

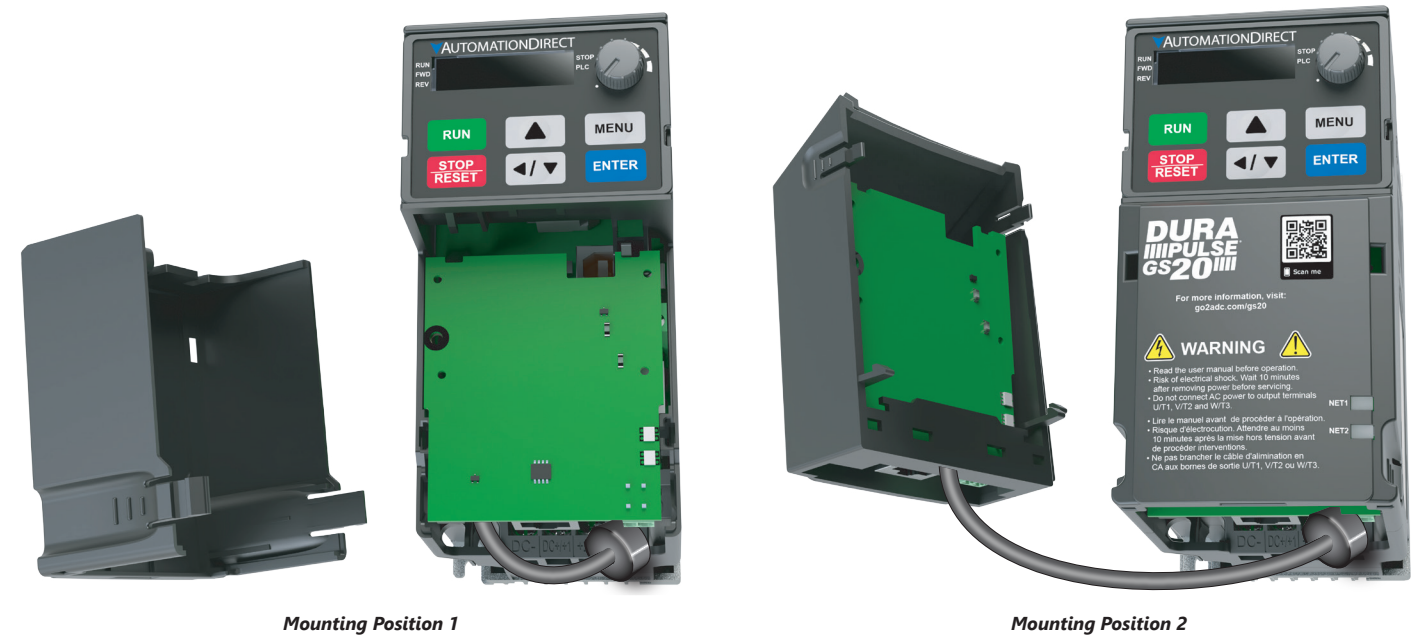
OPTION CARD INSTALLATION

For the GS20A-BPS, GS20A-CM-ENETIP, or GS20A-CM-EIP2 option card, install it by following the steps below for a GS20 series drive, or the steps on page 3 for a GS20X series drive. For standard GS20 drives, option cards can be installed inside the faceplate (position 1) or externally using a special mounting cover (position 2). For GS20A-CM-EIP2, ADC recommends position 2 mounting using the GS30A-CM-EIPKTP2 mounting kit (sold separately).

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INSTALLING AN OPTION CARD IN A GS20 DRIVE

NOTE: Ensure all control board and power wires are terminated before installing the option card. Once the option card is installed, there is no access to the control or power terminals.

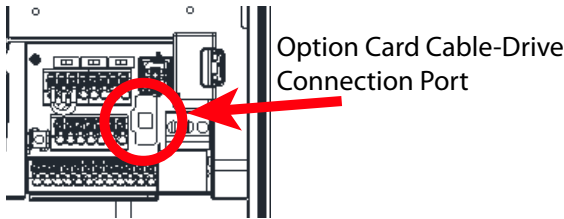


GS20 SERIES INSTALLATION, POSITION 1

Follow the steps below to install the BPS, ENETIP, or EIP2 card in position 1. For position 2 installations, see the steps on page 2. If installing to a GS20X series drive, see the steps on page 3.

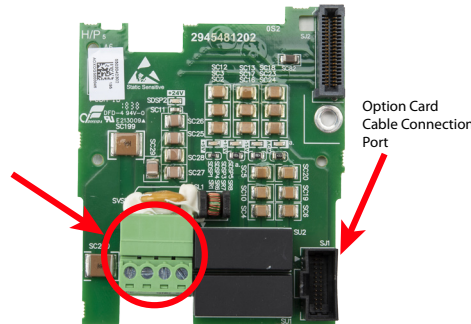
- 1) Disconnect power to the drive and wait until the capacitors are fully drained (at least 5 minutes)
- 2) Remove the front cover of the drive.

- 3) Remove the plug terminal cover from the drive control board. A small screwdriver can be used to pry the cover from the plug.

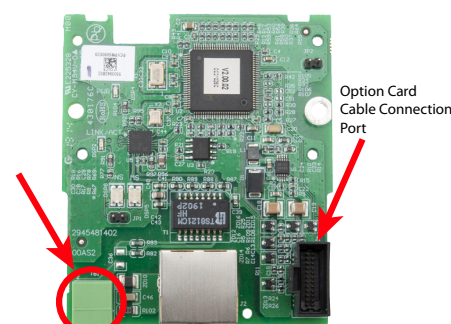


- 4) For the GS20A-BPS, locate the removable green terminal blocks on the option card and remove them. For the GS20A-CM-ENETIP or GS20A-CM-EIP2, the removable green terminal blocks are packaged separately in the box.

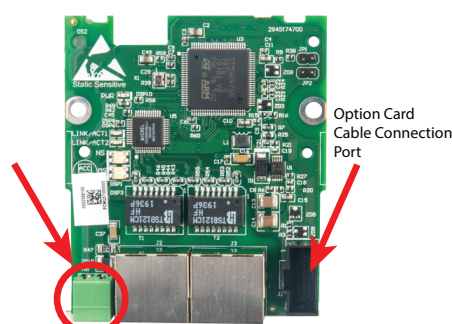
GS20A-BPS



GS20A-CM-ENETIP

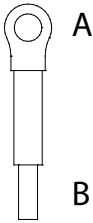


GS20A-CM-EIP2

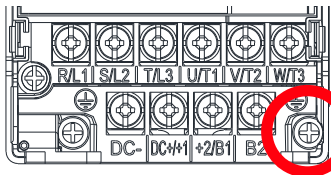


- 5) The option cards must be grounded before wiring. A ground terminal wire is included with the option cards. The A side of the ground terminal connects to the PE on the drive as indicated by the red circles below. The B side of the ground terminal connects to the green removable terminal block labeled PE on the option card. Connect the wire then plug the terminal block back into the option card. Note, for B frames, snip the "A" ring of the ground terminal wire to fit the connector around the ground screw.

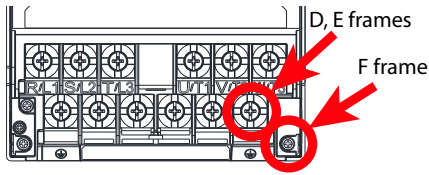
Ground Terminal Wire



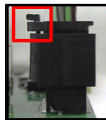
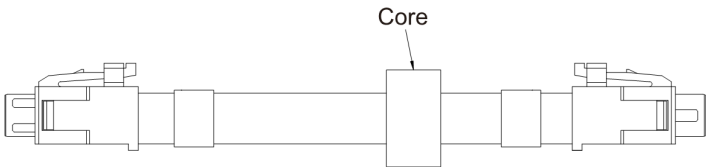
Frame A-C



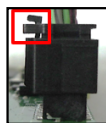
Frame D-F



- 6) Plug each end of the shorter control board connector cable included with the option card into the appropriate slot on the card and the drive. Apply enough pressure to ensure the connector is properly locked in place. The longer cable is for position 2 installations.

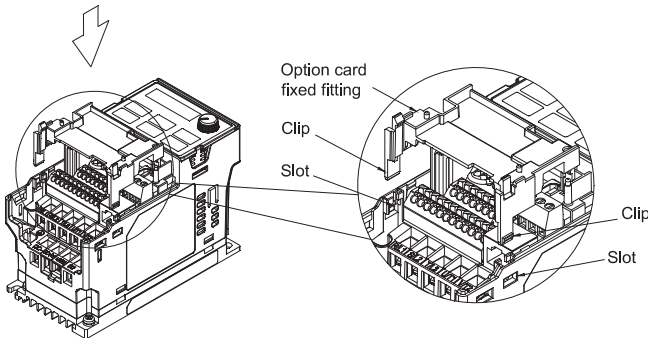


Locked

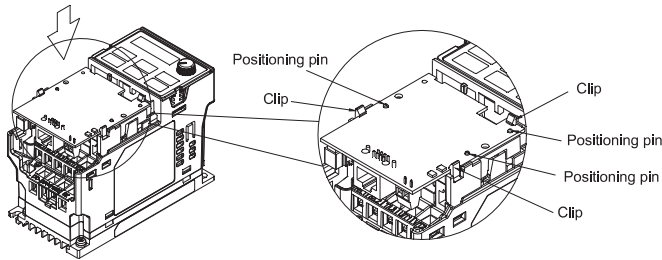


Unlocked

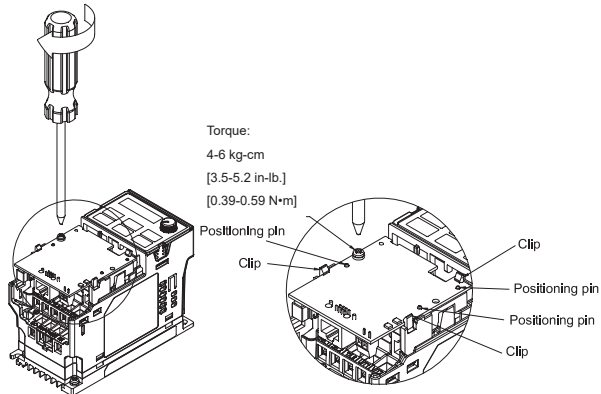
- 7) Line up the two large clips of the option card support frame as shown below, then press the bracket into the slots. Route the control board connector cable towards the bottom of the drive.



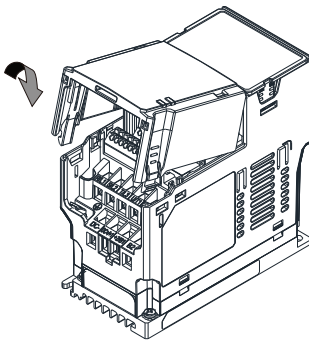
- 8) Line up the three positioning pins with the option card as shown below, then press the option card into the support frame until the clips snap into place.



- 9) Fasten the screw to fix the option card firmly in place and torque approximately 4-6 kg-cm (3.5-5.2 in-lb)(0.39-0.59 N-m).



- 10) Replace the GS20 drive front cover. Installation is complete.

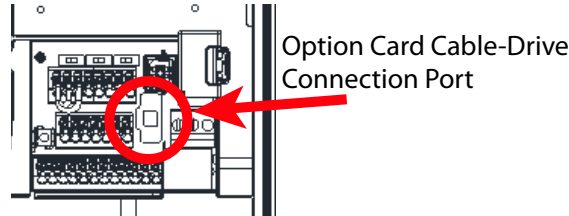


GS20 SERIES INSTALLATION, POSITION 2

Follow the steps below to install the BPS, ENETIP, or EIP2 card in position 2. For position 1 installations, see the steps on page 1. If installing to a GS20X series drive, see the steps on page 3.

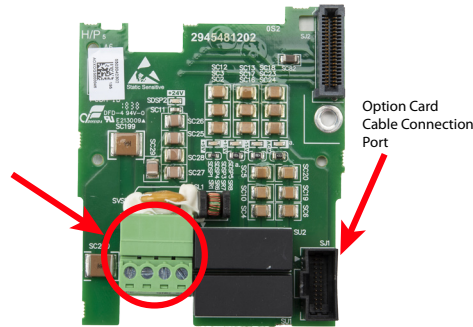
- 1) Disconnect power to the drive and wait until the capacitors are fully drained (at least 5 minutes)
- 2) Remove the front cover of the drive.

3) Remove the plug terminal cover from the drive control board. A small screwdriver can be used to pry the cover from the plug.

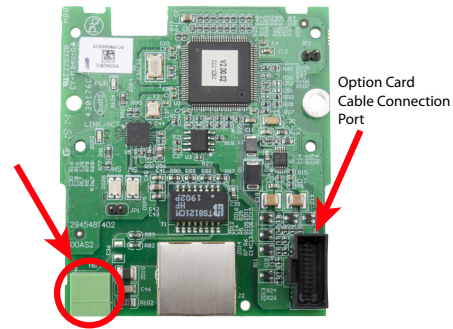


4) For the GS20A-BPS, locate the removable green terminal blocks on the option card and remove them. For the GS20A-CM-ENETIP or GS20A-CM-EIP2, the removable green terminal blocks are packaged separately in the box.

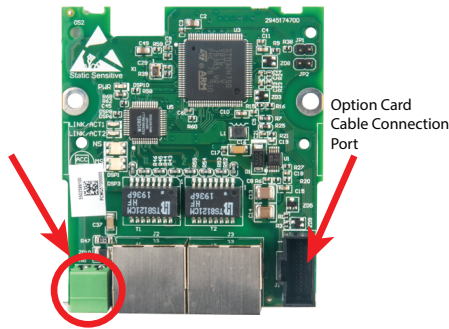
GS20A-BPS



GS20A-CM-ENETIP

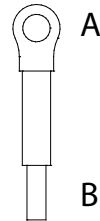


GS20A-CM-EIP2

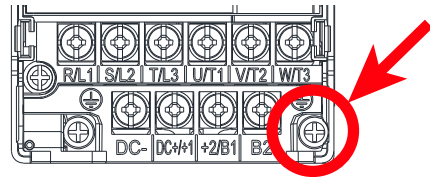


5) The option cards must be grounded before wiring. A ground terminal wire is included with the option cards. The A side of the ground terminal connects to the PE on the drive as indicated by the red circles below. The B side of the ground terminal connects to the green removeable terminal block labeled PE on the option card. Connect the wire then plug the terminal block back into the option card. Note, for B frames, snip the “A” ring of the ground terminal wire to fit the connector around the ground screw.

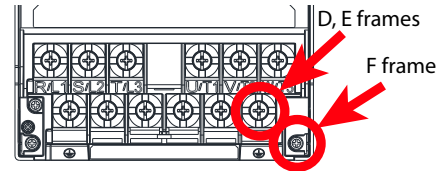
Ground Terminal Wire



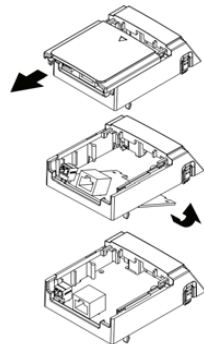
Frame A-C



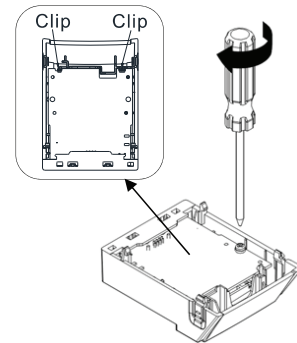
Frame D-F



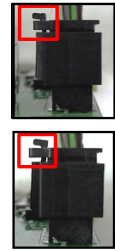
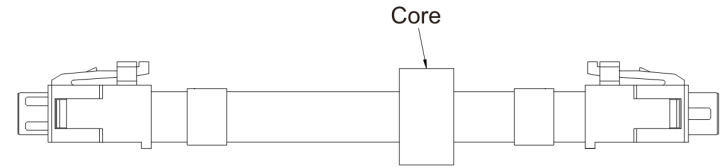
6) Detach the upper cover of the external mounting cover and place the communication card in the box with the terminal block and connector facing up and snap into place.



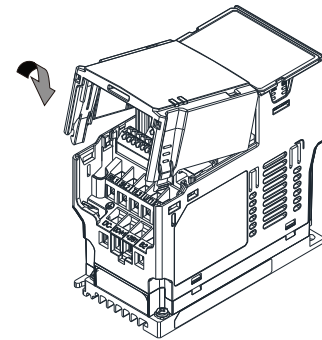
7) Flip the external mounting cover over and ensure the two clips are fully engaged. Then fasten the screws as shown below (torque screws to 4-6 kg•cm/3.5-5.2 lb-in/ 0.39-0.59 N•m).



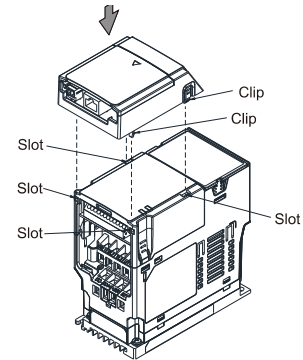
8) Plug each end of the longer control board connector cable included with the option card into the appropriate slot on the card and the drive. Apply enough pressure to ensure the connector is properly locked in place. The shorter cable is for position 1 installations.



9) Replace the front cover of the drive.



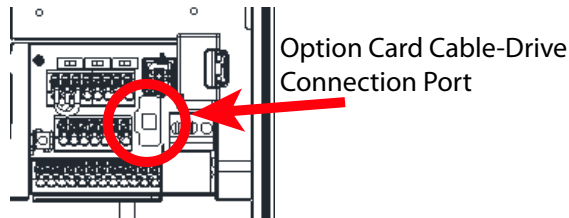
10) Line up the four clips on the back of the installation box with the four slots on the front of the GS20 drive. Press downward to engage the clips. Installation is complete



INSTALLING AN OPTION CARD IN A GS20X NEMA4X DRIVE

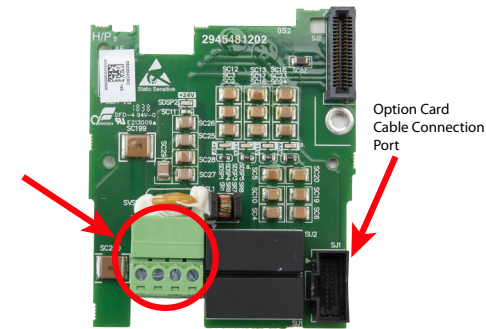
NOTE: For GS20X series drives, option cards may ONLY be installed in position 1.

- 1) Disconnect power to the drive and wait until the capacitors are fully drained (at least 5 minutes)
- 2) Open the front cover of the GS20X drive.
- 3) Remove the plug terminal cover from the drive control board. A small screwdriver can be used to pry the cover from the plug.

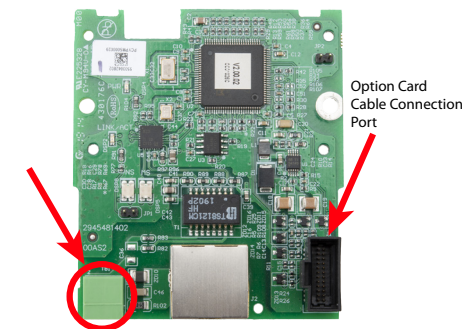


- 4) Locate the removeable green terminal blocks on the option card and remove them.

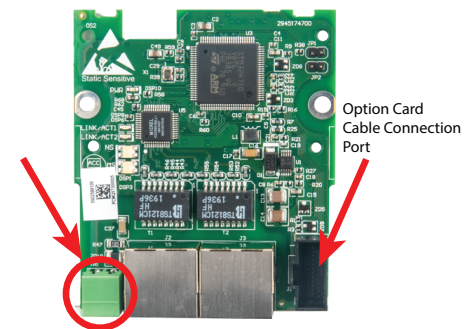
GS20A-BPS



GS20A-CM-ENETIP



GS20A-CM-EIP2



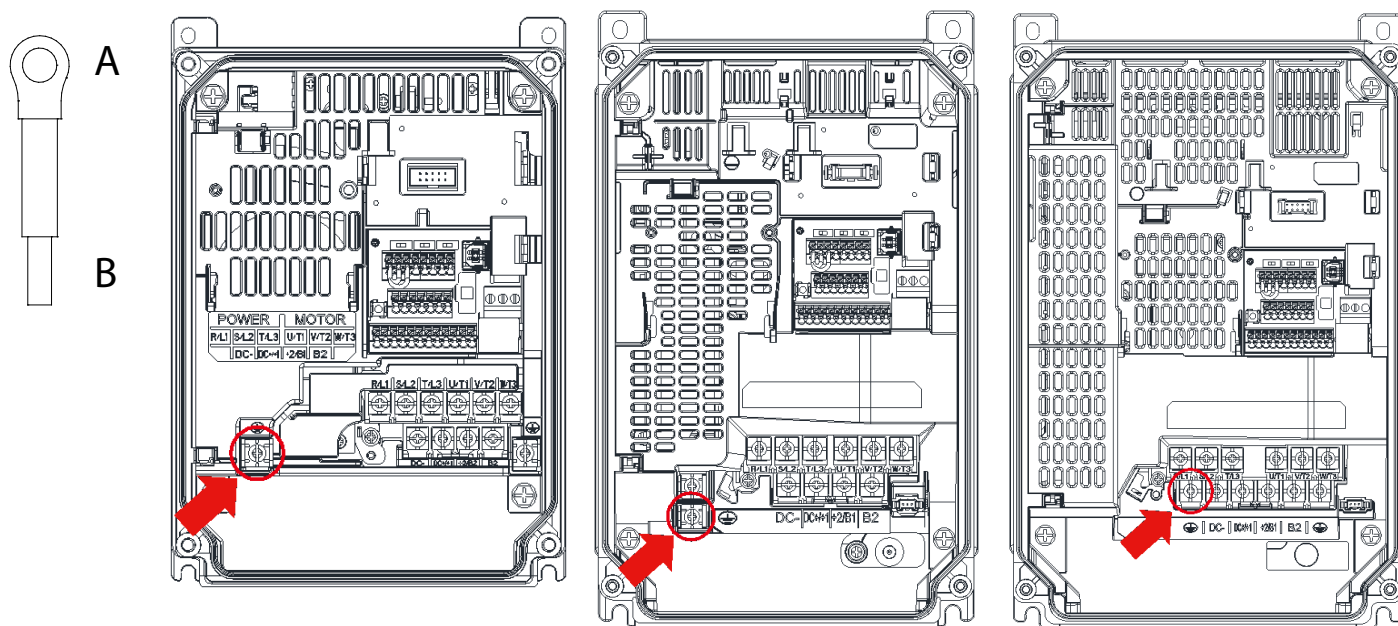
- 5) The option cards must be grounded before wiring. A ground terminal wire is included with the option cards. The A side of the ground terminal connects to the PE on the drive as indicated by the red circles below. The B side of the ground terminal connects to the green removeable terminal block labeled PE on the option card. Connect the wire then plug the terminal block back into the option card.

Ground Terminal Wire

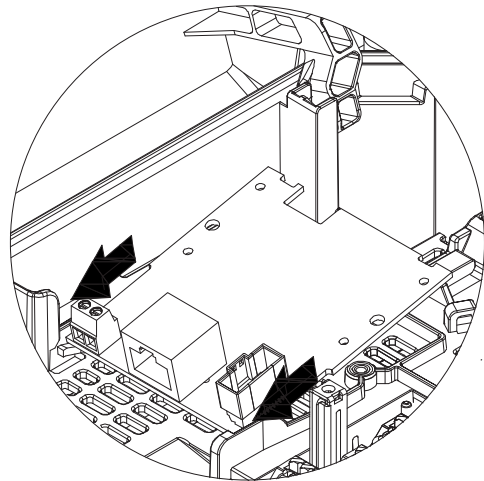
Frame A

Frame B

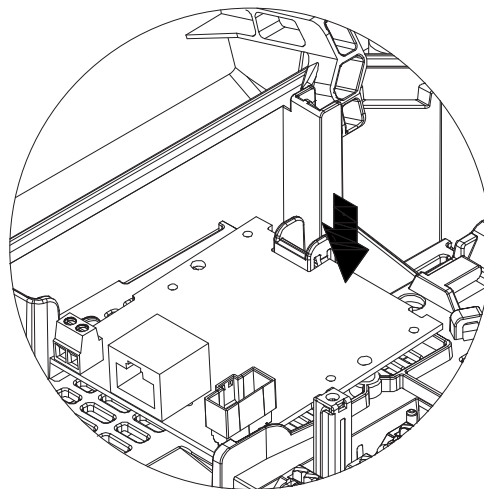
Frame C



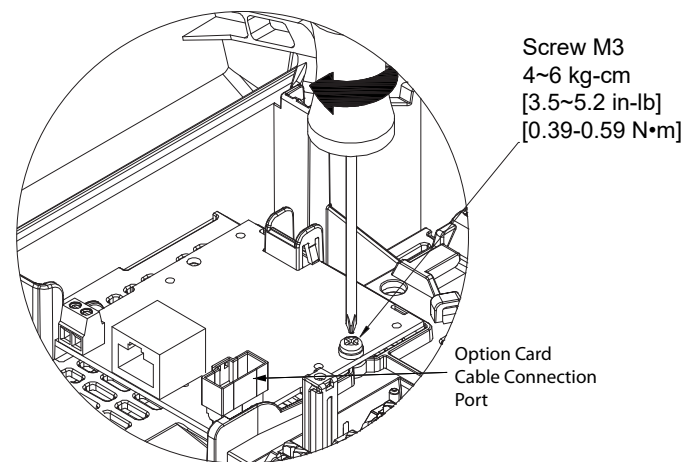
- 6) Insert the lower end of the option card into the guiding slot on the GS20X drive.



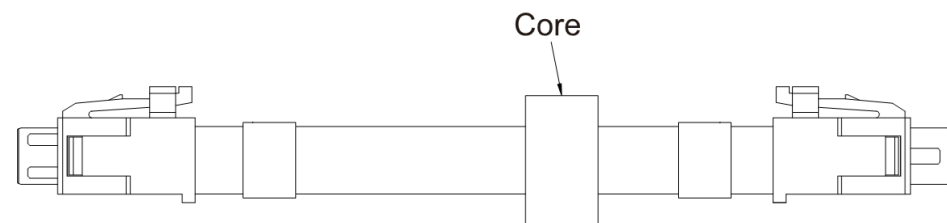
- 7) Press the upper end of the option card down until the clips snap into place.



- 8) Tighten the option card with a Phillips screwdriver and torque as shown.



- 9) Plug each end of the control board connector cable included with the option card into the appropriate slot on the card and the drive. The core of the cable should be positioned below the option card and control card slot.



- 10) Close the GS20X drive front cover.



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