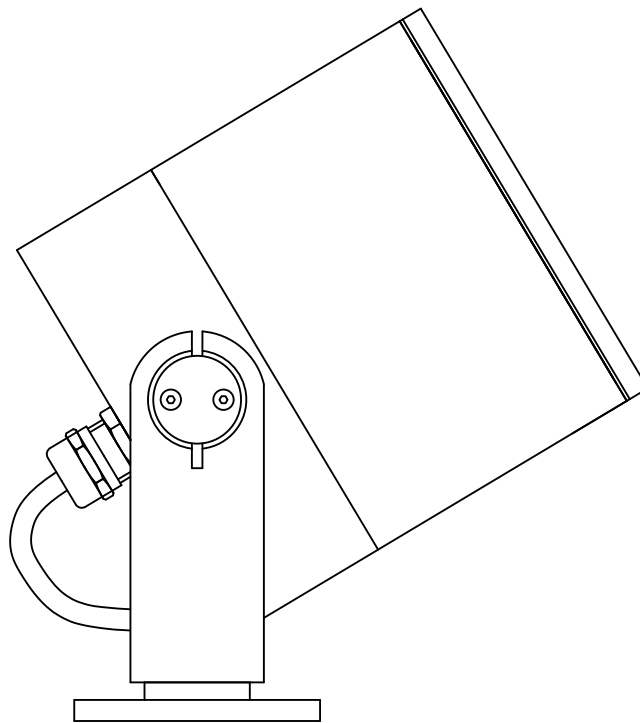


## Toad X

### Installation and Maintenance Instructions




**IMPORTANT: All wiring connections must be made before switching on mains power.**


 Xicato LED Module


**IP66** Dust tight and protected against powerful jets of water.

 Please retain these instructions for future reference

 This product should not be disposed of in your general waste

 Class III - Extra-low voltage

 Suitable for Exterior use

 European Conformity

## Electrical Supply

Installation must be carried out by a qualified electrician in accordance with BS 7671:2008 Wiring Regulations. 230/240V AC 50/60Hz mains supply to a suitable SELV LED Driver.

Site conditions: LED equipment is more susceptible to static damage and overvoltage than previous technology. Before handling or connecting to the mains supply ensure that all MSL products are protected from static discharge and that the mains supply is to regulation. (230V +10 -6%)

This fitting is supplied with a Xicato LED module. Refer to the fitting label for the module version and wattage. More information on the module can be found at [www.xicato.com/support](http://www.xicato.com/support)

Mains cables must be double insulated, strain relieved and separated from E.L.V output cables.

**This unit requires a constant current driver. 1050mA Max.**

**Observe polarity:**  
Positive (+) is marked as 1.  
Incorrect supply or reverse polarity can cause irreparable damage.

**All connections must be made before switching on mains.**  
If the supply is energised prior to making the connections to the fitting then the resulting surge will damage the LED.

All lighting equipment is delicate and easily damaged through misuse or inappropriate installation (mechanical or electrical). Repairs and replacements may cause delays and will be chargeable. Contact MSL for support if required. For full warranty terms & conditions please visit our website.

Dimming control circuit source must be of SELV insulation class.

The IP rating stated is applicable only when the fitting has been installed as per these instructions.

Ensure supply driver and connectors are housed indoors OR in a suitable IP rated enclosure.

## Installation

Check that the mounting surface is suitable for the installation of this fitting. **Fitting weight: 2kg**

**Step 1** Make mains connections to SELV LED driver and extra low voltage connections to the fitting.

**Step 2** Secure fitting in place using two suitable screws.

After opening the sealed portion of the luminaire for any reason, MSL recommends running the fitting for 15 minutes with the lid open to expel moisture before closing it up. This will prevent condensation on the lens and protect the fitting from corrosion.

**WARNING: Do not look at exposed LED lamps in operation. Eye injury can result.**

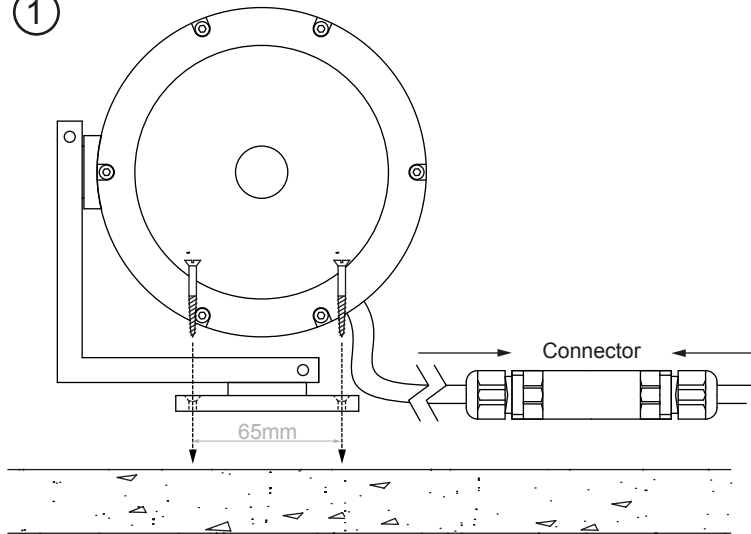
## Cleaning:

Fully isolate the fitting and allow to cool.

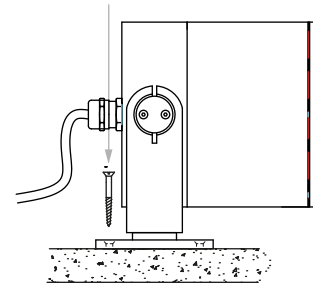
Clean the fitting with a slightly damp lint free cloth from a mild solution of soap and water. The fitting must be completely dry before reconnecting power.

Incompatible or abrasive chemicals can damage the fitting, contact MSL for advice if required.

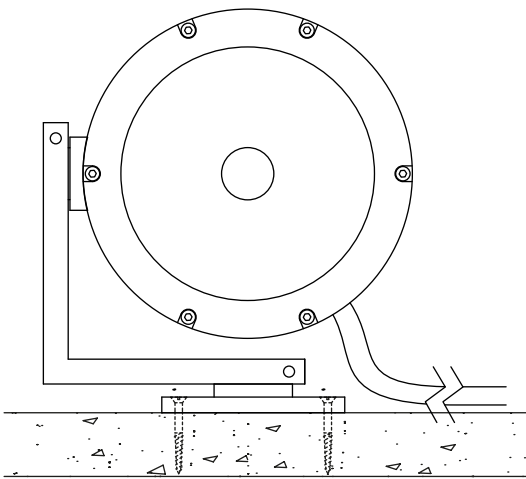
①



For easier access to fixings rotate the fitting as shown.



②



## Module and Accessories

The fitting uses a Xicato LED module. The colour temperature and lumen output can be found on the product label of the fitting.

To change the reflector:

Isolate the fitting from the supply and allow to cool.

**Step 1** Remove the lamp tube by unscrewing in an anti-clockwise direction.

**Step 2** Remove/Insert the reflector.

**Step 3** Refit the lamp tube by screwing on in a clockwise direction. Check that the reflector is aligned centrally over the LED.

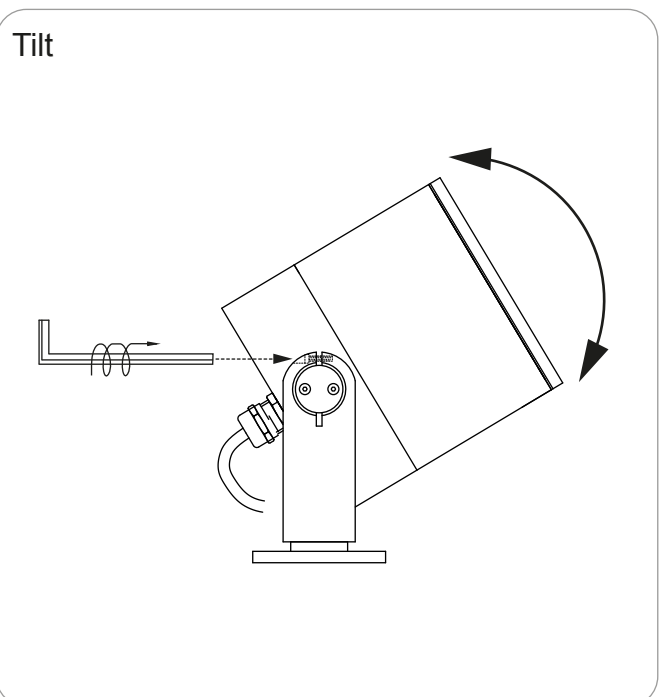
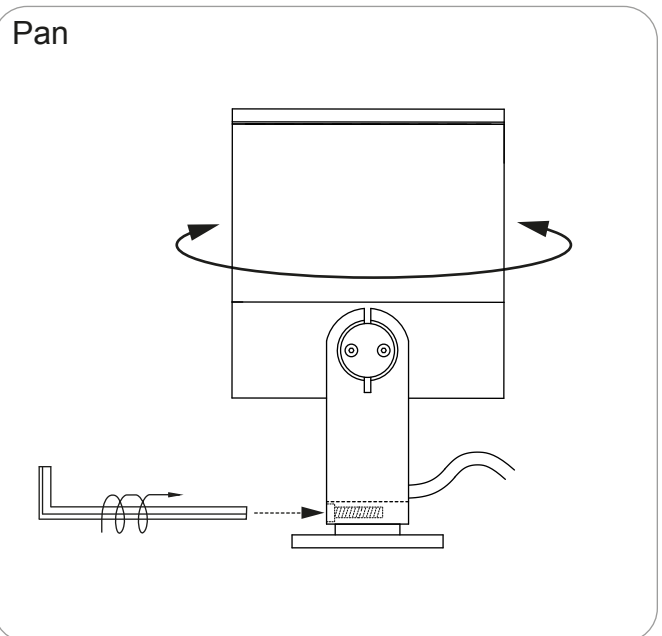
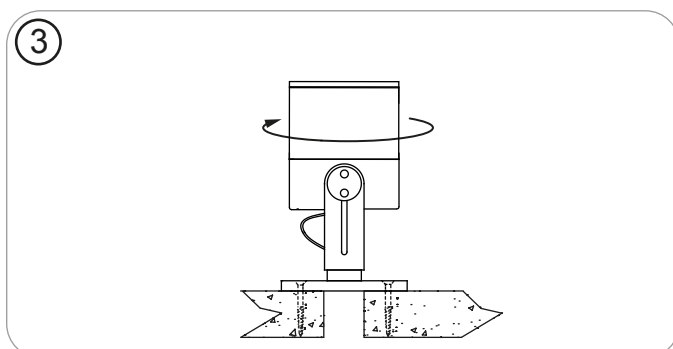
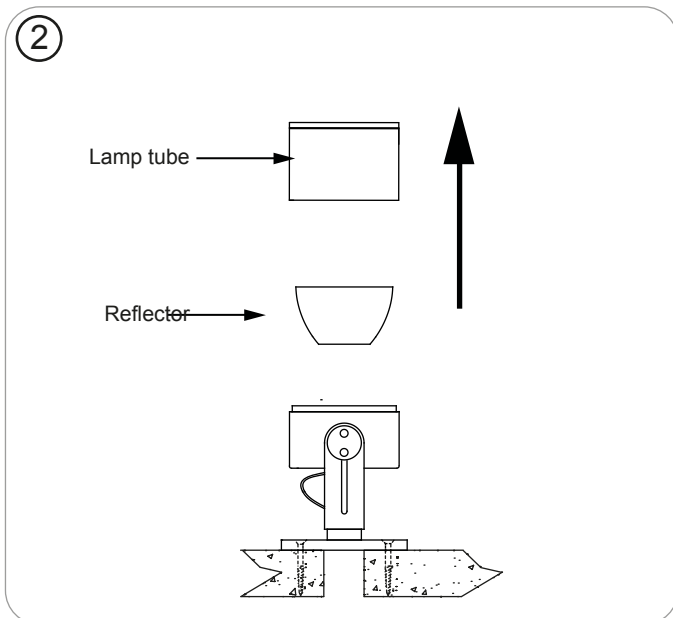
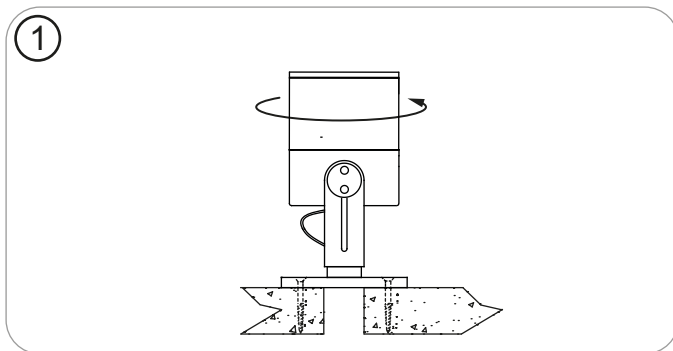
## Adjustment

To adjust the tilt and pan of the fitting use an Allen key to loosen off the tilt and pan lock screws.

Use a 3mm Allen key

Once the desired angle is achieved lock off the screws.

**DO NOT** over tighten the screws as this could damage the lock and cause it to no longer function.



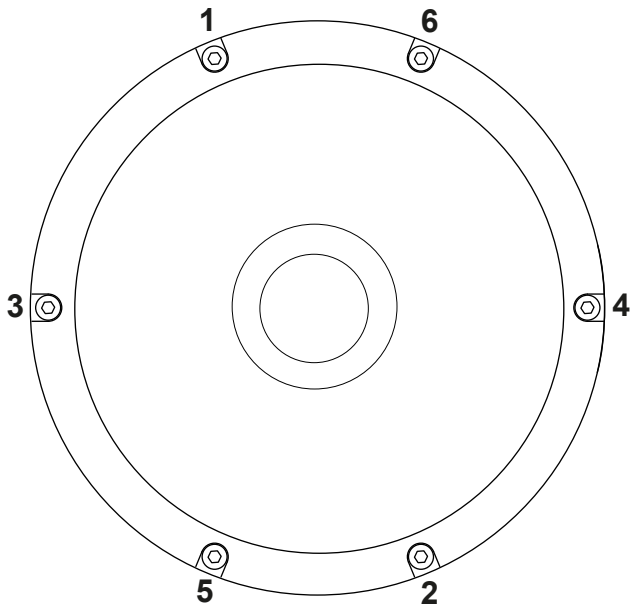
## ACCESSORIES

Fully isolate and allow fitting to cool sufficiently before handling.

Remove the front bezel, circlip and any accessories from the fitting using a 2.5mm Allen key to loosen 6 screws.

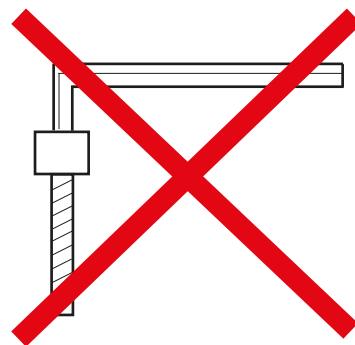
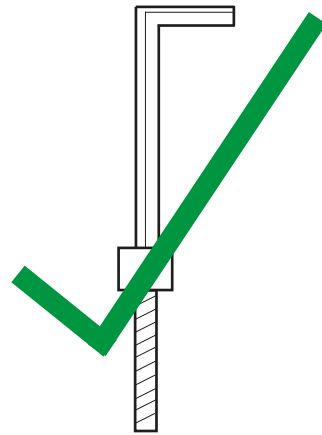
Remove the fixings following the numbered sequence below.

When reattaching the bezel, tighten gradually in the sequence as shown in the diagram below.



**ENSURE that the front bezel is NOT OVER TIGHTENED**

**Use the Allen key as shown to be finger tight only**



## TO ADD/REMOVE SNOOT (if Supplied)

To remove the snoot - loosen the bezel as per instructions. Loosen the 4 x M4 grub fixings around the diameter of the snoot.

Replace the fixings into the groove on the lamptube to attach snoot and retighten bezel. Position the drainage hole at the bottom of the fitting.

