

Pedal - operated pneumatic auto - lifter MOC - 3900 / AK102

INSTRUCTION MANUAL

No.1020 - 00
29163102

Foreword

Congratulations on your purchase of an auto - lifter "AK102" (SC - 1 type) for the MOC - 3900. The AK102 automatically lifts the presser foot by means of an air cylinder by depressing the back part of the motor pedal. Please read this Instruction Manual for the AK102 carefully before using it in order to get the most out of many functions of the device and operate it in safety.

1. Features

- (1) When the back part of the motor pedal is depressed, the presser foot will automatically go up.
This helps reduce the operator's fatigue in the feet.
- (2) The device can be installed with ease. The foot - pedal operated presser foot lifting mechanism can easily be changed over to the pneumatic presser foot lifting mechanism.
- (3) The "AK102" has been designed exclusively to the SC - 1 type of the sewing machine.

2. Applicable models

MOC - 3900 (SC - 1 type)

3. Installing and adjusting the device

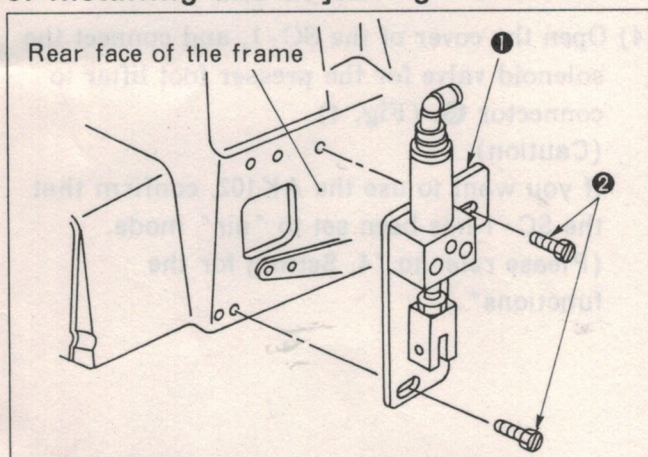


Fig. 1

- (1) Fix presser foot lifting cylinder (asm.) ① on the rear face of the frame by tightening two screws ②. (Fig. 1)

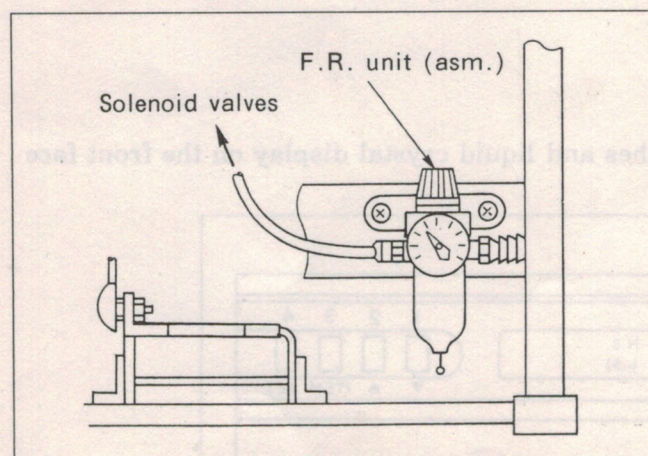


Fig. 2

- (2) Attach the F.R. unit (asm.) [air regulator] to the rear side of the leg of the table. (Fig. 2)
(Bore two prepared holes of 4.4 mm and fix the F.R. unit by tightening tapping screws supplied with the unit in the holes.)
(Note)
It is not necessary to tap the prepared holes.
The arrow (→) which indicates the direction of air flow is shown on the main unit of the F.R. unit (asm.). So, carefully install the unit in the correct direction.
Take care not to attach the air tube of the valve in the opposite direction.

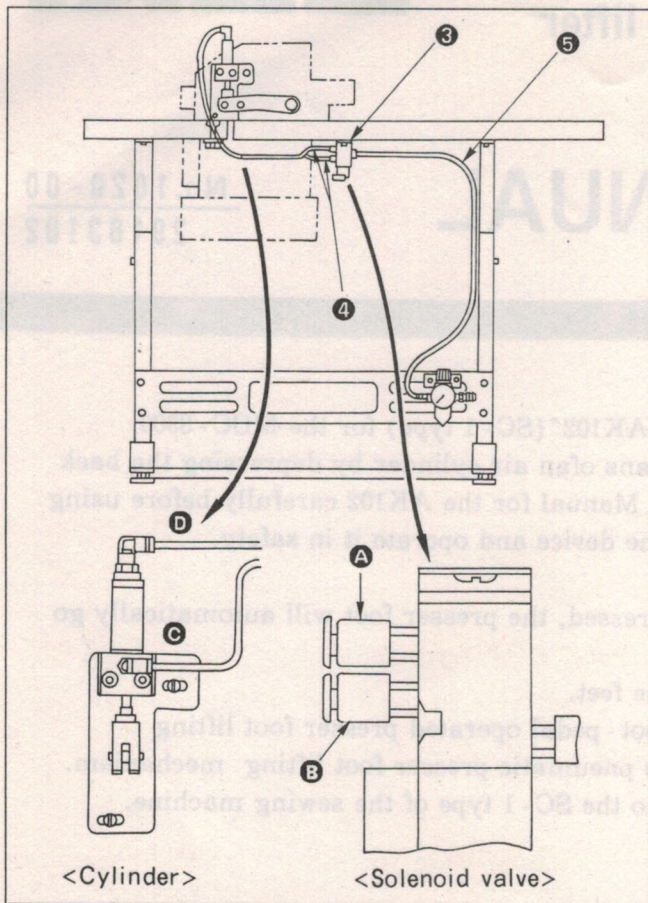


Fig. 3

- (3) Attach solenoid valves ③ on the underside of the table and connect two cylinder tubes ④ to the cylinders.
At this time, connect solenoid valve A to cylinder C and solenoid valve B to cylinder D.
Also, connect regulator which has been installed in step (2) to cylinder tube ⑤.
(Fig. 3)

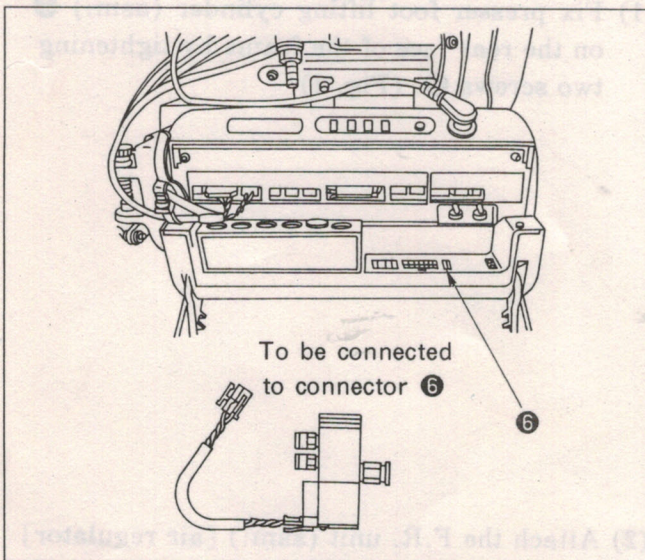


Fig. 4

- (4) Open the cover of the SC-1, and connect the solenoid valve for the presser foot lifter to connector ⑥. (Fig. 4)
(Caution)
If you want to use the AK102, confirm that the SC-1 has been set to "air" mode.
(Please refer to "4. Setting for the functions".)

4. Setting for the functions

Specify the functions using the four setting switches and liquid crystal display on the front face of the PSC box.

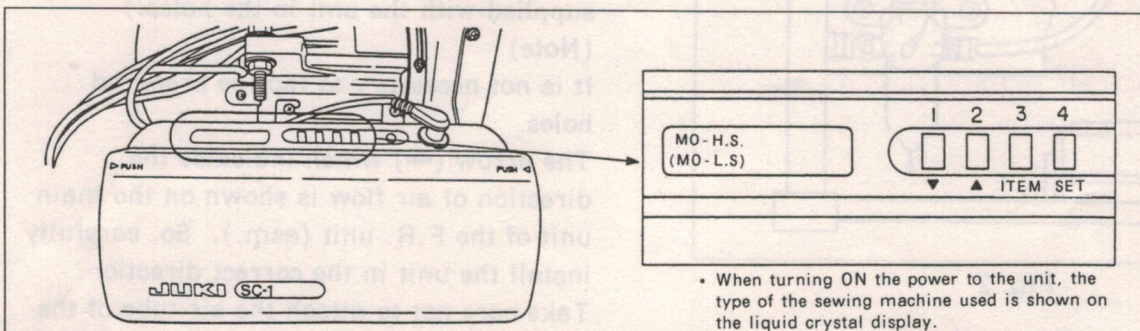
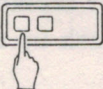
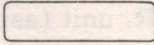
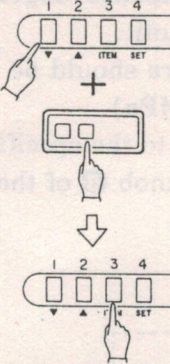
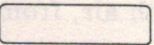

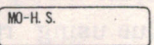

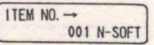
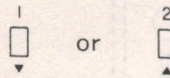
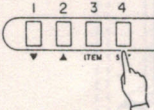
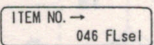

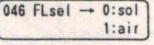
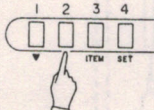
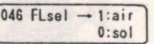
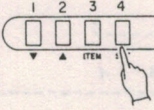
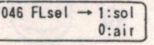

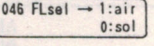
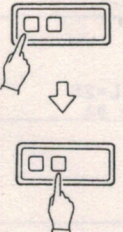
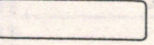

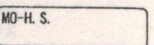


Fig. 5

- When turning ON the power to the unit, the type of the sewing machine used is shown on the liquid crystal display.

Switch operation	Liquid crystal display
① 	
② 	    
④ 	No.46 is shown on the LCD.
⑤ 	  
⑦ 	
⑧ 	  
⑨ 	  

(Caution)

Do not operate the switch in any procedure other than those described below.

- ① Turn OFF the power to the unit once.
- ② Pressing the 1 [▼] switch, turn ON the power to the machine.
Then press the 3 [ITEM] switch.
- ③ The indication illustrated in the figure on the left appears on the screen.
(If the indication on the screen fails to change, re - perform the steps of procedure from step 1 .)
- ④ Set the function No. to 46 by pressing the 1 [▼] switch or 2 [▲] switch.
- ⑤ Once the No. 46 is specified, press the 4 [SET] switch.
- ⑥ The indication on the screen changes as illustrated in the figure on the left. This is the state in which data can be modified.
- ⑦ Set the arrow to "1: air" by pressing the 1 [▼] switch or 2 [▲] switch.
- ⑧ After the completion of data changing procedure, enter the modified value by pressing the 4 [SET] switch.

(Caution)

If you omit this procedure by mistake, the specified value will not be entered.

- ⑨ After the completion of step ⑧, turn OFF the power to the unit, then turn it ON again. This will return the unit to the normal operation mode.

5. Items to be confirmed

Adjust the suction force of the air nozzle, if necessary, by loosening the air regulating nut and appropriately tightening or loosening the screw. (6 - (2))

- [Tighten the screw. → The air is weakened.]
 [Loosen the screw. → The air is strengthened.]

6. Cautions in operation

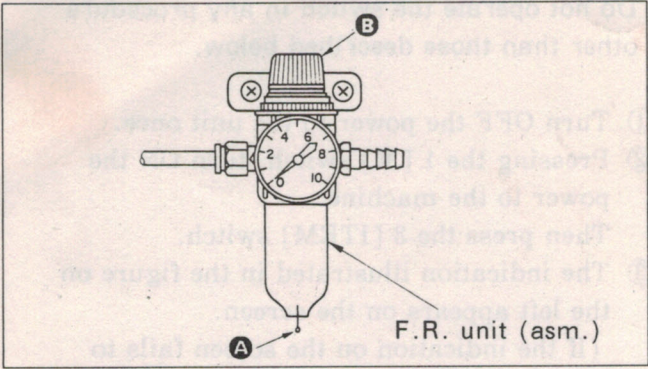
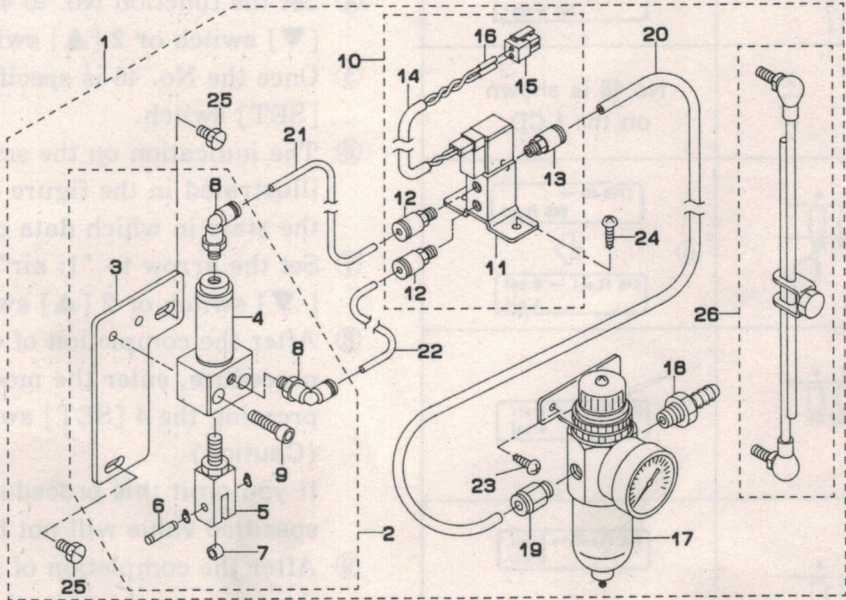


Fig. 6

7. Components used



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒンメイ	Qty
1		GAK-A02000A0	AK102 ASM.	AK102 ソクミ	1
2		GAK-A02010A0	CYLINDER ASM.	シリンダ ソクミ	(1)
3		GBT-01083000	CYLINDER PLATE	オサエアケ シリンダ トリツケタイ	(1)
4		PA-2002512-B0	AIR CYLINDER	エアシリンダ	(1)
5		GBT-01084000	KNUCKLE	オサエアケ ナックル	(1)
6		GBT-01085000	KNUCKLE PIN	オサエアケ ナックル ヒン	(1)
7		GBT-01086000	KNUCKLE ROLLER	オサエアケ ナックル コロ	(1)
8		PJ-3040451-04	ELBOW	エルボ	(2)
9		SM-6062502-TP	SCREW M6 L=25	ロツカクアナボルト M6 L=25	(2)
10		GAK-A01020A0	SOLENOID VALVE ASM.	オサエアケ テンシ ハン クミ	(1)
11		PV-1505181-00	SOLENOID VALVE	テンシ ハン	(1)
12		PJ-3010405-04	JOINTING	6カクアナツキ ストレート	(2)
13		PJ-3010605-01	UNION	ストレート	(1)
14		E8760-452-F00	TUBE	スミチューブ	(0.5)
15		HK-0346100-20	2-POLE NYLON PLUG	ハウジング 2P	(1)
16		HK-0346400-00	PIN SHAP TERMINAL	ピン ターミナル	(2)
17		PF-0552010-B0	COMBINATION FR UNIT ASM.	コンビネーション FRユニット クミ	(1)
18		F1021-003-000	HOSE JOINT	ホース ショイント	(1)
19		GAS-12063000	MALE CONNECTOR	オス コネクタ (PT1/4-6)	(1)
20		BT-0600401-EB	TUBE	チューブ	(1)
21		BT-0400251-EB	URETHANE HOSE, BLACK	ウレタンホース クロ	(0.8)
22		BT-0400251-EB	URETHANE HOSE, BLACK	ウレタンホース クロ	(0.8)
23		GMD-01080000	SCREW M5 L=10	F.Rユニットリツケネジ	(2)
24		SK-3412000-SC	WOOD SCREW D=4.1 L=20	マルモクネジ D=4.1 L=20	(2)
25		SS-9151120-CP	SCREW 15/64-28 L=11	ロツカクホルト 15/64-28 L=11	(2)
26		D7114-555-BAB	CONNECTING ROD ASM. (B)	レンケツボ クミ	(1)

JUKI

Please do not hesitate to contact our distributors or agents in your area for further informations when necessary.
*The description covered in this instruction manual is subject to change for improvement of the commodity without notice.

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