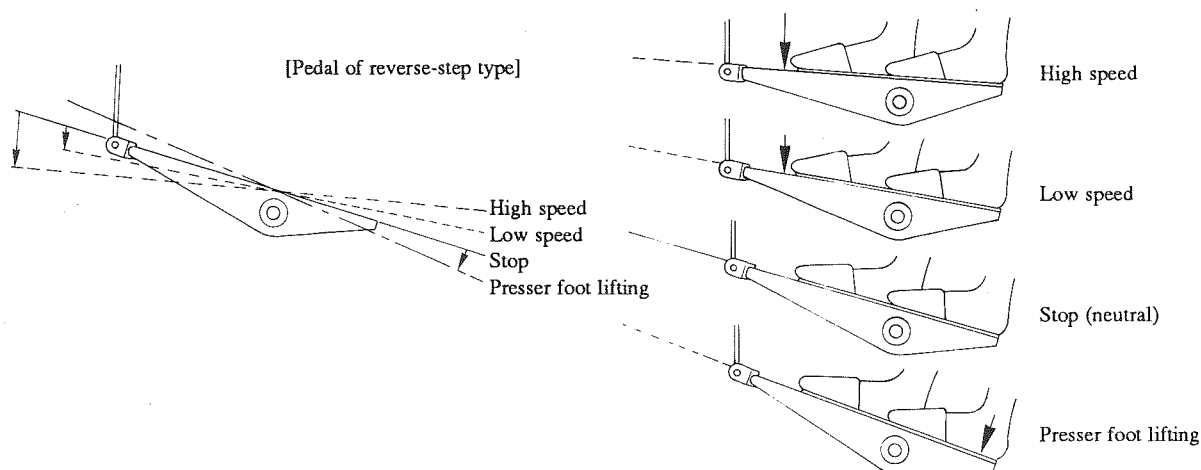
Open cover ① of the PSC box, and set DIP switch ② (No. 3 of DIP SW1) to its upper (ON) side.

(Caution)

1. Be sure to turn OFF the power switch before changing over the switch.
2. Operate the machine without changing over the switches other than the switch specified.

3. How to operate

(Fig. 7)



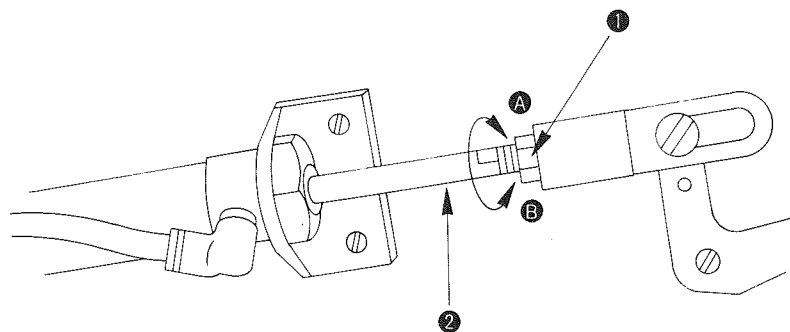
The presser foot comes down when the front part of the pedal is lightly depressed. Keep depressing the pedal further to make the machine start sewing. If you wish to raise the presser foot when you have placed the material to be sewn improperly, lightly depress the back part of the pedal. This may make the presser foot go up. If you wish to raise the presser foot during sewing, also depress the pedal lightly.

(Caution)

The feature to raise the presser foot using the pedal is provided only for the PSC box for the reverse-step type pedal.

4. How to adjust

(Fig. 8)



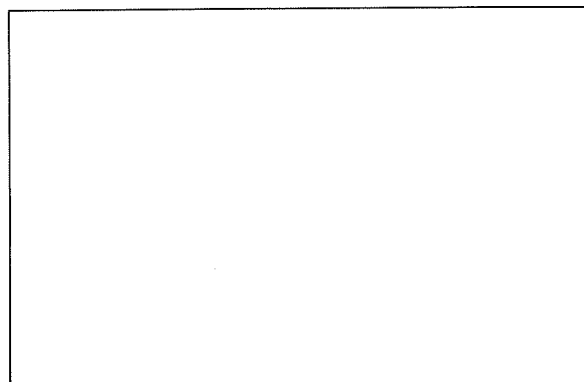
Loosen adjustment nut ①, and turn cylinder rod ② to adjust so that the lifting amount of the presser foot is 20 mm when the cylinder is fully compressed.

Turn the cylinder rod in direction A to decrease the lifting amount of the presser foot or in direction B to increase it.

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