http://waterheatertimer.org/Intermatic-control-centers-and-manuals.html

MODEL: T10404R

CONTROL PANEL WITH TWO TIME SWITCHES

LR3730
UL508
UL1563
NEC680

IN RAINPROOF (TYPE 3R) ENCLOSURE FOR INDOOR OUTDOOR USE

SUITABLE FOR SWIMMING POOL/SPA APPLICATIONS AND FOR DIRECT CONNECTION OF UNDERWATER LIGHTS.
92 AMP PER LEG, 168 AMP MAX., 120/240 VOLT OR 120/208 VOLT SINGLE PHASE, (THREE WIRE) AC.

IMPORTANT: This Control Panel must be installed according to the National Electrical Code (including Article 680) or Canadian Electrical Code (including Section 68) and Local Electrical Codes. This installation is subject to the approval by the local inspection authority. USE COPPER CONDUCTORS ONLY. Do not exceed the maximum ratings of individual components, wiring devices, and current carrying capacity of conductors. If heater protection is required, install FIREMAN SWITCH kit (156T4042A may be ordered). For grounding of the installation, refer to Article 250 and 680 of the National Electrical Code. (For Canadian Installations: Section 10 and 68 of the Canadian Electrical Code). Install only APPROVED wiring device(s) inside the enclosure. An APPROVED wiring device may be installed in the rectangular side knockout provided. When panel is outdoors, an APPROVED rainproof cover must be installed over the wiring device in the side knockout. If this enclosure is used for direct connection of underwater lights, refer to 1999 NEC 680-21(b), 2002 NEC 680-24(b) or CEC 68-060, 062 and 066 for further details. This Control should not be connected to any equipment which would cause bodily injury or property damage should it be activated unexpectedly. After wiring, install front panel over wiring compartment. ***KEEP DOOR CLOSED AT ALL TIMES***.

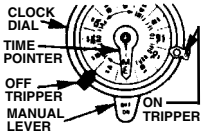
NOTES:
1. Any Intermatic T100M or ET100CM series Time Switch, P1353ME 3 Circuit Control, PF1000M Series Freeze Protection or RC2000M Series Air Switch Mechanism may be installed in the bracket provided or in the event an existing mechanism is replaced.
2. If this control panel requires bonding, attach an APPROVED bonding terminal of a suitable size using the mounting hole(s) provided on the bottom of the enclosure (156T11047A may be ordered).
3. Wiring devices may be installed in this control panel (order 21T156A (4) Standoffs for mounting).

WIRING INFORMATION - COPPER CONDUCTORS ONLY

WIRE SIZE 75˚C MIN INSULATION	TERMINAL TORQUE	MAX MOTOR LOAD (CONTINUOUS DUTY)		GENERAL PURPOSE BRANCH CIRCUIT BREAKER RATING	GENERAL PURPOSE BRANCH CIRCUIT MAXIMUM CURRENT CAPACITY
		120V.	240V.		
AWG	LB-IN	HP	HP	AMP	AMP
14	20	1/2	1	15	12
12	20	1	2	20	16
10	20	1 1/2	3	30	24
8	25	2	5	40	32

TIME SWITCH RATINGS:
DOUBLE POLE SINGLE THROW (DPST)
30 AMP, RESISTIVE, INDUCTIVE, TUNGSTEN
OR 1000 VA PILOT DUTY-120/208/240 VAC
2 HP (24 FLA)-120 VAC, 5 HP (28 FLA)-240 VAC
CLOCK MOTOR:208/277 VOLTS - 60 HZ.
(TO ORDER CLOCK MOTOR REPLACEMENT,SPECIFY PART NO. WG--ON MOTOR COVER)

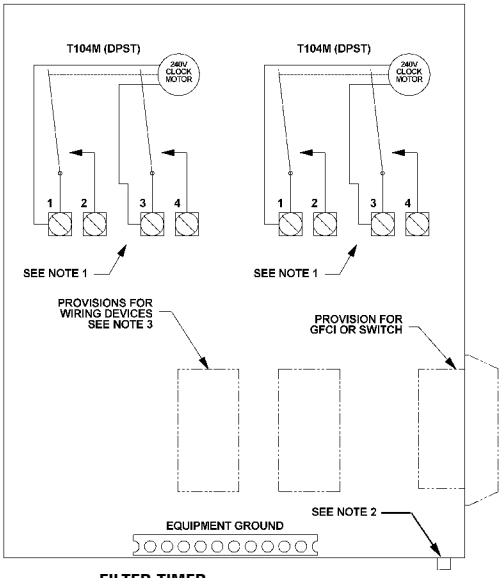
TIME SWITCH OPERATING INSTRUCTIONS



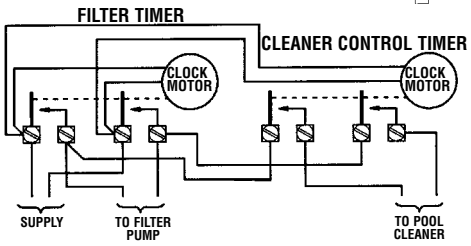
1. TO SET "ON" AND "OFF" TIMES: Hold TRIPPERS against edge of CLOCK-DIAL, pointing to time (AM or PM) when ON and OFF operations are desired. Tighten tripper screws firmly. **2. TO SET TIME-OF-DAY:** Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the **POINTER.**

—— DO NOT MOVE POINTER ——

- **TO OPERATE SWITCH MANUALLY:** Move MANUAL LEVER below CLOCK-DIAL left or right as indicated by arrows, This will not affect next operation.
- **FOR MORE THAN ONE DAILY ON-OFF OPERATION:** Place additional tripper pairs on CLOCK-DIAL (order 156T1978A).
- **IN CASE OF POWER FAILURE,** reset CLOCK-DIAL to proper time-of-day. See step 2 above.



WIRING DIAGRAM AND INSTRUCTIONS FOR INTERCONNECTING TIME SWITCHES WHEN USED AS SWIMMING POOL EQUIPMENT CONTROL
1. Disconnect the clock motor leads of the CLEANER CONTROL TIMER.
2. Connect 240 volt supply and the clock motor leads of the CLEANER CONTROL TIMER to terminals #1 and #3 of the FILTER TIMER.
3. Connect terminals #2 and #4 of Filter Timer to terminals #1 and #3 of the Cleaner Control Timer (using short jumpers).
4. Connect 240 volt load of cleaner pump to terminals #2 and #4 of CLEANER CONTROL TIMER.



INTERMATIC INCORPORATED
SPRING GROVE, ILLINOIS 60081-9698
158TP10864

Mechanical Controls

T10000R

T10004R

T10404R

T10000R Series

Pool/Spa Control Centers

The T10000R Series Control Centers feature an all-weather enclosure and contain one or two heavy-duty timer mechanisms. In addition, they have provision to install switches or GFCI receptacle on the side and additional switches inside. The enclosure accepts any combinations of P1353ME or P4243ME or T100M or RC2000M or PF1000M Series mechanisms.

Applications:

- Filter Pumps/Booster Pump Combinations
- Filter Pump/Light Controls
- Pool/Spa Combinations
- Landscape or HID Lighting
- Signs

Specifications:

Enclosure: 0.048 in. steel with electrostatically applied light beige finish
12 in. (30.5 cm) H x 12 in. (30.5 cm) W x 4¼ in. (10.8 cm) D
Knockouts: Five combination ½ – ¾ in. and two combination ¾ – 1 in. knockouts on the bottom. One combination ½ – ¾ in. on the left side and one combination ¾ – 1 in. on the back. One knockout 1¾ x 2¾ in. on the right side for mounting switches or GFCI
Center Rating: 92 Amp per leg, 168 Amp Max. 120-240 VAC or 120-208 VAC single phase, 60 Hz
Time Switch Rating: 30 Amp Resistive/Inductive, Tungsten or 1000 VA Pilot Duty each pole 120, 208, 240 VAC; 2 HP (24 FLA), 120 VAC; 5 HP (28 FLA), 240 VAC
Shipping Weight: See Table
Agency Approval: CSA/C-US

Model #	Description/ Mechanism	Switch	Clock Supply Volts AC, 60 Hz	Shipping Weight
T10000R	Enclosure Only	None	NA/NA	9.3 lbs (4.2 kg)
T10004R	One T104M	NA/DPST	NA/240	10.5 lbs (4.7 kg)
T10101R	Two T101M	SPST/SPST	120/120	11.0 lbs (5.0 kg)
T10404R	Two T104M	DPST/DPST	240/240	11.0 lbs (5.0 kg)
T10604R*	T106M & T104M	SPDT/DPST	240/240	11.0 lbs (5.0 kg)
T12404R**	T104M201 & T104M	DPST/DPST	240/240	11.0 lbs (5.0 kg)

* *For 2 Speed Pump Applications.*
** *The heater protection switch (fireman switch) is closed when the time switch contacts are open to allow remote operation of the heater. A flow or pressure switch must always be part of the heater control circuit.*
For additional trippers (1 ON 1 OFF per pack), order No. 156T1978A.
For additional OFF trippers (25 OFF per pack), order No. PA115.
For stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.
Note: See page 130 for a detailed list of replacement mechanisms.