



Headlamp Relay Kit Installation Instructions M104D

Before you begin:

Please read the instructions carefully prior to installation, familiarising yourself with the connections on your car and check that the pre-installed relay wires correspond with the wiring diagram and pin arrangement below prior to installation.

Tools Required

Wire Crimps
Wire Strippers (Optional)
Soldering Iron and Solder (Optional).
Snips
Electric Drill
Drill Bit 3mm
Posi Driver

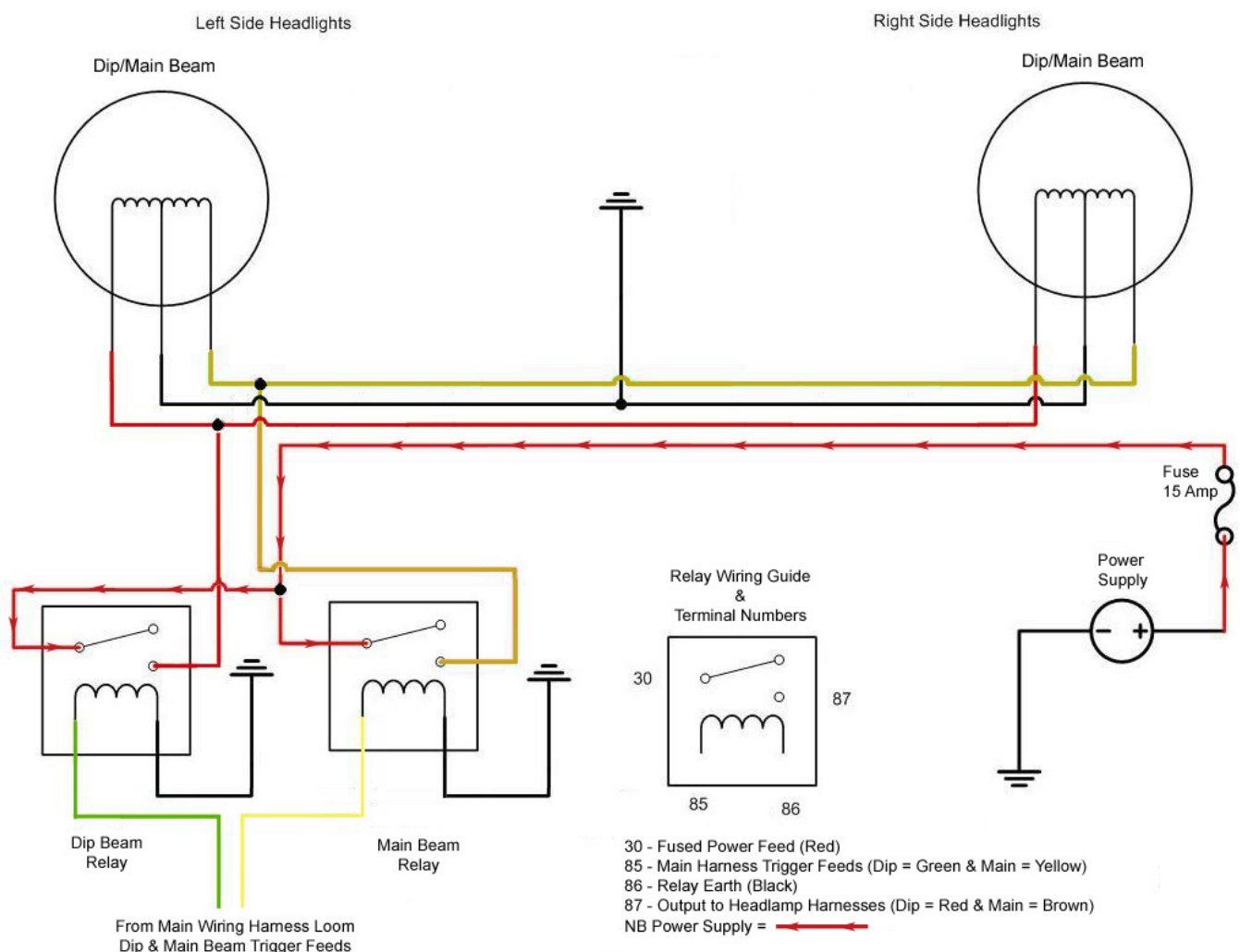
1. Disconnect your vehicle's battery
2. Locate a suitable power feed. (We suggest using a spare terminal on your starter solenoid or fuse box. NB if there are no spare male spade terminals available, an additional piggy back terminal has been supplied to aid installation on the fuse box; crimp and reconnect the feed wire as necessary)
3. Decide on a convenient location for the relays on the RH inner wing (Driver's side for RHD car), noting that you should position these within the reach of your headlamp harnesses. (For the installation on our 1964 MGB, we positioned the relays near to the bonnet prop bracket, and slightly above and forward of the 4 terminal fuse box. For Midget installation we would suggest locating the relays above and forward of the hydraulic brake light switch, affixed to the front wheel arch assembly).
4. Mark the mounting screw positions and then drill two holes using the 3mm drill bit. Remove the area around the hole of paint to provide a good earth.
5. For each relay take the relay earth wire (short black wires with crimped eyelets) and pass a self tapping screw and star washer through the eyelet before passing the screw through the mounting hole of the relay and then tightening the screw into one of the holes drilled in instruction 4 above. Repeat for the second relay, smearing copper grease over both earths.
6. Locate headlamp wiring harnesses at the end of the main loom (these are identified by 4 way bullet connectors)
7. If necessary remove and set aside any loom fixings to facilitate ease of access to the main loom.
8. Unfurl and straighten the four long wires which are connected to the relay.
9. Identify the Dip (Blue/Red) and Main (Blue/White) wires from the harness and disconnect them from the bullet connections.
10. Feed the four wires of equal length from the relays, following a path along the main harness to the front of the car.
11. Snip the wires to a desired length, remembering to allow sufficient length to crimp or solder on the bullet connectors. (We recommend soldering for best long term efficiency.)

12. Crimp or solder the bullet connectors on the end of the wires
13. Using the supplied 2- Way Bullet connectors and existing 4- Way connectors, connect the four wires as follows:

Blue/White Wire Main Loom Side to Yellow Wire (Pin 85)
 Blue/White Wire Headlamp Side to Brown Wire (Pin 87)
 Blue/Red Wire Main Loom Side to Green Wire (Pin 85)
 Blue/Red Wire Headlamp Side to Red Wire (Pin 87)

NB Depending on the ease of removal you may chose to leave the four way connectors in place on either the Headlamp Loom or Main Loom side. Use the single 2-way connectors accordingly to complete the installation.

14. Re-attach any harness fixings and tidy the wires by securing them to the main harness with cable ties.
15. Depending on the location of the relays and their proximity to a reliable feed it may be necessary to increase the length of the wire supplying the relays (required for Midget installation). To this end an additional spade and female terminal has been supplied along with an extra 0.5mtr of Red 25 Amp wire. We recommend that you leave the in-line fuse-holder with 15 Amp fuse protection in place.
16. Re-Connect the battery and test for operation.



If you require further installation advice please contact sales@mgocspares.co.uk
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