

TORK[®]

POOL/SPA PANEL

PP-20R

Pool/Spa Control Panel In Rain Proof Enclosure With Reversible Door



Distribution/Control Panel with provisions for installing Time Switch mechanisms for automatic control of various electrical loads. Accepts 120V & 240V Time Switches.

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, 120/240V, 60Hz, Single Phase 3 Wire
	OUTPUT	40A, 120/240V, 60Hz, Single Phase, 3HP@120V or 7.5HP@240V, 20A/120V Supplemental Load Center
Enclosure Rating	NEMA 3R Outdoor Enclosure	
Suitable Time Switch Mechanisms	TORK: 1100 SERIES, P1100 SERIES, PEW100 Series (For 1100 series models use adapter part IAP, sold separately)	

⚠ 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 Time Switch mechanisms**. Follow manufacturers installation & operating instructions.
 - 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. For Tork 1100 series time switches use adapter plate (part#IAP, sold separately).
- To wire switch follow the wiring diagram provided by the time switch manufacturer.
- 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:

Select circuit breaker from CIRCUIT BREAKER SELECTION TABLE at right and install into Load Center. Follow wiring diagram.

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

CIRCUIT BREAKER SELECTION TABLE			
MANUFACTURER	CIRCUIT BREAKER TYPE (xxx=circuit breaker amp rating)		
	1"	1 1/2"	1"
	1 Pole (Single Pole)	Duplex (2) Single Pole	GFCB (Single Pole)
CUTLER HAMMER	BR1xx	BRxxx	GFCB
GE	THQ1xx	THQP2xx	THQ1xxGFP
MURRAY/SIEMENS	Type MP MP1xx	Type MH-T MPxxx	Type MP MP1xxGF
SQUARE D HOMELINE	HOM1xx	HOM1xxCP	HOMxxGFC

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

OVERCURRENT PROTECTION (C/B Tripping): If breaker trips, handle will be in the intermediate position. To restore service:
1. Move handle to OFF position. 2. Then to ON position.

WIRING DIAGRAMS

