

This instruction sheet covers the installation of the following Kichler® Transformers: 15516-BK/SS. Read these instructions carefully before installing this unit.

INSTALL AND MAINTAIN TO MEET APPLICABLE CODES

- This power supply is for use with landscape lighting systems only.
- Do not submerge transformer.
- This device is accepted as a component of a landscape lighting system where the suitability of the combination shall be determined by CSA or local authorities having jurisdiction. To comply with CSA requirement, this fixture should be installed by a qualified electrician.
Au Canada. Pour être en accord avec IES 1015 CSA. Ce luminaire doit être installé par un électricien qualifié.
- **WARNING:** Risk of electric shock, use only with low voltage landscape fixtures and accessories. Also suitable for use with submersible (fountain) lighting fixtures. DO NOT use with swimming pool or spa lighting fixtures.
- Do not connect two or more power supplies in parallel.
- For use with fountains covered by Article 680 Part E of the National Electrical Code, NFPA 70.
- For outdoor use only.
- National Electrical Code requires that wiring where concealed or extended through a building wall must be enclosed in conduit.
- Transformer should be mounted close to power supply. Extension cords should not be used with this unit.
- This outdoor power unit shall be connected to a 115/120 volt covered GFCI receptacle marked "Wet Location" while in use.
- Mount the rain-tight transformer at least one foot above ground level with the wire terminals facing down. **NOTE:** Do not energize transformer until installation of system is complete.
- The 12GA, 10 GA and 8 GA cable is intended for shallow burial. DO NOT bury deeper than 6 inches (152 mm) below the surface. **NOTE:** If more cable is needed, contact your local Kichler® Landscape distributor. 12GA cable can be purchased in lengths of 75'/22M (15500-BK), 100'/30M (15501BK), 250'/76M (15502BK), 500'/152 (15505BK), and 1000'/304M (15506BK). (15505BK), and 1000'/304M (15506BK). 10 GA cable in lengths of 250'/76m (15504-BK); 8 GA cable in lengths of 250'/76M (15503-BK).
- Finding Transformer Load: Low voltage systems require the use of a transformer to reduce standard 120-VOLT power from your home to 12-VOLTS. To determine the transformer size you will need, add up the wattages of all lamps you plan to use. Select a transformer that matches as closely as possible to the total lamp wattage. For example, if you have 11 fixtures all rated at 24.4 watts, you will need a 300 watt (VA) transformer (11 x 24.4 = 268.4 watts). Generally, the total lamp load should not be less than one-third the transformers wattage rating, nor exceed its maximum wattage capacity. If your total wattage is too high, either divide the load between two transformers, or use a more powerful transformer.

INSTALLATION INSTRUCTIONS

- 1) Determine desired location for mounting transformer. **NOTE:** When deciding location for mounting consideration should be taken for the requirements listed above.
- 2) Mark position of top portion of the keyhole slot location at top of transformer and the slot located at bottom.
- 3) If mounting to a solid surface such as wood, siding, etc;
 - A) Drill 1/8" diameter pilot holes at positions marked in Step 2.
 - B) Drive screws approximately half way into holes.
 If mounting to drywall:
 - A) Drill 1/4" diameter holes at positions marked in Step 2.
 - B) Push plastic anchors into holes and tap until flush.
 - C) Drive screws approximately half-way into plastic anchors.
- 4) Slip large portion of keyhole over head of top screw and allow transformer to slide down, making sure bottom slot is behind head of bottom screw.
- 5) Tighten screws until transformer is secure.
- 6) Split 12/2, 10/2, or 8/2 cable approximately 3", and strip 1/2" insulation off each wire. 12/2, 10/2, and 8/2 cable is the heavy black cable which all Kichler® 12-volt low voltage lighting fixtures will be connected. (Reference above for description and part numbers).
- 7) Push one bare wire in each of the holes on the bottom side of the terminal block and tighten screws on the face of the terminal block until wires are secure.
- 8) Plug power supply cord into standard 115/120 volt receptacle. **NOTE:** The power supply cord must be plugged into a weather tight receptacle equipped with a Ground Fault Interrupter (GFCI).

Setting 3 Position Switch

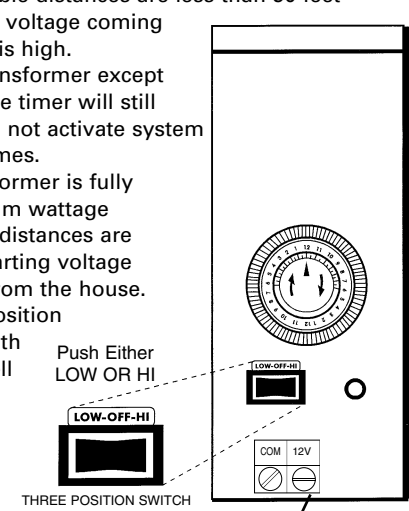
For optimum light output the voltage at socket should be between 10 and 12 volts.

LOW: Use if total wattage is less than half of the transformer capacity (i.e. 125 watts on a 300 watt transformer), cable distances are less than 50 feet or if the starting voltage coming from the house is high.

OFF: Turns off the transformer except for the timer. The timer will still function but will not activate system during preset times.

HI: Use if the transformer is fully loaded (maximum wattage capacity), cable distances are long or if the starting voltage is low coming from the house.

The "HI" or "LOW" position switch will activate both the timer and photocell (when applicable).



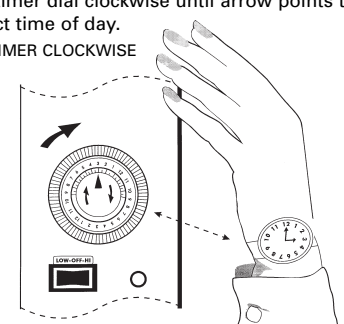
THREE POSITION SWITCH
TERMINAL BLOCK

(FIG. 1)

TRANSFORMER WITH TIMER CONTROL

1. Set three position switch (See Fig 1)
2. Turn timer dial clockwise until arrow points to correct time of day.

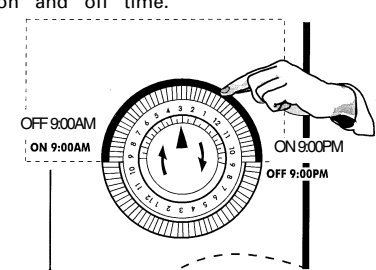
TURN TIMER CLOCKWISE



(FIG. 2)

SET TIMER

3. Push in all trippers on timer dial between "on" and "off" time.



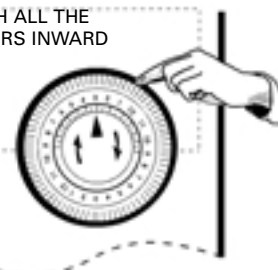
OFF 9:00AM
ON 9:00AM
ON 9:00PM
OFF 9:00PM

(FIG. 3)

OPTIONAL

TO OVERRIDE TIMER (SWITCH ONLY)

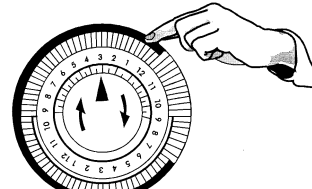
PUSH ALL THE TRIPPERS INWARD



(FIG. 4)

TRANSFORMER WITH TIMER CONTROL AND PHOTOCELL

1. Set three position switch. (See Fig. 1)
2. Turn timer dial clockwise until arrow points to current time of day. (See Fig. 2)
3. For photocell "on" at dusk and timer "off" at dawn: push all trippers inward on timer dial in a counter-clockwise direction between 12:00 PM and desired "off" time.
4. For photocell "on" at dusk and "off" at dawn: push all trippers inward and set three position switch to either HI or LOW position. **NOTE:** Photocell has a delay of up to 2 minutes.



PUSH ALL THE TRIPPERS INWARD

NOTE: To override photocell, cover electric eye.

CIRCUIT BREAKER

(SECONDARY SIDE - 12 VOLT SIDE)

- Circuit breaker will trip if there is a short or if total wattage installed exceeds rated wattage per circuit.
- To reset breaker, push button in.
- If the unit cycles on and off without regard to the timer setting, it should be checked by a qualified service person.

THERMAL PROTECTION

(PRIMARY SIDE - 120 VOLT SIDE)

- This unit is equipped with a thermal protector and will shut off if overheated.

WARRANTY

We warrant our transformers for ten years on black units and lifetime on stainless steel units against defects in material and workmanship if it is properly installed and failed under normal operating conditions, provided it is returned to the point of purchase, where it will be repaired or, as it may be determined, to replace the transformer.