

TWO HEADLAMPS CONTROL RELAYS TR2-6

Part Number: **RR1527**

CONTENTS:

2 off relays: one for main beam and one for dipped beam 2 off inline blade type fuses with holders.

2.5 metres brown cable with 2 tails for relay power supply and fuse connection.

1/2 metre black cable for relay trigger earth.

2 metres THIN blue with white trace cable for relay trigger.

2 metres THIN blue with red trace cable for relay trigger.

3 metres THICK blue with white trace cable for headlamp supply power.

3 metres THICK blue with red trace cable for headlamp supply power.

12 Lucar connector terminals to fit the blades on the relays and the fuses.

1 off eyelet terminal with a 5/16" / 8 mm hole to attach the THICK brown power cable to the battery terminal or starter solenoid.

3 metres THICK blue with white trace cable for headlamp supply power.

3 metres THICK blue with red trace cable for headlamp supply power.

12 Lucar connector terminals to fit the blades on the relays and the fuses.

1 off eyelet terminal with a 5/16" / 8 mm hole to attach the THICK brown power cable to the battery terminal or starter solenoid.



QUALITY PARTS AND ACCESSORIES



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1 off eyelet terminals with a 3/16" / 3 mm hole for the black cable to screw at the end of the earth.

4 off female single bullet receptacles.

2 off female double bullet receptacles.

6 off male bullets.

2 metres 6mm diameter sleeve to tidy cables in.

3 metres 8mm diameter sleeve to tidy cables in.

2 self-tapping screws to attach relay holders and earth relay trigger cable.

Quantity cable ties for securing sleeving and cables.

Tools Required

Basic car mending plus :- A soldering iron and soft solder.

Electrical circuit tester (bulb and wire will suffice)

Drill and Drill bits

Wire Strippers/cutter

Wire terminal crimpers

Method

1. DISCONNECT AND REMOVE THE BATTERY FROM THE CAR.
2. Cut 10 cm (4") from each of the 2 THIN brown wire tails attached to the assembled brown wire. This leaves the 2 tails still the same length but 10 cm shorter.
3. Fit Lucar terminals to the ends of each of the 10 cm long THIN brown wires. These wires are the link from the fuse to the relay holders.
4. Fit Lucar terminals to the ends of each of the 2 THIN brown wire tails.
5. Select a suitable 'live' battery power point under the bonnet, (this is positive on negative earth cars and could be the battery cable clamp, starter solenoid etc).
6. Select a suitable position under the bonnet near the headlamps that the relay pack and fuses can be fitted.
7. Route the assembly brown wires towards the position the relay pack will fit from the chosen live power point. The 2 THIN brown wire tails will be nearest the headlamps. - Do not cut the THICK brown wire at this time or secure it to the car.

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8. Disconnect the headlamp blue/white and blue/red wires from their bullet connectors on both sides of the car leaving the existing female bullet receptacles attached to the headlamp loom bullet ends. NOTE. The loom wires are colour coded the same as the headlamp wiring. Take note and mark which wire connects to which original colour.
9. Cut the THICK 3 metre blue/white trace wire into 1 x 1 metre and 1 x 2 metre lengths.
10. Cut the THICK 3 metre blue/red trace wire into 1 x 1 metre and 1 x 2 metre lengths.
11. Fit a single male bullet to one end of the THICK blue/white and blue/red wires.
12. Connect the 2 longer THICK wires (one blue/red and one blue/ white) with bullets to the headlamp wiring furthest from the intended relay position and the 2 shorter THICK wires to the nearer headlamp wiring using the existing 4 off female bullet receptacles.
13. Fit a single male bullet to one end of each of the THIN blue/white and blue/red trace wires.
14. Connect the THIN blue/white and blue/red trace wires to the car loom bullet connectors to which the nearest headlamp wiring was originally connected using the single female bullet connectors provided. Fit the other 2 loom bullets with connectors provided to insulate them.
15. Establish a suitable position for the relay holders under the bonnet considering the length of wire now attached to headlamps, power source and vehicle under bonnet loom. Mark and drill the position for the relay holders. Each relay connector should have a fuse holder adjacent to it. Note also that the relay and fuse holders can all slide and clip together neatly to form one unit if space allows. They should be mounted out of the line of incoming air and water, avoid rotating engine parts or moving bonnet hinges etc and with sufficient space for subsequent relay and fuse replacement.
16. Cut the 1/2 metre black wire into 2 equal lengths. (2 x 1/4m lengths)
17. Fit one female Lucar connector to the end of each black wire.
18. Join the other ends of the 2 black wires and fit the 3 mm ring eyelet terminal.
19. Route the THICK wires from the furthest headlamp to the relay position, cut to length and fit an appropriate length of sleeve.
20. Route the THICK wires from the nearest headlamp to the relay position, cut to length and fit an appropriate length of sleeve.
21. Join the 2 THICK blue/red wires at the relay position and fit one Lucar connector.
22. Join the 2 THICK blue/white wires at the relay position and fit one Lucar connector.

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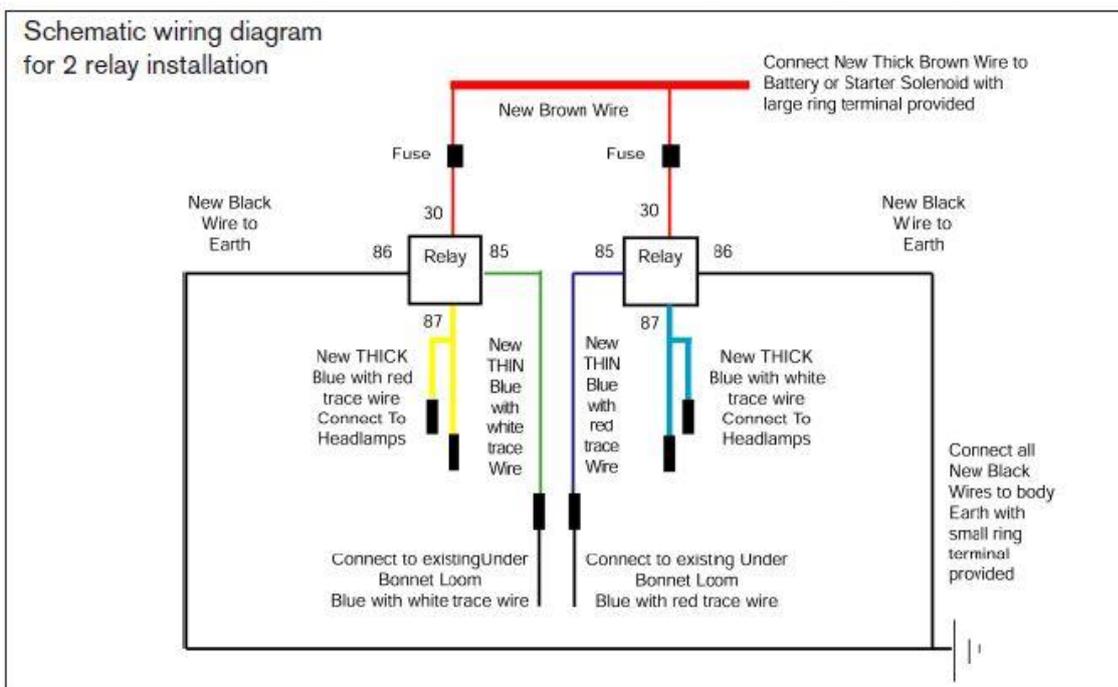


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23. Route the 2 THIN blue wires with colour traces from the under ,bonnet loom to the relay position, cut to length, fit an appropriate length of sleeve, and fit a Lucar terminal to each wire.
24. Insert the Lucar terminals in the fuse holders and relay holders to correspond with the relay terminals. Refer to the diagrams for their positions. NOTE: The THIN blue wires from the under bonnet loom should be connected to correspond with the same colour coded. THICK wires from the headlamps at the relay holder. If this is not done the headlamp high beam warning lamp may not illuminate when the headlamps are in high beam setting, or worse still you could result in one headlamp on main and the other on dipped beam.
25. The 3 mm ring terminal on the black earth wire should be connected to a suitable body earth.
26. Cut the THICK brown wire live power feed to length, fit an appropriate length of sleeving, and fit 8 mm eyelet by soldering or crimping.
27. Connect to the 8 mm eyelet ring terminal to the selected power source. (battery or starter solenoid etc.)
28. All the new wiring should be neatly routed as required and clipped securely so it cannot chaff or be caught by moving parts.
29. Refit and reconnect the battery.
30. Function test the headlamps. A resounding 'donk' may be heard as the headlamps are operated; this sound is the relays working and is quite normal.



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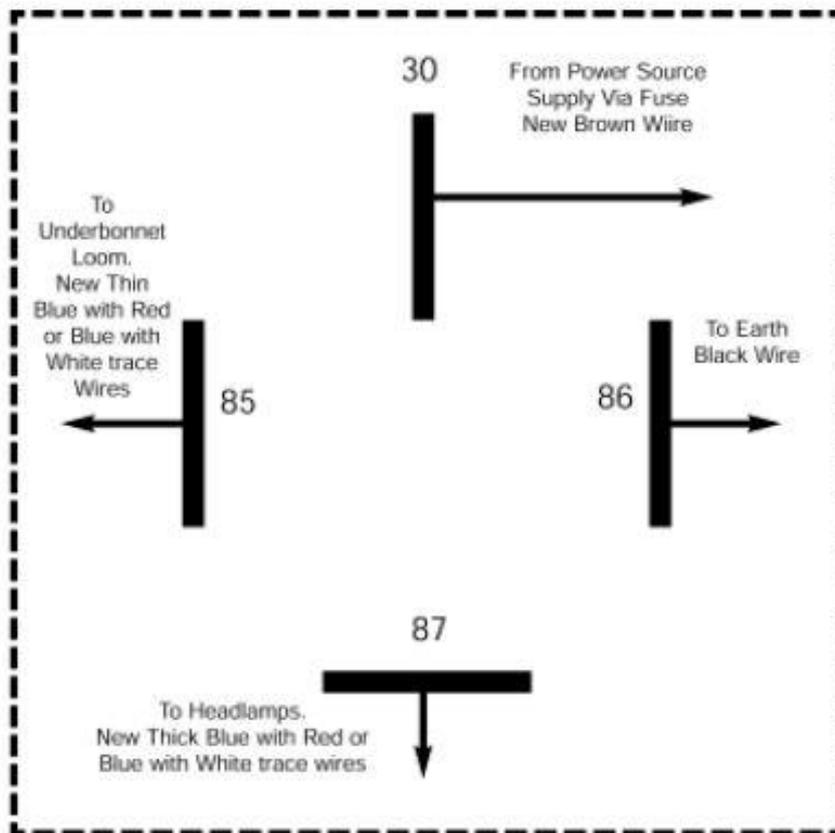


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Terminal Layout View of Relay Connectors



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