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INSTALLATION INSTRUCTIONS: TC151-12 AND TC151-12TP POWER CONSOLES

THIS INSTRUCTION SHEET COVERS THE INSTALLATION OF THE FOLLOWING HADCO POWER CONSOLES: TC151-12 and TC151-12TP.
READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING THIS UNIT.

MOUNTING

1. Mount the power console box to a solid surface, utilizing the keyhole slots in the mounting bracket. THE POWER CONSOLE MUST BE MOUNTED AT LEAST ONE FOOT ABOVE GROUND LEVEL WITH THE WIRE TERMINALS FACING DOWN.
2. Strip approximately 3/8 - 1/2" of the insulation off of each wire on the low voltage cable.
3. Push the bare wires under the terminal screws on the terminal block and tighten the screws securely (See fig. 1).
4. Plug power supply cord into standard 115/120 volt electrical outlet. NOTE: HADCO recommends the power supply cord be plugged into an electrical outlet (weather tight if mounted outside) equipped with a Ground Fault Interrupter (GFI) receptacle marked for Wet Location.
5. HADCO recommends ordering our Underground Low Voltage Cable SCW100-12, SCW500-12, or SCW500-10 to be used with the Power Consoles. NOTE: Any secondary wire not marked suitable for direct burial should be buried less than 6" in the ground.

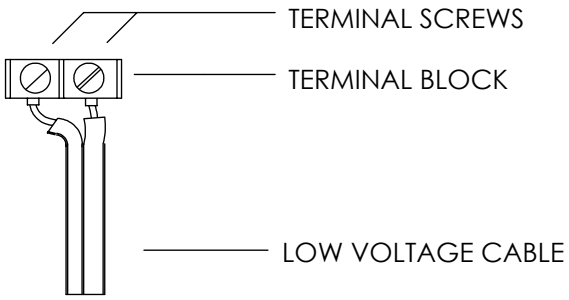
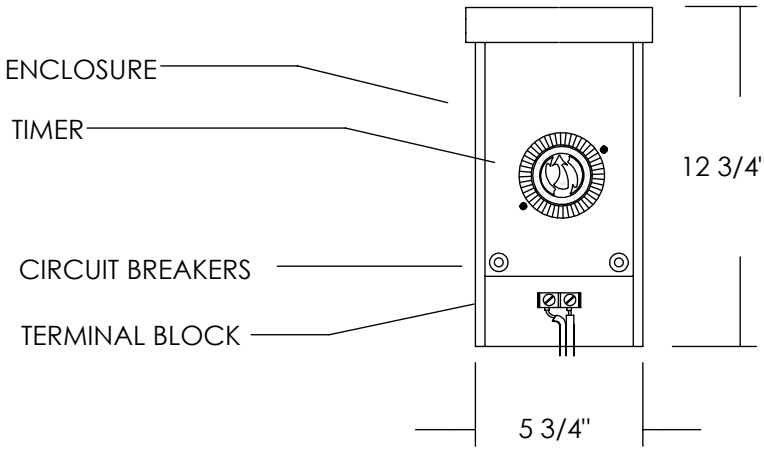


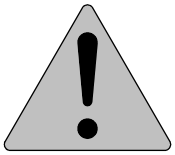
FIG. 1



(TC151-12TP shown)

THERMAL PROTECTION

This unit is thermally protected and will automatically shutdown when overheated. If the total lamp wattage on the circuit exceeds the rated wattage of the power console, reduce the wattage by using lower wattage lamps in the fixtures or reduce the number of fixtures on the circuit.
EXAMPLE: If you have a 150VA power console and 27-1/2 watt lamps in the fixtures, do not exceed 5 fixtures per transformer. If the unit continues to cycle on and off, have it inspected by a qualified electrician.



This fixture is intended for installation in accordance with the National Electrical Code and local code specifications. Failure to adhere to these codes and instructions may result in serious injury and/or damage to the ballast and void the warranty. These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency related to installation, operation, maintenance, or mounting situation. Should specific problems occur that are not addressed by these instructions, contact your Sales Representative or distributor for assistance. Retain these instructions for future reference.

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LOW VOLTAGE CIRCUIT BREAKERS (RESETTABLE PUSH BUTTON TYPE.)

1. The circuit breaker will trip if there is a short circuit, or if the total lamp wattage exceeds the rated wattage per circuit.
2. To reset breaker - push the handle to the "1" position.
3. If breaker trips again, check for an overload or a short circuit.

NOTE: If less than minimum load, cable length can be calculated by dividing cable constant by total watts and multiplying by 2.

Cable constant for:
12GA - Single 7500
10GA - Single 11920

24 HOUR TIME CLOCK OPERATING INSTRUCTIONS (TC151-12TP only.)

1. Control of ON/OFF/ACCESSORY switch located on bottom panel of power console.
   A) ON position - turns system on manually, overriding the automatic timer.
   B) OFF position - turns system off manually, overriding the automatic timer.
   C) Accessory - activates the automatic timer. NOTE: The use of the ON/OFF switch will not affect the timer settings. The clock will continue to keep time regardless of swith position.
2. Control of Time Clock
   A) Push trippers toward center of clock face, exposing colored band to set desired "ON" time. All trippers between the desired "ON" time and the desired "OFF" time must be pushed in.
   EXAMPLE: To have the fixture illuminate at 7PM and turn off at 5AM. Locate the 7PM tripper and push it in. Moving in a COUNTERCLOCKWISE rotation, push in all the trippers until you reach 5AM.
   B) Set current time by rotating clock dial clockwise until correct time on dial lines up with timer arrow. (See Fig. 2)

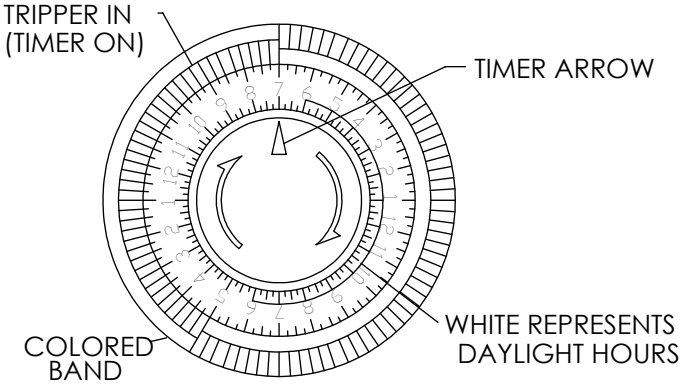


Fig. 2

HARD WIRE INSTALLATION (OPTIONAL)

1. Make sure power is off and power console is NOT plugged into an electrical outlet.
2. Open front cover of console case by removing top center screw and tilting cover plate forward. (Cover plate is hinged at bottom.)
3. Disconnect the power supply cord (solid lines from plug) and reconnect the wires from the conduit (dotted lines from conduit) as shown in Fig. 3. Conduit to be attached through one of the four 7/8" knockouts located on either side of the console. Seal connection with waterproof sealant or silicone. CAUTION: WIRING MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODES.
4. Close front cover and replace screw. Set time clock per instructions above.
5. Replace lid and secure. Turn power on.

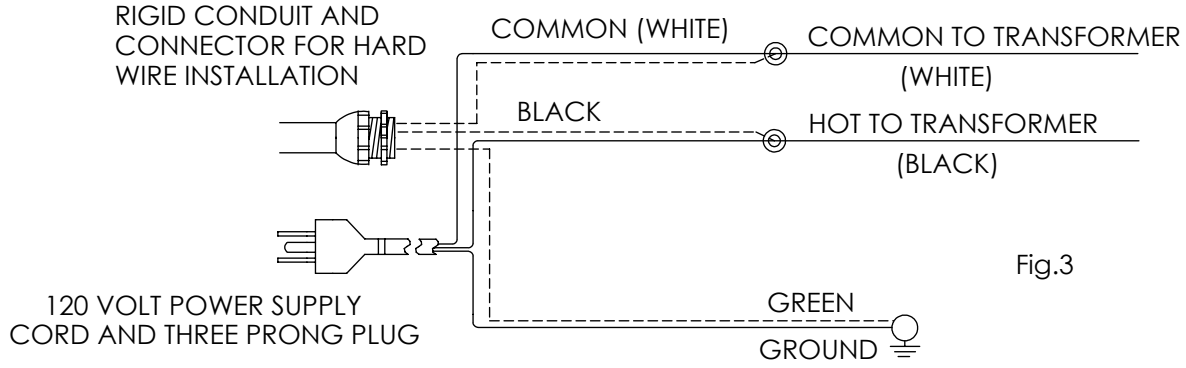
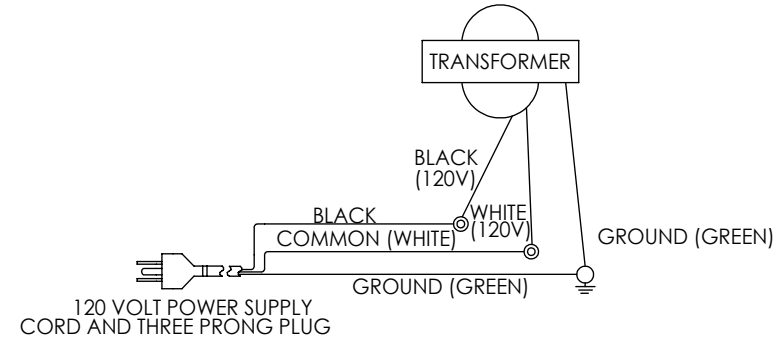


Fig.3

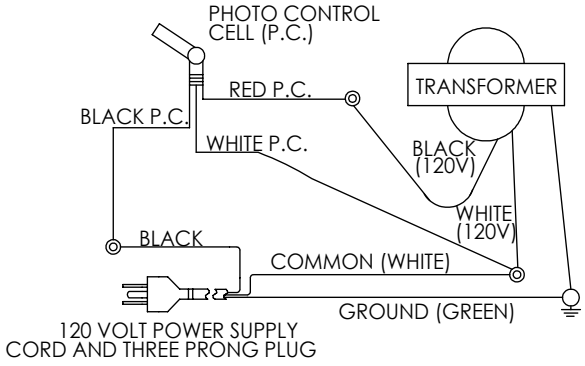
PHOTO CONTROL INSTALLATION | (OPTIONAL) Refer to Fig. 4.

1. Make sure power is off and power console is NOT plugged into an electrical outlet.
2. Open front cover of console case by removing top center screw and tilting cover plate forward. (Cover plate is hinged at bottom.)
3. Remove one of the 7/8" diameter knockouts in the sides of the power console and install the photo control. NOTE: If the photo control is to be remote mounted, HADCO recommends the use of rigid conduit to connect the photo control to the power console.
4. Locate the photo control so that no artificial light will shine on the cell; it will cause the photo control to cycle on and off.
5. Cut out wire connector on the end of the black supply wire.
6. Strip ends of wires to make new connections.
7. Connect the black supply wire and the black photo control (P.C.) wire using a new wire connector.
8. Connect the black wire (120V) from the transformer to the red P.C. wire using a new wire connector.
9. Cut out wire connector on the end of the white supply wire.
10. Strip ends of wires to make new connections.
11. Connect the white P.C. wire to the white supply wire and all other wires originally connected to the white supply wire using a new wire connector.
12. Make sure all wire connections are tight. Electrical tape over new connections is recommended.
13. Make sure there are no loose wires left in box.
14. Close front cover and replace screw. Set time clock per instructions above.
15. Replace lid and secure. Turn on power.



WIRING BEFORE PHOTO CONTROL INSTALLATION

Fig. 4



WIRING AFTER PHOTO CONTROL INSTALLATION