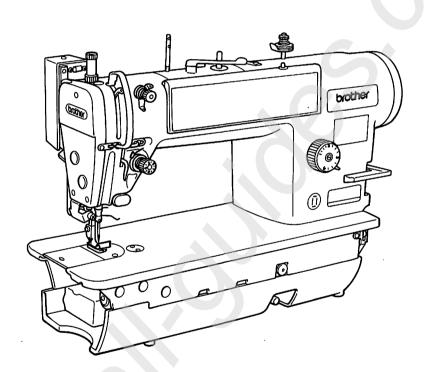
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DB2-DD7100

Single needle direct drive straight lock stitcher with thread trimmer

PRODUCT MANUAL

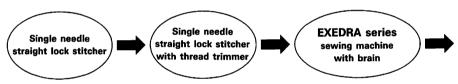


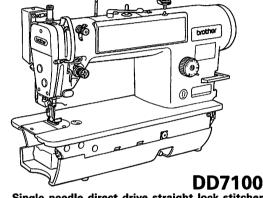
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• What is the DD7100?

DD7100 is the newest and most up-to-date single needle straight lock stitcher in our range, with a motor which is integrated into the machine head. With the adoption of a new lubrication system and further improvements to conventional functions, this machine is designed to give better cost performance by parts sharing and thorough review of the design.

- The motor, which used to be equipped under the table, is built into the machine head, and is directly coupled to the upper shaft.
- · A dry-head tank lubrication method is adopted.
- Measures to reduce machine operating noise and increase safety have been taken to produce a more comfortable working environment.
- Specification -1 is provided to flexibly cope with the sewing of difficult-to-sew materials in addition to general thin materials.

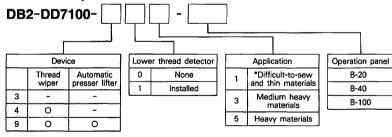




Single needle direct drive straight lock stitcher with thread trimmer

2 Specifications

• Machine head specifications



 Difficult-to-sew material specifications refers to the ability to sew a range of materials from general thin materials to materials made from new synthetic fibers, without puckering or unevenness in the seam occurring.

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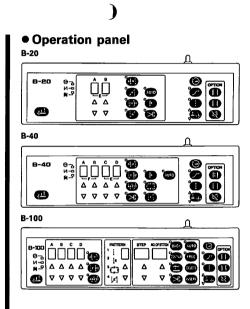
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Spe	cification	DD7100-□□1	DD7100-□□3	DD7100-□□5	
Арі	plication	For thin and difficult-to-sew materials	For medium heavy materials	For heavy materials	
Max. se	wing speed	4,000 spm	5,000 spm	3,500 spm	
Max. s	titch length	4.2	mm	5 mm	
Needle	bar stroke	29 mm	31 mm	35 mm	
Thread to	ake-up stroke	57.4	mm	61 mm	
Type o	of feed dog	4 rc	4 rows (rough)		
Feed	dog height	0.8 mm 1.2 mm			
Presser	Presser lifter lever				
foot	Knee lifter				
height	Automatic presser lifter				
Presser	foot pressure	9.8 - 39.2N (1 - 4 kgf)	39.2 - 78.4N (4 - 8 kgf)	58.8 - 98N (6 - 10 kgf)	
Be	ed size	476 × 178 mm			
Arm p	ocket size	266.5 × 134.5 mm			
١	leedle			DB × 1 #22 DP × 5 #22	
Rot	ary hook	For thread trimming			
L	Mass	41 kg			

Sewing speed depends on the machine specifications.

Motor specifications

High sewing speed	220 spm to the maximum (Changeable)
Low sewing speed	220 spm
Front/continuous backtacking speed	220 spm to 1,800 spm (Changeable)
End backtacking speed	1,800 spm
Motor	AC servomotor (3-phase/single-phase 4 pole 400W, 100 - 240V)
Control circuit	Microcomputer

Control box MD721 (Single-phase) MD731 (3-phase)

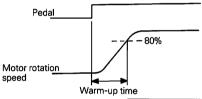


Quick reference for indication and meaning on the operation panel

		B-20	B-40	B-100			B-20	B-40	B-100
!	Normal lock stitch	0	0	0	≫	Automatic thread trimming	0	0	0
425	Half stitch	0	0	0	AUTO	Automatic sewing	0	0	0
10, 10,	Start backtack (0-9)	0	0	0	FREE	Temporarily cancel	Ι-	_	0
c 0 0	End backtack (0-9)	0	0	0		programming sewing	<u> </u>		لنّا
ÀgCó	Continuous backtack (0-9)	-	0	0	DELETE	Step deletion	<u> </u>	_	0
le.	Fixed stitch (1-99)	0	0	0	INSERT	Step insertion	-	-	0
Ć)	Name label stitch (1-99)	-	0	0	9	Sewing speed setting	0	0	0
E	Pleats presser stitch (1-99)	-	0	0	٠٨	Slow start sewing	0	0	0
PATTERN	Pattern stitch	-	-	0	1	Correction sewing	0	0	0
BACK	Back stitch	_		0	1/4	Needle up stop/ Needle down stop	0	0	0
CONTINUE	Continuous stitch	-	-	0	EII 134	Lower thread detector	1_	_	
主	Automatic presser foot lifting		-	0	宣正点	(optional)	0	0	0

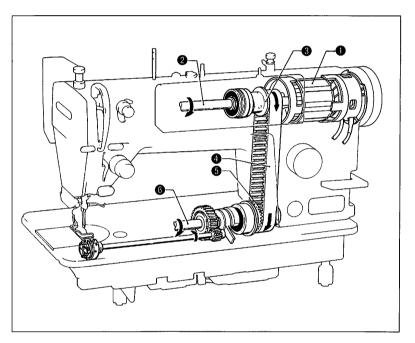
Machine head with built-in motor

• The servomotor is directly coupled to the upper shaft, and because this eliminates the need for a V-belt, motor power is transmitted directly without any losses. In addition, power consumption is also kept to a minimum so that extensive energy savings can also be achieved (approximately 25% compared to previous Brother models).



	DD7100	B737 MarkII
4,000 spm	96 ms	155 ms
5,000 spm	103 ms	189 ms

- Elimination of the V-belt also means that flakes from the belt as it wears will no longer make the material dirty.
- Because the motor is built-in, it is no longer necessary to mount a motor
 on the work table. Jobs such as installation of belt covers and a bobbin
 winder have also been eliminated, so that overall setting up has become
 much easier.
- The motor can be exchanged easily.



<Upper shaft mechanism>

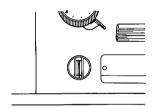
- Rotation of the motor is transmitted directly to the upper shaft •.
- <Lower shaft mechanism>
- Timing pulley (U) ③ in the joint set transmits the rotation of the motor ① to the timing pulley
 (D) assembly ⑤ and the lower shaft ⑥ via the timing belt ⑤.

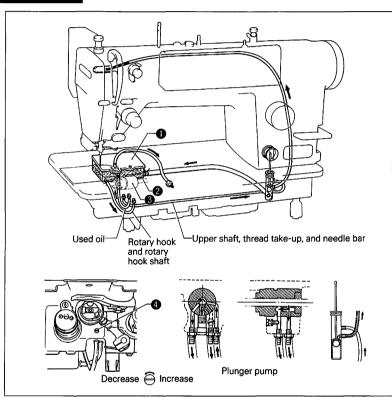
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3

Adoption of the dry-head lubrication method

- A dry-head tank lubrication method has been adopted. (Upper and lower shafts have bearings on both ends.) This enables minimization of lubrication to the needle bar mechanism.
- For easy maintenance, the number of times of lubrication is reduced (compared with previous Brother models).
- An oil pan is no longer used, and there is no longer any need to worry about oil staining the material.
- The oil level can be checked easily through a sight glass.
 There is no longer any need to tilt or rotate the machine.



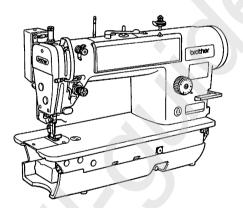


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- (1) The oil poured in through the oil port is stored in the oil tank ①.
- (2) The oil in the oil tank is drawn by the plunger pump attached to the rotary hook shaft •.
- (3) The oil is fed from the plunger pump **3** to the thread take-up and the needle bar via the vinyl tube and the wick.
- (4) Lubrication of the rotary hook can be adjusted using the adjusting screw 4.

Comfortable working environment

- Reduction of the noise from the solenoids used for thread trimming and when motor rotation is reversed and so on, plus reduced machine operating noise combine to produce a much quieter working environment (approx. 5 dB less compared to Brother previous models).
- The elimination of the V-belt means that there is no longer a problem of anything getting caught in the belt. Furthermore, a safety switch operates when the machine head is tilted back for maintenance, so that the motor will not operate even if the pedal is pressed.
- A motor is built into the machine head, giving the machine a more streamlined shape and the operator more space below the work table. That promotes the adoption of further amenities in sewing factories without leading to there being less space.



Major difference between DD7100 and B737 Mark II

	DD7100	B737 Mark II
Motor installation	Built-into the machine head	Mounted under the table
Motor type	AC servomotor 400W (Possible to reverse rotation)	DC servomotor 400W (Impossible to reverse rotation)
V-belt	None	Installed
Bobbin winder installation	Built-into the top of the machine head	Attached to the table
Synchronizer	Built into the motor	Built into the machine head
Mass	76 kg	85 kg
Lubrication method	Dry-head	Automatic lubrication (oil pan)
Specification -1	For thin and difficult-to-sew materials	For thin materials
Lower thread detector	Attachable as an optional part	-
Sewing and backtacking speed settings	On the operation panel	Using the knob in the control box

Flexible handling of even previously difficult-to-sew materials

• The focus of machines with -1 specification is on sewing materials which are thin and difficult-to-sew. As a result of modification of mechanisms such as the needle bar, thread take-up, and rotary hook, materials which were previously difficult-to-sew can be sewn at high speed. (See page 7.)

	DD7100-1* for difficult-to-sew materials specification	For new synthetic materials specification on the B737	B737-1 for thin materials
Needle bar stroke	29.0 mm	31.0 mm	31.0 mm
Needle	DB × 1 #9 NS	DB × 1 #10 NS	DB × 1 #11
Rotary hook	For thin material	Plastic race (lubrication not required)	For thin materials
Maximum sewing speed	4,000 spm	3,500 spm	4,000 spm



 The special tool for measuring the presser foot pressure is no longer needed. A tension gauge set enabling easy measurement of upper and lower thread tensions is provided as an optional part. (See page 8.)

Others

- The switches for slow start, correction stitch, and needle up/down stop position are provided on the operation panel so that you can set and check the current settings easily.
- After thread trimming, the machine can be stopped with the needle at its highest position by reversing the motor. This is useful when changing the materials to be sewn, thick materials in particular. (See page 9.)
- Gauge parts for the B737 and those for other manufacturer's can be used.
- A lower thread detector (optional part) is provided to indicate the remaining lower thread. This is useful when sewing a product that allows no overlapping or incomplete stitching. (See page 7.)



4 Optional parts

• Lower thread detector (183955-001)

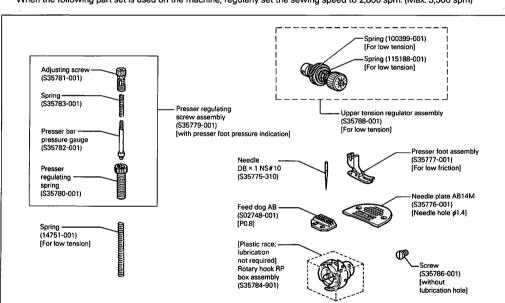
The lower thread remaining will be displayed as % on the operation panel. The lower thread detector will warn you that the thread has been all used up according to the amount you set in advance by making the lower thread remaining indicator blink and a issuing beep.

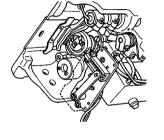
This is useful when sewing a product that allows no overlapping or incomplete stitching.

Use the bobbin case assembly (S25780-001) exclusive to the DD7100.



*When the following part set is used on the machine, regularly set the sewing speed to 2,800 spm. (Max. 3,500 spm)



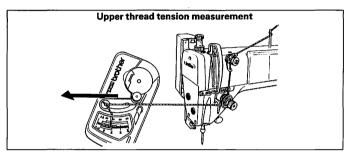


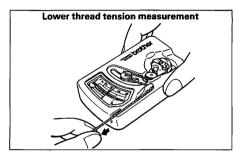
When you change specifications -1 so as to be able to handle new synthetic fabrics, use the following parts:

- ·Rotary hook RP box assembly (\$35784-901)
- ·Screw (S35786-001)

• Tension gauge set (183922-001)

This is a device designated for easy measurement of upper and lower thread tensions. This is useful when frequent changing of threads and materials to be used for small-lot production is required, or the same thread tension is required on different machines.





• Thread wiper set (183956-001)

• Presser foot lifting solenoid set

Presser foot lifting solenoid set A (with knee lifter) (183959-001)
Presser foot lifting solenoid set B (without knee lifter) (183960-001)

5 DIP switch functions

See page 16, " Connector configuration" for the DIP switch position.

	Presser foot position when the foot pedal	ON	Presser foot is lowered. (Export specification)
1	is returned to the neutral position after thread trimming	OFF	Presser foot is kept raised. (Japanese specification only) (See NOTE 1.)
2	Setting of a delay from the time the presser foot is turned OFF until the motor	ON	With delay
	starts (See NOTE 2.)	OFF	Without delay
3	Needle up stop position due to reverse rotation	ON	The machine stops with the needle at its highest position due to reverse rotation.
3		OFF	The machine stops with the needle at its highest position without reverse rotation.
		ON	
4		OFF	
5			N. C
6	6 Limited speed setting 1 7 Limited speed setting 2		Maximum sewing speed (during high-speed sewing) that
7			can be set through the operation panel (See NOTE 3.)
8			Always set to off. (See NOTE 4.)

(NOTE 1) Once the knee lifter switch is used to lower the presser foot, the foot pedal can not be used to raise the presser foot while the machine is stopped; at this time, only the knee lifter is able to raise and lower the presser foot.

the machine is supped, at this time, only the knee inter is able to raise and lower the presser foot.

(NOTE 2) For -900 series specification machines (machines with an automatic presser foot lifter), be sure to set DIP switch 2 to on.

(NOTE 3) Limited sewing speeds depend on settings for DIP switches 6

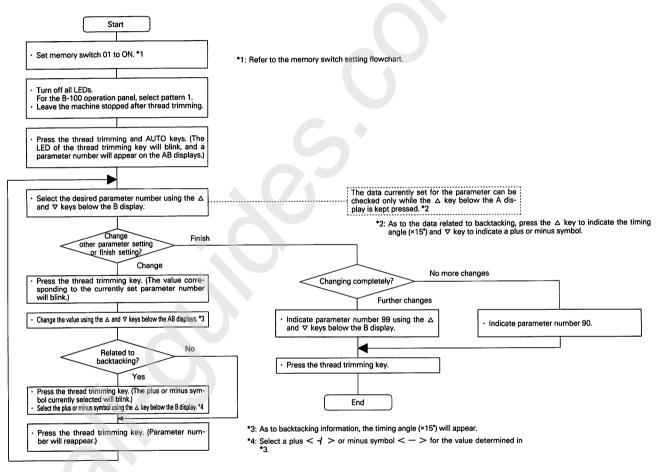
(NOTE 3) Limited sewing speeds depend on settings for DIP switch 2 to on. (NOTE 3) Limited sewing speeds depend on settings for DIP switches 6 and 7 as shown in the following table. When the maximum sewing speed is specified as 5,000 spm on the operation panel, it is actually limited to 4,700 spm.

If the setting of memory switch 04 is changed to on, the set sewing speed is not limited to 4,700 spm.

DIP switch 6	DIP switch 7	Limited speed
OFF	OFF	3,500 spm
ON	OFF	4,000 spm
OFF	ON	4,500 spm
ON	ON	5,000 spm

(NOTE 4) If DIP switch 8 is set to on, all pedal operations are deactivated. Be sure to set it to off.

6 Parameter setting flowchart



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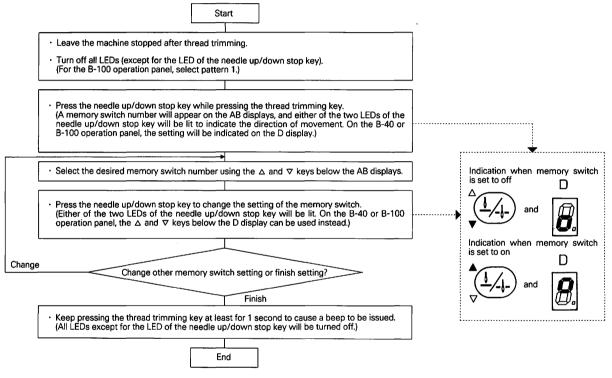
7 Parameters

Parameter No.	Default value	Data value setting range	Function	
10	15 (150 ms)	00 - 25 [×10] (0 - 250 ms)	Time delay from the time the machine starts to operate with the automatic presser foot raised to the time the moto operates.	
11	05 (50 ms)	03 - 10 [×10] (30 - 100 ms)	Time delay from the time the thread wiper turns OFF until the automatic presser foot turns ON	
13	30 (300 ms)	10 - 90 [×10] (100 - 900 ms)	Time to keep the automatic presser foot lifter raised	
14 ☆	36 (3 min.)	00 - 60 [×5] (5 sec 5 min.)	The presser foot signal will be automatically off after the set time passes. When the data is set to 00, the presser foot signal is not automatically off.	
15 ★	00 (30 ms)	00 - 60 [×2.5] (0 - 150 ms)	Time from the presser foot lowering command to the presser foot ON once	
16	12	10 - 12	Constant voltage required to turn on the presser foot after the presser foot lowering command	
17	10 (10s)	05 - 30 (5 - 30s)	Puller continuous ON time	
18	40 (40 stitches)	00 - 99 (0 - 99 stitches)	The number of stitches to be produced from the start of sewing until the puller lowers	
20	02 (20 ms)	01 - 07 [×10] (10 - 70 ms)	Time delay from the time the machine stops after thread trimming to the time the thread wiper operates	
21	05 (50 ms)	04 - 10 [×10] (40 - 100 ms)	Thread wiper ON time	
22	50 (50 ms)	40 - 70 [×10] (40 - 70 ms)	Lower thread detecting pin ON control time (in all blocks)	
23	10 (10 ms)	05 - 25 [×1] (5 - 25 ms)	The first ON time of the lower thread detecting pin	
24	07 (7 ms)	01 - 15 [×1] (1 - 15 ms)	The first OFF time of the lower thread detecting pin	
26	03 (30 ms)	00 - 05 [×10] (0 - 50 ms)	Time delay from the thread wiper OFF to the lower thread detecting pin ON	
27 ♦	05 (0.5s)	02 - 50 [×0.1] (0.2 - 5.0s)	Time delay from the time when the machine stops with the needle at its highest/lowest position to the lower thread detecting pin ON (Lower thread detection function at the needle up/down stop with the foot pedal in neutral)	
30	-04 (-60°)	-23 to +23 (in 15° increments). (On the panel, indications for minus and plus are " - " and " -/ " respectively.)	Quick reverse device ON-timing upon start or continuous backtacking	
31	00 (0°)	-23 to +23 (in 15° increments) (On the panel, indications for minus and plus are " - " and " - " respectively.)	Quick reverse device OFF-timing upon start and continuous backtacking	
32	+02 (30°)	-23 to +23 (in 15° increments) (On the panel, indications for minus and plus are " - " and " -/ " respectively.)	Quick reverse device OFF-timing upon end backtacking	
33 ▲	-04 (-60°)	-23 to +23 (in 15° increments) (On the panel, indications for minus and plus are " - " and " -/ " respectively.)	The second ON-timing for the quick reverse device upon double end backtacking	

The parameter numbers appear on the panel.

- (NOTES) ★: The timer-off function for the presser foot is activated only when memory switch 36 is set to off.
 ★: This parameter is available only when memory switch 35 is set to on.
 ♦: The lower thread detection function for the needle up/down stop when the pedal is positioned at neutral is activated only when memory switch 51 is set to on.
 A: This parameter is available only when memory switch 22 is set to on.

8 Memory switch setting flowchart



(NOTE) If the power is turned off before the end operation, memory switch settings are not

9 Memory switches

Memory switches 01 - 08

01	Parameter setting	ON	Parameter setting can be changed.				
U	or raiameter setting		Parameter setting change is prohibited.				
02	Interlocking along with	ON	Forward step is possible during backward step (for thread trimming).				
02	forward step	OFF	Forward step is impossible during backward step (for thread trimming).				
03	Power supply drop	ON	Power supply drop check (reset detection) function is activated.				
	CHECK	OFF	Without the above-mentioned function				
04	Limited sewing speed	ON	The same as settings of DIP switches 6 and 7. (See NOTE 1.)				
		OFF	Maximum sewing speed is limited to 4,700 spm.				
05	N- II	ON	Needle penetration force is strong.				
05	Needle penetration force	OFF	Needle penetration force is ordinary.				
90		ON					
00		OFF					
07		ON					
07		OFF					
08		ON					
00		OFF					

(NOTE 1) When the power is turned on again, sewing speed can be set up to 5,000 spm.

Memory switches 11 - 18

11	Thread trimming and	ON	Without thread trimming and thread wiper
11	thread wiper output	OFF	With thread trimming and thread wiper
12	Presser foot position	ON	Presser foot is raised when the foot pedal is in neutral.
12	after thread trimming (See NOTE 2.)	OFF	Presser foot is lowered when the foot pedal is in neutral.
13	Presser foot position	ON	Presser foot is at its highest position.
13	after the machine stops with the pedal in neutral	OFF	Presser foot is at its lowest position.
1.4	14 Actuator switch	ON	It is used as the thread trimming switch.
14		OFF	It is used as the reverse and correction switches.
	Slowdown stop control	ON	Ordinary slowdown stop and control
15		OFF	Slowdown and stop control with 1 stitch elimination
16	Lower thread remaining	ON	Unable to be used.
16	detection	OFF	Able to be used.
17	Half-stitch correction	ON	A forward stitch or half stitch can be corrected. (See NOTE 3.)
17	maii-stitch correction	OFF	A forward stitch can be corrected. A half stitch cannot be corrected. (See NOTE 3.)
10	Reverse stitch correction	ON	A forward stitch or reverse stitch can be corrected. (See NOTE 3.)
18	Heverse stitch correction	OFF	A forward stitch can be corrected. A reverse stitc cannot be corrected. (See NOTE 3.)

(NOTE 2) It is activated when DIP switch 1 is set to on.
(NOTE 3) A forward stitch can be corrected when the LED of the correction switch is lit. A half stitch or reverse stitch can be corrected when the LED of the correction switch is not

Memory switches 21 - 28

	Double start backtacking	ON	Start backtacking is performed in the order of lengths A, B, A, then B.
21		OFF	Start backtacking is performed in the order of lengths A and B.
22	Double end backtacking	ON	End backtacking is performed in the order of lengths C, D, C, and D (B, A, B, and A on the B-20 operation panel).
22		OFF	End backtacking is performed in the order of lengths C and D (B and A on the B-20 operation panel).
23	Number of stitches for start backtacking plus 10	ON	Extra 10 stitches are added to the number of stitches set for both lengths A and B.
l	stitches	OFF	No extra stitches are added.
24	Number of stitches for end backtacking plus 10 stitches	ON	Extra 10 stitches are added to the number of stitches set for both lengths C and D (B and A on the B-20 operation panel).
		OFF	No extra stitches are added.
25	Feed direction when the start backtacking is completed	ON	The machine will stop with the reverse feed remaining on.
25		OFF	The machine will stop after feed is returned to normal.
		ON	End backtacking will start without speed slowing down.
26	Start end backtacking	OFF	The machine will slow the sewing speed gradually to start low speed sewing, then shift to end backtacking.
27	Continuous backtacking setting	ON	Forward stitching for the number of stitches set in the A display, and backward stitching for the number of stitches set in the B display will be performed repeatedly for the number of times set in the D display. (The C display will be blank.)
		OFF	Continuous stitching will be performed for lengths A, B, C, and D as specified in the ABCD displays.
28	Number of stitches for continuous backtacking plus 10 stitches	ON	Extra 10 stitches are added to each lengths A, B, C, and D.
[OFF	No extra stitches are added.

Memory switches 31 - 38

	menory evertence or							
	Start backtacking suspen- sion by foot pedal being placed in neutral or	ON	Sewing can be suspended by returning the foot pedal to neutral. During start backtacking, sewing speed depends on the foot pedal stroke.					
31	backtacking speed change during the start backtacking	OFF	Sewing can not be suspended by returning the foot pedal to neutral. During start backtacking, sewing speed is fixed regardless of the foot pedal stroke.					
32	The number of backtack stitches on the B-20 or B-40 operation panel	ON	The number of backtack stitches for fixed stitching, label attaching, or pleats presser sewing can be changed.					
32		OFF	The number of backtack stitches is fixed to 4 (for fixed stitching, label attaching, and pleats presser sewing). (See NOTE 4.)					
33	Pleats presser stitching direction	ON	Without reverse stitching (Fixed stitching will be called back.)					
33		OFF	With reverse stitching (Ordinary pleats presser stitching)					
34	_	ON	-					
34		OFF	_					
35	Presser foot soft drop function	ON	Manual soft drop function (See NOTE 5.)					
35		OFF	Automatic soft drop function (See NOTE 6.)					
36	Presser foot timer-off function	ON	Timer-off function is not activated. (Presser foot will not be lowered by timer.)					
		OFF	Timer-off function is activated. (See NOTE 7.)					
37		ON						
3/		OFF						
38		ON						
36		OFF						

(NOTE 4) For the B-40 operation panel, the number of end backtack stitches can be changed for

(NOTE 4) For the B-40 operation panel, the number of end backtack stitches can be changed for fixed stitching or pleats presser sewing.
(NOTE 5) This setting depends on the setting of parameter No.15. When parameter No.15 is set to 00, the machine response will be the fastest but with noisy operating sounds.
(NOTE 6) This setting depends on the setting of parameter No.16. When parameter No.16 is set to 10, the machine response will be the fastest but with noisy operating sounds.
(NOTE 7) Timer-off function is not activated when parameter No.14 is set to 00.

Memory switches 41 - 48

41	Mode after lower thread alarm	ON	Foot pedal can be used after lower thread alarm.
		OFF	After lower thread alarm, the foot pedal operation is deactivated until the cancel key is pressed.
42	Rotary hook used with the lower thread	ON	1.7-time rotary hook
42	detector	OFF	Standard rotary hook
43	(See NOTE 8.)	ON	_
43		OFF	Be sure to set to off.
44	(See NOTE 8.)	ON	_
44		OFF	Be sure to set to off.
45	Delayed start of standing operation	ON	Without any delay.
45		OFF	With a delay (for 80 ms).
46	Emergency stop by presser lifter pedal during standing operation	ON	Impossible to make an emergency stop using presser lifter pedal
46		OFF	During automatic sewing, emergency stop can be performed using presser lifter pedal.
47	Emergency stop using variable speed pedal during standing operation	ON	Impossible to make an emergency stop using variable speed pedal
4/		OFF	During automatic sewing, emergency stop can be performed using variable speed pedal.
48	Lifting the presser foot using thread trimming pedal during standing operation	ON	It is always deactivated after the presser lifter pedal is used.
		OFF	It is activated.

Memory switch 61

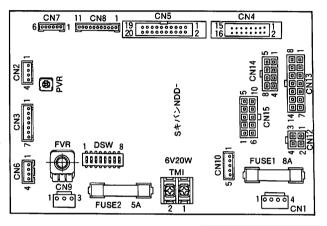
61	Puller output selection (lifting/lowering the puller)		Synchronizer signal output
		OFF	Puller output

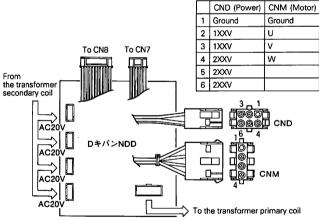
Memory switches 51 - 58

51	Lower thread detection after the machine is stopped by putting foot pedal in neutral (See NOTE 9.)	ON	Lower thread is detected while the machine is stopped by putting foot pedal in neutral for the specified time.
		OFF	Lower thread is not detected after the machine is stopped by putting foot pedal in neutral.
52	Needle up/down stop	ON	Needle up/down stop key operation is deactivated. (Needle stop position cannot be changed.)
	key operation	OFF	Needle up/down stop key operation is activated.
53		ON	
53		OFF	
4		ON	
54		OFF	
		ON	
55		OFF	
56		ON	
56		OFF	
57		ON	
5/		OFF	
58		ON	
58		OFF	

(NOTE 8) Do not change these settings.
(NOTE 9) The time for delay can be changed in parameter No. 27. If the foot pedal is pushed forward within the time, lower thread will not detected. The default delay is 0.5 seconds. This function is available for sewing process without thread trimming.

10 Connector configuration





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	CN1 (Transformer)	CN2 (Forward step)	CN3 (Standing operation)	CN4 (Detector)	CN5 (Panel)	CN6 (VR/Bobbin changer)	CN9 (Transformer)
1	AC10V	DC+8V	DC+8V	F. G	DC+5V	DC+5V	AC6V
2	AC10V	DC+5V	High speed switch	N. C	SOV	VR (Bobbin input)	N. C
3	AC30V	Forward step input	Thread trimming switch	N. C	KEY0	Bobbin output	AC6V
4	AC30V	SOV	SOV	N. C	KEY1	SOV	
5	L		Low speed switch	sov	KEY2		
6			Presser foot switch	ENCA	ос		
7			Variable speed input	ENCB	Α		
8				U	В		
9				٧	С		
10				W	D		
11				Needle down	E (LEDO)		
12				Needle up	F (LED1)		
13				DC+5V	G (LED2)		
14				N. C	PLED (STB)		
15				N. C	DC+8V		
16				N. C	SEN		
17					BUZZ		
18					N. C		
19					N. C		
20					N. C		

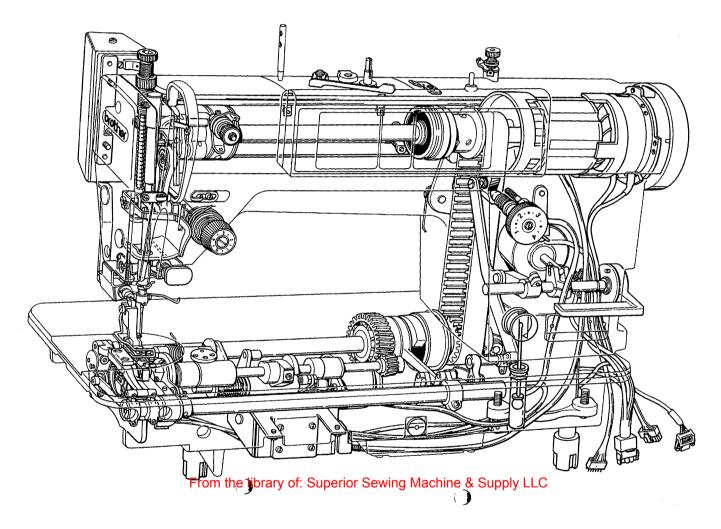
)

	CN10 (External power supply)	CN12 (Presser foot)	CN13 (Machine)	CN14 (Lower thread)	CN15 (Puller)	TM1 (Lamp)
1	DC+12V	0V	F. G	F. G	Puller output	AC6V
2	DC+5V	Presser power	N. C	N. C	N. C	AC6V
3	SOV	Presser switch	Thread trimmer power	Sensor input	N. C	
4	ov	Presser output	Thread wiper power	Lower thread power	N. C	
5	+40V (E1)		Quick reverse power	DC+8V	N. C	
6			0V	SOV	Puller power	
7			OV	DC+5V	N. C	
8			N. C	Lower thread output	N. C	
9			N. C		N. C	
10			Thread trimming output		N. C	
11			Thread wiper output			
12			Quick reverse output			
13			Quick reverse switch			
14			Safety switch			
15						

^{1.} Connectors are illustrated as viewed from the pin side.

^{2.} Connector positions are different from actual ones.

Perspective view



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