



STELLA LUX

LED CONVERSION

Next Generation Lighting for your Classic

Congratulations on your purchase of a Q Parts STELLA LUX LED Conversion, representing a technological breakthrough for classic vehicle lighting, achieving modern performance lighting levels which are up to four times brighter than a standard H4 halogen; providing vastly improved visibility and increased road presence enabling drivers to see up to 100m further ahead without dazzling oncoming traffic; for a safe, confident driving experience whatever the conditions. Featuring latest silicone substrate Sanan 4070 LEDs, with single side emitting light source technology for improved light density and ultra-slim, double sided copper PCB for low thermal resistance and increased lifespan. Manufactured from aircraft grade aluminium, incorporating dual ball bearing fans for maximum cooling efficiency and adjustable collar for optimised beam pattern.

Specification:

LEDs: Sanan 4070

Effective Lumens: 5100 High / 2300 Low

Colour: 4700K Natural Colour

Voltage: 12V or 24V

Load: 4.0A

Polarity: Negative or Positive Earth

Lifespan: 30,000+ Hours

Fitting: H4, P43T & P45T

Ingress Protection (IP): 67

Temperature range: -45°C to +115°C

Warranty: 5 Years

Contents:

LED Light unit x 2

P43T Adaptor x 2

P45T Adaptor x 2

Effective Lumens are the actual output of a light source, measured by an Integrated Light Sphere. Comparisons cannot be made with Raw Lumens, which are a theoretical value often used to overstate LED performance by manufacturers which lack the required and costly testing equipment to provide genuine performance data.

Suitability:

Designed for use in classic cars equipped with 7" headlights that utilise Lucas pressed steel headlight bowls (reference HB1/SML3/S5400). For vehicles fitted with either P43T or P45T lamp assemblies.

Alvis, Aston Martin, Austin Healey, Ford, Humber, Jaguar, Land Rover, MG, Mini, Morgan, Morris, Riley, Rover, Sunbeam, Triumph, Wolseley.

Please Note:

To assess suitability for other vehicle marques not shown above, a minimum clearance of 45mm between the rear of the lamp fitting and the back of the headlight bowl is required to enable sufficient space for the LED light unit to operate without interference.

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Tools Required

You do not require any specialist tools to install the STELLA LUX LED Conversion aside from basic equipment to facilitate access to the headlight. For most this will include a flat or cross point screwdriver and some masking tape to assess and adjust the dipped (low) beam pattern. For more information on headlamp disassembly please refer to your vehicle's workshop manual.

Before you begin

Isolate your vehicle's power supply. Failure to do so may result in a fire or electrical fault. On vehicles where the outgoing light source has been adjusted correctly and has been assessed to be compliant with local driving regulations; mark the existing beam pattern by positioning the vehicle with the headlights set back 15-20 feet from a flat vertical surface e.g. garage door/wall/fence panel. Turn the headlights to dip (low) beam setting and use masking tape to mark the projected dipped beam pattern position on the vertical surface. Right hand drive vehicles should have a dipped beam with a defined 45° light angle, positioned up and to the left, left hand drive vehicles should have a defined dipped beam with a 45° angle, positioned up and to the right. NB the above method does not apply where complete headlamp assembly is being undertaken. For further information please see 'Beam Adjustment' note below.

Instructions:

The instructions below are intended to provide general guidance only, with access to the head light unit varying according to application (the images below show installation on an MGB, with RHD H4 P43T & LHD H4 P45T headlamps).

Installation

Ensure the power to the headlamps is off.

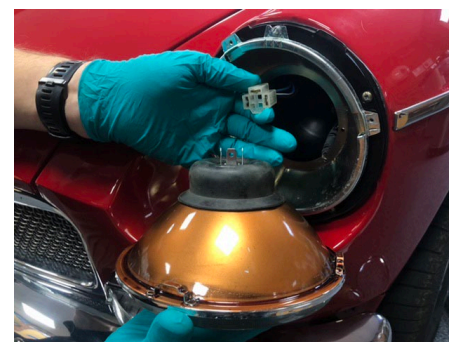
Having removed any trim to access the headlamp assembly, carefully remove the fasteners securing the headlamp retainer to the inner bowl, being sure to support the headlamp.



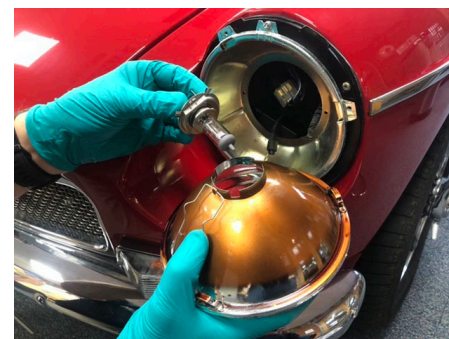
Remove the headlamp from the inner bowl to enable access to the rear.



Disconnect the electrical connector block and if applicable, the pilot lamp from the headlamp and set the headlamp to one side.



Remove weather-shield boot and existing H4 bulb from the headlamp

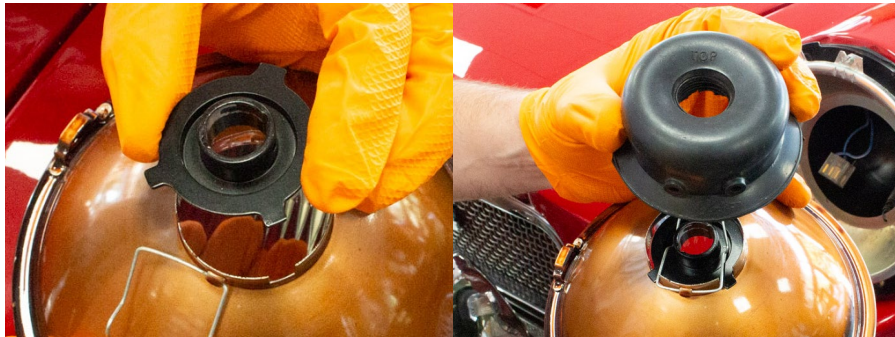


Taking a Q Parts LED light unit, hold the base of the lamp in one hand and the LED H4 P43T adaptor in the other, gently twist the base of the lamp in an anti-clockwise direction to remove from the adaptor.



The following is for P43T fitment. If using P45T please skip to "8."

Locate the LED H4 adaptor within the rear of the headlamp and re-fit the wire retaining clip and weather-shield boot, pressing the inner part of the boot around the adaptor.

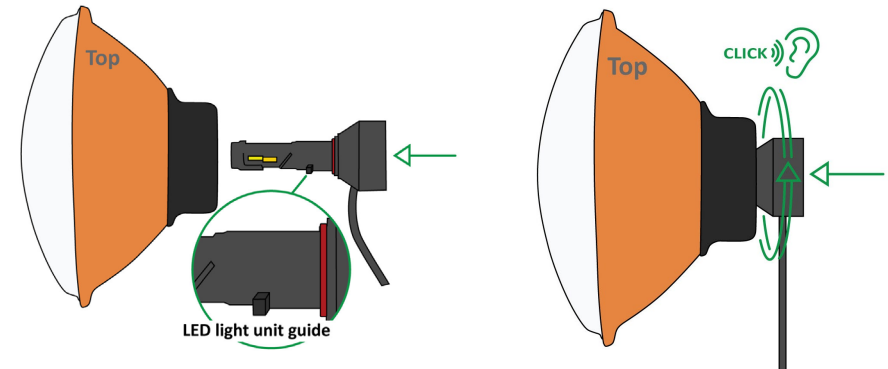


The following is for P45T fitment. If using P43T please skip to "10."

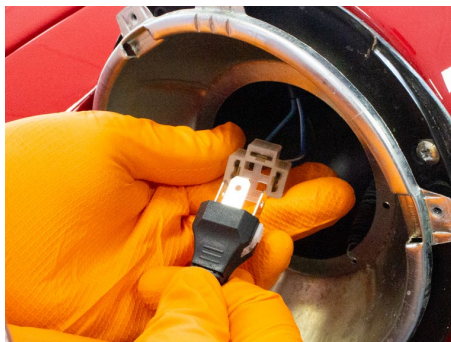
Locate the LED H4 adaptor (supplied loose) within the rear of the headlamp and re-fit the spring retaining clip and weather-shield boot, pressing the inner part of the boot around the adaptor.



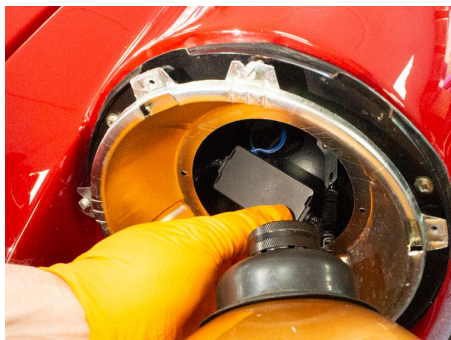
Examine the front of the headlamp lens and orientate so that the top of the lamp is upper most. Locate the LED light unit guides into the grooves on the adaptor, then push the LED light unit against the adaptor and rotate clockwise until you hear a click. The cable should point straight down from the LED light unit.



Attach the three pin male plug to the existing female block connector on the vehicles wiring loom, ensuring the connection is snug. Before continuing, **make sure there are no exposed electrical components** which could come into contact with the internals of the headlamp assembly (these should be insulated with electrical tape where necessary).



To reinstall the headlamp, guide the lamp assembly into the inner bowl making sure the rear of the LED light unit does not trap the wiring loom or foul the connector and/or driver within the headlamp bowl. Incorrect fitment will prevent reinstallation of the headlight retaining rim and inhibit beam adjustment.



Holding the lamp in place reattach the retaining rim.

The installation of both LED light units must be complete before testing.

Repeat steps to complete installation, check and adjust beam (see below) prior to refitting finishing trim.

Beam Adjustment

Headlamp beams must be set in accordance with local regulations. If you are undertaking conversion of the H4 bulbs only, please refer to the note entitled 'Before you begin'. Following installation, turn on your headlights to dip (low) beam setting and compare your projected beam pattern to the previous marks.

For vehicles where new headlamp assemblies have been installed, the beam pattern should be assessed and adjusted by a qualified professional.

Basic Vehicle Construction Requirements:

Stella Lux LED Conversion is designed to be compliant with current UK MOT testing requirements when fitted to Lucas 7" headlamp assemblies. The nature of the UK MOT test is limited to checking the beam pattern only to ensure that this does not dazzle, currently the test does not extend to inspecting the light source. The Stella Lux LED Conversion achieves CE and ROHS accreditation, separate to European Type approval. It should be noted that international UN agreements that the UK was a signatory to from 1958 were written at a time when only filament bulbs were available as light sources, predating the introduction of LED light technology. For other territories, it is the responsibility of the vehicle's owner or driver to ensure conformity with applicable regulations prior to purchase and installation.

Warranty

Engineered by Q Parts, a Stella Lux H4 LED conversion is backed by a 5 year warranty.

To view these instructions in French, German or Italian please scan the QR code below.

