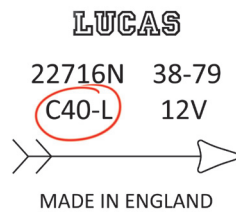
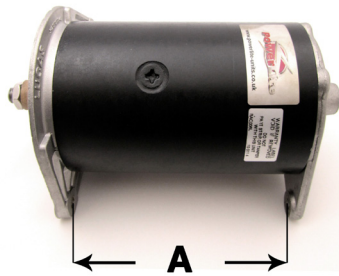


# WHICH ONE DO I NEED?

The Dynalite units are based upon original dynamo models therefore to choose the correct Dynalite the original unit needs to be identified. Identifying your existing dynamo is simple, Lucas dynamos are stamped with the model type. (Rust and paint may need to be removed to identify type). The diagram below shows the text found on C40L dynamo.



If the dynamo cannot be identified from the stamping, the following table can aid identification from the fitting dimensions.



Fitment	A (mm)
Lucas C40/C39 (all types)	144
Lucas C40L	154
Lucas C42 (all types)	173
Lucas C45	165

# WIRING:

## What changes need to be made to the wiring?

The Dynalite unlike a dynamo is self regulating, therefore the control box is redundant. There are two ways to rewire the control box for the Dynalite unit. The first is to simply bypass or use the control box as a junction point with two small wiring changes. The second and preferred option is to fit a Powerlite dummy control box.

## Dummy Control Boxes:

Identical in fitment and appearance to the original, the dummy unit is pre-wired to aid the necessary changes. Dummy boxes are fitted with an 40A fuse, protecting your electrical system. We recommend the use of dummy control boxes where applicable.



RB340



RB106  
(Screw type available)



RF95

All wiring between the battery and Dynalite should be rated to at least 40Amps (unless stated).

All Dynalites are supplied with full wiring diagrams and fitting instructions.

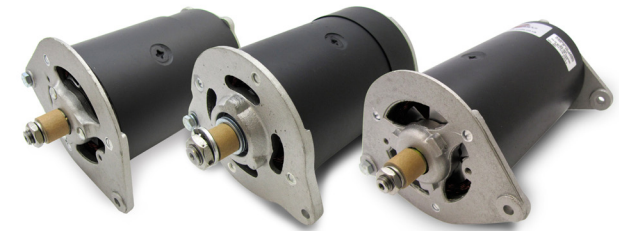


## Positive Earth:

Unlike a Dynamo which can be re-polarised, an alternator cannot. Therefore units are available in positive earth. Positive earth units are identical in appearance and fitting to Negative earth units, except for the addition of a relay. (included with all positive earth units).

ALL YOU NEED TO KNOW:  
**DYNALITE**  
ALTERNATOR CONVERSION

Made in UK



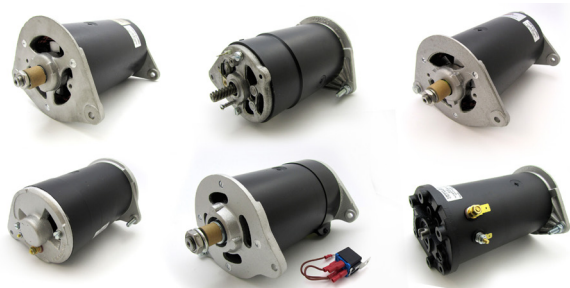
# LUCAS TYPES



[www.powerlite-units.com](http://www.powerlite-units.com)



## THE RANGE:



The Dyalite range covers the majority of popular Lucas type dynamos, fitted to the majority of British cars in the 50's and 60's. The most common types are C39/C40, C42 and C45. The C39/C40 was generally fitted to most small and medium sized cars whilst the C42 and C45 were generally used on larger saloons and sports cars.

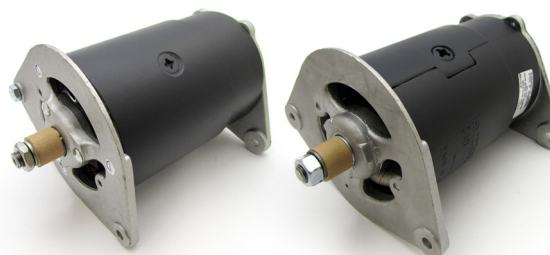
\* Use C40 units to replace C39 type units.

TYPE (O/E unit)	POLARITY	PART NO.
C40	-	RAC006
C40	+ EARTH	RAC024
C40L	-	RAC006L
C40L	+EARTH	RAC025
C40 Tacho	-	RAC006T
C40 Tacho Right Angle	-	RAC027
C40L Tacho	-	RAC006LT
C42	-	RAC007
C42	+ EARTH	RAC026
C42 Power Steering	-	RAC023
C45	-	RAC008
C45	+ EARTH	RAC014
C47/48	-	RAC017
C40 Tacho	+ EARTH	RAC030T
C45 60 AMP	-	RAC033

## FITTING:

The philosophy behind the Dyalite is to create an alternator that is identical to the original dynamo unit in appearance and fitting, requiring no modifications to the vehicles existing mountings or wiring connections.

\* Some wiring changes are necessary.



DYNALITE

DYNAMO

The Dyalite uses the same output shaft as the original dynamo allowing the original fan and pulley to be used. \* Dyalites **MUST** run a cooling fan. Original types are acceptable.

\* Dyalites operate best using a 2:1 pulley ratio. It is sometimes necessary to use smaller pulleys on large saloons with low revving engines.

**ALLOY PULLEYS:** We offer a range of lightweight pulleys and uprated fans suitable for Dyalites.



## SPECIAL UNITS:

Power steering and Tacho drive models are available. These are identical in fitting to the original units and can be directly substituted.



## DYNALITE BENEFITS:

Powerlite Dyalites are individually designed and hand built by highly experienced auto electricians in our West Midlands based factory. Ideal for both road and competition, the original Powerlite Dyalite provides the benefits of a modern alternator, whilst retaining the original appearance of a dynamo. All Lucas type Dyalites are identical in fitting to original units, requiring no fitting kits, brackets or other modifications to the vehicle.

### KEY FEATURES:

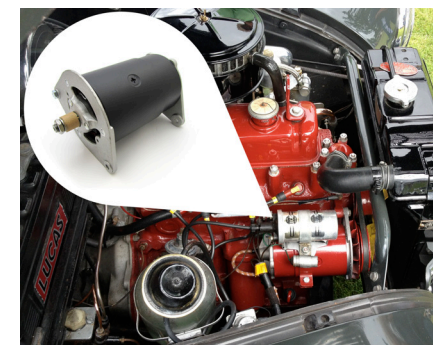
Identical Fitting To Original.

Up to 80% More Powerful.

Up to 40% Lighter.

Positive Earth Models.

Tacho Drive & Power Steering models.



**Dyalite fitted:**  
The Dyalite retains the period and authentic look of the original Dynamo, combined with modern practicality.

High Torque Starters . Lightweight Alternators.  
Slimline Starter Motors . Remanufacturing  
Service.

### POWERLITE

Moor Street, Brierley Hill, Dudley,  
West Midlands,  
DY5 3SU, ENGLAND  
[www.powerlite-units.com](http://www.powerlite-units.com)