



GVW-WR2-SA

Relay and Bulb Upgrade for 1980-85 Vanagon with South African Grill

The purpose of this kit is to install higher wattage headlights than stock. This kit adds relays to power the headlights directly, relieving the headlight and high beam switches of the headlight load. The original fuse locations and functions are retained.

This kit has been designed for easy installation. However, it does involve cutting and splicing into factory wiring. The installation of this kit is not within everyone's ability. Read through these instructions carefully and decide if installing it is for you. If not, please take your vehicle to an automotive electrician. Wiring errors can be troublesome and hazardous.

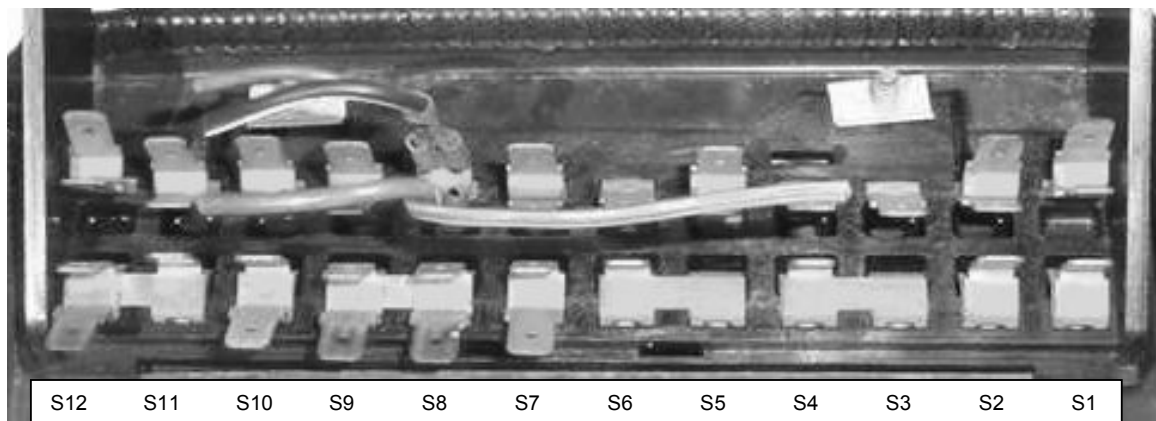
RELAY INSTALLATION

Tools Needed

Phillips screwdriver
Wire cutter
Wire stripper
Solderless terminal crimper (a high quality crimper is a must)

Getting started

1. Disconnect negative terminal of battery (and secondary battery, if equipped).
2. Remove the fuse box cover.
3. Unscrew fuse box assembly from the body.
4. Maneuver fuse box down to allow access to the back side.



Fuse panel rear view (1980-1985)

Wiring low beam relay (on the left when viewing relays from the top with lettering right side up)

1. Find the YELLOW wire with BLACK stripe coming from the bottom of fuse S4.
2. Cut this wire about 4" from the connector and strip 1/4" off of both of the cut ends. (There are other yellow wires with a black stripe nearby. DO NOT CUT those wires.)
3. Crimp the end of the cut wire **coming from the fuse panel** onto the end of the YELLOW or ORANGE wire of the low beam relay.
4. Crimp the other end of the cut wire onto the end of the WHITE wire of the low beam relay.

Wiring high beam relay (on the right when viewing relays from the top with lettering right side up)

1. Find the WHITE wire coming from the bottom of fuse S6.
2. Cut this WHITE wire about 4" from the connector and strip 1/4" off of both of the cut ends. (There are other white wires nearby. DO NOT CUT those wires.)
3. Crimp the end of the cut wire **coming from the fuse panel** onto the end of the YELLOW or ORANGE wire of the high beam relay.
4. Crimp the other end of the cut wire onto the end of the WHITE wire of the high beam relay.

Final relay wiring

1. Unplug largest red wire going to fuse S8. Cut off original connector.
2. Connect that same wire to the circuit breaker using provided ring connector.
3. Plug single red wire from circuit breaker onto S8.
4. Make sure the connectors are fully seated and can't short to neighboring connectors.
5. Connect the BLACK wires from both relays onto the grounding ring on the body above and to the left of the fuse panel.
6. Mount circuit breaker to the right of fuse box with provided screws.

Finish up

1. Mount relays to a convenient part of the body with the Velcro strip (clear of fuse box).
2. Reinstall the fuse box.
3. Replace the 8 amp fuses in locations S5 and S6 with the 25 amp fuses (these are the two fuses for the right and left high beams).
4. Replace the fuse box cover.
5. Reconnect negative terminal of battery/batteries.
6. Test low and high beam headlights (don't forget to turn your key to the ON position).

The installation of the relays is now complete.

BULB INSTALLATION

If you have previously installed the South Africa grill and light housings, simply replace your bulbs with the new high wattage units, just as you would if you were replacing a burned out bulb. If you have not yet installed the grill and light housings, you can replace the bulbs with the before installing the grill and housings.

The H4 90/100 watt bulbs go into the large outer headlights. The H3 55 watt bulbs go in the smaller inner lights. Remove the rubber boot to gain access to the bulb on the inner lights.

Do not touch the glass part of the bulbs with your fingers. Fingerprints will trap heat and cause premature bulb failure. If you do touch the bulb, wipe it clean with a little rubbing alcohol on a clean cloth.

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