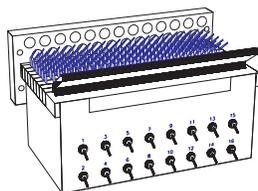




## CUTOVER BLOCK

MODEL 8070

16 CIRCUITS 4PDT



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## 1. GENERAL

**1.01** This practice provides application, specification, circuits and mechanical description, maintenance, installation, and warranty information relating to Accurate Electronics' Model 8070 Cutover Block.

**1.02** These cutover transfer switches are designed to be used as temporary switching devices in series with the transmission and/or control leads of telephone line or trunk circuits. Their use will facilitate the rapid transition of large numbers of circuits from one route to another during the cutover phase of a telephone office rearrangement; they are also arranged to transfer circuits one time at a time to permit pre-cutover testing of individual routes.

**1.03** Nominal operating voltage is 20 VAC MAX. Standard contact material is brass with gold overlay.

**1.04** Cutover transfer switches are constructed in modules convenient for mounting on conventional telephone distributing frames.

**1.05** Wire-Wrap terminals (0.045 sq x 0.70L) are provided as connecting points for circuits. Each terminal block is marked to identify the connecting lugs for each circuit and contact. When mounted horizontally the wire-wrap terminals are placed on the upper side; and to either side when mounted vertically.

**1.06** The base of each circuit acts as a fanning strip and is arranged with holes opposite each switch on the block to permit passage of jumper wires from the distributing frame, or rear side of the unit, to the terminals which are designed for wire-wrapping with 22 or 24 gauge jumper wire.

## 2. APPLICATION

**2.01** These blocks can be used in cutover, circuit transfer, and call diversion with operator controls.

## 3. OPERATION

### Pre-testing

**3.01** Prior to actual cutover, the individual switches may be operated separately, thus permitting the associated circuits to be tested for functional operation or transmission performance over the new route, and then to be restored to their former route until the scheduled time for the complete transfer of an entire circuit group.

### Cutover

**3.02** At the time of actual cutover, one or more of the switches of the entire block may be thrown as quickly as possible.

### Permanent Connections

**3.03** After the transfer of all the circuits in a group is completed, each circuit can now be connected directly to its new route with new jumper wires. Thereafter, the wires connecting it to the cutover switch are cut and removed. The switch may then be re-used for further phases of the cutover at a later date, or it may be removed for storage.

### Storage

**3.04** When no further need for the switches within a reasonable time period exists, they could be removed from the distributing frame and stored in suitable packaging with protective separators to shield them from dust and physical damage.

## 4. SPECIFICATIONS

### 4.01 Electrical

Number of Circuits:	16
Toggle Switches:	4PDT4 pole double throw
Input / Output terminals:	wire-wrap

### 4.02 Environmental

Operating Temperature:	0 - 55° C
Humidity:	up to 95% R.H. / no condensation

### 4.03 Physical

Terminals:	wire-wrap pins 0.050 x 0.040 x 0.800 length brass with plating of tin/lead over nickel underplate
Insulator Material:	insulator housing; polycarbonate 94 V-O
Flame Retardant:	thermoplastic (oxygen index os 35) (ASTM test method UL 94)
Dimensions:	8.000"W x 4.350"H x 5.092"D 20.320 cm W x 11.049 cm H x 12.934 cm D
Weight:	3.0 lbs. / 1.4 kg.
Finish:	black anodized / white lettering
Mounting Frame:	211AL - 8" MDF or IDF
Mounting Hole Configuration:	7.500"W x 1.375" H 19.050 cm W x 3.493 cm H

### Switches:

Contacts and Terminals:	brass with gold plate over nickel plate
Contact Rating:	0.4 Volt-Amps (VA) MAX, @ 20 V MAX, (AC or DC)
Electrical Life:	50,000 make-and-break cycles at full load

Contact Resistance: 10 m-ohms MAX., initial @ 2-4 VDC  
 100mA gold plated contacts  
 Insulation Resistance: 1,000 M-ohms MIN  
 Dielectrics Strength: 1,000 V RMS @ sea level  
 Operating Temperature: -30 deg C to 85 deg C

Case: melamine or diallyl phthalate (DAP)  
 Toggle Handle: brass, chrome plated  
 Bushing: brass, nickel plated  
 Housing: stainless steel

SHIP-WITH-KIT (SWK): four (4) 6/32 x 5/8 slotted screws  
 four (4) #6 hex nuts  
 four (4) # 6 flat washers

**5. FEATURES AND BENEFITS**

- mounts horizontally or vertically onto 211AL - 8" distribution frames
- easy front located switches
- standard Wire-Wrap terminal pins
- high density - compact design
- simple installation
- saves wiring, labor and floor space

**6. CIRCUIT DESCRIPTION**

**6.01** See FIGURE 1 and FIGURE 3.

**6.02** Each block is marked with circuit number designations, for switches and wire-wrap terminals.

**6.03** Both pole configurations are Form C (break before make) transfer type contacts.

**7. MECHANICAL OUTLINE**

**7.01** See FIGURE 2. This figure shows the terminal, layout and circuit terminal assignments for the block configuration.

**7.02** The sixteen (16) circuit unit is packaged on a 211AL-8" type terminal block.

**7.03** The block is designed to be mounted on the Main Distribution frame (MDF) or Intermediate Distribution frames (IDF). Mounting screws are included. Adapters are available to mount blocks to frames with different hole spacing. For adapters please contact Accurate Electronics Inc for further information.

Make sure switch is in desired position. (See circuit description and application drawings for switch positions.

**7.04** Switches are permanently mounted to the block to reduce the likelihood of failure due to shock or vibration.

**8. INSTALLATION**

**8.01** The SHIP-WITH-KIT (SWK); four (4) 6/32 x 5/8 slotted screws, four (4) hex nuts and four (4) #6 flat washers is furnished with each block to mount it firmly to the frame.

**8.02** Wrap jumper wires from the circuit to be switched or transferred to the lugs of the center post (F) or common element of the switch. Wires connected to the original (existing) circuit are wrapped on the first row "B" or "break" contacts and wires connected to the new circuit to be transferred to are wrapped to the third row (M) "make" contacts.

**9. MAINTENANCE**

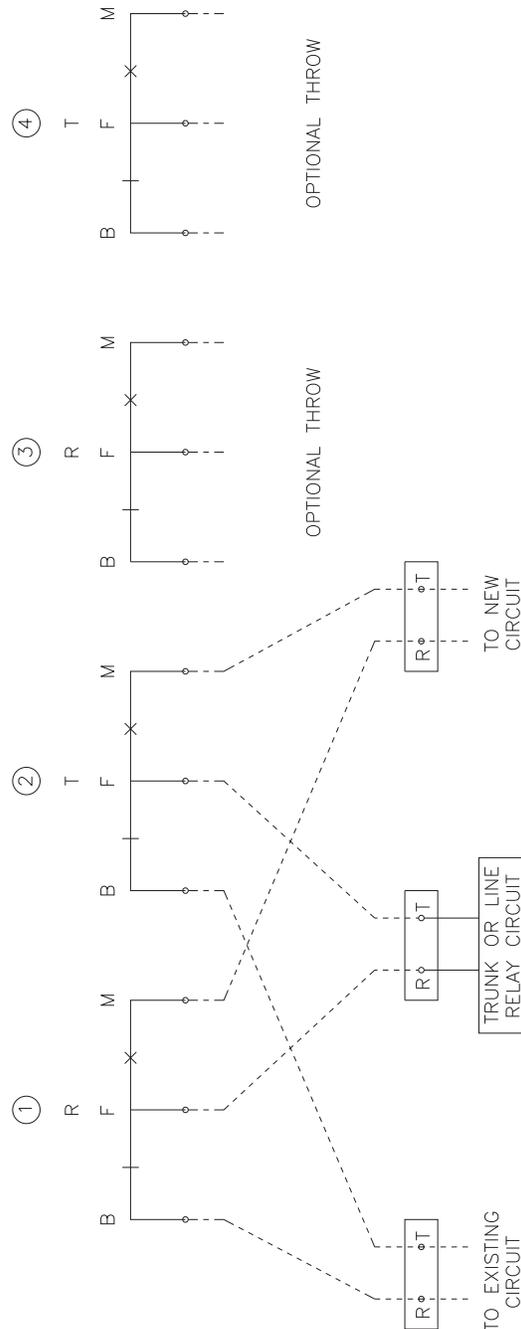
**9.01** No preventive maintenance is required. General care is recommended.

**10. WARRANTY**

**10.01** See WARRANTY in front of catalog.

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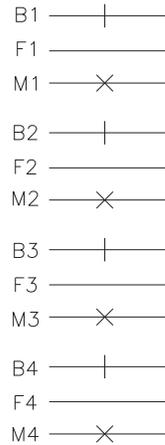
**FIGURE 3. CIRCUIT EXAMPLE**



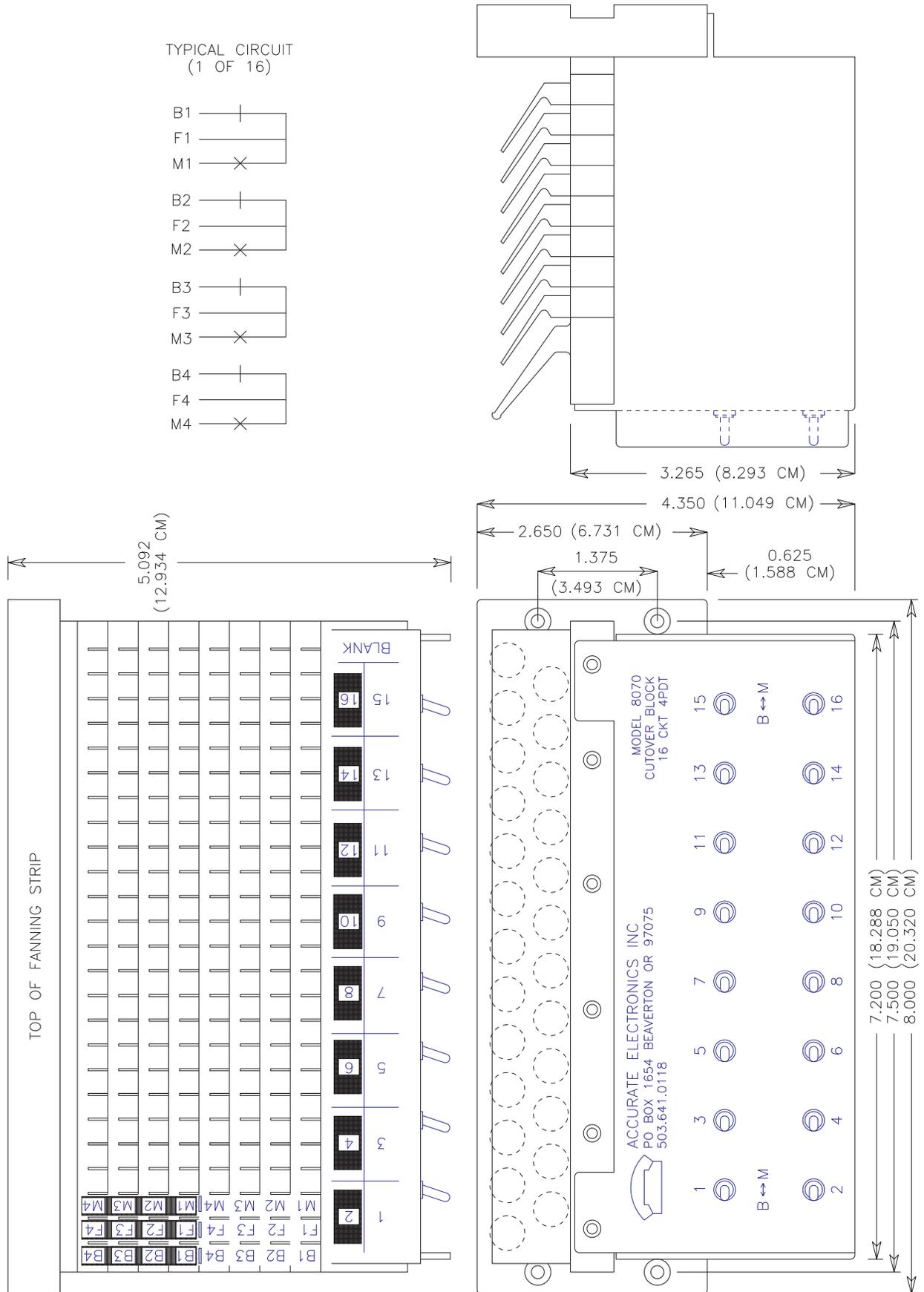
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**FIGURE 1. CIRCUIT DESCRIPTION**

TYPICAL CIRCUIT  
(1 OF 16)



**FIGURE 2. MECHANICAL OUTLINE**



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