

## INSTALLING YOUR TRANSFORMER

1. Mount the raintight transformer at least one foot above ground level with the wire terminals facing down. (Mounting hardware not included).
2. Split the 12/2 cable (Heavy black cable which all fixtures are connected to) approximately 3" and strip 1/2" insulation off each wire, (Not Included).
3. Insert one of the stripped wire ends under the terminal plate marked 12V on the terminal block. Place the other stripped wire under the terminal plate marked COM. Tighten the screws securely (See figure 1). You may install as many cables as possible under terminal plates.

**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.

4. Plug the power supply cord into a grounded electrical outlet equipped with a covered ground fault circuit interrupter (GFCI) receptacle (115/120V only), marked "wet location".

### Operating Instructions

#### SET HI-LOW SWITCH (3 Position Switch)

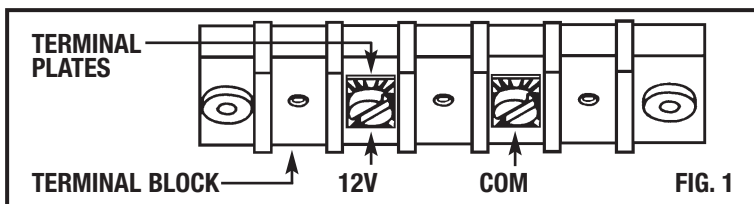
**LOW:** Use if total wattage is less than half of the transformer capacity (i.e. 125 watts on a 300 watt transformer), cable distances are less than 50 feet, or if the starting voltage coming from the house is high.

**OFF:** Turns off the transformer.

**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.

#### \* OPERATING NOTE \*

WHEN USING THIS TRANSFORMER TO SUPPLY POWER TO FIXTURES WITH TUNGSTEN HALOGEN LAMPS, SET THE HI-LO SWITCH USING THE SPECIFIED GUIDELINES (SEE ABOVE). ONCE THE INSTALLATION IS COMPLETE, CHECK THE VOLTAGE TO CONFIRM THAT THE VOLTAGE AT THE LAMPS IS BETWEEN 11.5V AND 12.5V, OTHERWISE LAMP LIFE MAYBE SIGNIFICANTLY DECREASED. ADJUST HI-LOW SWITCH TO ATTAIN OPTIMUM VOLTAGE.



## ELECTRICAL PROTECTION

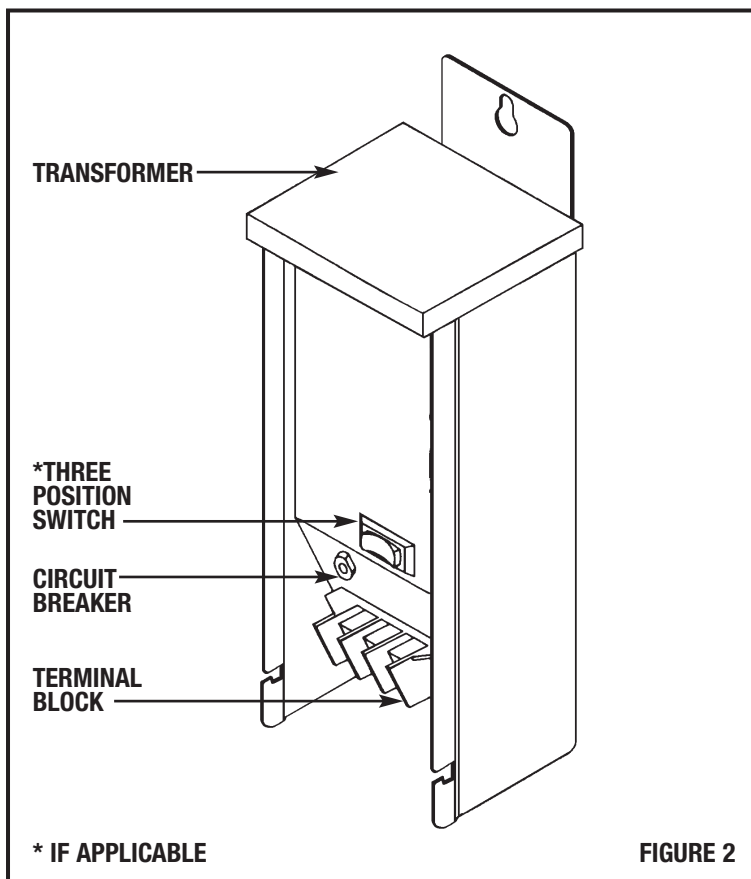
This unit contains dual circuit protection. The primary or 120 volt side of the transformer is thermally protected and will automatically shut off when overheated. If the secondary, (or 12 volt) side is overloaded the circuit breaker on the front of the transformer will trip. To reset the circuit breaker, 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.
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:

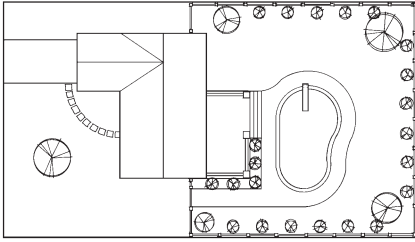
1. **DO NOT** install transformer or lighting fixtures within 10ft of a pool, spa or fountain.
2. **DO NOT** use extension cord
3. Low voltage cable is intended for shallow burial. **DO NOT** bury it more than 6 inches deep.
4. **DO NOT** nail or screw through cable to attach to a surface.



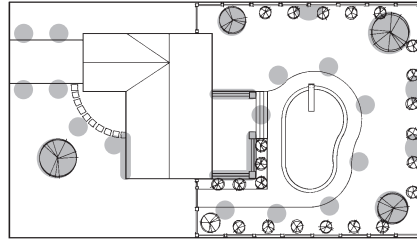
\* IF APPLICABLE

FIGURE 2

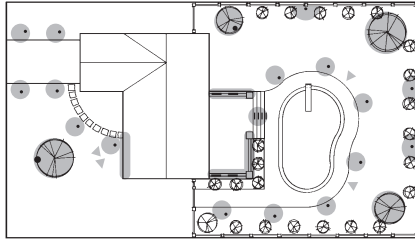
Designed with simplicity in mind **AMBIANCE®** Landscape lighting can be installed in a matter of hours.



**1.** Sketch your home and grounds, deck, fence, shrubs, trees, etc. in scale on a piece of graph paper. Each block on the paper can represent any dimension you desire 2', 4' etc. depending on the size of your property.

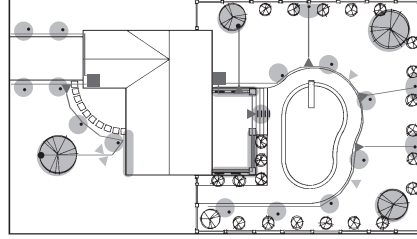


**2.** Pick the focal points (areas you want to be the center of attraction) a large tree, statue, fountain, etc. choose no more than two and use the remaining lighting as accents (path lights, wall brackets, step lighting, etc.)



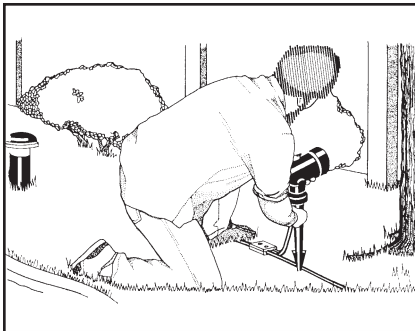
**3.** Select fixtures and locate them on your plan—pathlights, well lights, spot lights, accent lights, etc. Use the guides in the Sea Gull Landscape Lighting Catalog to calculate spacing and proper lamp wattages to achieve desired effect.

- Path Lights
- Well Lights
- Spot Lights
- Wall Brackets
- Accents Lights



**4.** Select location of transformer (this layout has the front yard transformer in the garage and rear yard transformer on back of house). Connect all fixtures and use graph to calculate the total lengths of wire required. (250W max. on any length of 12 gauge cable).

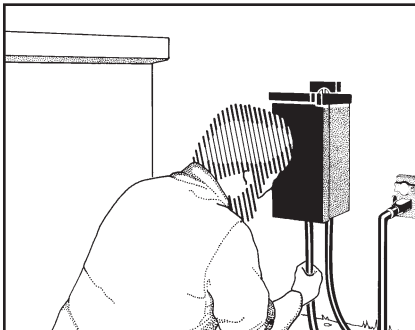
- Transformer
- Cable
- Cable Connector



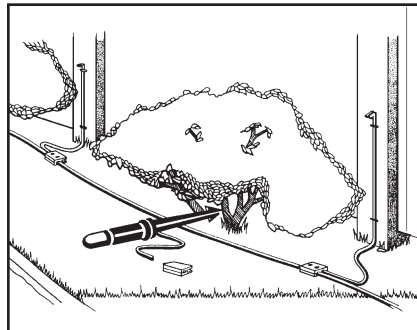
**5.** Your local store may have a home demonstration kit for you to take home and test out at night to prove your lighting layout. (or) purchase a transformer, one path light, spot light, cable and various wattage lamps to test.

FRONT OF HOME			
6 Path lights	x	8 Watts	= 48W
2 Spot lights	x	50 Watts	= 100W
1 Well light	x	50 Watts	= 50W
			198W
BACK OF HOME			
7 Path lights	x	8 Watts	= 56W
2 Spot lights	x	50 watts	= 100W
1 Well light	x	50 Watts	= 50 W
3 Wall brackets	x	12 Watts	= 36 W
30 Accent lights	x	6 Watts	= 180W
			422W

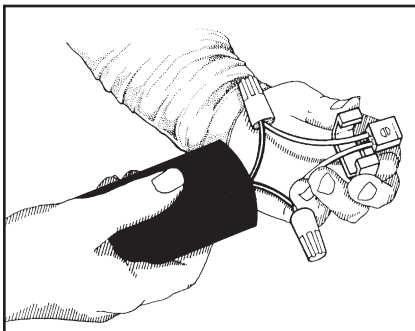
**6.** Calculate transformer size by adding individual fixtures together. Front of this home requires a 300W transformer, back of home requires a 600W transformer. Always buy a transformer with more capacity than required (not to exceed twice wattage load). because you will find other areas to illuminate.



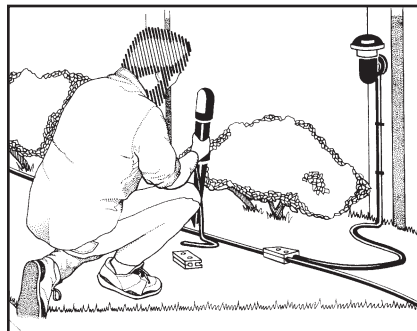
**7.** When using an outdoor GFCI weather proof receptacle, ("marked wet location"), hang transformer at least 12" above the ground. Attach cable and adjust photo control so that it will not be affected by artificial light.



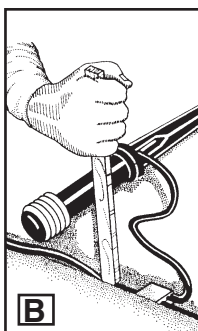
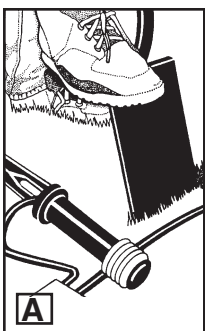
**8.** Lay all fixtures on ground at locations on graph paper. Run cable above ground by each fixture. Cable can be left on the surface, covered with mulch, buried 6" underground or stapled to trees or fences. No need for expensive installation costs.



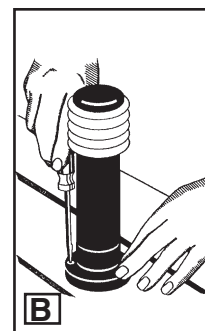
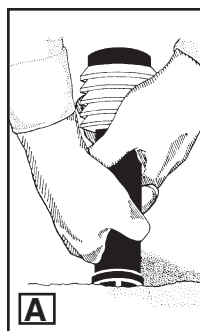
**9.** Attach fixtures by cutting through main cable. Insert both ends of cable into fixture post and connect to socket with wire nuts, (or) cut a 3' section and use the 9380 cable connector to splice to main cable. With this method, fixture can be moved in any direction if it is not in the desired location.



**10.** Before you bury the cable or secure fixtures, turn on transformer at night and reposition fixtures if necessary for optimum effect. The safe, shockfree 12 volt system is easy to disconnect and relocate fixtures or to adjust the aiming angle without any concerns about shock hazards.



**11.** Slice through the sod with a spade or make a trough in the mulch to run the cable (A). Force the cable into the spade opening with a wooden stick to avoid damaging the wire, or cover the cable with mulch (B).



**12.** Press the fixture stake into the spade opening until the post rests at ground level (A). Secure the base to a deck, wall, fence, or tree with screws for hidden cable, or break away tabs on base for surface mount wiring (B).