

# INSTALLATION INSTRUCTIONS

## AUTO/MANUAL SWITCH Part No. 9481A

for KBAC Series Inverters with SIAC-PS Signal Isolator with Power Supply (Part No. 9600C)

This switch assembly is designed to operate with the following, or higher, Software Revision Codes: KBAC-24D: 1.24, KBAC-27D: 1.21, KBAC-29: 1.03, KBAC-29 (1P): 1.11, KBAC-45: 1.11, KBAC-48: 1.34. The software revision code is printed on the bottom right side of the 2.5" x 7/8" silver ratings label, which is located on the top of the drive. The revision code is in the format "XX/1.24".



### SAFETY WARNING! Please read carefully before proceeding.

This product must be installed and serviced by a qualified technician, electrician, or electrical maintenance person familiar with its operation and the hazards involved. Proper installation, which includes electrical connections, fusing or other current protection, and grounding, can reduce the chance of electrical shocks, and/or fires, in this product or products used with this product, such as electric motors, switches, coils, solenoids, and/or relays. Do not use this drive in an explosion-proof application. Eye protection must be worn and insulated adjustment tools must be used when working with drive under power. This product is constructed of materials (plastics, metals, carbon, silicon, etc.) which may be a potential hazard. Proper shielding, grounding, and filtering of this product can reduce the emission of radio frequency interference (RFI) which may adversely affect sensitive electronic equipment. It is the responsibility of the equipment manufacturer and individual installer to supply this Safety Warning to the ultimate end user of this product. (SW 8/2012)

This control contains electronic Start/Stop circuits that can be used to start and stop the control. However, these circuits are never to be used as safety disconnects since they are not fail-safe. Use only the AC line for this purpose.

Be sure to follow all instructions carefully. Fire and/or electrocution can result due to improper use of this product.

It is the responsibility of the equipment manufacturer and individual installer to supply this Safety Warning to the ultimate end user of this product.

### DESCRIPTION

The Auto/Manual Switch assembly is designed for installation on the front cover of the KBAC inverters. It is used to select either the Main Speed Potentiometer for "manual operation" or a remote voltage following analog signal for "automatic operation", from the SIAC-PS Signal Isolator option (Part No. 9600C).

### MOUNTING

**WARNING!** Make sure that the AC line is disconnected before installing the Auto/Manual Switch assembly.

1. Remove the rubber hole plug assembly that covers the Auto/Manual position. Use the Hole Plug Removal instructions that are provided.
2. Align the switch key in the front cover hole and mount the Auto/Manual Switch assembly with the rubber boot. Use the hex wrench that is provided to tighten the rubber boot hex nut. Do not over tighten. See Figure 1.

**Note:** The switch bushing should protrude approximately 0.15" (3.8mm) through the front cover.

3. Install the SIAC-PS onto the PC board in accordance with the SIAC-PS Installation and Operating Instructions Manual.

### ELECTRICAL CONNECTIONS

1. Remove the jumper assembly that is installed on the FWD and STOP terminals of the PC board. Using pliers, gently rock the female terminals back and forth horizontally while pulling them upward. See Figure 2.
2. Install the gray wire from the center terminal of the Auto/Manual Switch assembly to Terminal "COM" on the KBAC PC board. See Figure 3, on reverse side.
3. Install the green wire from the bottom terminal of the Auto/Manual Switch assembly to Terminal "FWD" on the KBAC PC board. See Figure 3, on reverse side.

**Application Note:** If using this Auto/Manual Switch in conjunction with the Forward-Stop-Reverse Switch (Part No. 9480), the Forward-Stop-Reverse Switch must be connected to the SIAC-PS instead of the KBAC. Cut off all three insulated straight terminals from the end of the Forward-Stop-Reverse Switch wires. Strip the wires 1/4". Connect the white/green wire to Terminal 0V on TB1A, connect the white/yellow wire to Terminal FWD on TB1B, and connect the white/red wire to Terminal REV on TB1B.

FIGURE 1 – MOUNTING THE AUTO/MANUAL SWITCH

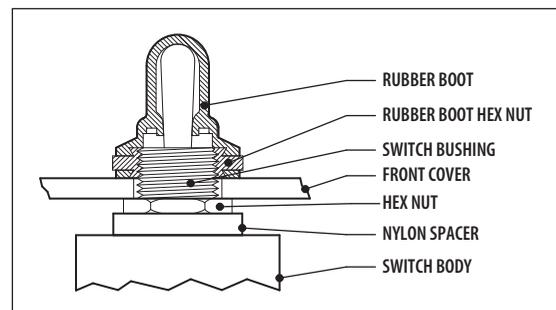
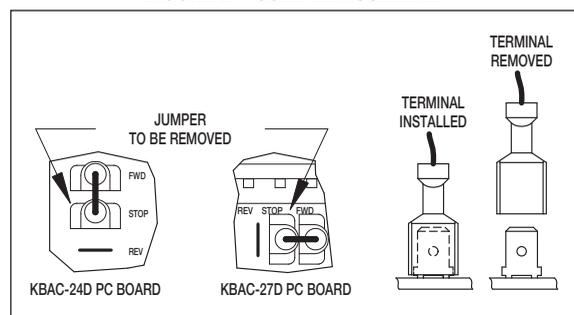


FIGURE 2 – JUMPER ASSEMBLY



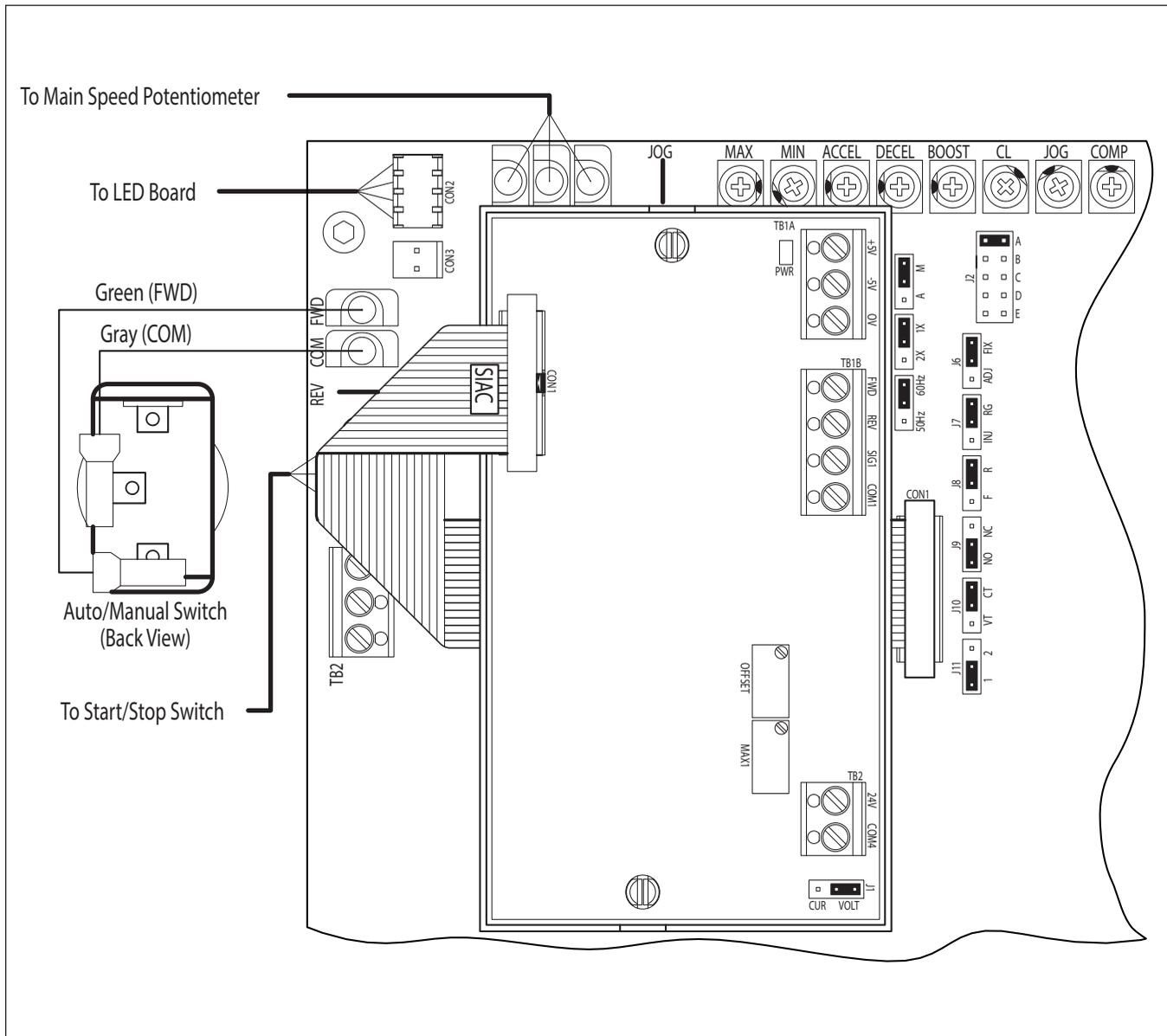
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FIGURE 3 – KBAC WITH SIAC-PS SIGNAL ISOLATOR & AUTO/MANUAL SWITCH CONNECTION DIAGRAM\*



\*Layouts of KBAC and SIAC-PS may Vary.



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