

# MODEL: T104R201



## HYDRO-KING 2 CIRCUIT TIME SWITCH

IN TYPE 3R DUSTPROOF RAINPROOF ENCLOSURE, SUITABLE FOR POOL EQUIPMENT CONTROL IF INSTALLED 5 FT. OR MORE FROM EDGE OF POOL.

**FILTER CIRCUIT DOUBLE POLE SINGLE THROW (DPST)**

**40 AMP. RESISTIVE, PER POLE 120-480V. AC; 40 AMP INDUCTIVE OR TUNGSTEN OR 1000V.A. PILOT DUTY PER POLE 120-277V AC, 2 H.P. (24 FLA) - 120V. AC; 5 H.P. (28 FLA) - 240V. AC**

**HEATER CONTROL CIRCUIT: 10 AMP 250 VOLTS A C MAX**

**CLOCK MOTOR: 208-277V. 60 HZ.**

**CLOCK MOTOR VOLTAGE AND CYCLE MUST BE AS SPECIFIED. TO ORDER REPLACEMENT, INDICATE PART NO. (WG--) ON MOTOR COVER.**

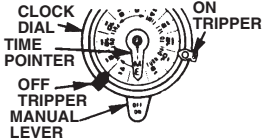
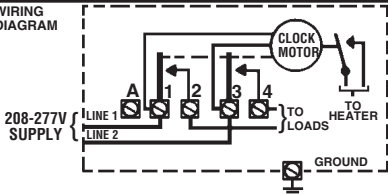


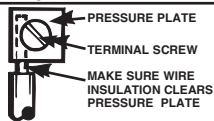
FIGURE 1

### WIRING DIAGRAM



**WIRING INSTRUCTIONS:** To wire switch follow diagram above. Use solid or strand COPPER only wire with insulation to suit installation. See gauge selection table for normal service applications. To make power connections remove 1/2 inch of insulation from wire ends. Insert bare ends of wire under the pressure plate of terminals. Use 3/16 or larger screwdriver to tighten terminal screws firmly. (25 lb-in minimum). **REPLACE INSULATOR BEFORE TURNING ON ELECTRICITY.**

| MINIMUM COPPER WIRE SIZE (AWG) | MAX. LOAD (AMP) | MIN. INSULATION TEMP (°C) | 75° INSULATION MAX. MOTOR LOAD (HP) |       |         |      |
|--------------------------------|-----------------|---------------------------|-------------------------------------|-------|---------|------|
|                                |                 |                           | SINGLE PHASE                        |       | 3 PHASE |      |
|                                |                 |                           | 120V                                | 240V  | 240V    | 240V |
| 14                             | 15              | 60                        | 1/2                                 | 2     | N/A     | N/A  |
| 12                             | 20              | 60                        | 1                                   | 2 1/2 | N/A     | N/A  |
| 10                             | 30              | 60                        | 2                                   | 3     | N/A     | N/A  |
| 8                              | 40              | 75                        |                                     | 5     | N/A     | N/A  |



## PROGRAMMING INSTRUCTIONS

- TO SET "ON" AND "OFF" TIMES:** Hold trippers against edge of **CLOCK-DIAL**, pointing to time (AM or PM) when **ON** and **OFF** operations are desired, tighten tripper screws firmly. For additional tripper pairs on **CLOCK-DIAL** order 156T1978A.
- TO SET TIME-OF-DAY:** Pull **CLOCK-DIAL** outward. Turn in either direction and align the exact time-of-day on the **CLOCK-DIAL** (time now, when switch is put into operation) to **TIME POINTER**. **DO NOT MOVE POINTER.**

## OPERATING INSTRUCTIONS

- TO OPERATE SWITCH MANUALLY:** Move **MANUAL LEVER** below **CLOCK-DIAL** left or right as indicated by arrows. This will not effect next operation.

**CAUTION:** You must turn heater off at least 15 minutes before manually turning off filter system.

- IN CASE OF POWER FAILURE,** reset **CLOCK-DIAL** to proper time-of-day. See programming instructions.

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