

# ELEXPERT (PTY) LTD

*Maximise the value of your energy inputs.*

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## Retrofit Procedure: LED BULK-HEAD LIGHT (Non-Integrated)

This installation /retrofit procedure briefly shows the basics of how to retrofit an Elexpert LED BulkHead. The retrofit procedure would differ depending on the type of light fitting. If you are unsure or don't understand this procedure, please do not hesitate to contact Elexpert for assistance.



### STEP 1 Equipment required:

Provided by Elexpert:

- LED Light and Power supply. (driver)
- Cable ties.
- Labels ( E, L, N) and

Tools:

- Flat screwdriver. (5mm)
- Star screwdriver. (5mm)
- Allan key.

- Wire cutter / Stripper.
- Multimeter.
- Ladder/Lift/Crane

Safety equipment.

- Gloves.
- Hard hat
- Harness
- Safety Boots
- Cloth.
- Warning labels.

Other:

- Lightning arrestor.

### STEP 2 Preparation

Survey environment for possible dangers. Barricade if required to keep people clear.

Follow the safety / lock out procedure: *Switch off relevant circuit – Fix the 'work in progress' sign through the hole in the circuit breaker.*

Ensure the warning label cannot be accidentally knocked off.  
Write the installers Cell phone number on the warning sign.

- Dress safety equipment.
- Use lift / crane operating instruction or use ladder:
- Erect ladder at first light to be retrofit.
- Place all equipment in work bag.
- Climb up the ladder, and then secure the ladder.
- Check that the light / power supply is not too hot,
- if so, wait for it to cool down.



### STEP 3 Change driver / socket

This will depend largely on type of fitting. The basic procedure is however the same namely to remove the old power supply and reflector and connect the new driver and install the light.



The steps to follow are as follows:

- Remove globe and reflector.
  - Remove globe (check that it is cold).
  - Now remove covers and reflector.
- Test supply to be dead.
  - Live to neutral, live to Earth, Neutral to Earth

Retrofit:

- Disconnect all existing wires to and from the control gear.
  - Remove old control gear.
  - Clean cut all wires and re-strip.
- Install new driver.
  - Insert Elexpert Driver in an appropriate position in the box.
  - Secure driver to the box. Use cable ties or screws.
- Connect wires to the driver and socket.
  - Connect wires from the light socket to the (+ -) terminal block.
    - **Yellow to positive; Black to negative.** on the driver.
    - Connect earth to the driver.

Connect the driver input wires to the terminal block.

- (L N E): **Live to L, Neutral to N, Earth to E.**

Check that all wires are connected correctly.

At a visible position on the fitting, clean the surface and stick the new Elexpert label on the side, this ensures that only the correct lights be installed.

#### **STEP 4 Install LED light and test**

- Wipe the light fitting (glass) with clean cloth.
- Screw in the Elexpert LED light until it is tight.
- Mark the required position and remove.
- Unlighted the grub-screw and turn base of light to desired position.
- Tighten grub-screw and screw light in to align with target area.
- Test the light:
  - Switch on power temporarily.
  - Check light is burning brightly.
  - Check fan is running freely.
  - Switch power off again.
- If any problems, re-check all connections.
- If still not working, change LED light.
- If still not working change driver as per procedure.
- Close the light fitting.

#### **STEP 5 Completion**

- Collect all equipment.
- Climb down.
- Move to next light
- When all lights on circuit is done, switch on and remove label.
- Continue with next circuit until all is done.

