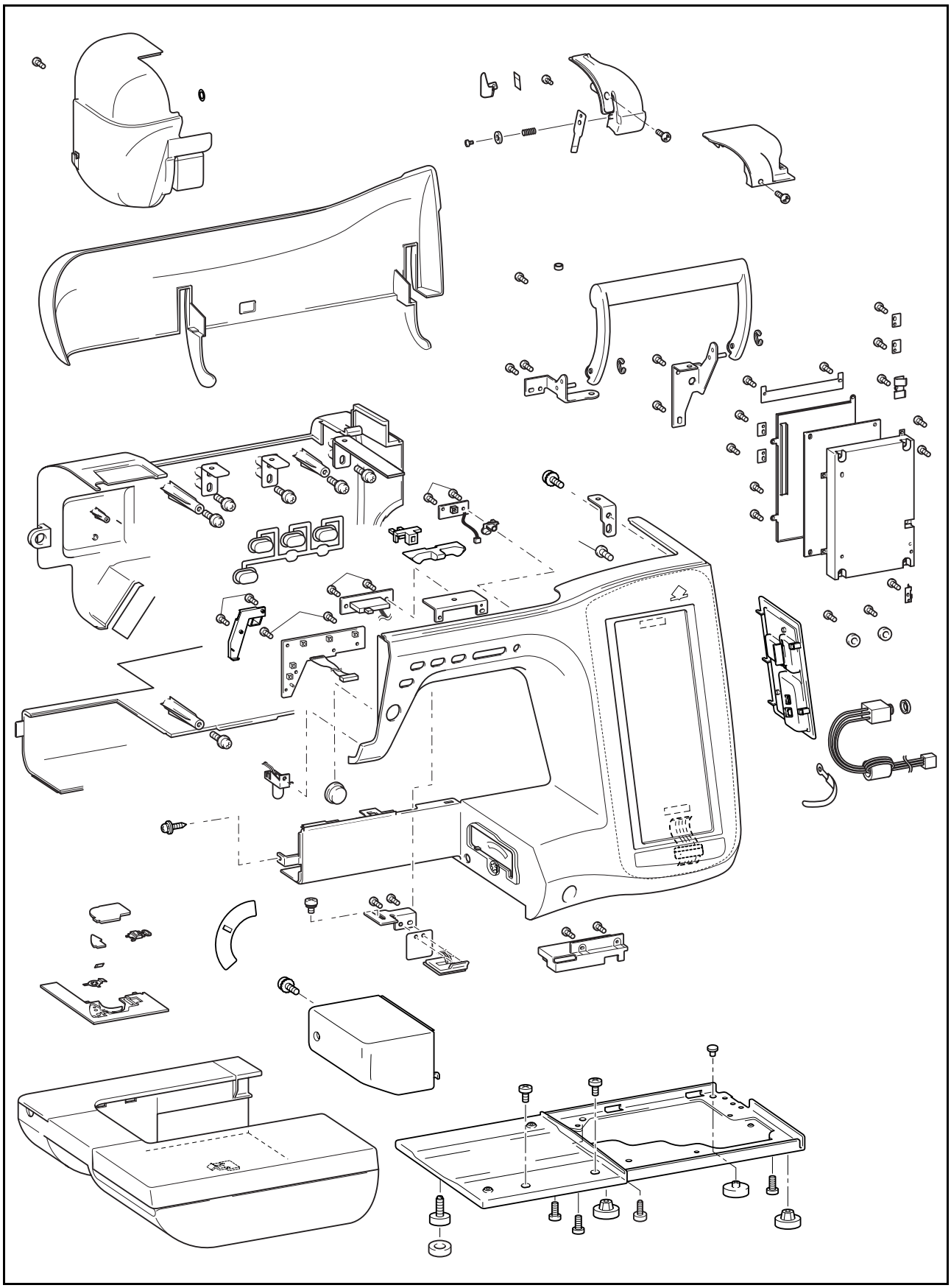
2 Disassembly

Main unit	Main parts	2 - 2
	Power unit, motor unit	2 - 18
	Thread tension unit	2 - 24
	Bobbin winder	2 - 35
	Rotary hook driving unit, feed/rotary hook unit, thread cutter unit, side feed unit	2 - 41
	Needle-presser unit, needle threader unit, upper shaft unit	2 - 44
Modules	Needle-presser module	2 - 49
	Needle thread module	2 - 67
	Feed/rotary hook module	2 - 73
	Side feed module	2 - 87
	Thread cutter module	2 - 90
Embroidery	Main parts	2 - 95

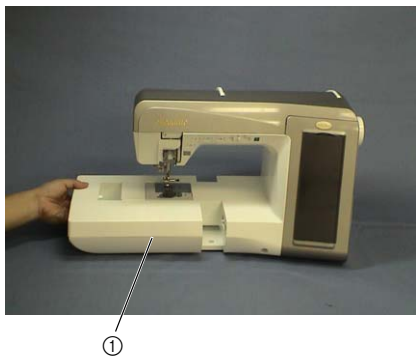
With the CD-ROM version, click to start the movie clip.

Main parts location diagram



1 Accessory table removal

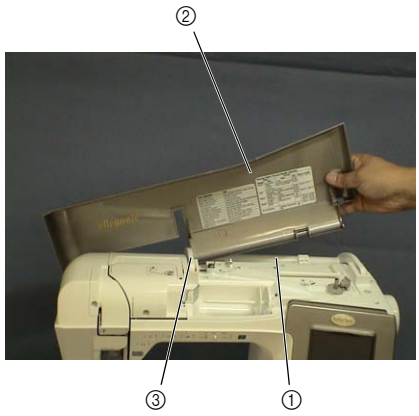
1. Slide the accessory table ① to the left, and remove it.



2 Top cover removal

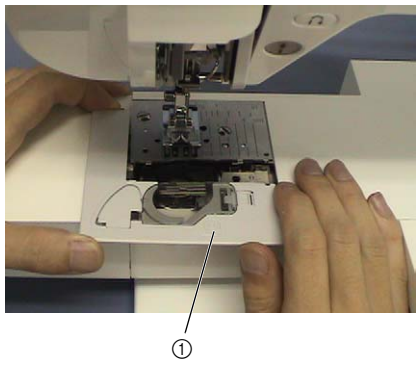
1. Turn the handle ①, and open the top cover ②.
2. Remove the top cover ② from the hinge ③ of the main unit.

Start movie clip (CD-ROM version only)



3 Needle plate B assembly removal

1. Slide the needle plate B assembly ① toward you, and then remove it.



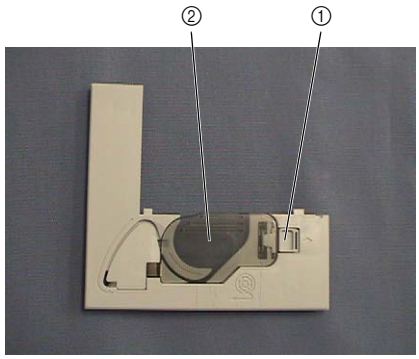
4 Needle plate B ASSY disassembly

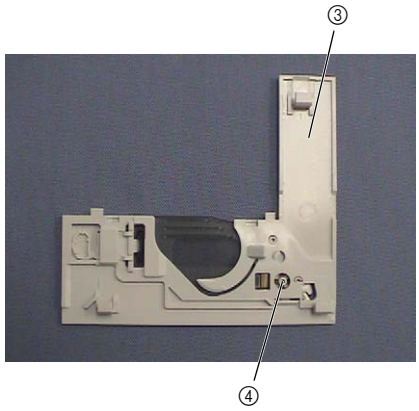
1. Slide the slide button ① to the right, and then remove the needle plate cover ②.
2. Reverse the needle plate B assembly ③. Press the tab ④ on the cutter cover with your finger, and then remove the cutter cover ⑤.
3. Remove the spring plate ⑥ on the rear of the cutter cover, and then remove the NT lower thread cutter ⑦.
4. Remove the slide button ①.

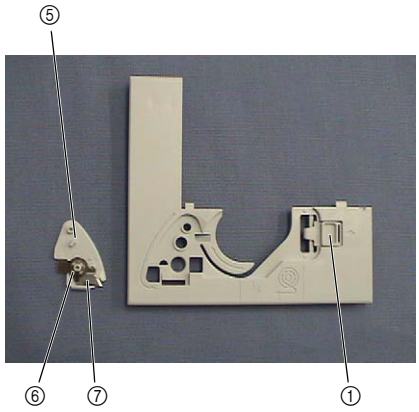
***Key point**

- Remove the hooks (2 locations) on the rear of the slide button.

Start movie clip (CD-ROM version only)





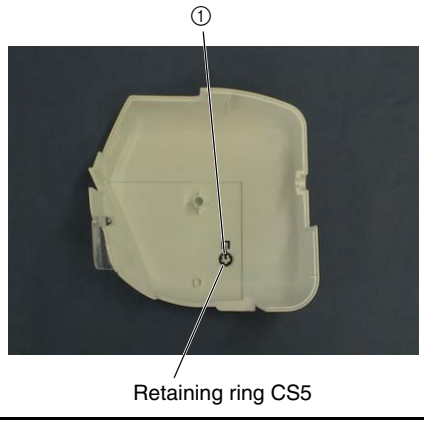


5 Face plate assembly removal

1. Remove the screw ❶ on the rear of the face plate assembly, and then remove the face plate assembly ①.

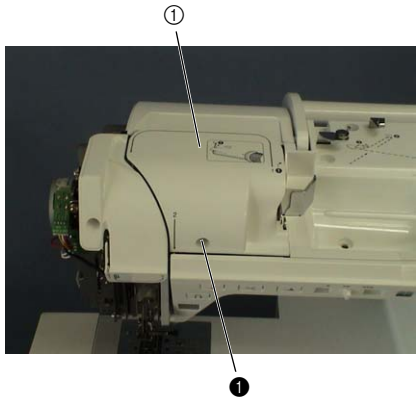
6 NT lower cutter thread removal

1. Remove the retaining ring (CS5), and then remove the NT lower thread cutter ①.



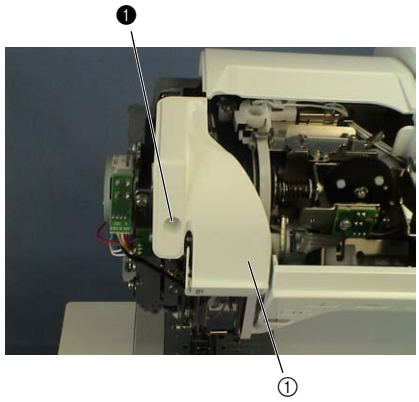
7 Front thread guide cover removal

1. Remove the screw ❶, and then remove the front thread guide cover ①.



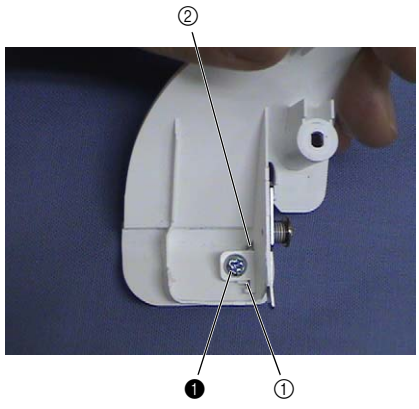
8 Thread guide cover A removal

1. Remove the screw ❶, and then remove thread guide cover A ①.



9 Lower thread cutter removal

1. Remove the screw ❶, and then remove the cutter holder ①.
2. Remove the lower thread cutter ② from the cutter holder ①.

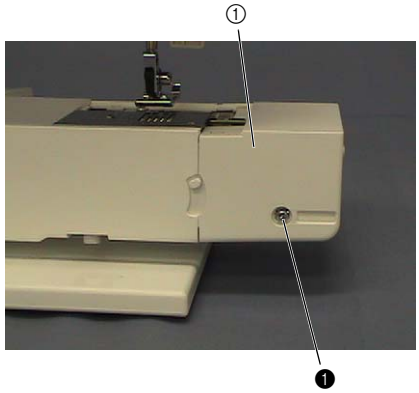


10 Free arm cover removal

1. Remove the screw ❶ on the rear of the main unit, and then remove the free arm cover ①.

***Key point**

- Remove the hook on the free arm cover from the front cover.

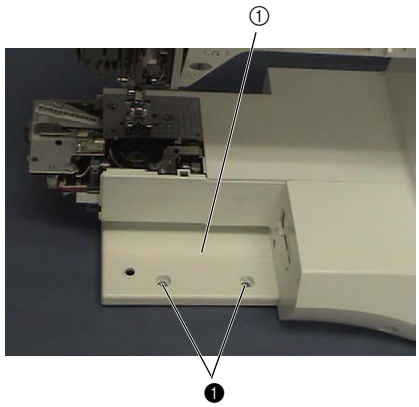


11 Base plate cover removal

1. Remove the 2 screws ❶, and then remove the base plate cover ①.

***Key point**

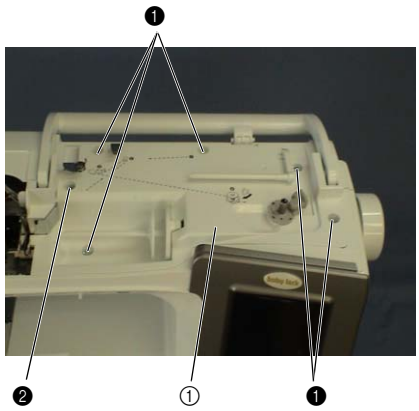
- Slide the base plate cover to the left, and then remove the hooks (4 locations) from the base plate.

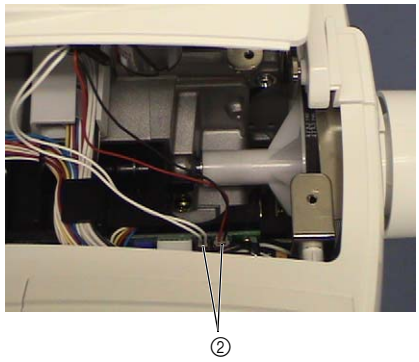


12 Bobbin winder removal

1. Remove the 5 screws ❶ and screw ❷, and then remove the bobbin winder module ①.
2. Disconnect the 2 lead wire connectors ② from the main PCB of the bobbin winder module.

Start movie clip (CD-ROM version only)





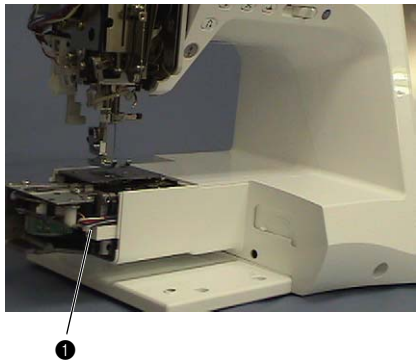
13 Front cover removal

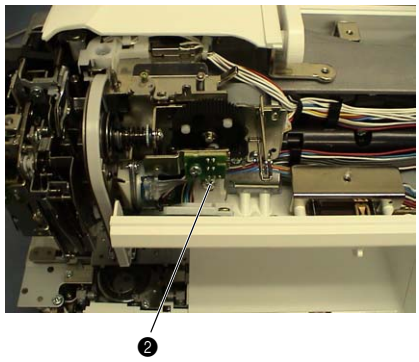
1. Remove the screw ❶❷, and then remove the front cover.

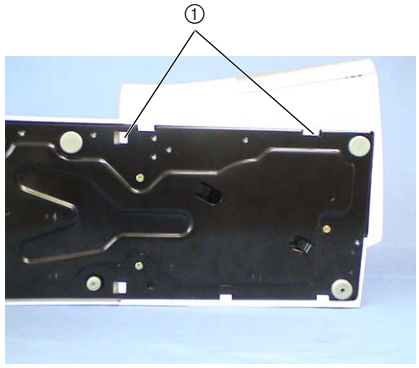
   ***Key point**
   - Remove the hooks ① (2 locations) from the base plate and the hook ② from the rear cover.

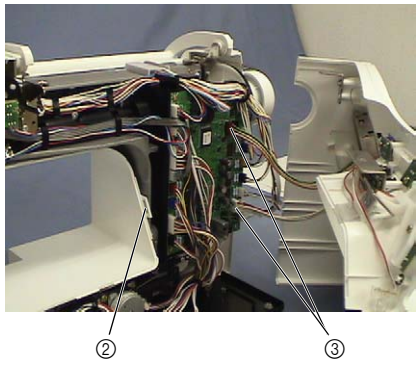
2. Disconnect the 2 lead wire connectors ③ from the main PCB of the front cover.

Start movie clip (CD-ROM version only)



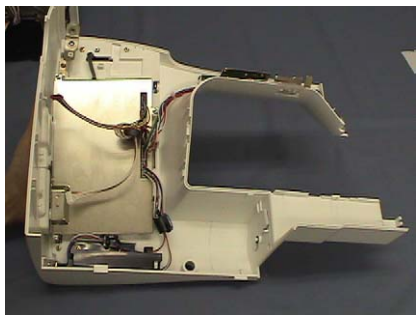






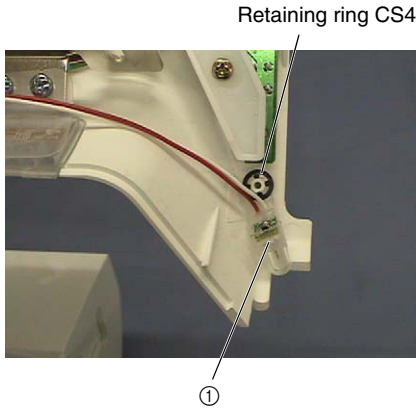
14 Front cover disassembly (panel PCB connector removal)

1. Cut the band.
2. Remove all connectors from the panel PCB.



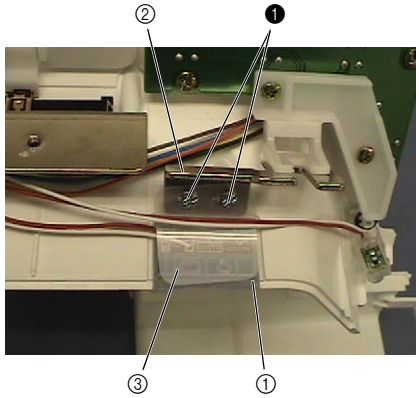
15 Front cover disassembly (LED lamp R removal)

1. Remove the retaining ring (CS4), and then remove LED lamp R ①.



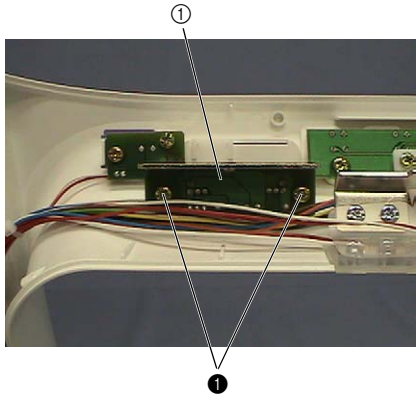
16 Front cover disassembly (LED lamp 3 removal)

1. Remove the 2 screws ❶, and then remove LED lamp 3 ①, adjusting plate B ② and insulation sheet ③.



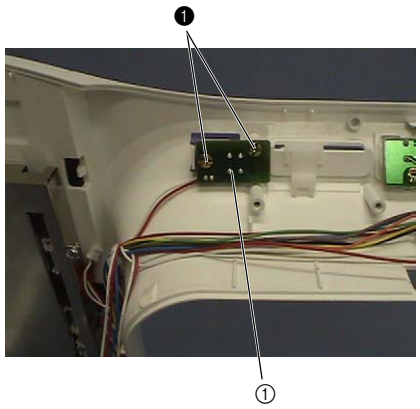
17 Front cover disassembly (VR PCB assembly removal)

1. Remove the 2 screws ❶, and then remove the VR PCB assembly ①.



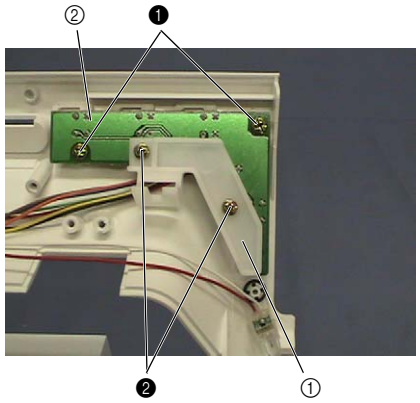
18 Front cover disassembly (thread PCB assembly removal)

1. Remove the 2 screws ❶, and then remove the thread PCB assembly ①.



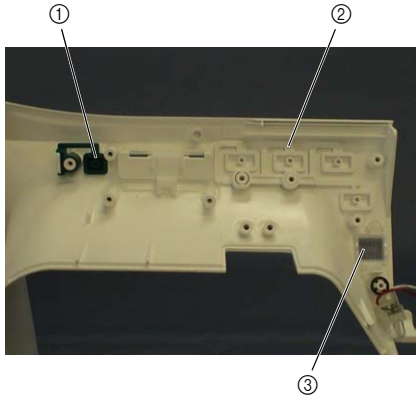
19 Front cover disassembly (SS PCB assembly removal)

1. Remove the 2 screws ❶, and then remove the S holder ①.
2. Remove the 2 screws ❷, and then remove the SS PCB assembly ②.



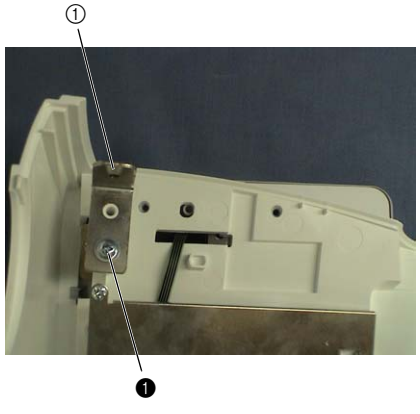
20 Front cover disassembly (button removal)

1. Remove the thread button ①, operation button ②, and SS button ③.



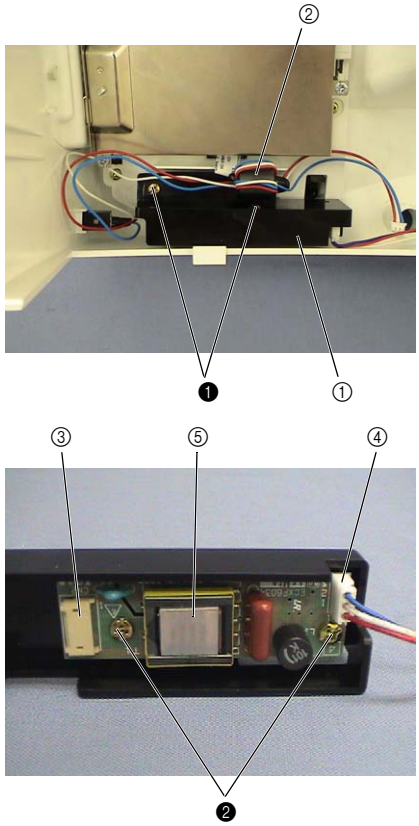
21 Front cover disassembly (plate D removal)

1. Remove the screw ❶, and then remove plate D ①.



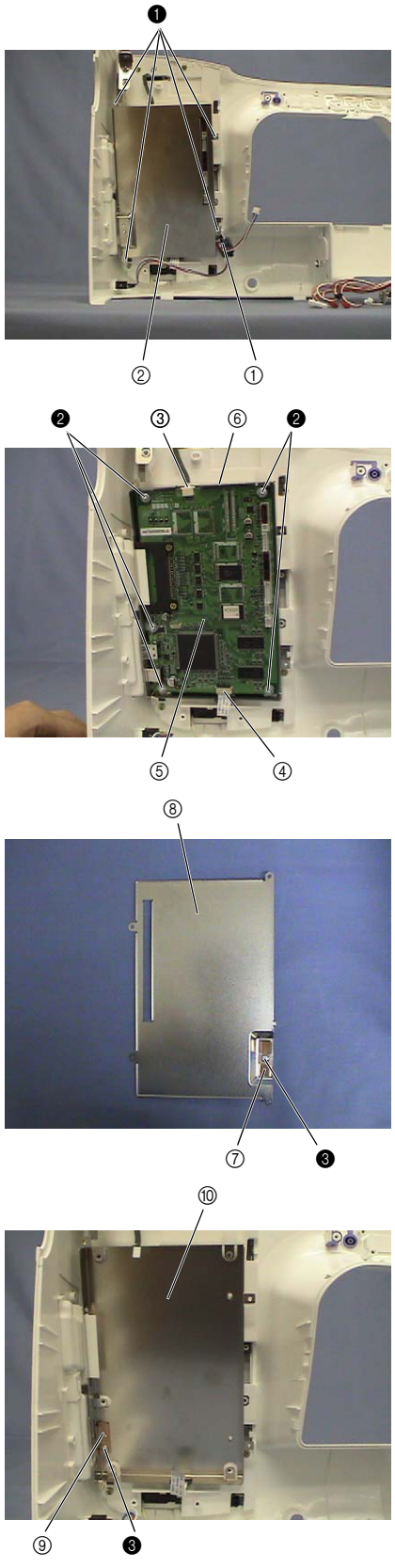
22 Front cover disassembly (inverter D6 assembly removal)

1. Remove the 2 screws ❶, and then remove the inverter D6 assembly ①.
2. Remove the clip inserted into the ferrite core ② of the foot controller jack assembly.
3. Disconnect the LCDKCG089 lead wire connector ③ and the inverter lead wire assembly connector ④.
4. Remove the 2 screws ❷, and then remove the inverter D6 ⑤.



23 Front cover disassembly (board case assembly removal)

1. Remove the ferrite core ① inserted under the clip held by the right screw ❶.
2. Remove the 4 screws ❶, and then remove the upper board case assembly ②.
3. Remove the 5 screws ❷, and then remove the 5 board pressers.
4. Disconnect the LCD holder assembly lead wire connector ③ and FFC cord connector ④, and then remove the panel PCB ⑤ and the lower board case assembly ⑥.
5. Remove the screw ❸, and then remove the upper ground plate ⑦ from the upper board case ⑧.
6. Remove the screw ❸, and then remove the lower ground plate ⑨ from the lower board case ⑩.

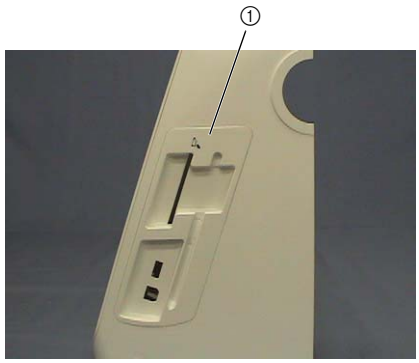


24 Front cover disassembly (card PCB cover assembly removal)

1. Remove the card PCB cover ①.

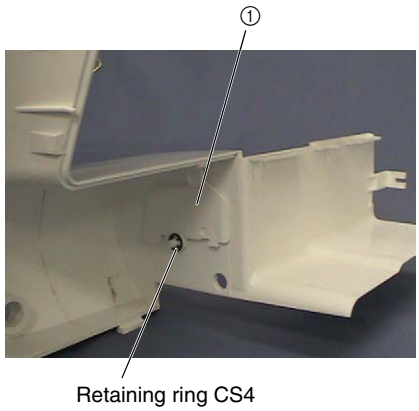
***Key point**

- Remove the hooks (2 locations) from the inside of the front cover.



25 Front cover disassembly (connector cover removal)

1. Remove the retaining ring (CS4), and then remove the connector cover ①.

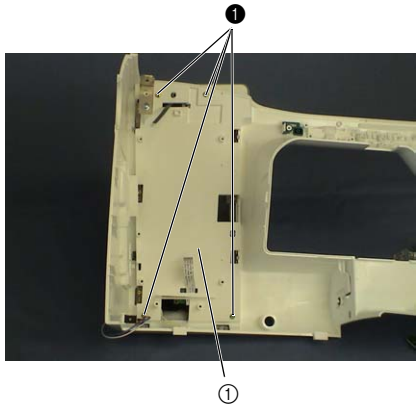


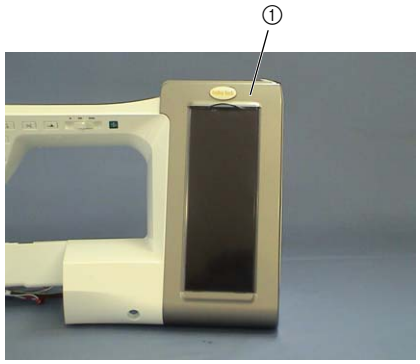
26 Front cover disassembly (foot controller jack assembly removal)

1. Use a jack screwdriver to remove the foot controller jack assembly.

27 Front cover disassembly (LCD holder assembly removal)

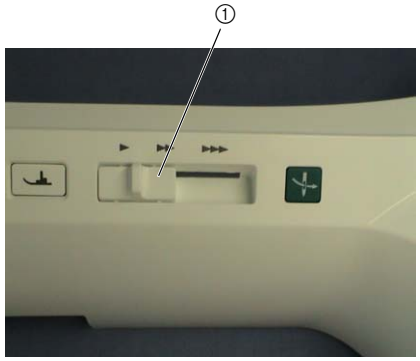
1. Remove the 4 screws ❶.
2. Remove the hooks (2 locations) on the left side of the LCD holder assembly ①, and then remove the LCD holder assembly ①.

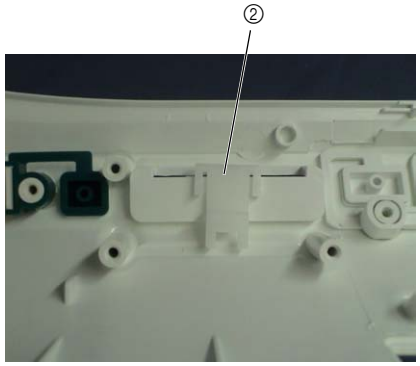




28 Front cover disassembly (SV keytop removal)

1. Pull out the SV keytop ①.
2. Remove the SV joint plate ② on the rear of the front cover.

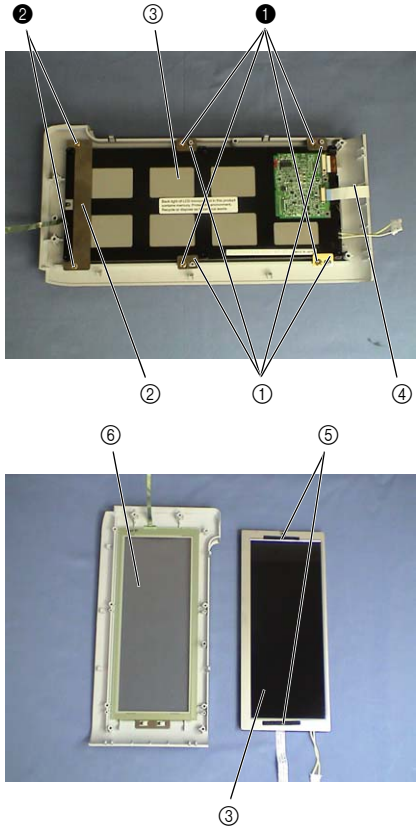




29 Front cover disassembly (LCD assembly removal)

1. Remove the 4 screws ❶, and then remove LCD presser B ① (4 locations).
2. Remove the 2 screws ❷, and then remove LCD presser A ②.
3. Remove LCDKCG089 ③, and then disconnect the LCD cable (FFC: SML2CD) ④.
4. Reverse LCDKCG089 ③, and then remove front cover spacers B ⑤ (2 locations).
5. Remove the touch panel ⑥.

Start movie clip (CD-ROM version only)



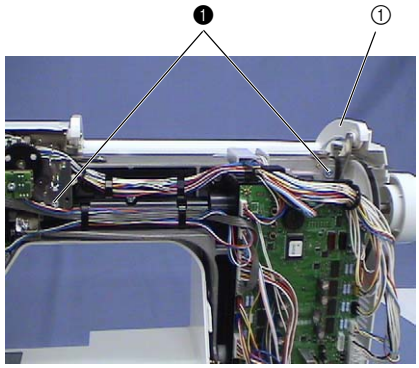
30 Rear cover removal

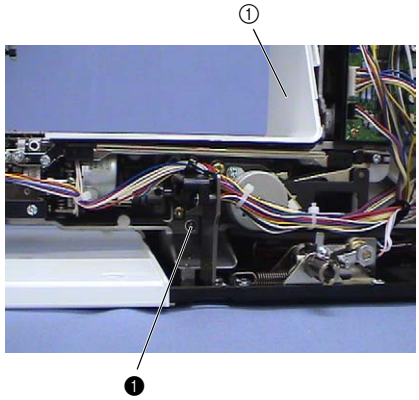
1. Press down the presser foot lifter.
2. Remove the 3 screws ❶, and then remove the rear cover ①.

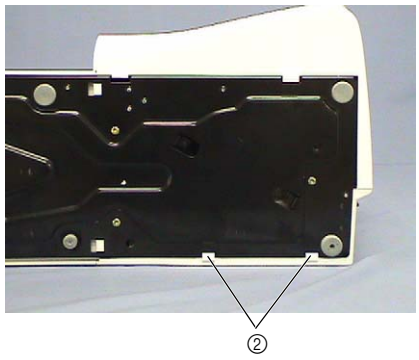
***Key point**

- Remove the hooks ② (2 locations) from the base plate.

Start movie clip (CD-ROM version only)

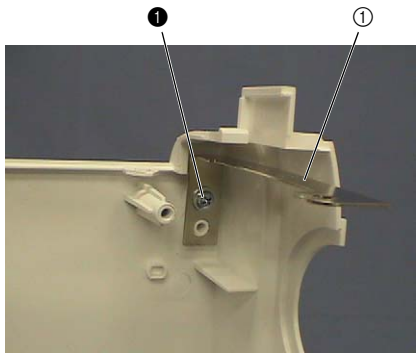






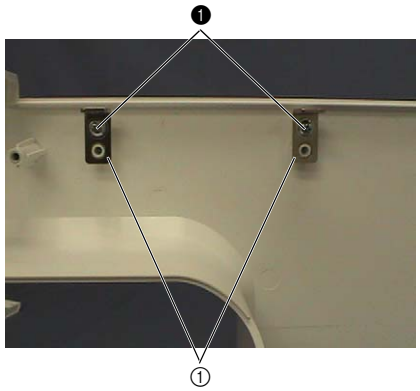
31 Rear cover disassembly (plate B removal)

1. Remove the screw ❶, and then remove plate B ①.



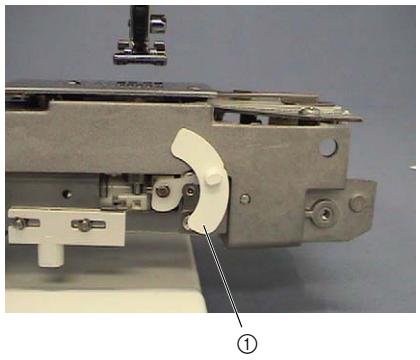
32 Rear cover disassembly (plate A removal)

1. Remove the 2 screws ❶, and then remove plate A ① (2 locations).



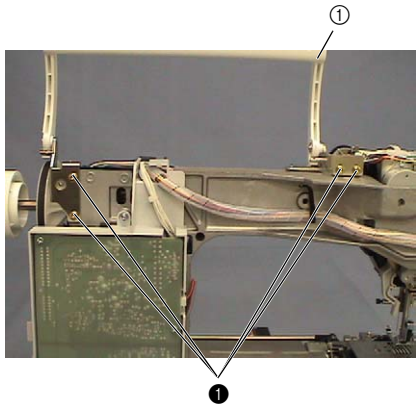
33 Drop cover removal

1. Pull out the drop cover ① from the rear of the main unit.



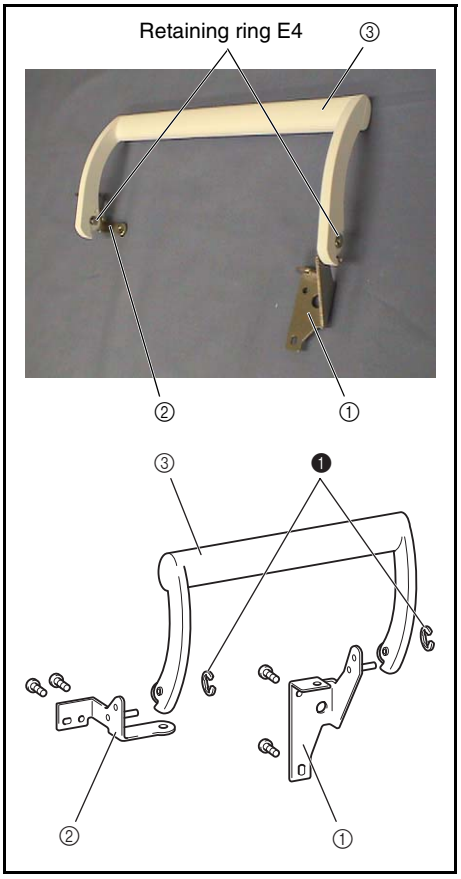
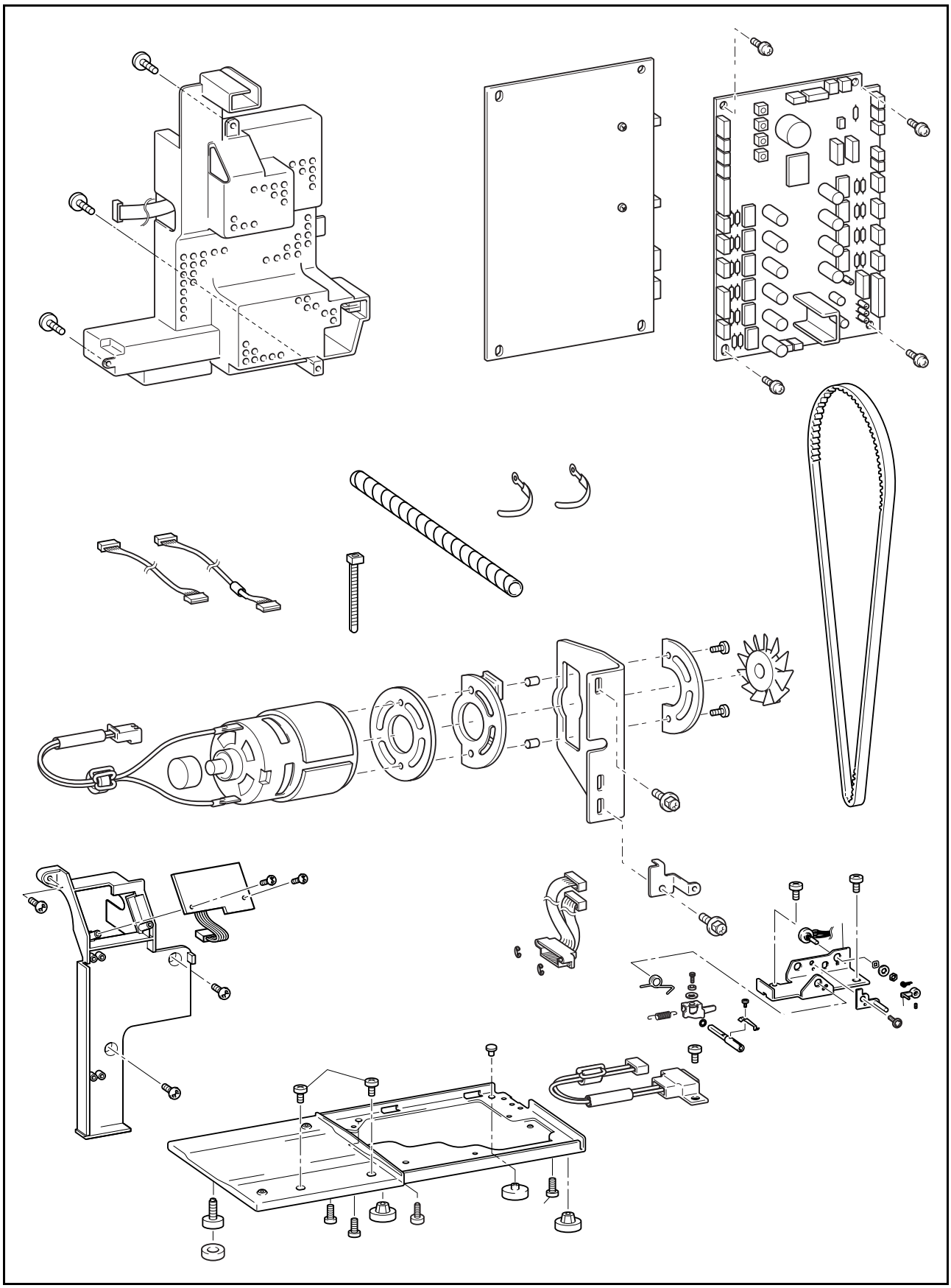
34 Handle assembly removal

1. Remove the 4 screws ❶, and then remove the handle assembly ①.



35 Handle ASSY disassembly

1. Remove the 2 retaining rings (E4), and then remove the handle holder R assembly ① and handle holder L assembly ② from the handle ③.



Power unit, motor unit location diagram