



GVW-WR2-ST

Relay and Bulb Upgrade for 1980-85 Vanagons with Standard Grill

The purpose of this kit is to install higher wattage headlights than stock. This kit uses 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.

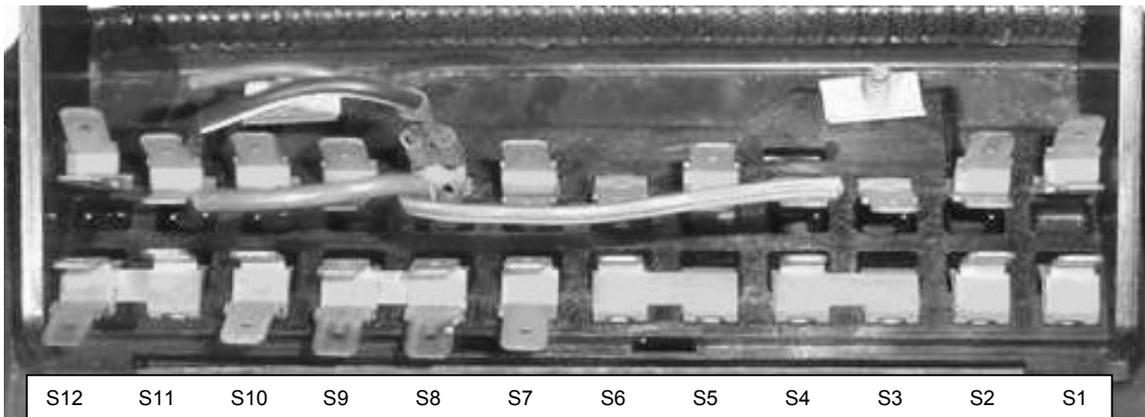
RELAY INSTALLATION

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 or ORANGE wire with BLACK stripe coming from the bottom of fuse S4.
2. Cut this wire about 4" from the connector and strip ¼" 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 ¼" 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 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. (NOT the short red wire that goes from S7 to 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 10 amp fuses in locations S5 and S6 with the 25 amp fuses.
4. Replace the fuse box cover.
5. Reconnect negative terminal of battery/batteries.
6. Test low and high beam headlights.

The installation of the relays is now complete.

BULB INSTALLATION

This section installs higher wattage low and high beam headlights in your 1980-1985 Vanagon/Westy with a standard headlight grill. (Two round headlights)

Parts List

Two 80/100 watt high/low beam headlight bulbs

Required But Not Included

Two Hella "Vision Plus" Headlight lenses

Tools Needed

Slotted screwdriver

Phillips screwdriver

Important note: Do not install these bulbs without first installing the high power headlight relay kit.

Instructions

1. Replace the bulbs that came with the Vision Plus lenses with the high wattage upgrade bulbs.
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.
2. Remove the headlight grill.
3. Install the Vision Plus light assemblies in place of the sealed beam headlights
4. Now is a good time to make sure your headlights are properly adjusted, so your new brighter headlights do not blind oncoming motorists. Refer to your owner's manual.
5. Replace the headlight grill.