

● **Communication Card Cables**

To correctly use the communication cards, you must purchase the communication card along with the connection cables. Check your communication card models first. Then, select your applicable connection cables according to the mounting positions by different frames. Two cable length are available for your choice. See the table below to select your applicable communication card cables.

Communication Card	CMM-DN02, CMM-EIP02, CMM-EIP03, CMM-PD02, CMM-COP02		CMM-EC02	
	Mounting Position 1	Mounting Position 2	Mounting Position 1	Mounting Position 2
Frame	Cable Model#	Cable Model#	Cable Model#	Cable Model#
A	CBM-CL01A	CBM-CC01A	CBM-CL01A	CBM-CL01A
B		CBM-CC02A		CBM-CL02A
C	CBM-CL02A		N/A	
D				
E				
F				

**NOTE:** An option card mounting box is included upon purchasing the communication card CMM-EC02, you need to purchase it with CBM-CL01A or CBM-CL02A

Table 8-1

Model  
CBM-CL01A  
CBM-CC01A

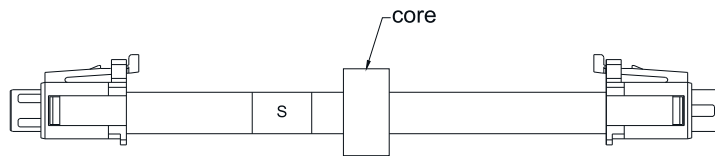


Figure 8-5

Model  
CBM-CL02A  
CBM-CC02A

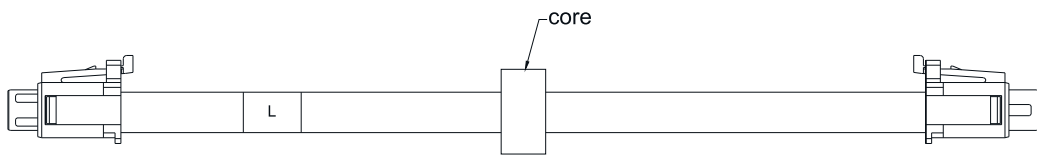


Figure 8-6

## Option Card Mounting Position 1

Installation method: **Back-mount** the option card by connecting **flat cables** to the control board.

1. Turn off the power of the motor drive, and then remove the front cover, as shown in Figure 8-9.
2. Assemble the connection cable: Connect the connector at one end of the connection cable to the control board connector. Refer to Section 8-1 **The Wiring of Option Cards** for more information on connection methods.
3. Assemble the supported frame of the option card: Aim the two clips at the two slots on the motor drive, and then press downward to have the two clips engage the slots, as shown in Figure 8-10.
4. Assemble the connection cable: Connect the connector at the other end of the connection cable to the connector of the option card.
5. Assemble the option card: Have the terminal block and connector of the option card face downward, aim the two holes of the option card to the position column and press downward so that the three clips engage the option card, as shown in Figure 8-11.
6. Make sure that three clips properly engage the option card and then tighten the screws (suggested torque value: 4–6 kg-cm / (3.5–5.2 lb-in.) / (0.39–0.59 Nm), as shown in Figure 8-12.
7. Assembly is completed, as shown in Figure 8-13.

(Take communication card as an example)

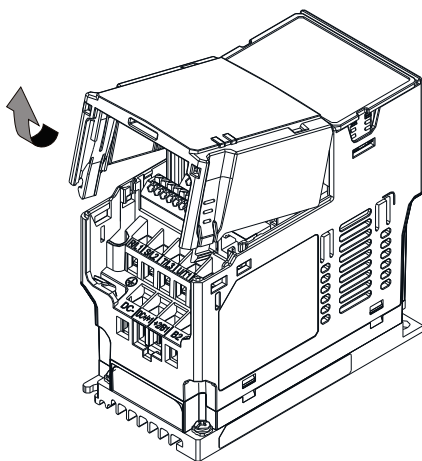


Figure 8-9

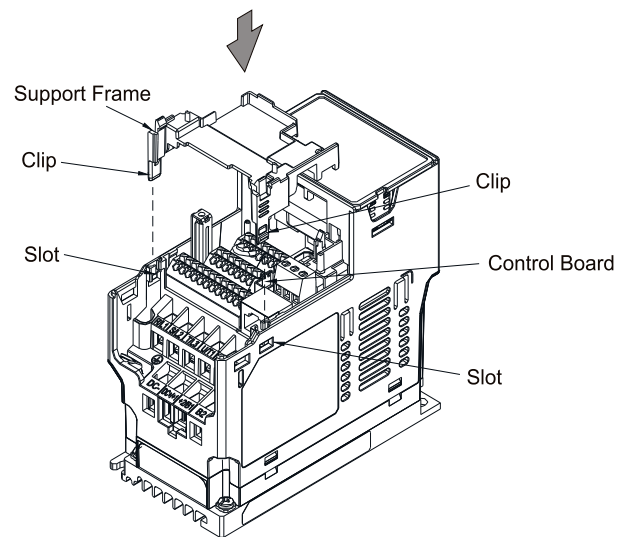


Figure 8-10

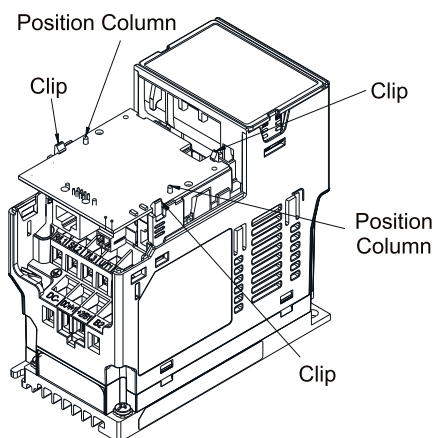


Figure 8-11

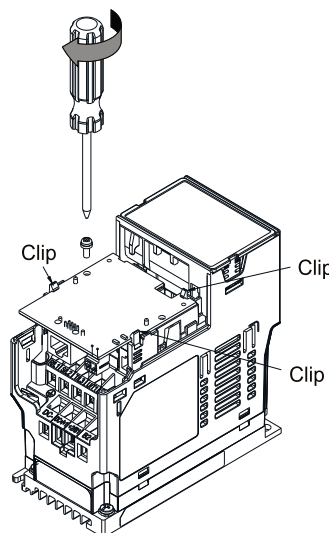


Figure 8-12

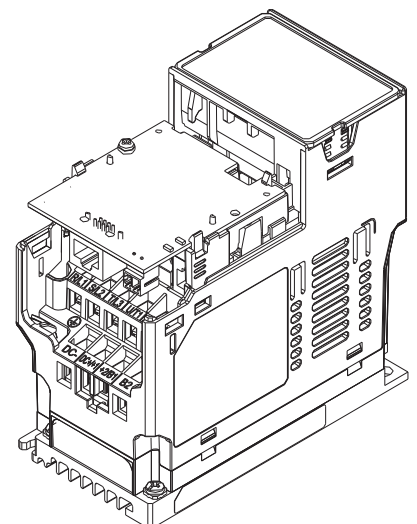


Figure 8-13

### Option Card Mounting Position 2 (Frame A–D)

Installation method: **Front-mount** the option card by connecting **flat cables** to the control board.

1. Turn off the power of the motor drive and then remove the front cover, as shown in Figure 8-14.
2. Assemble the option card: Detach the upper cover of the mounting box for the option card by slipping and make the terminal block and connector of the option card face upward. Fix the front end of the option card to the slots, and press it up to assemble the option card, as shown in the Figure 8-15.
3. Make sure that two clips properly engage the option card on the backside, and then tighten the screws (suggested torque value: 4–6 kg-cm / (3.5–5.2 lb-in.) / (0.39–0.59 Nm), as shown in Figure 8-16.
4. Assemble the connection cable: Connect the connector at one end of the connection cable to the control board connector. Refer to Section 8-1 **The Wiring of Option Cards** for more information on connection methods.
5. Attach the front cover of the drive.
6. Assemble the connection cable: Connect the connector at the other end of the connection cable to the connector of the option card.
7. Attach the upper cover to the mounting box for the option card, as shown in Figure 8-17.
8. Assemble the mounting box for the option card: Aim the four clips of the mounting box for the option card at the slots on the upper cover of the motor drive, and then press downward to have the four clips engage the slots, as shown in the Figure 8-18.
9. Assembly is completed, as shown in Figure 8-19.

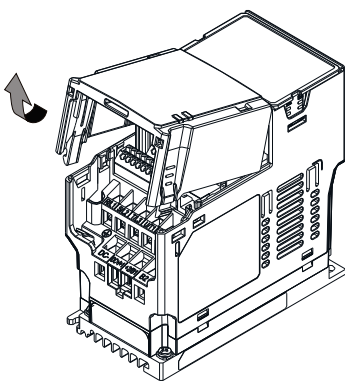


Figure 8-14

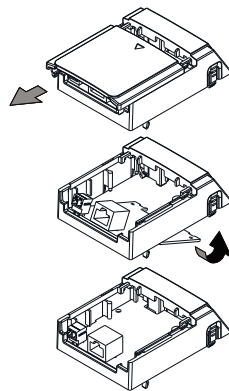


Figure 8-15

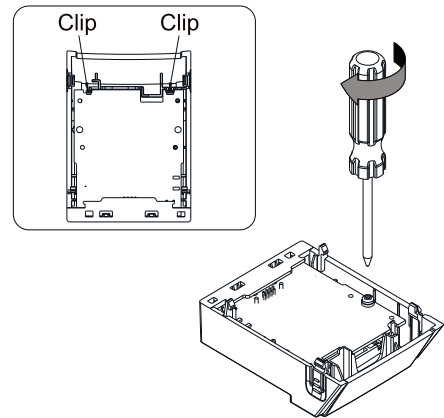


Figure 8-16

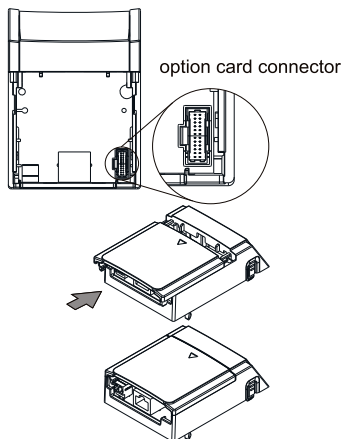


Figure 8-17

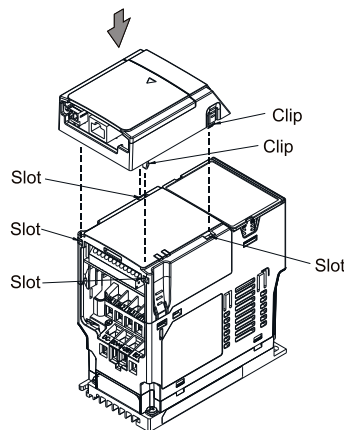


Figure 8-18

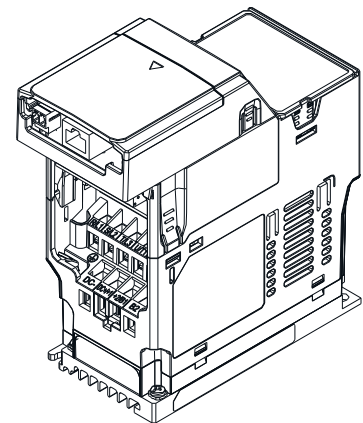


Figure 8-19