

Congratulations on purchasing your
Solar Light Bollard

SBL



SBL2



IMPORTANT BEFORE YOU INSTALL

Every project must have an initial geographical location and shade assessment completed by a Solar Bollard Lighting® authorized distributor, importer, sales agent who has been trained according to validated Solar Bollard Lighting® protocols.

This assessment applies the 'Power In = Power Out' equation, based on a sunlight profile during the winter solstice, the day of least sun in the specific geographical location.

The highest-powered Solar Bollard Light/s for your location is specified to be installed based on winter solstice month's sun trajectory/angle.

Note: Battery is pre-connected.

At Installation Site: If shading from trees or other structures are found at the site of installation not discussed prior to delivery of your Solar Light Bollard/s, **please immediately contact your supplier prior to commencing the installation** as lower power model/s maybe required to ensure dusk until dawn operation at full power and as specified in our Warranty T&C's.

Ensure your Solar Light Bollard power model ordered allows for possible future shading issues such as trees growing and/or new buildings being possibly erected near the installation site.

**AN INCORRECT POWER MODEL
SELECTION IS NOT WARRANTABLE**

WHEN PRODUCT ARRIVES

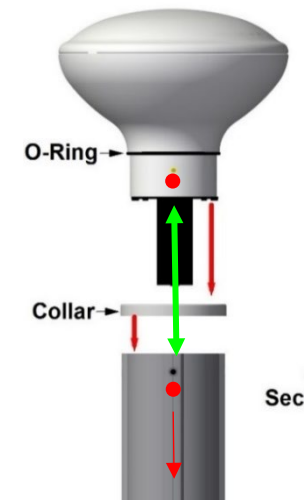
STEP 1

- Your light head and poles have arrived separately packed. **Leave light/s in carton until ready to be attached to pole.**

STEP 2: INSTALL DIRECT BURIED POLE GO TO PAGE 2 FOR INSTRUCTIONS

STEP 3 - ATTACH SBL / SBL2 LIGHT HEAD

- If you are using a SBL2 **ASYMMETRICAL** light head there will be a **RED** dot ● near the threaded brass insert which needs to be facing across the pathway.



**Rib Facing Directly
Across Pathway**

2. GO TO PAGE 3 FOR INSTRUCTIONS TO ATTACH THE LIGHT HEAD

- Remove the black shrink wrap from the light head to activate the system. Your Solar Light Bollard is now installed and ready for operation.

DIRECT BURIED INSTALLATION

BEFORE YOU INSTALL: DIAL BEFORE YOU DIG

Ensure Anchor Bolts are through pole base/s prior to burying into concrete.

STEP 1 – DIG HOLE WITH SHOVEL, POST HOLE DIGGER, AUGER.

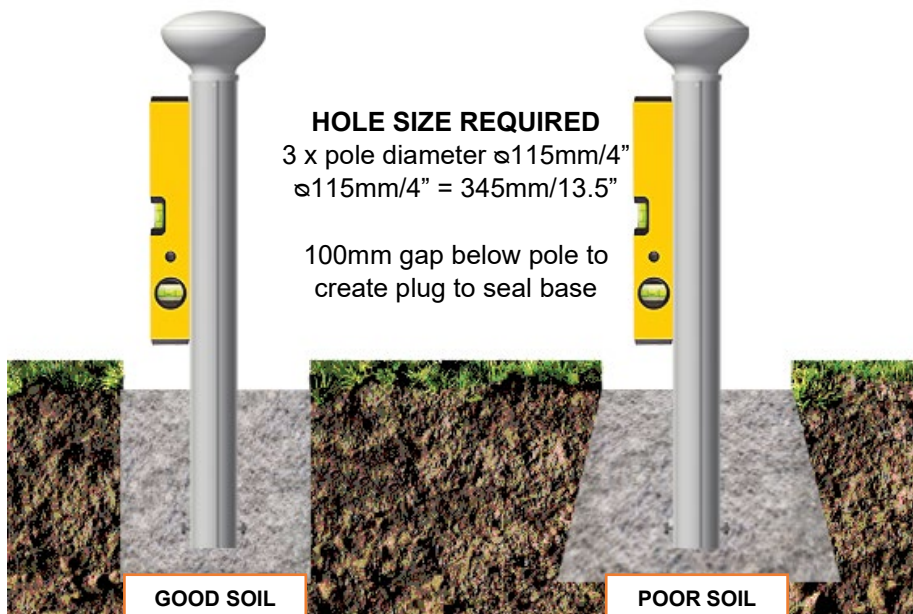
In good soil we suggest:

Hole Size Required:

3 x pole diameter $\varnothing 115\text{mm}/4'' = \varnothing 345\text{mm}/13.5''$

Hole Depth Required:

Model	Pole in Ground	Hole Depth
-1140DBA	300mm/11.8"	300mm/11.8" + 100mm/4" = 400mm/15.7"
-1790DBA	450mm/17.7"	450mm/17.7" + 100mm/4" = 550mm/21.6"
-2440DBA	600mm/23.6"	600mm/23.6" + 100mm/4" = 700mm/27.5"
-3040DBA	700mm/27.5"	700mm/27.5" + 100mm/4" = 800mm/31.5"
-3640DBA	800mm/31.5"	800mm/31.5" + 100mm/4" = 900mm/35.4"
-4240DBA	900mm/35.4"	900mm/35.4" + 100mm/4" = 1000mm/39.3"
-5040DBA	1200mm/47.2"	1200mm/47.2" + 100mm/4" = 1300mm/47.2"



A much larger foundation may be required if soil is poor/sandy to prevent bollards being pushed over or removed/stolen. Try and taper out towards the bottom so the base section of concrete is larger than the top section as per this image

STEP 2 - Pour concrete into the hole

STEP 3 - Insert pole into concrete ensuring the internal of the bottom of the pole is also filled with concrete so it is secure and hard to remove.

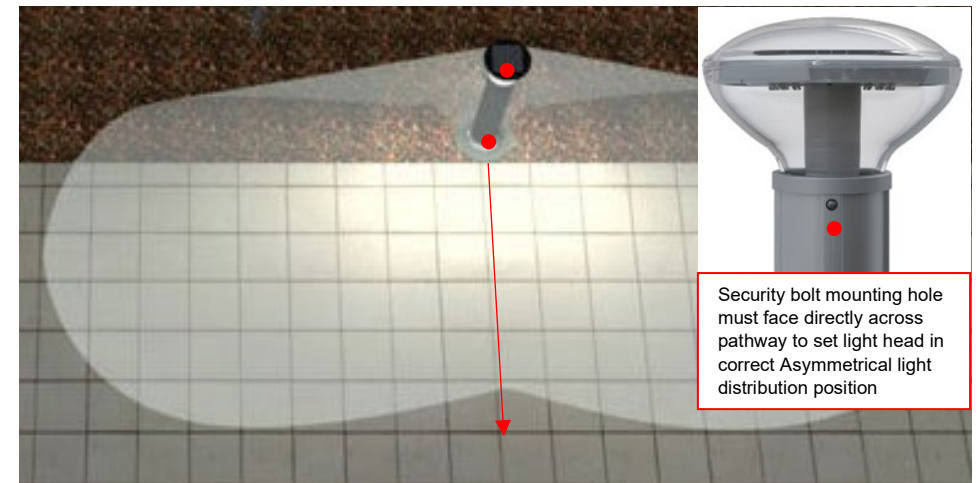
STEP 4 - Use spirit level to ensure pole is set correctly and on taller poles use braces to hold in place until concrete sets to ensure it stays plumb/vertical.

STEP 5 - Cure concrete and remove any bracing previously used.

RETURN TO PREVIOUS PAGE STEP 3: Light Head Attachment Instructions

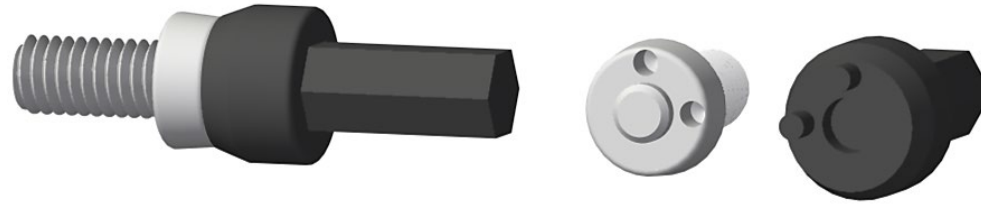
ASYMMETRICAL LIGHT ADDITIONAL INSTALLATION INFORMATION

This image shows the correct direction the pole must be facing for even asymmetrical light distributions when light head is attached correctly with the **RED ●** both being aligned on the same side. Remove **RED ●** once installed.



Ensure you have removed all **RED ●** once installed.

HOW TO SECURE THE SOLAR LIGHT HEAD LUMINAIRE TO THE POLE



1. Install the Solar Light Head into the pole/mount pole section until the Solar Light Head spun collar is sitting flush with the top edge of the pole
2. Turn the Solar Light Head until you can see the internal brass threads in the moulding have lined up horizontally with the counter bored holes in the pole
 - a. You will notice the internal brass thread is sitting slight above the top of the counter bored hole
3. Apply downward pressure to the top dome section of the Solar Light Head, this will line up the thread vertically now.
 - a. This has now created compression of the spun collar O-Ring which creates a watertight seal
4. **SECURITY FASTENERS MUST BE TENSIONED IN THE SAME ORDER:**

THIS STEP MUST BE COMPLETED BY HAND TENSION ONLY

STEP A: Insert the M6 Security Fastener with the Security Driver Tool through the pole into the internal thread and tension until the Security Fastener head is above the external pole outer edge.

- Do this for each Security Fastener in order 1 to 4 as shown

NOW USING A VARIABLE SPEED TORQUE GUN:

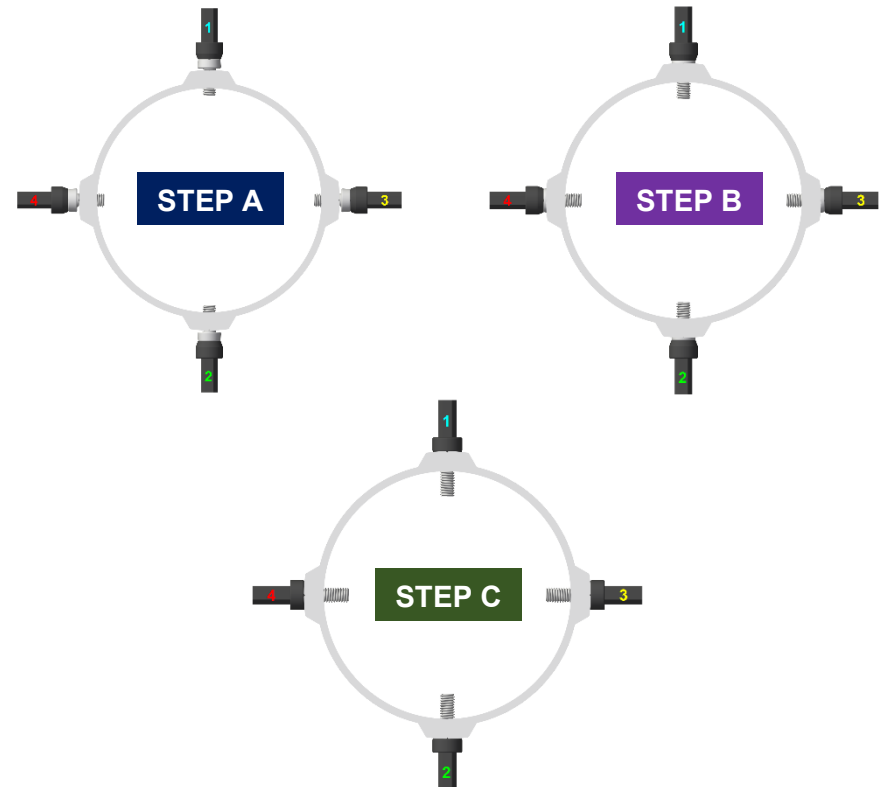
- **SPEED** - Low Speed Only
- **TORQUE** - Set to 13 "maximum"



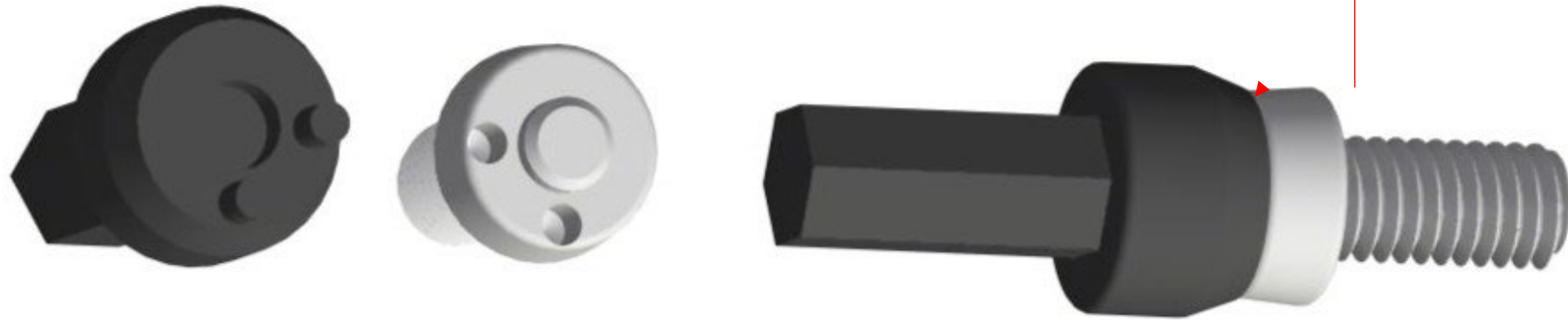
STEP B: Continue tensioning the Security Fastener in order 1 to 4 until the fastener head section **has just recessed into the counter bored hole**.

- This will create pressure down onto the O-Ring Seal

STEP C: Continue tensioning the Security Fastener in order 1 to 4 until the variable speed torque driver **CLUTCH RELEASES**. Then finally check tension by hand to ensure the Security Fasteners are **TIGHT AND FIRM** in place.



USING 2 PIN SECURITY DRIVER BIT – MUST SIT FLAT



DRIVE SETTING - LOW SPEED



TORQUE SETTING MAXIMUM = 13