INSTRUCTION MANUAL

FOR

BROTHER DB2-B792-100,-200,-500,-600

SINGLE NEEDLE ADJUSTABLE TOP AND BOTTOM FEED LOCK STITCH MACHINE With AUTOMATIC THREAD TRIMMER

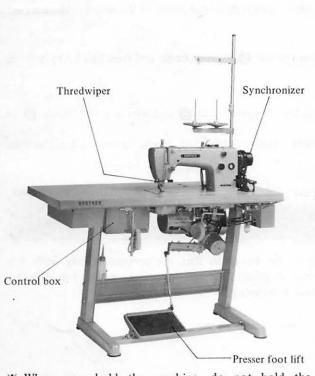
MACHINE SPECIFICATIONS

★ Auto thread trimming machine DB2-B792 has the following specifications.

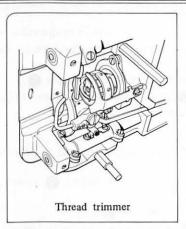
BROTHER INDUSTRIES LTD. DB2 - B792 - MADE IN JAPAN

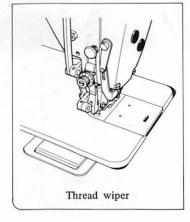
	103	203	503	603	113	613		
Thread trimmer	Single needle lock stitch machine							
Thread wiper		Solenoid (built-in face plate)						
Quick reverse			Pneumatic			Pneumatic		
Presser foot lift			Pneumatic			Pneumatic		
Shirring device					In	cluded		

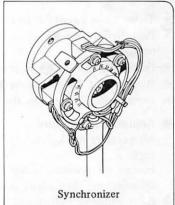
NAME OF MAJOR PARTS

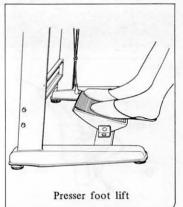


When you hold the machine, do not hold the synchronizer.



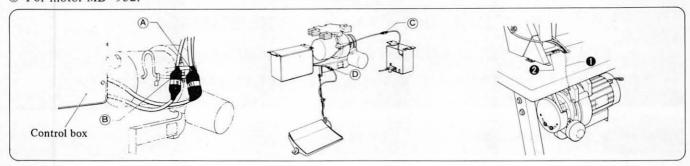






CONNECTION OF WIRES

- * You pass the plug through the wire hole on the table, then install as following figures.
- © For motor MD-932.



Specifications Plug	-100	-200	-500	-600
A plug	0	0	0	0
B plug	0	0	0	0
C plug			0	0
D plug			0	0

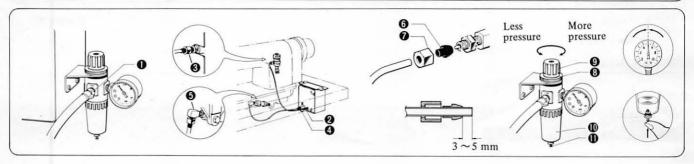
- ★ Take care to keep the wires away from the rotating parts.
- You must turn power switch off before install or removal the plug.

Connection of the earth wire

You surely pass the earth wire 1 into the wire hole on the table from the head hinge 2, then install to the motor table.

(There is the green wire in the parts box.)

CONNECTION OF AIR TUBE (For -500, -600)



- ★ Tighten and install the air hose of the compressor to the valve box base ①.
- ★ Pass the air tube ② of the valve box into the wire hole on the table, then tighten and install to the reverse cylinder connector ③.
- ★ Install the air tube 4 to presser lift cylinder connector 6.
- * Remove nut 6 and sleeve 7, then fix as above figure. (Tighten the nut 6 by your finger and then tighten by turning the nut once or twice by the spanner.)

Adjusting air pressure

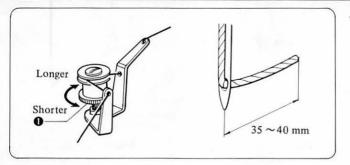
Air pressure is $5 \text{ kg/cm}^2 \pm 0.5 \text{ kg/cm}^2$ in use. In case air pressure is low, loosen the nut 3 and then turn the handle 9 to right.

In case air pressure is high, once turn the handle **9** to left, then operate actuater or treadle to lower air pressure in cylinder, and then adjust again.

* After adjusted, tighten and install the nut 8 .

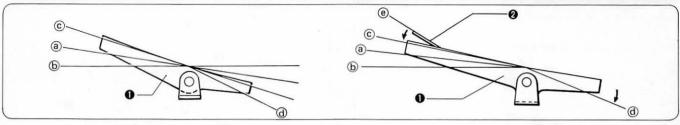
If water stay in the bottle (10), stop the compressor to lower air pressure, raise the drain cock (11) and then let out water.

PRETENSION



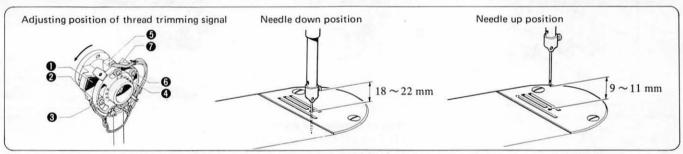
★ Adjust the nut ① so that the pretension may leave the thread of about 35 ~ 40 mm on the needle top after the thread is trimmed.

OPERATION OF TREADLE PEDAL



- ▼ Treadle (-100, -200)
- 1. Make sure whether slow speed motor runs smoothly, pressing the treadle pedal 1 lightly to a. Pressing the treadle pedal 1 again to b, then high speed motor runs.
- 2. Make sure whether the sewing machine stops at the needle down position, the treadle pedal 1 is positioned at the neutral (when you release the treadle pedal 1) © after pressing the treadle pedal 1 at the front.
- 3. In case the treadle pedal ① is pressed at the rear end ② (or back at the neutral ② after the treadle pedal ① is pressed at the rear end ③), thread trimmer is once turn and the needle is up and then the machine is stop.
- ▼ Treadle (-500, -600)
- 1. Lightly depress the upper plate 2 of the treadle pedal 1 to position ©, the presser foot comes down.
- 2. Make sure whether slow speed motor runs smoothly, pressing the treadle pedal 1 lightly to a. Pressing the treadle pedal 1 again to b, then high speed motor runs.
- 3. Make sure whether the sewing machine stops at the needle down position, the treadle pedal 1 is positioned at the neutral (when you release the treadle pedal 1) © after pressing the treadle pedal 1 at the front.
- 4. When the upper plate 2 of the treadle pedal 1 is positioned at (e), presser foot lifts up.
- 5. In case the treadle pedal ① is pressed at the rear end ② (or back at the neutral ② after the treadle pedal ① is pressed at the rear end ③), thread trimmer is once turn and the needle is up and then the machine is stop.

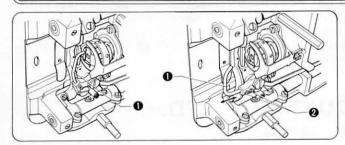
ADJUSTING SYNCHRONIZER



- (1) Turn off the power switch by all means. (In case of adjust each the hole I.C, turn off the power switch by all means.)
- (2) Remove the cover of the synchronizer.
- (3) Turn the pulley toward you and place the needle bar lowest position. At this time, the magnet 1 must be in line with the thread trimming the hole I.C 2. In case of the magnet 1 is not in line with the thread trimming the hole I.C 2, loosen clamping screw 3 and adjust by moving the thread trimming the hole I.C.
- (4) Turn on the power switch and stop the machine at the needle down position. At this time, the needle bar should stop at the position of 18 ~ 22 mm above the upper face of the needle plate.

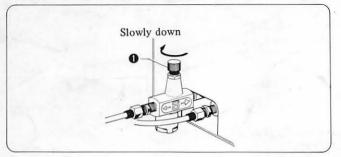
 If the needle bar is not stop at the fixed position, loosen clamping screw 4 and adjust by moving the needle down the hole I.C 5.
- (5) Stop the machine at the needle up position. At this time, the needle point should stop at the position of 9 ~ 11 mm above the upper face of the needle plate.
 If the needle position is not stop at the fixed position, loosen clamping screw 6 and adjust by moving the needle up the hole I.C 7.
- * You move the hole I.C **5**, **7** to the machine rotating direction, then the needle bar is down. When you move the hole I.C **5**, **7** to the reverse direction, then the needle bar is raised.

ADJUSTING BOBBIN PRESSER



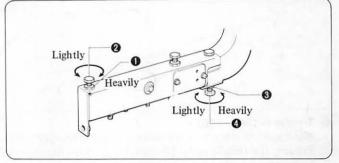
- ★ For prevent the bobbin run idle when thread trimmed, there is the bobbin presser ①.
- ★ When thread trimmed, loosen clamping screw ② and adjust by moving the bobbin presser ① back or forth.

ADJUSTING PRESSER FOOT LIFT (-500, -600)



★ Turn the knob ① and adjust the lifting up speed of the presser foot.

ADJUSTING TREADLE PEDAL

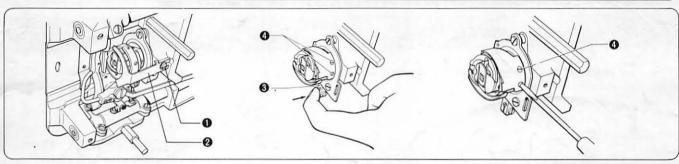


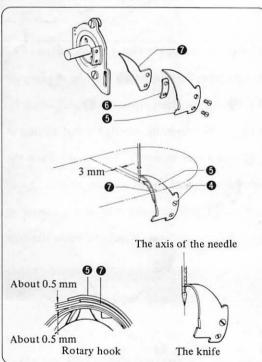
1. Adjusting its weight at slow speed sewing

Slow speed sewing is done when you put your foot on
the treadle pedal and slow speed sewing is not done when
you press the treadle pedal lightly. In such cases, loosen
the nut 1 and adjust by turning the bolt 2.

Adjusting its weight at back
 Loosen the nut and adjust by turning the bolt .

CHANGING THE KNIFE





How to remove the knife

- (1) Turn off the power switch.
- (2) Turn the pulley and place the needle at the highest position and then remove the needle plate.
- (3) Turn the pulley and place the needle at the lowest position.
- (4) Tilt the machine head back.
- (5) Loosen the clamping screw 1 and remove the thread trimming cover 2.
- (6) Push the thread trimming stopper with your finger and turn the pulley toward you until the position of you may remove the screw with ease.
- (7) Remove the screw 4, knife 5, spacer 6 and lower thread finger 7.
- * After the knife 6 is changed, install them reverse order.

How to install the knife

- ★ Let the point of the knife ⑤ meet with the needle, turn the pulley reversely with your hand and make sure that point of the knife ⑤ may be positioned at the axis of the needle as figure. Then tighten the screw ④ for the clearance between the lower thread finger ⑦ and the knife ⑤ to be 3 mm.
- * Make sure that the clearance between the knife 6 and lower thread finger 7 and that between lower thread finger 7 and the hook is about 0.5 mm. (Enough for usable thread to pass smoothly.)
- * Turn the pulley toward you and get the knife at its original position so that the knife is not touch at the needle.

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