GLOBAL LIGHT & POWER LLC
AN LED LIGHTING COMPANY

INSTALLATION INSTRUCTIONS ST770018

Important Instructions. Please read first.

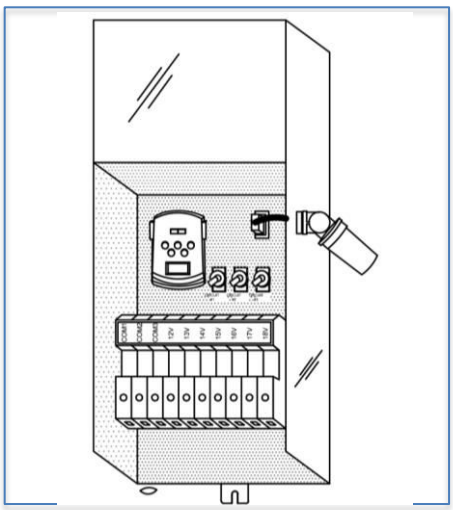
- **Please follow instructions carefully. Failure to do so will void warranty. Please ensure installation complies with local law and applicable standards.**

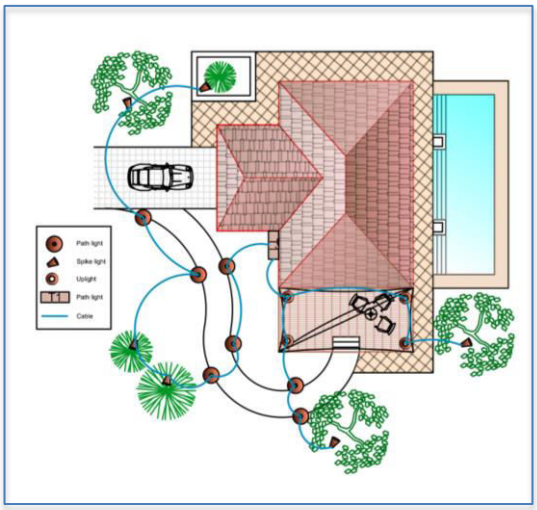
1. Ensure correct input voltage is connected to the luminaire.
2. Ensure the power is disconnected before making any connections.
3. Do not make modification or alter the luminaire without written approval of GLP.
4. Ensure to keep luminaire in a clean area free of debris.

INSTALLATION

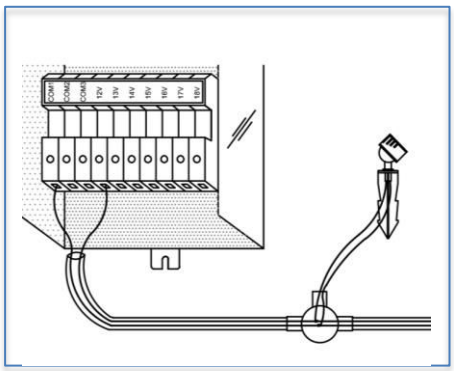
- **Step 1:** The Multi-tap transformer needs to be fixed firmly to the solid surface using the provision provided on the transformer with the wire terminals facing in downward direction.

  NOTE: The transformer needs to be fixed at least one foot above the ground level. The main 12 Volt cable from the transformer needs to be pulled through the conduit till the end of each circuit. A 3-way junction box should be inserted between the conduits wherever the LED fixture needs to be installed.





- **Step 2:** The input cable from the fixture need to be connected to the 12 Volts main supply cable from the transformer through the conduit and 3-way junction box.



- **Step 3: Calculations:**

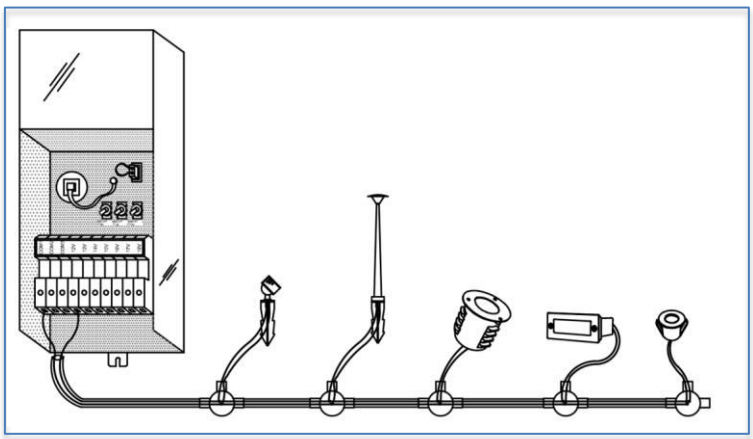
  Total watts per circuit = No. of total fixture in a circuit × Wattage of each fixture.

  Amps per circuit + Total watts per circuit/Voltage of fixture

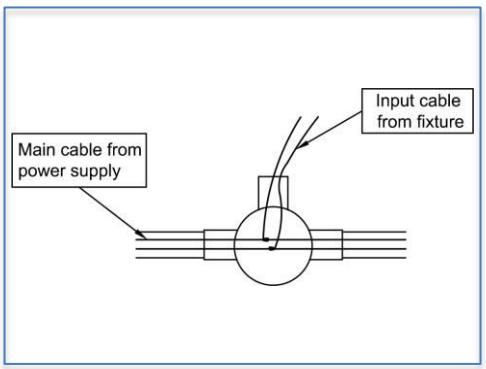
- **Step 4: Table to show wire size.**

AMP	Wire Size	Watt Max
0.1 – 3	2.5mm	36W
3.1 – 6	4mm	72W
6.1 – 10	6mm	120W
10.1 - 15	8mm	180W

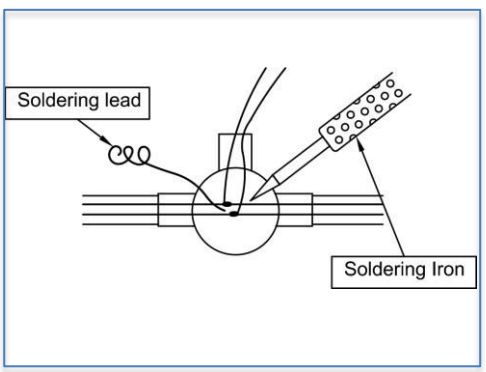
- **Step 5:** As shown in the figure the 3-way junction box should be inserted between the conduits wherever the LED fixture needs to be installed.



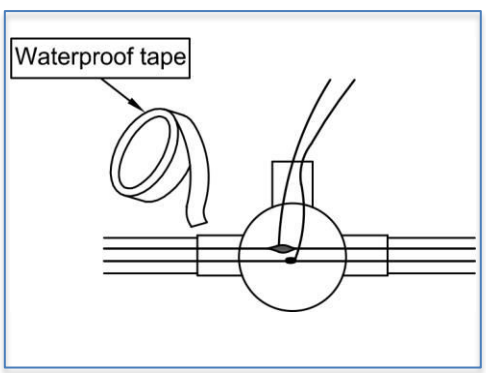
- **Step 6:** The input cable from the LED fixture needs to be connected to the 12 Volt main supply cable by stripping off the insulation part of the cable.
  Note: The 12 Volts main supply cable should not be cut.



- **Step 7:** Proper soldering to be done to each and every connection in the 12 Volts mains supply cable from the transformer.



- **Step 8:** Every connection needs to be waterproofed using a good quality waterproof tape.



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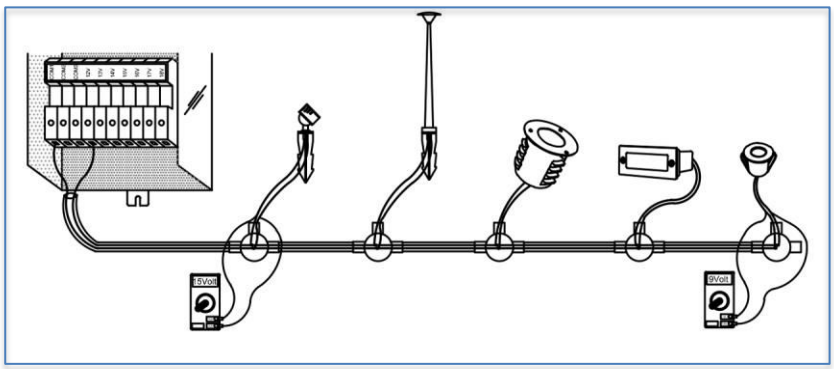
- **Step 9: To check voltage at starting and ending point of each circuit.**

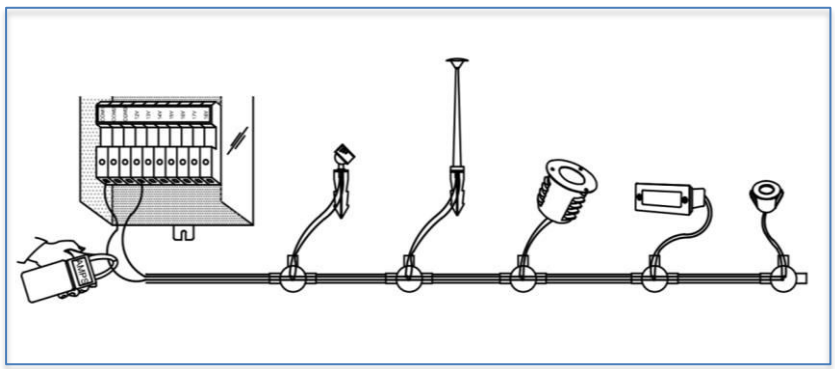
  The Voltage at each circuit needs to be checked after connecting the LED fixture.

  NOTE: The voltage at first fixture of the circuit should not exceed 15 Volts and the voltage at last fixture of the circuit should not be less than 9 volts.



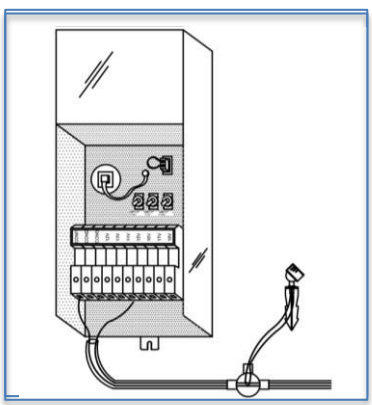
- **Step 10: To check amp rating of each circuit.**

  The AMP on each circuit needs to be checked and made sure that it should not exceed the calculated AMP per circuit.

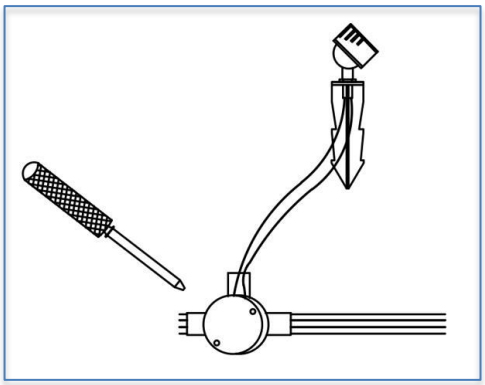


- **Step 11: Adjusting voltages taps,**

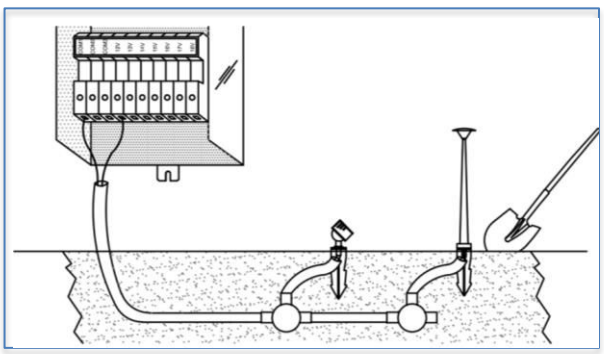
  Now the Voltage and AMP is checked, but if it is found that the voltage at the end of the circuit is less than 9 Volts then the connection at the transformer taps needs to be shifted to the next higher tap.



- **Step 12:** After checking and correcting the voltage at each circuit all the 3-Way junction box needs to be closed properly with its lid.

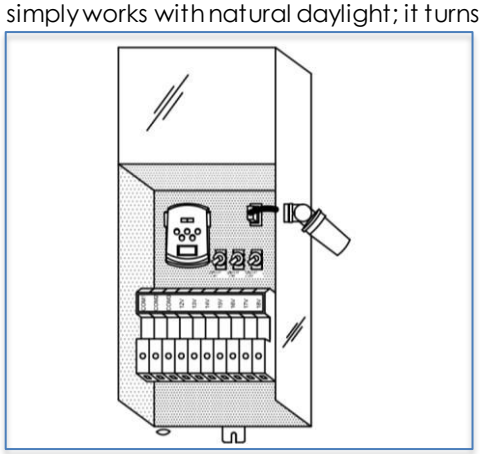


- **Step 13:** Now the final testing to be done , witch ON the multi-tap transformer and check if the lights in the circuit are working, then the conduit need to be covered with soil..



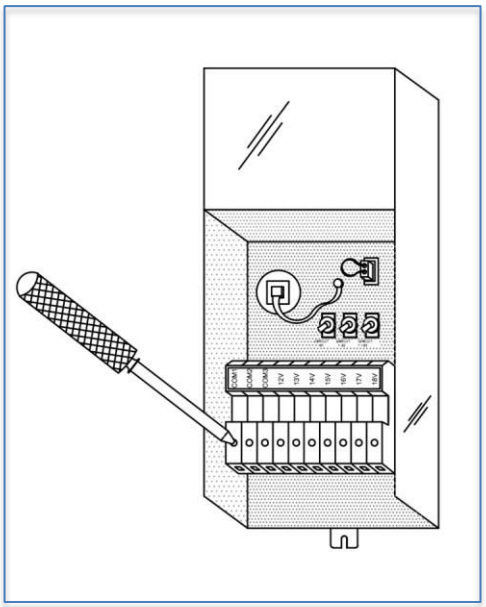
- **Step 14:** **To add timer and photocell.**

The multi-tap transformer can be controlled using the timer or a photocell. By adding the timer to the transformer it can be programmed up to 16 individual programs per day. It can also be programmed to turn off at different times based on the day of the week. By adding the photocell to the transformer it simply works with natural daylight; it turns off at dawn and turns on at dusk.

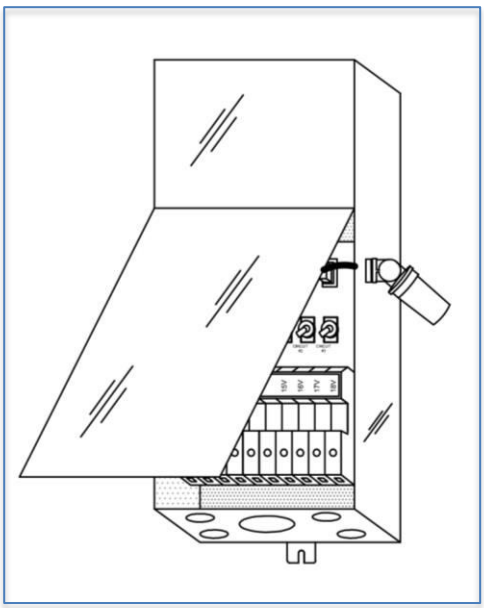


- **Step 15: The terminal needs to be tightened**

  All the terminal screws on the transformer needs to be tightened properly.



- **Step 16: The power supply needs to be closed properly with its lid**



Make sure the main power is switched off during installations.

All the Installation and Maintenance must be done by Technicians and Professional Engineers