

SELECTOR SWITCH

PUSHBUTTON

DISASSEMBLY

CAUTION

Be sure all power is turned off before and during installation and maintenance.

1. Disengage locks on top and bottom and unscrew top and bottom enclosure covers.
2. Remove interior assembly for access to operating shaft holes only if necessary. Follow instructions supplied with enclosure for proper disassembly procedure.
3. Remove plug from drilled and tapped operating shaft hole.

NEW INSTALLATION

**PUSHBUTTON STATION KIT
(EPC-PB3-Kit)**

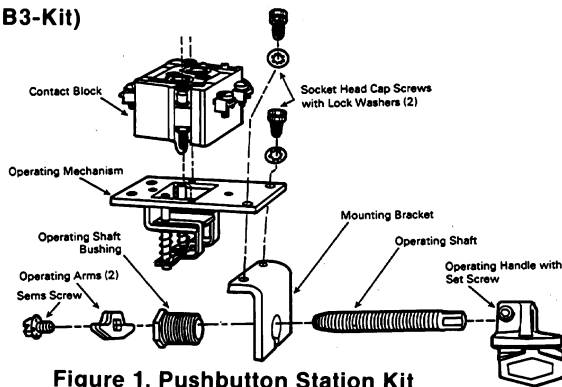
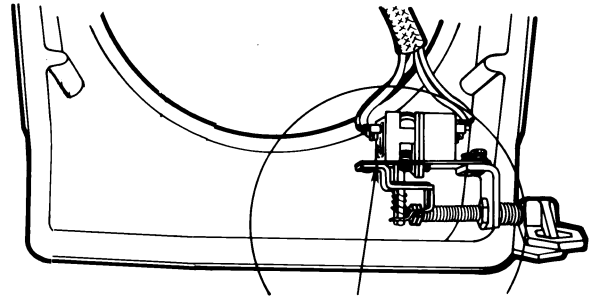


Figure 1. Pushbutton Station Kit

1. Apply STL lubricant to outer threads of operating shaft bushing.
2. Position mounting bracket over threaded operating shaft hole in EPC enclosure as shown in Figure 2. Thread operating shaft bushing through hole in mounting bracket into enclosure and tighten securely.



PUSHBUTTON

Figure 2. Sectional View, From Top

3. Apply STL lubricant to threads of operating shaft.
4. Thread operating shaft into operating shaft bushing until only one thread and the square end of the shaft extend outside the enclosure. The milled flat surface on the inside end of the operating shaft must face the front of the enclosure.
5. Place operating handle onto operating shaft with handle markings facing the front of the enclosure. Allow a clearance of 1/16 to 3/32 inch between enclosure and operating handle. Securely tighten set screw on handle.
6. Place two operating arms on inside end of operating shaft and secure in place with sems screw.
7. Secure operating mechanism to mounting bracket with the two socket head cap screws and lockwashers.
8. Position contact block on operating mechanism. Standard "start-stop" units are assembled with normally closed (N.C.) contacts positioned towards the bottom of the enclosure (internal cover threads). Secure contact block with two captive screws.

CAUTION

Contact block must be wired so that the normally open (N.O.) and normally closed (N.C.) switch contacts operate in accord with operating handle markings.

9. Check pushbutton station for proper operation. Pushing "start" should cause the normally open (N.O.) contacts to close. Pushing "stop" should cause the normally closed (N.C.) contacts to open while the normally open (N.O.) contacts should remain open.
10. Make electrical connections to the screw terminals on the contact block utilizing the wiring scheme established for your system.
11. Replace interior assembly if previously removed. Reconnect feeder and branch circuit conductors.
12. Replace top and bottom covers.

NEW INSTALLATION

SELECTOR SWITCH KIT (EPC-RR2, RR3 Kit)

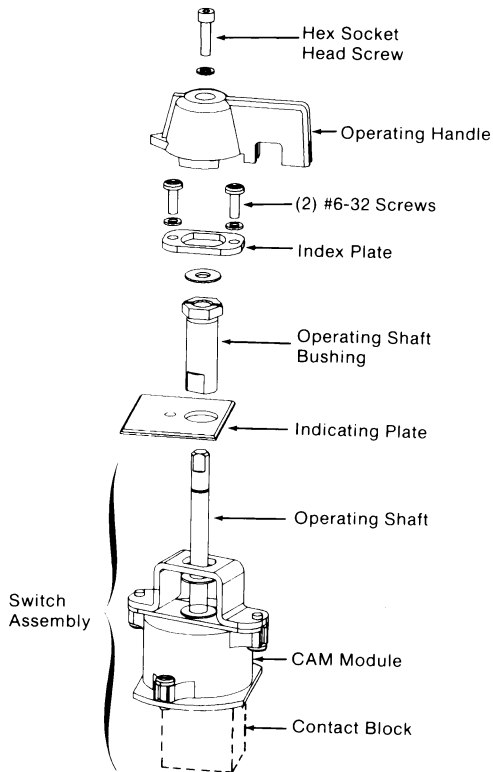
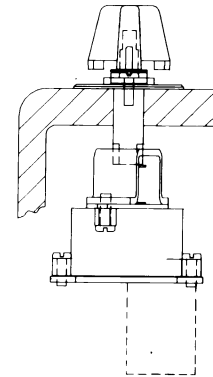


Figure 3. Selector Switch Kit

1. Disassemble kit by loosening hex socket head screw in operating handle, then remove handle from operating shaft and set it aside. Next, remove retaining clip and slide threaded bushing off shaft.
2. Apply STL thread lubricant to threads of operating shaft bushing.
3. Place indicating plate under bushing head, then thread bushing into EPC housing until fully seated. If slots in bushing head are not aligned with adjacent blind holes in EPC housing, back bushing out (not more than one half turn - between 0° & 180°) until aligned.
4. Place index plate over bushing head and secure both the index and indicating plates and bushing to EPC housing with (2) #6-32 screws and lock washers supplied.
5. Place selector switch assembly with harness attached into EPC enclosure body and insert into bushing using a twisting motion until switch is oriented as shown in Figure 4.
6. Push selector switch shaft into bushing until groove in shaft for the retaining ring is visible. Next, install retaining clip. Reinstall operating handle onto shaft and secure in place with hex socket head screw.
7. Make electrical connections to screw terminals on selector switch assembly utilizing the wiring schemes established for your system. See Table 1 for switch contact arrangements.

8. Check selector switch for proper operation.
9. Replace interior assembly if previously removed. Reconnect branch and feeder conductors.
10. Replace top end bottom covers.



SELECTOR SWITCH

Figure 4. Sectional View, From Bottom

TABLE 1

EPC-RR Type Selector Switches

Cat. No. Unit	Panel Position (Front)	Contact Arrangement		
		Position 1	Position 2	Position 3
EPC-RR2 Two Position Two Circuit		A1		
EPC-RR3 Three Position Two Circuit		A1		

SELECTOR SWITCH FIELD REPLACEMENT

WARNING

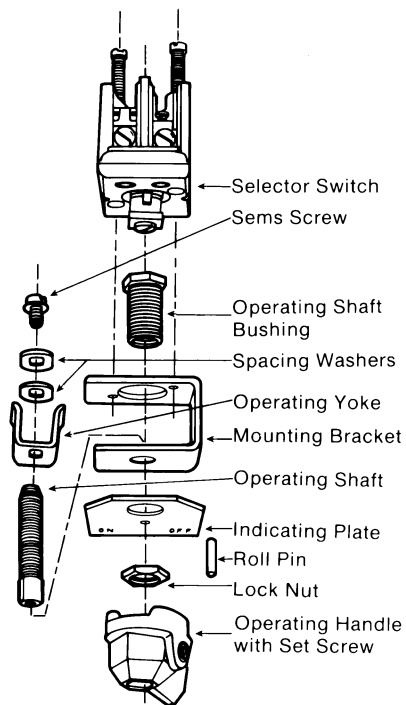
Be sure all power is turned OFF before and during installation and maintenance.

1. Disconnect locks on top and bottom and unscrew top and bottom enclosure covers.
2. Remove interior assembly for access to selector switch only if necessary. Follow instructions supplied with enclosure for proper disassembly procedure.
3. Disconnect wiring from selector switch to be replaced. Identify each wire for proper reassembly to replacement switch.

4. Remove selector switch assembly. See Figure 5.

- Loosen operating handle set screw, then remove operating handle, outer locknut, indicating plate, and roll pin.
- Loosen captive screws in selector switch, then remove switch from mounting bracket.
- Thread operating shaft into operating shaft bushing until tight by using wrench on milled handle end of shaft.
- Unthread operating shaft bushing from enclosure using operating yoke and remove assembly from inside of enclosure.
- Install EPC-RR selector switch following New Installation section of these instructions.

**Arrow Hart
(Old Style)**



- Loosen operating handle set screw, then remove operating handle, outer locknut, indicating plate, and roll pin.

NOTE: Bushing thread may be staked in place and removal will be difficult.

- Remove two (2) screws with lock washers that secure switch assembly to "L" shaped bracket.
- Remove operating shaft bushing through hole in "L" bracket, and from EPC enclosure housing.
- Install EPC-RR selector switch following New installation section of these instructions.

OR

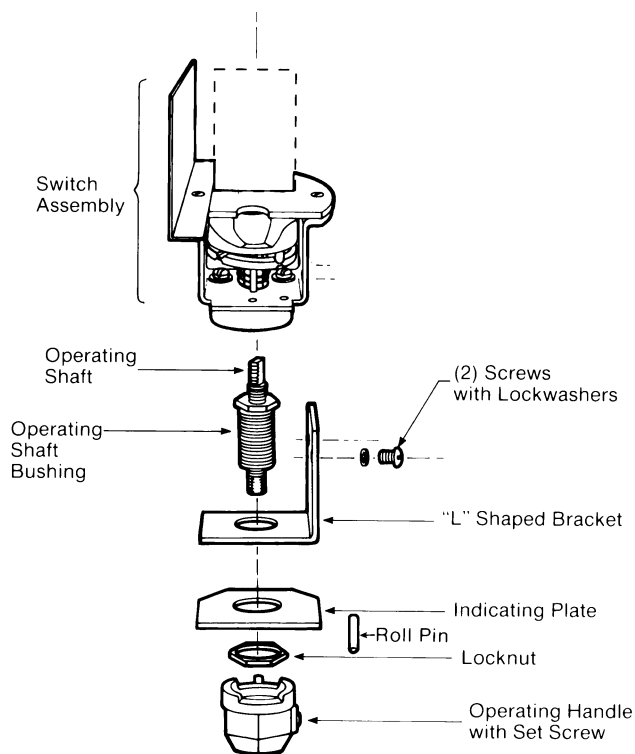


Figure 5.

MAINTENANCE

WARNING

Always disconnect primary power source before opening enclosure for inspection or service.

1. Frequent inspections should be made. A schedule for maintenance check should be determined by the environment and frequency of use. It is recommended that it should be at least once a year.
2. Perform visual, electrical, and mechanical checks on all components on a regular basis.
 - Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts, or leakage evidenced by water or corrosion in the interior.

- Electrically check to make sure that all connections are clean and tight, and that contacts in the components make or break as required.
- Mechanically check that all parts are properly assembled, and operating mechanisms move freely.

ELECTRICAL RATINGS

Selector Switch:	Heavy Duty 600 VAC Maximum NEMA A600
Pushbutton Station:	Heavy Duty 600 VAC Maximum NEMA A600

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.

COOPER

Crouse-Hinds

Quality from
Cooper Industries

Cooper Industries Inc.
Crouse-Hinds Division
PO Box 4999
Syracuse, New York 13221 • U.S.A.

IF1123
Revision 04/92

Copyright © 1992, Cooper Industries, Inc.