



INSTALLATION & MAINTENANCE GUIDE

Pool and Spa Transformers

VLT600150 & VLT600300

1 (480) 612-6880 · Mon-Fri 7am-3pm (Arizona Time)

www.bluesquaremfg.com

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Important Safety Instructions: Read Before Installation

Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.

1. Proper installation, wiring, servicing method.
2. Installation instructions shall include a swimming pool junction box that shall be installed between the power unit and the luminaire if the power unit intended for connection to conduit which extends directly to the forming shell of a wet-niche luminaire or the mounting bracket of a no-niche luminaire or an underwater pool light.

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Determine The Load

The general capacity should have been determined prior to purchasing the transformer. Circuit loads should not exceed 80% of capacity. As a general rule, total light fixture wattage should not exceed 80% of transformer capacity. To determine the total wattage, simply add up the wattage of all fixture lamps. This number should be 20% less than the transformer's wattage capacity. If you are over capacity, your installation may require a secondary or larger transformer.

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Determine Wire Gauge

The following tables are to help you determine what size cable is needed for your lighting job.

120VAC Primary Input - 150W Output

Distance * Feet	2#6AWG	2#8AWG	2#10AWG	2#12AWG	2#14AWG
5 ft.	13 VAC	13 VAC	13 VAC	13 VAC	13 VAC
30 ft.	13 VAC	13 VAC	13 VAC	13 VAC	13 VAC
60 ft.	13 VAC	13 VAC	13 VAC	13 VAC	
90 ft.	13 VAC	13 VAC	13 VAC		
120 ft.	15 VAC	15 VAC			
150 ft.	15 VAC	15 VAC			
180 ft.	15 VAC				
210 ft.	15 VAC				
240 ft.	15 VAC				

* Length of run to light from transformer.

120VAC Primary Input - 300W Output

Distance * Feet	2#6AWG	2#8AWG	2#10AWG	2#12AWG
5 ft.	13 VAC	13 VAC	13 VAC	13 VAC
10 ft.	13 VAC	13 VAC	13 VAC	13 VAC
20 ft.	13 VAC	13 VAC	13 VAC	13 VAC
30 ft.	13 VAC	13 VAC	13 VAC	15 VAC
40 ft.	13 VAC	13 VAC	15 VAC	
50 ft.	13 VAC	13 VAC	15 VAC	
60 ft.	13 VAC	15 VAC		
70 ft.	13 VAC	15 VAC		
80 ft.	13 VAC	15 VAC		
90 ft.	15 VAC			
100 ft.	15 VAC			
110 ft.	15 VAC			

* Length of run to light from transformer.

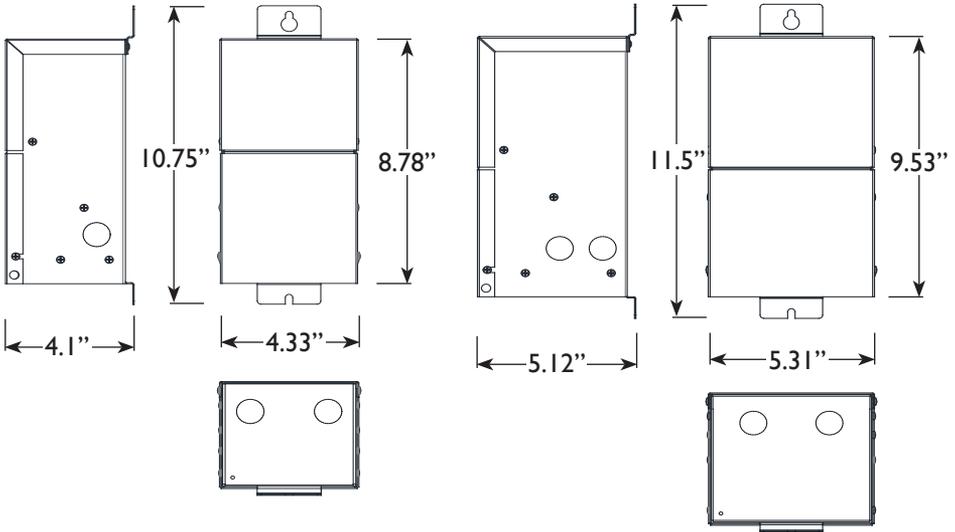
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Package Contents

- A. (1) Transformer
- B. (2) Screw
- C. (2) Anchor

Product Dimensions



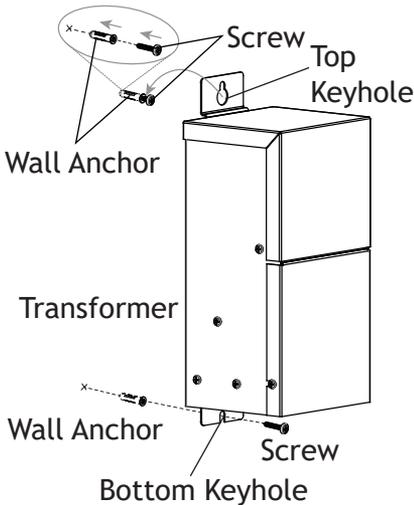
150 Watt

300 Watt

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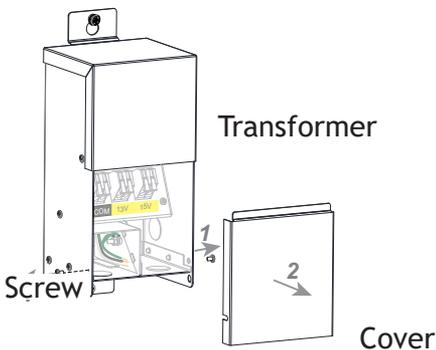
1 Mount Transformer



Determine the desired location for mounting the transformer. Mark on the desired location using the top and bottom keyhole as a guide. Drill holes on the marks and insert the wall anchors.

Thread the screw into the top keyhole. Leave enough of the screw out to hang the transformer on. Hang the top keyhole onto the screw. Then place a screw through the bottom keyhole. Secure both the bottom and top screw using a screwdriver.

2 Remove Front Cover

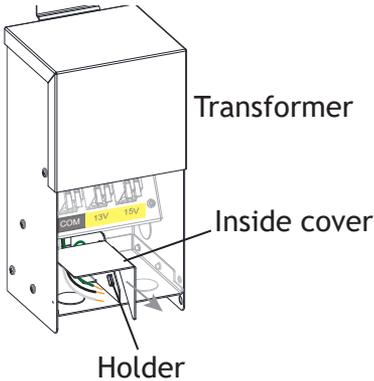


Loosen the two screws on the side to remove the front cover from the transformer.

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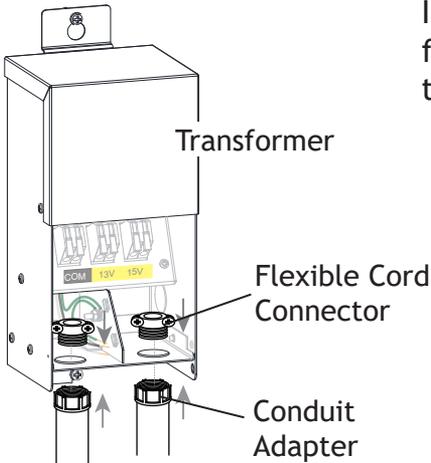
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3 Remove Inside Cover



Remove the inside cover from the holder.

4 Install Conduit Adapter



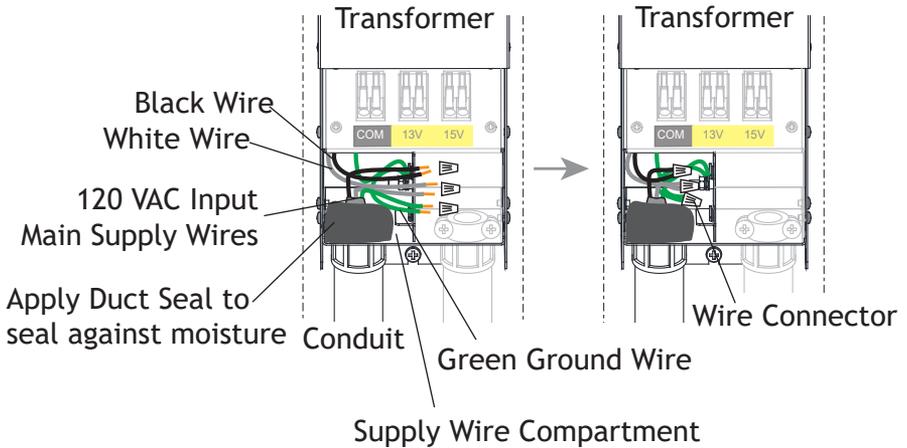
Install the conduit adapter and flexible cord connector to the transformer.

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5 Wiring Main Supply Wires



Pass the main supply cables through the conduit and insert them into the supply wire compartment of the transformer. Then fit the conduit to the conduit adapters. Using UL listed wire connectors (sold separately), connect the black main supply wire to the black wire from the transformer, connect the white main supply wire to the white wire from the transformer and connect the green main supply wire to the green wire (ground) from the transformer.

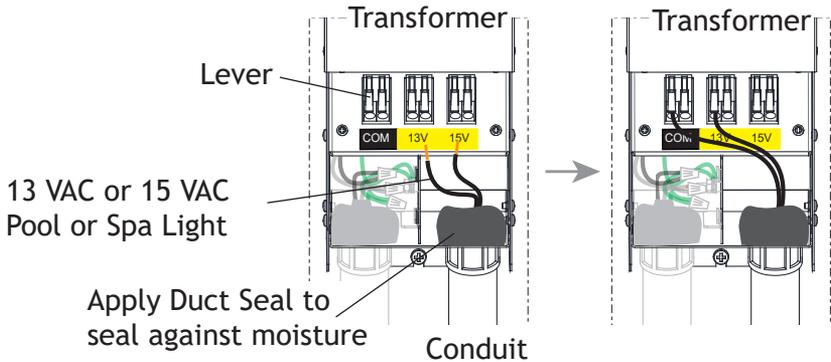
Apply duct seal to main supply wire exits on conduit adapters properly to seal them against moisture.

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6 Wiring Fixture Supply Wires



Pass fixture supply cables (from pool or spa light) through another conduit and insert them into the transformer. Then fit the conduit to the conduit adapters. Strip both ends of the supply wires.

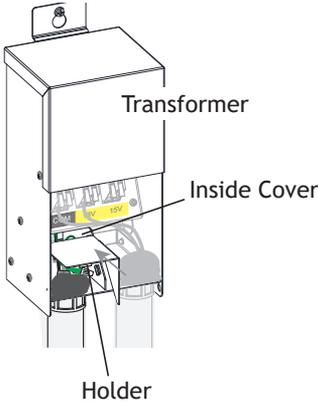
Open the lever and insert one end of the wire into the COM block and the other end into the 13V or 15V block. Close the levers to lock the inserted wires into place.

Apply duct seal to the fixture supply wire exits on conduit adapters properly to seal them against moisture.

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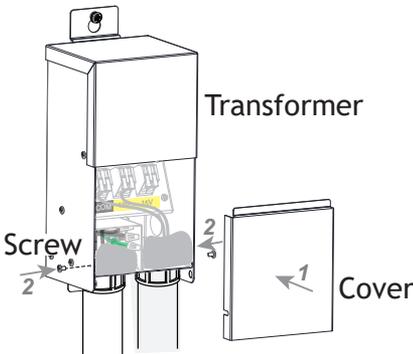
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7 Install Inside Cover



Place the inside cover back onto the holder.

8 Install Cover



Place the front cover back onto the transformer and secure with previously removed screws.



Help Hotline:

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