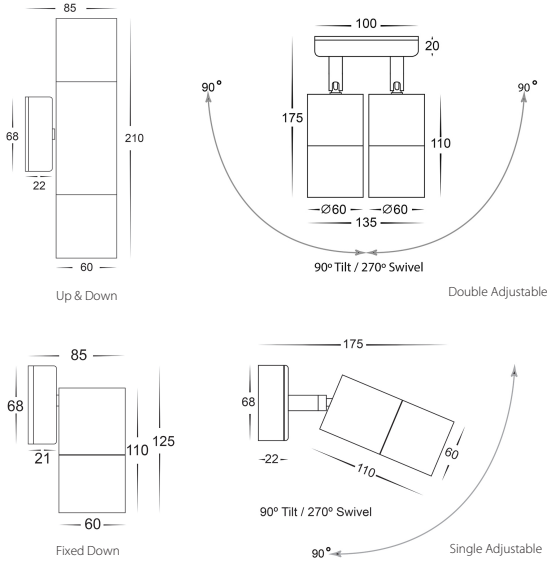


# Tivah Spot Lights Installation Instructions



## Important Safety Issues;

- This product must be installed by a qualified electrician according to AS/NZS 3000.
- Ensure all electrical mains are disconnected before any installation.
- Modification of this product will void any warranty.
- Havit Lighting does not take responsibility for wrong installation, incorrect use, or use of installation material that does not belong to the system.
- When installing low voltage fittings, Voltage to fitting must be within - 5% of voltage required, if not within this allowance warranty will be voided.
- Aluminum and 3045S fittings must not be installed within 2km of any salt water environments.
- When installing copper fittings, gloves must be worn to avoid any oils transferring to fitting.
- All 316 stainless steel fittings must have regular cleaning maintenance to avoid any tea staining from forming on fitting. (Warranty does not cover Tea Staining)
- Total wattage load must not exceed 70% of driver capacity to allow for start up current of the LED fittings.
- A low voltage garden cable must be used when installing any low voltage lighting. Size of cable used must be a minimum 2.5mm but will vary depending on length of run and total load.
- All lights classed as ingrounds must have adequate drainage when installed, warranty will be voided if not installed correctly.
- All O-rings and seals must be in place correctly to maintain warranty.

## Steps for Installation;

1. Make sure that the electrical circuit is free of voltage (master switch off)
2. Remove backing plate from fitting using allen key provided.
3. Install the backing plate securely, ensuring to seal around this plate to avoid moisture penetration. Seal all holes in the backing plate including cable entry and screw holes. When installing copper fittings make sure that the gloves provided are used to avoid any fingerprints or marks transferring to the surface of the fitting. Failure to do so will void warranty.
4. Connect the cable -
  - a. 240v models, (use wire with earth); connect the earth first, then live and neutral wire.
  - b. 12v DC model, use an appropriate 12V DC LED Driver, connect live and neutral wire, (if more than 1x fitting installed, wiring must be done in Parallel.)
5. Affix the spotlight to the mounting plate using allen key making sure these are tight to avoid water penetration.
6. Globe is set at 3000k from factory, if you need to change colour temperature unscrew cap from fitting and remove globe, choose colour temperature by moving switch on side of globe to desired colour temperature (when purchased a 9in1 model factory has set globe to 7w, if needed you can change wattage by selector on side of globe) and then reinsert globe.
7. Attach cover by turning clockwise making sure the seals are still in place and caps are tight to avoid any water penetration.
8. All connections must be carried out carefully, inspect all contacts before switching back on the electric circuit.

## Lamp Changing:

1. Undo cap from fitting by twisting anti-clockwise
2. Remove globe from lamp holder
3. Insert new globe into lamp holder checking that the globe does not exceed maximum wattage.
4. Screw cap back onto fitting by twisting clockwise, making sure seals are still in place.

**THESE FITTINGS MUST BE INSTALLED BY A LICENSED ELECTRICIAN**