



5014151900 - 202304



Scan code to view installation animation

COMMUNICATION CARD INSTALLATION

For the GS30A-CM-EIP1 or GS30A-CM-EIP2 card, follow the steps in this guide to install to the GS30 drive in position 1 or position 2. For ease of control wiring, mounting the EIP card in position 2 allows easier access to the terminal blocks, but will block the LED indicator lights.

INSTALLING A COMMUNICATION CARD IN A GS30 DRIVE

Before starting, determine if the communication card needs to be installed in position 1 or position 2. For all frames, position 1 mounts the card inside the drive and Comm LED status is visible on the drive exterior. For Frames A-D, position 2 mounts the card externally using a mounting cover (included with your card) that allows for easy access to the wiring section of the drive but covers the Comm LEDs. For Frames E-I, position 2 is integrated into the drive front panel and the external mounting cover is not required. If an Encoder or I/O card is installed, the Comm card must be installed in position 2.



Mounting Positions for Frames A-D

Mounting Positions for Frames E-I

Things you'll need (most of this will come with your communication card):

- Communication card to be installed
- Support frame (Position 1) or external mounting cover (Position 2)
- Removable green terminal block
- Grounding wire
- Mounting screw
- Small phillips and straight screwdriver
- Connection cable (choose short or long cable per table):

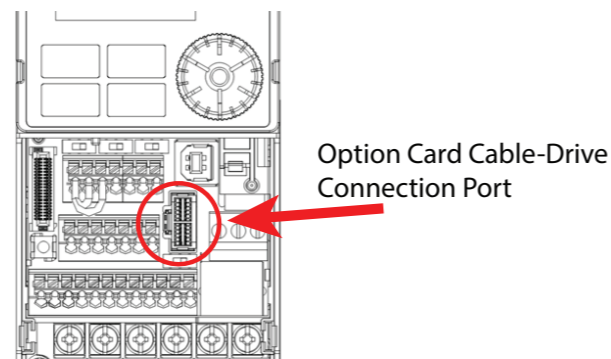
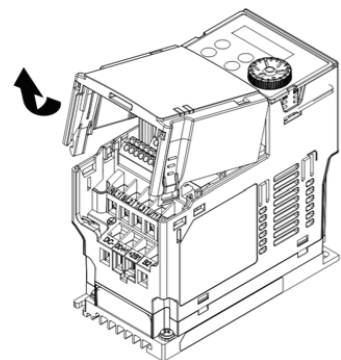
Installation Type	Cable Needed
Position 1, Frames A-D	Short cable
Position 1, Frames E-I	Long cable
Position 2, all frames	Long cable

POSITION 1 INSTALLATION

Follow the steps below to install the EIP card in position 1. If you are installing the EIP card to position 2 and installing another accessory card in position 1, make sure you connect the EIP card cable to the drive before installing the position 1 support frame.

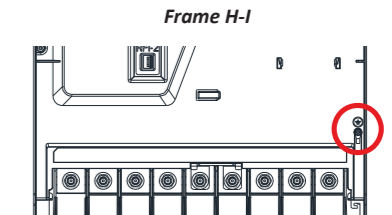
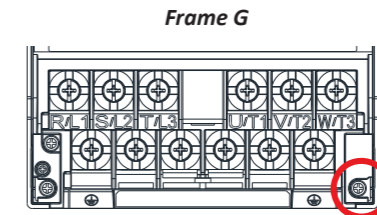
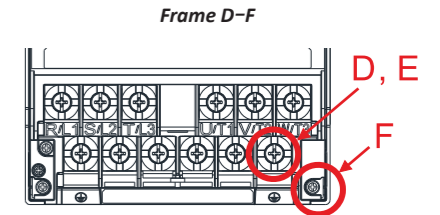
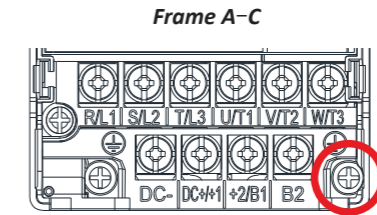
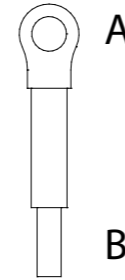
NOTE: Ensure all control board and power wires are terminated before installing the position 1 support frame. Once the support frame is installed, there is no access to the control terminals on all drives, and no access to the power terminals on frames A-D.

- 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.

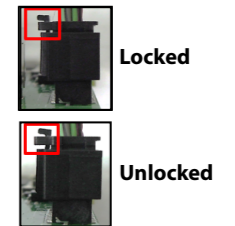
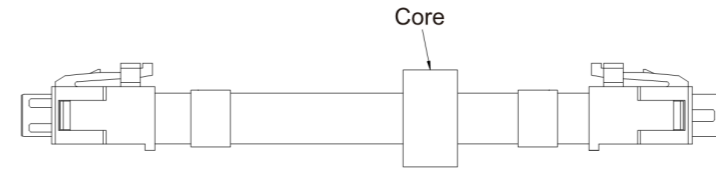


- 4) The communication card must be grounded before wiring. A ground terminal wire is included with the card. The A side of the ground terminal connects to the PE on the drive as indicated by the red circles below. The B side of the ground terminal connects to the green removable terminal block labeled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

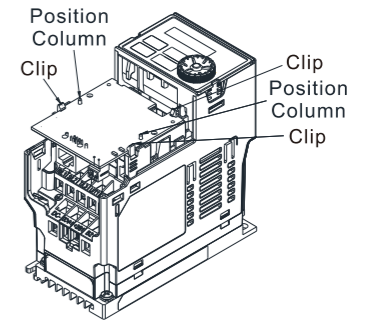
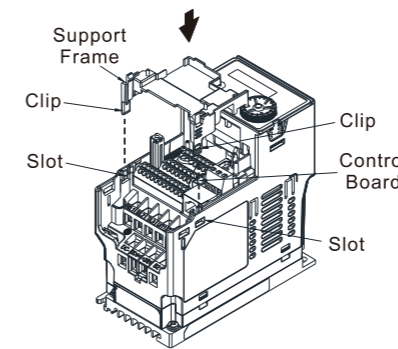
Ground Terminal Wire



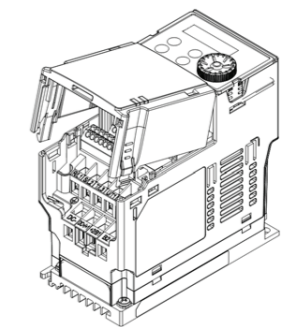
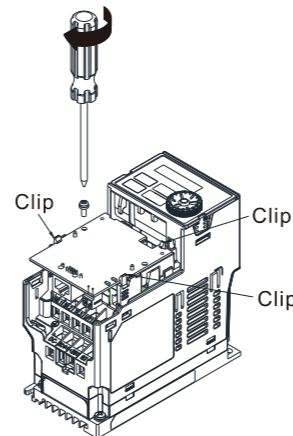
- 5) Plug each end of the control board connector cable included with the option card into the appropriate slot on the card and the drive. Apply enough pressure to ensure the connector is properly locked in place.



- 6) 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.
- 7) 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.



- 8) 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).
- 9) Replace the GS30 drive front cover. Installation is complete.



POSITION 2 INSTALLATION

Follow the steps below to install an EIP card in Position 2.

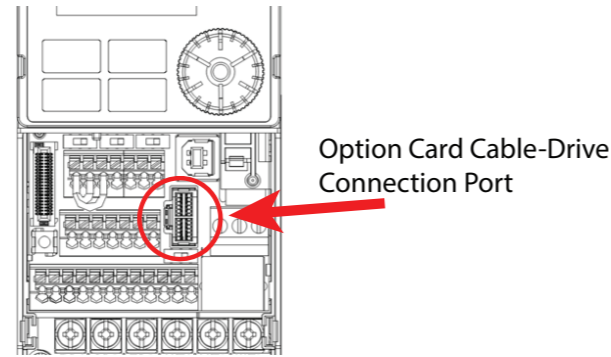
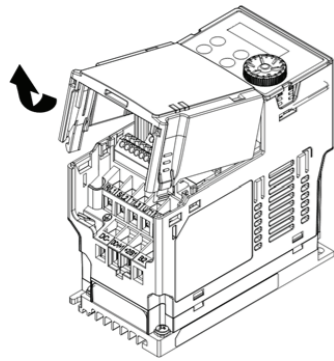
NOTE: The comm card connection port will be covered when a card is installed in position 1. When installing cards in both positions, the cable for the position 2 card must be connected to the drive before the position 1 support frame is installed.

NOTE: Ensure all control board and power wires are terminated before installing the position 1 support frame. Once the support frame is installed, there is no access to the control terminals on all drives, and no access to the power terminals on frames A–D.

1) Disconnect power to the drive and wait until the capacitors are fully drained (at least 5 minutes).

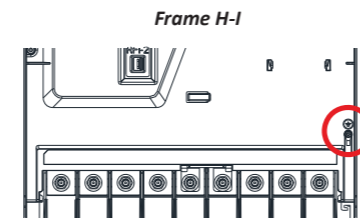
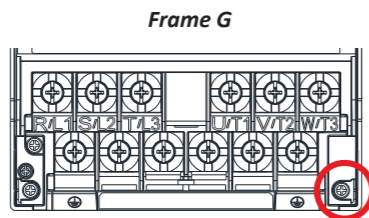
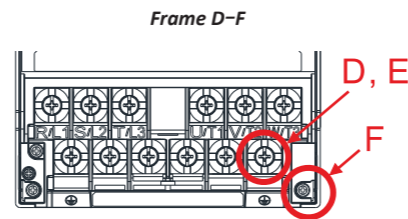
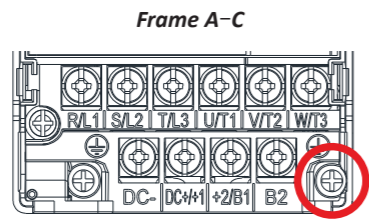
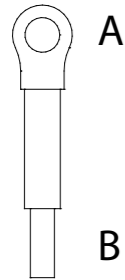
2) Remove the front cover of the drive.

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) The communication card must be grounded before wiring. A ground terminal wire is included with the card. 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 E-I frames, snip the "A" ring of the ground terminal wire to fit the connector around the ground screw.

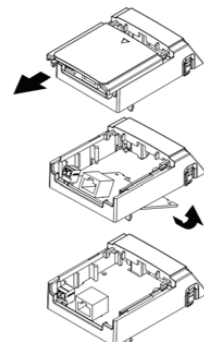
Ground Terminal Wire



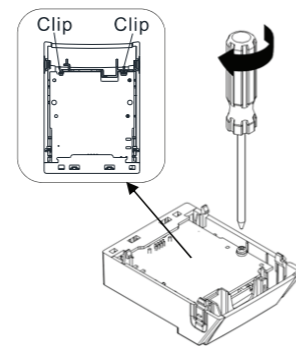
NOTE: For Frames A-D, continue with the steps below. For Frames E-I skip to Steps for Frame E-I.

INSTALLATION STEPS FOR FRAMES A-D

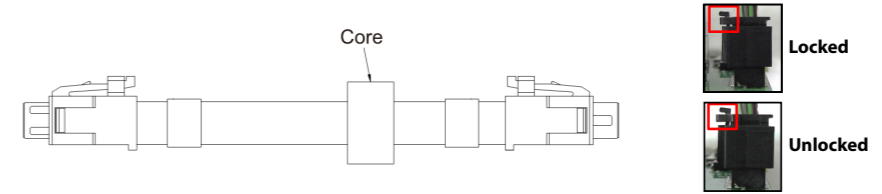
5) Detach the upper cover of the external mounting cover and place the communication card in the box with the terminal block and connector facing up and snap into place.



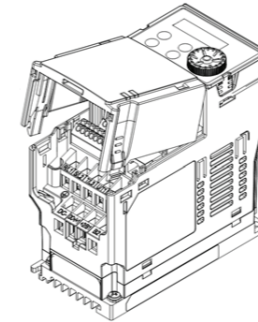
6) Flip the external mounting cover over and ensure the two clips are fully engaged. Then fasten the screws as shown below (torque screws to 4-6 kg•cm/3.5-5.2 lb-in/ 0.39-0.59 N•m).



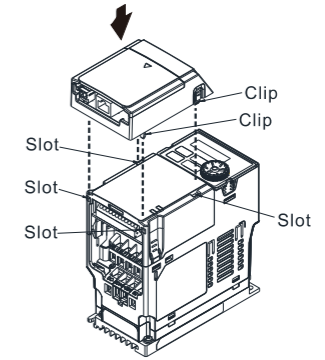
7) Plug each end of the long control board connector cable included with the option card into the appropriate slot on the card and the drive. Apply enough pressure to ensure the connector is properly locked in place.



8) Replace the front cover of the drive.

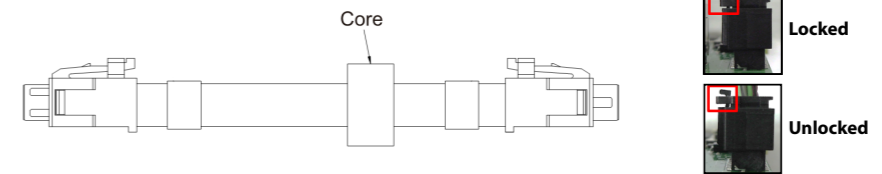


9) Line up the four clips on the back of the installation box with the four slots on the front of the GS30 drive. Press downward to engage the clips. Installation is complete

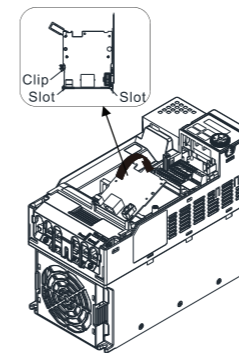


INSTALLATION STEPS FOR FRAMES E-I

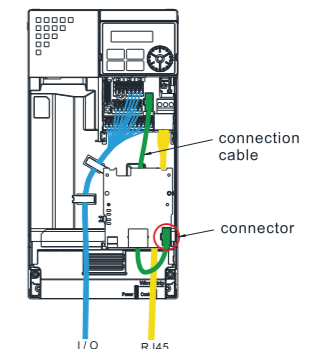
5) Plug each end of the long control board connector cable included with the option card into the appropriate slot on the card and the drive. Apply enough pressure to ensure the connector is properly locked in place.



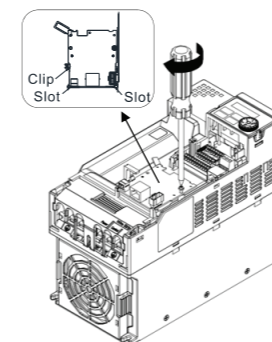
6) Place the communication card with terminal block and connector facing up in the position 2 slot of the drive. Make sure to run the connector cable under the card, not over it.



7) Before securing the card in place, make sure all cables are running around or under the communication card (see below).



8) Press downward to engage the clips, then fasten the screws as shown (torque screws to 4-6 kg•cm/3.5-5.2 lb-in/ 0.39-0.59 N•m)..



9) Replace the GS30 drive front cover. Installation is complete.

