


FORWARD-BRAKE-REVERSE SWITCH

For Model KBPC-240D
KB P/N 9339

INSTALLATION INSTRUCTIONS

WARNING! Be sure to read safety warning before proceeding. Electrocutation can result if you do not read safety warning.

ii.  **SAFETY WARNING! — PLEASE READ CAREFULLY**

This product should 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 wiring, mounting in proper enclosure, fusing or other overcurrent protection and grounding, can reduce the chance of electric shocks, fires or explosion in this product or products used with this product, such as electric motors, switches, coils, solenoids and/or relays. Eye protection must be worn and insulated adjustment tools must be used when working with control 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. If information is required on this product, contact our factory. It is the responsibility of the equipment manufacturer and individual installer to supply this safety warning to the ultimate user of this product. (SW effective 11/92)


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

OPERATION

The FWD-BRK-REV switch assembly is designed to provide reversing and dynamic braking. The switch contains a special hesitation action which prevents the operator from switching instantaneously from forward to reverse (or reverse to forward). This eliminates the possibility of "instant reversing" which could damage the motor and control. After switching from forward to brake, the switch lever must be released by the operator before it can be switched into reverse. In the brake position the output of the control is extinguished via an Inhibit circuit and a dynamic brake resistor is applied across the armature.

CAUTION! The FWD-BRK-REV switch is designed for occasional switching of up to (3) operations per minute.

MOUNTING

 **WARNING!** Make sure AC line is disconnected to control before installing this product.

1. Remove the rubber hole plug covering the FWD-BRK-REV position by unscrewing the retainer nut on the inside cover.
2. On the FWD-BRK-REV switch, remove and discard the hex nut located on top of the brake resistor bracket. (See fig. 1.)
3. Mount the FWD-BRK-REV switch assembly using the rubber switch boot provided. Tighten, but do not overtighten, the switch boot hex nut. Note: The switch bushing should protrude approximately .150" (3.8mm) through the front cover.

FIG. 1 – FWD-BRK-REV SWITCH BEFORE INSTALLATION

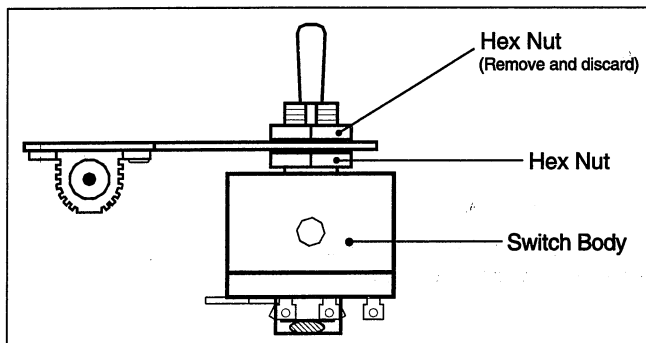
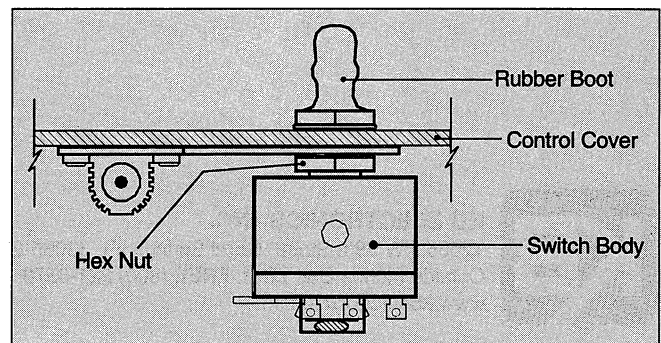


FIG. 2 – FWD-BRK-REV SWITCH AFTER INSTALLATION



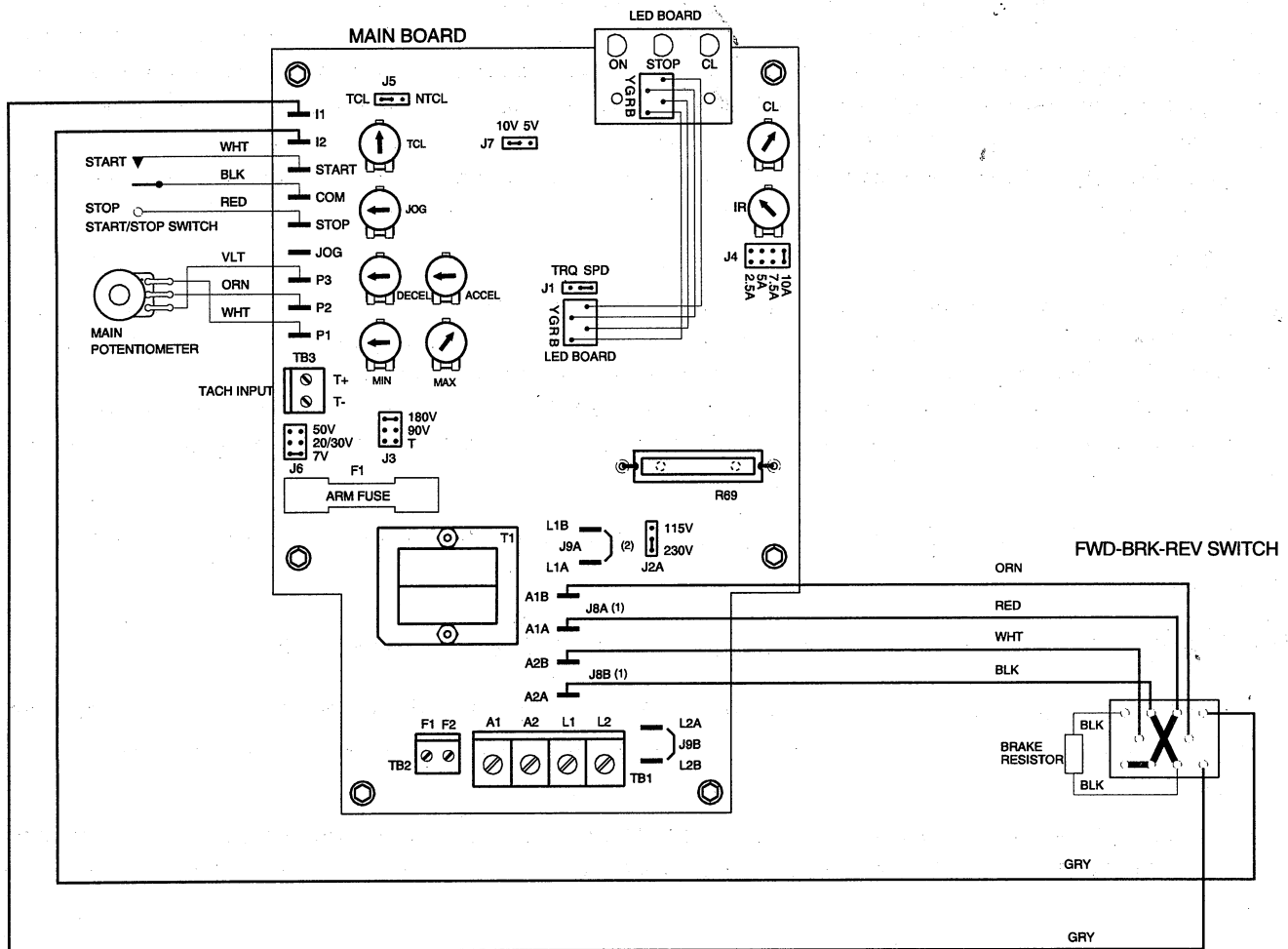
WIRING

1. Remove the (2) jumpers J8A (connects A1A and A1B) and J8B (connects A2A and A2B) using long-nose pliers. (Rock terminal back and forth to facilitate removal.)
2. Install the leads from the F-B-R switch assembly onto the following terminals on the main PC board.

Wire Color From Switch	Terminal Position on Main Board
BLACK	A2A
WHITE	A2B
RED	A1A
ORANGE	A1B
GRAY*	I1
GRAY	I2

*Either gray lead can go to I1, I2.

FIG. 3 – CONNECTION DIAGRAM



KB ELECTRONICS, INC.

12095 NW 39th Street, Coral Springs, FL 33065-2516 • (954) 346-4900 • Fax (954) 346-3377
 Outside Florida Call TOLL FREE (800) 221-6570 • E-mail – info@kbelectronics.com
 www.kbelectronics.com