

BC156 FORWARD-BRAKE-REVERSE SWITCH FOR MODEL BC154 & BCWD140

INSTALLATION INSTRUCTIONS

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

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 shock, fire 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)

This control contains Start/Stop and Inhibit circuits which 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.

The input circuits of this control (potentiometer, Start/Stop, Inhibit) are not isolated from AC line. Be sure to follow all instructions carefully. Fire and/or electrocution may result due to improper use of this product.

OPERATION

The F-B-R 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 F-B-R switch is designed for occasional switching of up to (3) operations per minute.**

The BCWD140 comes supplied with this switch. These instructions may be used for switch replacement.

MOUNTING

1. Remove the rubber hole plug covering the FWD-BRK-REV position by unscrewing the retainer nut on the inside cover.
2. Mount the F-B-R 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.

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.

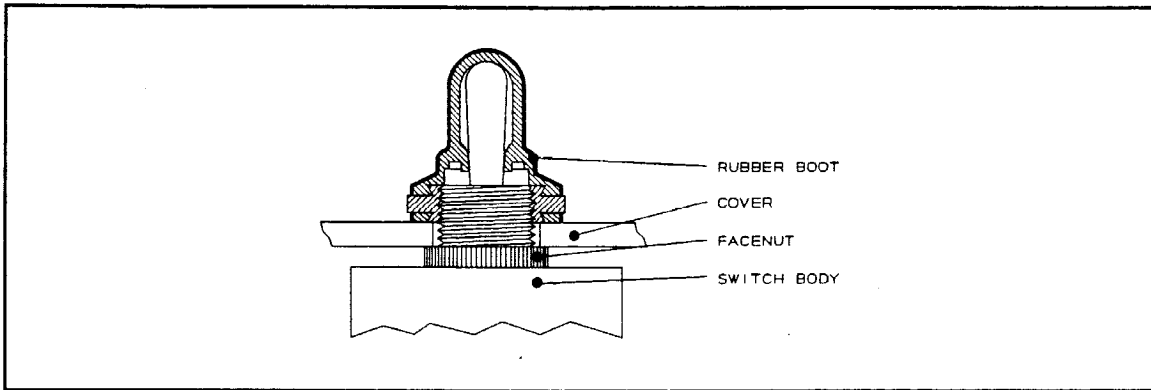
WIRE COLORS FROM SWITCH	TERMINAL POSITION ON MAIN PC BOARD
BLACK	A2A
WHITE	A2B
RED	A1A
ORANGE	A1B
GRAY*	I1
GRAY	I2

*Either gray lead can go to I1, I2.

INSTALLATION IS NOW COMPLETE

MN1377

MOUNTING



CONNECTION DIAGRAM

