

# TORK<sup>®</sup>

## POOL/SPA PANEL

# PP-20R-P1

## Pool/Spa Control Panel with Time Switch

### In Rain Proof Enclosure With Reversible Door

Suitable for Swimming Pool/Spa Applications



One or more of the following patents apply: 6,827,230; 6,791,039. Other Patents Pending.

FOR SUPPLEMENTAL 120V APPLICATIONS. Reminder: Run Neutral Conductor When employing 120V Load Center

Panel Rating	INPUT 40A, 120V, 60Hz, Single Phase 2 Wire
	OUTPUT 40A, 120V, 60Hz, Single Phase 2 Wire, 3HP, 20A/120V Supplemental Load Center
Enclosure Rating	NEMA 3R Outdoor Enclosure
Time Switch Rating	DPST (2 NO Contacts); Auxiliary NC Contact; 40A Resistive/Inductive per pole, 3 HP (NO Contacts); 15A GP/Resistive @ 120V (NC Contact)

# WARNING

## PREVENT ELECTROCUTION

### DISCONNECT ALL SUPPLY CONNECTIONS BEFORE SERVICING.

### ! IMPORTANT SAFETY INSTRUCTIONS !

- ATTENTION: Read carefully before attempting to install this control. Failure to comply with instructions could result in personal injury and/or property damage!
- This control must be installed in accordance with National and local electrical code requirements. Use the wiring information table at right for proper wire gauge selection & screw tightening torque requirements.
  - Use the circuit breaker selection table below for list of suitable circuit breaker manufacturers for use in this panel. Follow manufacturers installation instructions. For GFCI circuit breakers, follow manufacturers test procedures. Circuit Breakers must have an AIC rating of 10,000 amps or greater.
  - Do not exceed the ratings of this device, and current capacity of conductors.
  - Install only **UL approved wiring devices** inside of panel. Follow device manufacturer's installation instructions.
  - This control should not operate any equipment which would cause bodily injury or property damage should it be activated unexpectedly. **KEEP FRONT COVER PANEL CLOSED AT ALL TIMES.**

### CONTROL PANEL MOUNTING

Secure control panel to suitable vertical surface or other support using the various mounting holes provided inside of enclosure.

### INSTALLATION & WIRING INSTRUCTIONS

Bonding between conduit connection is not automatic and must be provided as part of the installation. The enclosure must be properly grounded.

- To install time switch into control panel, insert bottom edge of mechanism into universal mounting plate. Push top front edge of mechanism down into the mounting plate. You will hear a click indicating that time switch is securely attached to the bracket.
- Use solid or stranded **COPPER** wire only. For Supply Connections, use conductors rated minimum 90 °C.

### INSTALLING WIRING DEVICES INTO INSIDE WIRING COMPARTMENTS

#### IMPORTANT! ATTACH WIRES TO DEVICES PRIOR TO INSERTING THEM INTO INSIDE WIRING COMPARTMENT

**WHILE-IN-USE INSIDE WIRING COMPARTMENT (IWC):** Allows installer/user to install time controlled receptacles which require a "While-In-Use" outdoor weatherproof cover.

#### TO INSTALL DEVICE:

- Loosen captive screw at base of Inside Wiring Compartment(IWC).
- Fold out IWC to gain access to rear side.
- Open Lever Arm.
- Remove appropriate KO for device being installed. Insert bottom mounting bracket of wiring device into base of IWC.
- Close Lever Arm to lock devices into IWC.
- Fold IWC back into control panel and secure captive screw.  
IWC accepts (2) wiring devices.

#### WIRING 1/2 CIRCUIT LOAD CENTER FOR 120V SUPPLEMENTAL POWER:

Suitable breakers for the load center: Cutler Hammer (BR1xx, BRxx-xx & GFCB) or GE (THQL1xx, THQP2xx & THQLxxGFP) or Murray/Siemens (Type MP; MP1xx, Type MH-T; MPxx-xx & Type MP; MP1xxGF) or Square D Homeline (HOM1xx, HOMTxx-xxCP, HOMxxGFCI).

**WARNING:** To avoid accidental contact with live parts, close all openings with breakers or appropriate filler plates.

### TIME SWITCH OPERATING INSTRUCTIONS

- To set time: Rotate clock face in a clockwise direction until proper time is lined up with the black arrow.
- To set "ON" & "OFF" times: Push appropriate trippers IN (towards center of clock) for OFF and OUT (Away from center of clock) for ON.
- Modes of operation: (Using 3 position black rocker switch)
  - TIMER/Auto: Automatic operation according to ON/OFF settings
  - OFF/Standby: Load stays OFF
  - ON: Load stays ON

### WIRING INFORMATION - COPPER CONDUCTORS

Wire Range Data		Lug Tightening Torque (LB-IN)		Wire Ampacity			
CONNECTOR	Sol./Str.	Wire Size	Torque	Wire Size	90 C	120V	240V
Line Lug	2-14	10-14	32-35	14	25	1/2	2
				12	30	1	3
Neutral Lug	4-12	8	36-40	10	40	3	5
Equipment Ground	4-12			8	55	2	7.5
Bonding Lug	4-12	4-6	41-45	6	75	-	-
				4	95	-	-

### WIRING DIAGRAMS

