



5014151800-202304



Scan code to view installation animation

ENCODER, I/O, AND BPS CARD INSTALLATION

For the GS30 Encoder, I/O, and BPS cards, follow the steps in this guide to install to the GS30 drive in position 1. Encoder and I/O cards must be in position 1. The BPS card can be in either position 1 or position 2. The option card kit includes both a long cable and a direct plug-in connector. If you are also installing a communication card, that card will be installed to position 2.



Mounting Positions for Frames A-D

Mounting Positions for Frames E-I

Things you'll need (most of this should have come with your encoder, I/O, or BPS card):

- Encoder, I/O, or BPS card to be installed
- Support frame (for position 1)
- Accessory card to drive connector (all kits), long connector cable (BPS kit)
- Grounding wire (Encoder and BPS only)
- Mounting screw
- Screwdriver

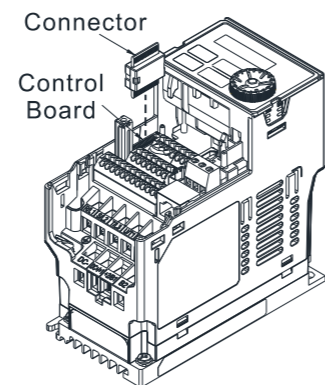
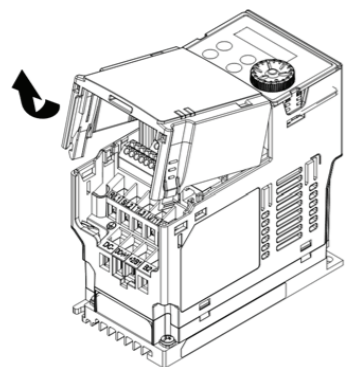
POSITION 1 INSTALLATION

Follow the steps below to install your card in position 1. If you are installing a communication card to position 2, make sure you connect the communication card connection cable to the drive before installing the position 1 support frame.

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 terminals (all drives), and no access to power terminals on frames A-D.

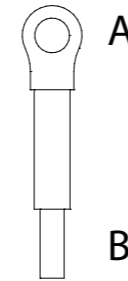
NOTE: If you are installing to a Frame E-I drive, the instructions are the same but the drive and position 1 location will look a little different. Refer to the illustration 'Mounting Positions for Frames E-I' for a visual.

- 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) Mount the card connector to the drive control board.

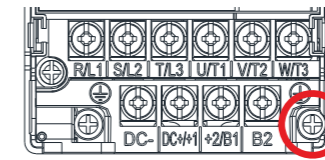


4) The encoder and BPS cards must be grounded before wiring. A ground terminal wire is included with the card. The A side of the ground terminal connects to the PE on the drive as indicated by the red circles below. The B side of the ground terminal connects to the green terminal block labeled PE on 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.

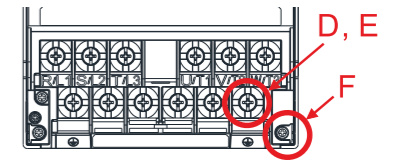
Ground Terminal Wire



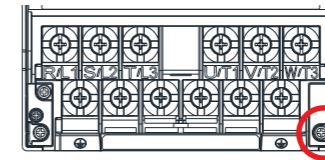
Frame A-C



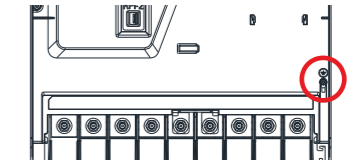
Frame D-F



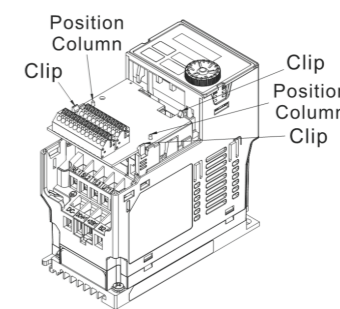
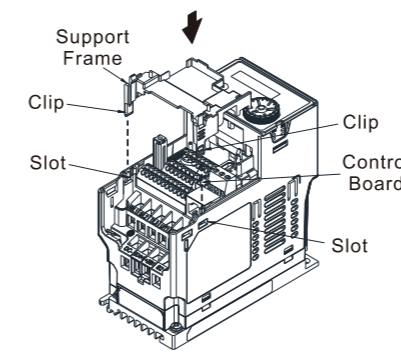
Frame G



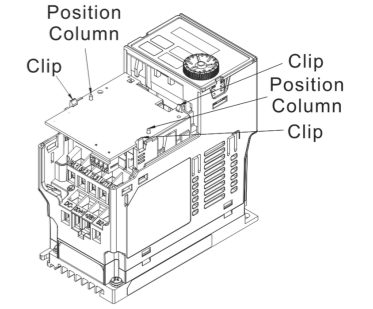
Frame H-I



- 5) 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 (if used) towards the bottom of the drive.
- 6) Line up the three positioning pins and the card connector with the option card as shown below, then press the option card into the support frame until the clips snap into place and the connector is firmly seated.



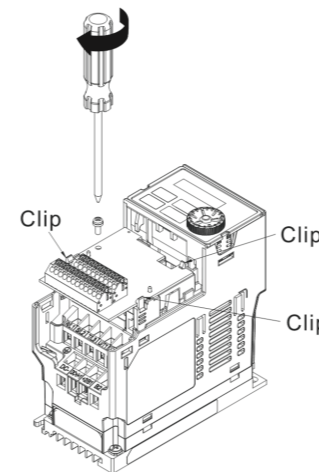
Encoder and I/O cards, terminals up



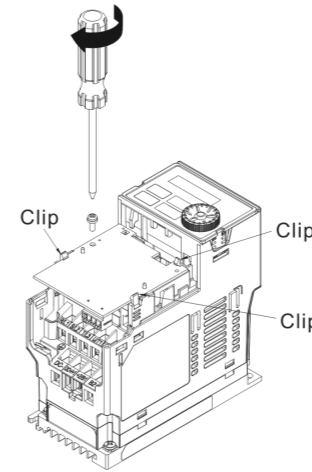
BPS cards, terminals down

7) 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).

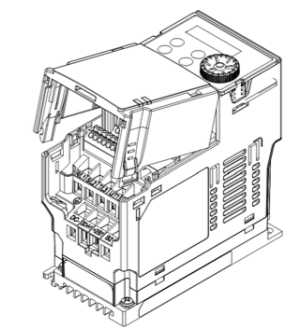
8) Replace the GS30 drive front cover. Installation is complete.



Encoder and I/O cards



BPS cards



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