

# MODEL: T7801BC

## SEVEN-DAY DIAL TIME SWITCH WITH SPRING WOUND CARRY-OVER MOTOR

TYPE 1 INDOOR USE ONLY - FOUR POLE; TWO NORMALLY OPEN-TWO NORMALLY CLOSED

MINIMUM "ON" TIME 3-1/2 HR. UP TO 3-1/2 DAILY ON-OFF OPERATIONS

40 A RESISTIVE EACH POLE 120-480 VAC; 40 A INDUCTIVE, TUNGSTEN EACH POLE 120/208/240 OR 277 VAC;

1000 VA PILOT DUTY EACH POLE 120-277 VAC; 2 HP (24 FLA, 144 LRA) - 120 VAC; 5 HP (28 FLA, 168 LRA) -240 VAC

16 A ELECTRONIC BALLAST, 277 VAC



UL  
HOLOGRAM  
LABEL

### ⚠ WARNING *Risk of Fire or Electric Shock*

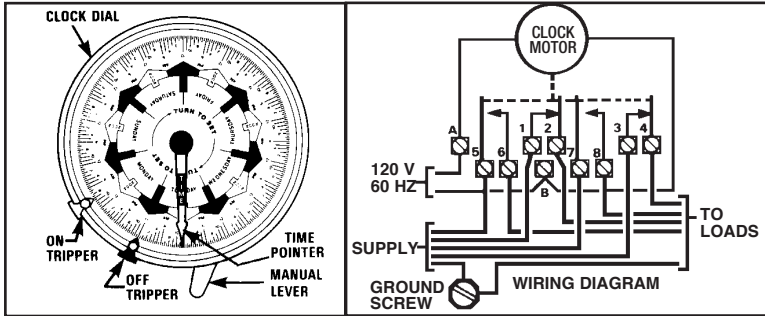
- Disconnect power at the circuit breaker(s) or disconnect switch(es) before installing or servicing.
- Installation and/or wiring must be in accordance with national and local electrical code requirements.
- Use wires rated at least 90°C - COPPER conductors ONLY.
- Replace plastic insulator covering terminals before powering ON.
- KEEP DOOR CLOSED AT ALL TIMES when not servicing.

### ⚠ AVERTISSEMENT *Risque d'incendie ou de choc électrique*

- Utiliser des fils classés 90 °C minimum - Conducteurs en CUIVRE UNIQUEMENT.

- NOTICE**
- Rotate timer dial clockwise only.
  - Do not move the clock hands on the timer. Moving the clock hands can damage the timer.

### CLOCK MOTOR: 120 VAC, 60 HZ.



### WIRING INSTRUCTIONS

This Time Switch can be wired to control one to four circuits simultaneously on a seven day schedule. Clock motor voltage may be other than load voltage, but must be as specified. For terminal markings, internal wiring and contact arrangements refer to wiring diagram above. To form the common poles of a DOUBLE POLE DOUBLE THROW switch, if required, install jumpers (extend supply wires) between terminals 1-6 and 3-8. See table for gauge selection. To make power connections Remove 1/2 inch of insulation from wire ends. Tighten terminal screws firmly (2-18 in-lbs). Use solid or stranded COPPER conductors only. May use two wires of the same size and type.

MINIMUM COPPER WIRE SIZE (AWG)	MAX. LOAD (AMP)	MIN. INSUL- ATION TEMP(°C)	75°C INSULATION MAX. MOTOR LOAD (HP)			
			SINGLE PHASE		3 PHASE	
			120 V.	240 V.	208 V.	240 V.
14	15	90	1/2	2	N/A	N/A
12	20	90	1	2 1/2	N/A	N/A
10	30	90	2	3	N/A	N/A
8	40	90	-	5	N/A	N/A

### PROGRAMMING INSTRUCTIONS

1. TO SET "ON" TIMES, place bright ON trippers against edge of CLOCK-DIAL at day-of-week and time-of-day when "ON" operations are desired. Tighten tripper screws securely.
2. TO SET "OFF" TIMES, place dark OFF trippers against edge of CLOCK-DIAL at times when "OFF" operations are desired. Tighten tripper screws securely.
3. TO SKIP DAYS, omit trippers for the day(s) automatic operations is/are not required.
4. TO SET DIAL TO TIME-OF-DAY, turn dial CLOCKWISE and align the exact day-of-week and time-of-day (AM or PM) on dial with the TIME POINTER. Some allowance may be required to compensate for gear backlash.  
**CAUTION: DO NOT MOVE POINTER OR FORCE DIAL COUNTERCLOCKWISE.**

### OPERATING INSTRUCTIONS

- TO OPERATE SWITCH MANUALLY: Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows. This will not affect next automatic operation.
- IN CASE OF POWER FAILURE OR TO ADVANCE/RETARD TIME: Reset time-of- day, see step 4 of programming instructions. For replacement parts contact Intermatic Customer Service or visit: [www.intermatic.com](http://www.intermatic.com)

**INTERMATIC INCORPORATED**

SPRING GROVE, ILLINOIS 60081-9698

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