

INSTALLING YOUR TRANSFORMER

1. Mount the transformer to a solid surface using a keyhole slots in the mounting bracket. (NOTE: the transformer must be mounted at least one foot above ground level with the wire terminals facing down.)
2. Split the 12/2 or 10/2 low voltage Ambiance landscape cable approximately 3" and strip 1/2" insulation off each wire. Low voltage cable is heavy black cable to which all 12 volt low voltage lighting fixtures will be connected.
3. Push one bare wire under the terminal screw marked COM on the terminal block and tighten screw. Push the other bare wire under the appropriate voltage terminal screw (see below) on terminal block and tighten screw.

A) 12 volt position

- 1) When the fixture lamp wattage load is less than 40% of the rating of the transformer.
- 2) When less than 60' of cable is used

B) 13 volt position

- 1) When the fixture lamp wattage load is between 40% and 80% of the rating of the transformer.
- 2) When 60' and 100' of cable is used.

C) 14 volt position

- 1) When the fixture lamp wattage load is between 80% and 100% of the rating of the transformer.
- 2) When 90' to 200' of cable used

NOTE: Different voltages (multiple cables) can be used at the same item. The total lamp wattage on the circuit cannot exceed the rated wattage of the transformer. One wire of each cable must be connected to the common (COM) terminal.

4. Plug the power supply cord into standard 115/120 volt electrical outlet.

NOTE: The power supply cord must be plugged into a weather tight electrical outlet equipped with a ground fault interrupter (GFI) receptacle.

NOTE: 600 watt transformers have two-300 watt circuits. This means that there are two-12V terminals and two-COM terminals. Each circuit cannot exceed 300 watts. 900 watt transformers have three 300 watt circuits.

* OPERATING NOTE *

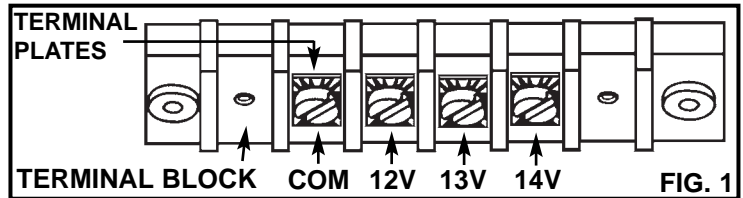
WHEN USING THIS TRANSFORMER TO SUPPLY POWER TO FIXTURES WITH TUNGSTEN HALOGEN LAMPS, SET THE VOLTAGE TAP SO THE VOLTAGE AT THE LAMPS IS BETWEEN 11.5V AND 12.5V, OTHERWISE LAMP LIFE MAYBE SIGNIFICANTLY DECREASED.

1. TIMER ON TIMER OFF:

- A. Push in all trippers on dial between desired "ON" time.
- B. Turn dial clockwise until time arrow is pointing at correct time of day.

2. AUTOMATIC CONTROL WITH PHOTOCELL:

- A. Remove protective cover when supplied.
- B. To control lights, set the timer to turn on before dark and the photocell will activate the lights when it gets dark. Lights can be turned off by the timer at a pre-set time, or push in all trippers and photocell will turn off lights at dawn.



NOTE: PHOTOCONTROL HAS A DELAY OF UP TO TWO MINUTES.

Use of other manufacturers components will void warranty, U.L. listing and create a potential safety hazard.

ELECTRICAL PROTECTION

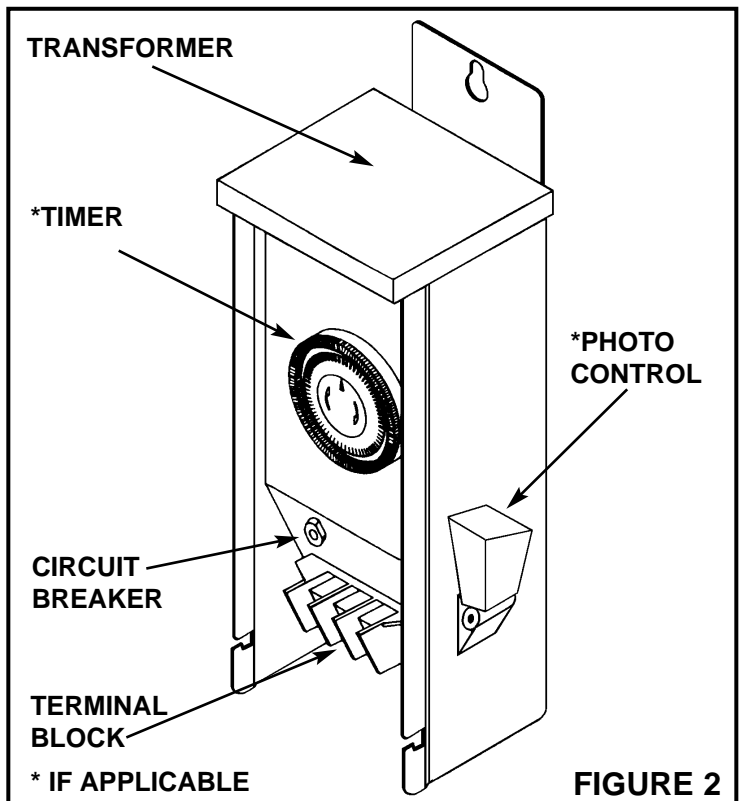
This unit contains dual circuit protection. The primary or 120 volt side of the transformer is thermally protected and will automatically shut off when overheated. If the secondary, (or 12 volt) side is overloaded the circuit breaker on the front of the transformer will trip. To reset the circuit breaker, just depress the circuit breaker reset button. If there is a short circuit on the low voltage side, the circuit breaker will trip. If the total lamp wattage on the circuit exceeds the rated wattage of the transformer, reduce the wattage by lowering the lamp wattage or reduce the number of fixtures on the circuit. If the unit continues to cycle on and off, have the system inspected by a qualified electrician.

CAUTION: To avoid risk of fire, **DO NOT** exceed these limits.

1. 12/2 Ambiance cable is suitable for 12V only, for 250W max. 10/2 Ambiance cable has a 300w max. per run.
2. Wattage load must be minimum of 50% of transformer capacity; for example, 300W transformer must have minimum 150W load, for optimum and safe lamp operation.
3. Landscape transformers are for exterior use only, not for use inside buildings

WARNING:

1. **DO NOT** install transformer or lighting fixtures within 10ft of a pool, spa or fountain.
2. **DO NOT** use extension cord.
3. Low voltage cable is intended for shallow burial. **DO NOT** bury it more than 6 inches deep.
4. **DO NOT** nail or screw through cable to attach to a surface.



Quick Connect Optional Photo Control & Optional Timer Installation HC-593

INSTALLING THE PHOTOCONTROL

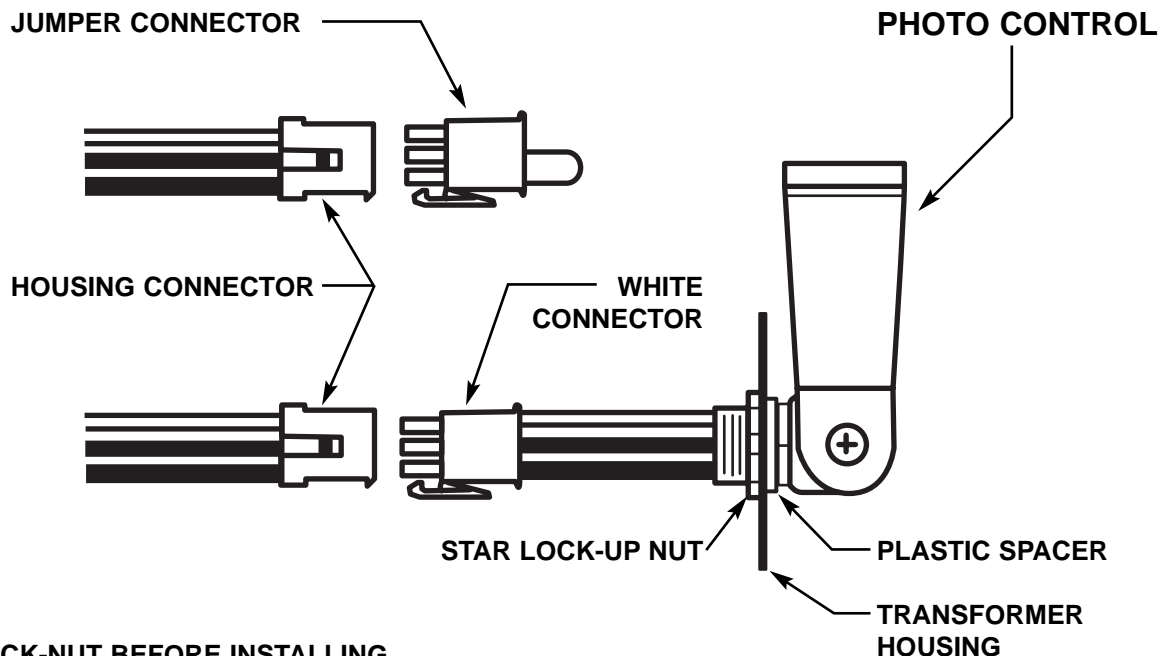
Caution: It is recommended that a photo control be installed by a licensed electrician.

1. Make sure power is off and transformer is NOT plugged into an electrical outlet. NOTE: No splice or wiring is required if transformer is equipped with jumper connector.
2. Open front cover of the transformer case by lifting the cover up. Locate and remove the two (2) side cover screws and tilt the inside to expose the interior wiring compartment.
3. Locate and disconnect the white jumper connector inside the housing. *Save the jumper connector with these instructions for possible future use.
4. Remove one (1) of the 7/8" diameter knockouts on the side of the transformer and push the photo control white connector through the knockout hole. Inside the housing, slide the spacer and star nut over the white connector and thread it on to the photo control and tighten.
5. Plug photo control white connector into the housing connector. Insure that the side latch locks the connectors. Arrange wires carefully inside the housing. Push the front cover back into position and secure with (2) screws provided. Replace lid and secure. Turn on power.
6. Locate transformer and position photo control so that no artificial light will cause the photo control to cycle on and off.

*In the unlikely event that the photo control should fail, the lighting fixtures will remain on, even in the daytime. If this should happen, follow these instructions and remove the defective photo control and place the jumper connector in its place. Contact your local Distributor to order replacement photo control.

INSTALLATION OF 24 HOUR TIME CLOCK

1. Open the front cover of the Transformer.
2. Unplug the cord from the receptacle.
3. Plug the cord into the 24 hour time clock.
4. Plug the 24 hour time clock into the Transformer Receptacle.
5. Set the time on the 24 hour time clock per the instructions provided with the time clock



NOTE:
REMOVE STAR LOCK-NUT BEFORE INSTALLING.