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# IMPORTANT FITTING INSTRUCTION

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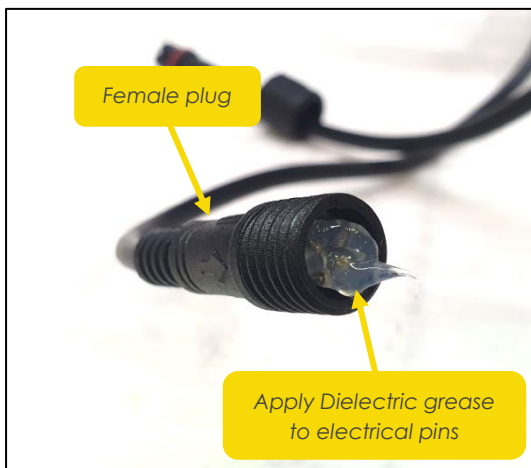
## VLI Control Plug Connections

The following procedure applies to all control plug connections used throughout the Bushranger Night Hawk VLI wiring system.

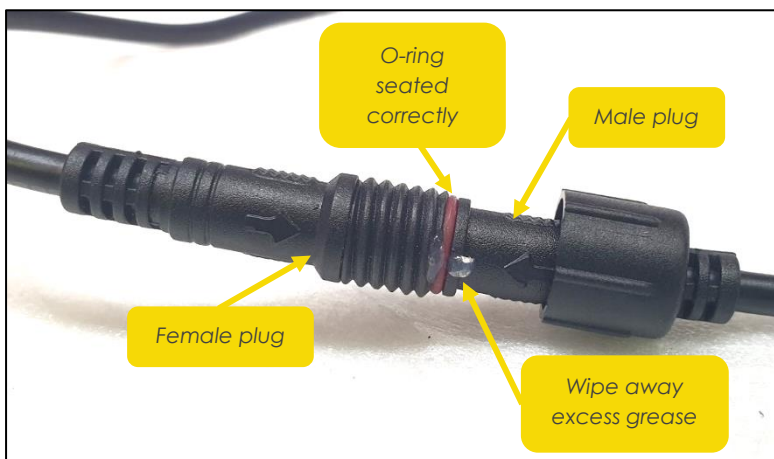
To ensure long term, reliable operation of the Night Hawk VLI wiring system, the control plugs need to be correctly assembled and well-sealed to prevent water ingress. A poorly sealed control plug can allow water into the electrical pins and cause corrosion over time, which can lead to intermittent issues and faults. Careful attention needs to be paid to the seating of the O-ring, as well as the use of di-electric grease (silicone grease) on the electrical pins to act as a barrier to water ingress.

### Method:

1. Apply a liberal amount of di-electric grease to the 4 pins of the control plug.



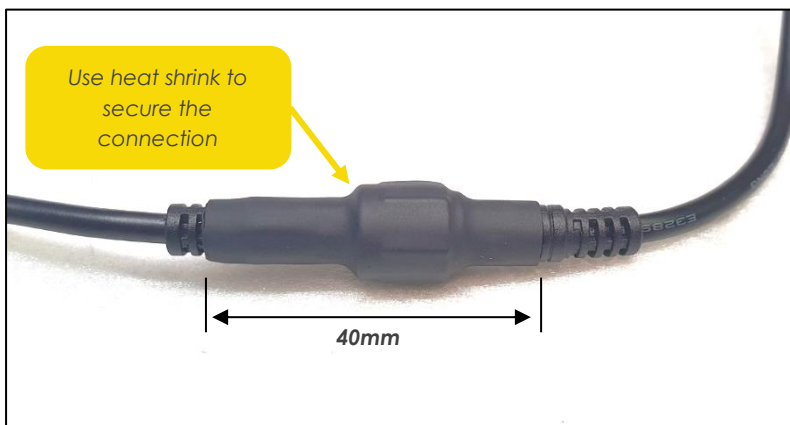
2. Align the arrows on the 2 mating plugs to ensure the keyways are positioned correctly. Firmly push the male plug into the female plug, noting that some Dielectric grease should flow out of the plug. Push firmly until the red O-ring is properly seated against the shoulder of the female plug and wipe away excess grease.



3. Tighten the screw lock to form a secure, waterproof connection. Ensure metal to metal contact between the electrical pins has been retained by trialling the full operation of the VLI wiring system before finalising the installation.



4. It is recommended to use a 40mm length of Ø14mm (minimum) heat shrink over each control plug to further act as a barrier to water ingress, as well as holding the screw lock in place over the life of the connection.



### **Instructions for Control Plugs when not used with VLI Wiring System**

If the Night Hawk VLI light is to be used with a traditional, relay-based wiring loom, where the control plug is not utilised, it is important to seal the control plug to prevent water ingress. Fill the control plug with dielectric grease, then screw on the supplied cap, ensuring the seal within the cap seats onto the shoulder of the female plug. Cover with heat shrink to secure the cap.

