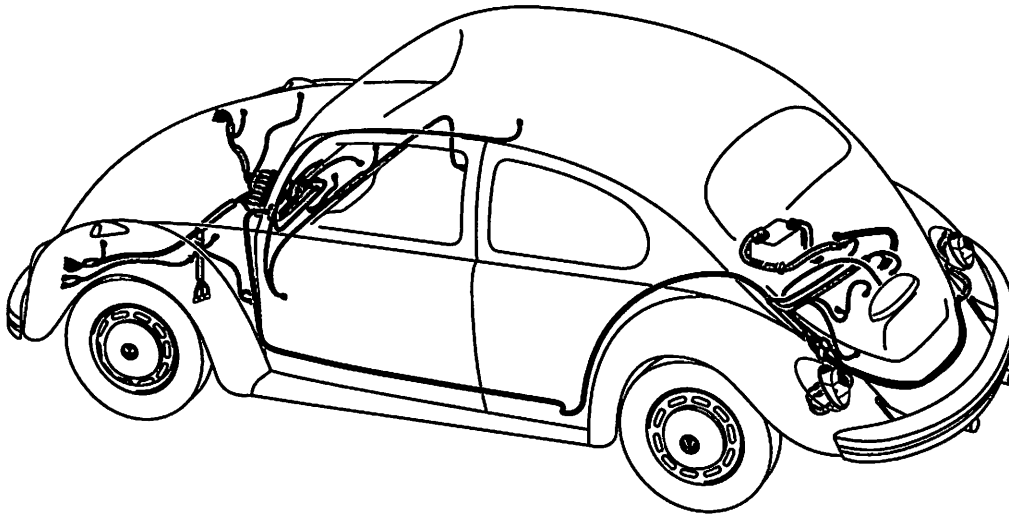


Wire Harness Instructions 1972 Super Beetle



1972 Super Beetle Wiring Harness Kit

This wiring harness kit fits 12-volt Bug sedan and convertible models.

If your Bug has electrical upgrades, such as an alternator, or additional equipment, some modifications will be required.

Basic automotive electronic knowledge is essential for proper installation of this wiring harness. Thoroughly read these installation instructions and study the diagrams to familiarize yourself with the basic layout of your vehicle's electrical system.

Document the routing of the old wiring harness and sub-harnesses prior to removal. A digital camera is a useful tool for this step.

If your car was recently painted, you will need to address certain areas of the body/chassis in order to achieve proper electrical continuity. Use a file, sandpaper or emery cloth to remove paint from the mounting locations of the headlights, taillights, front directional indicator bulb holder, negative battery strap, transmission to chassis strap, etc. Use touch-up paint or nail polish to seal the surrounding areas of the connection to prevent corrosion.

Please note that this kit does not include the wiring for the door buzzer, diagnostic plug or additional wires needed for the Autostick option.

Component List

- Main Harness (1)
- Dome Light Harness (1)
- Headlight Harness (1)
- Brake Light Harness (1)
- Miscellaneous Wires/Sub Harnesses (37)
- Grommets (11)
- Headlight Plugs (2)
- 1-1 Connectors (15)
- 1-1 Male Connectors (13)
- 1-2 Connectors (1)
- 2-2 Connectors (2)
- Main Harness to Body Clips (2)
- Piggy back connectors (2)

Installation

1. Disconnect negative cable from battery. Review the instructions, and identify the various sub-harnesses and supplemental wires.
2. Now the fun begins! Disconnect the main harness connections from their respective locations. Note that the main harness travels along the heater channel and the dome light harness travels through the roof member at the left-hand side of the Bug. With all the wires disconnected behind the dash push the main harness through the grommet in the trunk floor towards the interior of the car. Next, remove the rear seat bottom and left side rear door panel. Along the left heater channel on the interior of the car lift up the carpet where it meets the floor. Along this path you will find 2 clips holding the harness snug to the heater channel. Remove these with a screw driver releasing the harness. Disconnect the wires from the voltage regulator. Next open the engine lid and remove any insulation material that may be present within the cavity located at the upper left corner of the compartment (where main harness exits). The main harness runs under the firewall sound deadener so you may want to remove the engine to gain better access to remove the sound deadener. Disconnect all the wires from the corresponding components. Attach a dragline onto the rear portion of the wiring harness (fish tape or heavy cord material). Overlap the dragline and main harness for about one foot and use duct tape or plastic tape to attach the dragline securely to the main harness. Wrap the tape tightly as to create a strong, streamlined bundle. With the dragline securely attached to the old main harness, pull the harness from the rear as an assistant helps guide the dragline under the rear seat. .
With the old harness removed slide the supplied large 50mm grommet, part # 111971919, onto the tail end of the new main harness and up towards the middle of the loom making sure that the grommet is positioned with the open cup facing forward. Attach the rear of the new main harness onto the dragline under the rear seat in the same fashion as prior. Coat the new harness liberally with wire lube (surgical lube works well, KY Jelly, Astroglide, etc.) and pull the new harness into place from the rear while an assistant helps guide the harness from under the rear seat. Be sure to keep lubricating the new harness as it is being fed while keeping the harness bundle as straight as possible. If the harness becomes stuck, do not force the issue. Reverse the procedure and observe the path of travel and remedy any obstacle. With the harness pulled into position use the supplied 2 new clips to attach the new harness to the side of the heater channel. Feed the front end of the harness through the underside of dash into the trunk area using the new grommet supplied, part # 111971907 See diagram on page (5) for proper connections on the main harness.
3. Remove the dome light from the roof, and disconnect the wires. Remove the wires from each dome light switch located behind each door jamb, and remove the red wire from the fuse box. Attach a dragline onto the wires at the roof opening and carefully feed the dragline through the slot, while an assistant pulls the dome light harness from the front.
Attach the dragline onto the new dome light harness and feed through the front, while an assistant gently pulls the dragline at the roof opening. Connect harness per diagram on page (7)
4. Install new headlight harness, see diagram on page (6). When routing the wires through the supplied rubber grommets make sure to use lubricant to ease the wires through. Use the supplied headlight plugs and refer to the diagram on page (6) to correctly locate the wires into the plug. Route the horn wire bundle through journal in trunk (left side of the trunk, next to brake tubes). Install the appropriate push-on connectors to the harness. (see page 6)
5. Install brake light switch harness . Route the harness through the slot in the body on the drivers side of the fuel tank . Place 3 of the supplied 1-1 male connectors onto the headlight harness wires, yellow/black, black/red and red and plug these 3 wires into the corresponding colored wires from the brake light harness.

6. Install left and right front turn signal/park light harnesses. Use the illustration on page (8) for correct installation. You want to make sure that you connect the black wire to the brighter side of the bulb (see note in upper corner of page (8) for more info).

7. Ignition Switch and Steering Column Harnesses. From the inside of the car plug the harnesses into the underside of the dash next to the steering column. Route the turn signal/wiper harness through the hole on the left side of the column and the ignition switch harness through the hole on the right side of the column. Finish installation using the diagram on page (9). Don't forget to lube the grommets before installation.

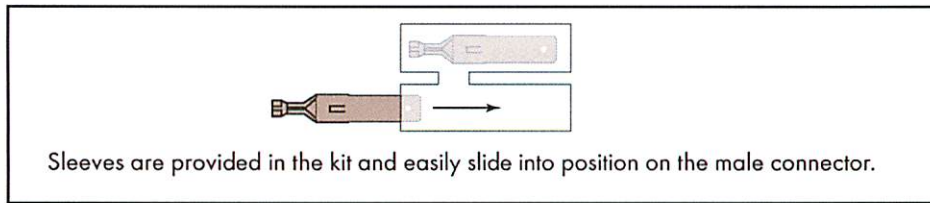
8. Install miscellaneous supplemental wires, see page (10-12) for illustrations:

Its best if you have the dash switches removed from the dash with the terminal identification in clear view when installing the balance of dash wiring.

- Install taillight harnesses (5 wires bundled in white conduit, 525mm length), see diagrams on pages (10 & 5). Install the 1-1 connectors and the 1-2 connector as outlined in the diagram onto the corresponding wires of the main harness. Connect each taillight harness to their respective positions as outlined within the diagram. Use the supplied grommets (center portion has a closed membrane, use knife to open small slice in center) to route each harness through the quarter panel.
- For the back-up lights follow the diagram on page (8) to install the necessary wires.
- Install license light harness (grey and brown wires in black conduit, 1250mm length) , see diagram on page (10). The grey license light wire connects onto the 1-2 connector of the right taillight harness. Route the wire to the license light assembly while observing its proximity to the fan. Keep the slack of the wire as far away from the fan as possible. Use two of the 1-1 male connector sleeves to plug into the license light.
- Attach the dash ground wire harness (brown wire many connectors) using the diagram shown on page (12).
- Attach misc. power wire harness using the diagram shown on page (7).
- Attach choke power wire from terminal 15 of the coil, to choke element located on the side of the carburetor and to idle shut off valve. (black wire, 425mm length, one end finished with female quick-disconnect terminal and opposite end finished with short black wire with quick disconnect ends).
- Install the heavy red wire in the PVC sleeve, 920mm long between the starter, terminal 50 through the rear of the floor pan on the drivers side using the supplied grommet and a 1-1 connector. Connect to the thick red wire out of main harness at the voltage regulator.
- We have supplied an extra wire to use on high/low beam relays that have a #30 terminal. You may not need this.

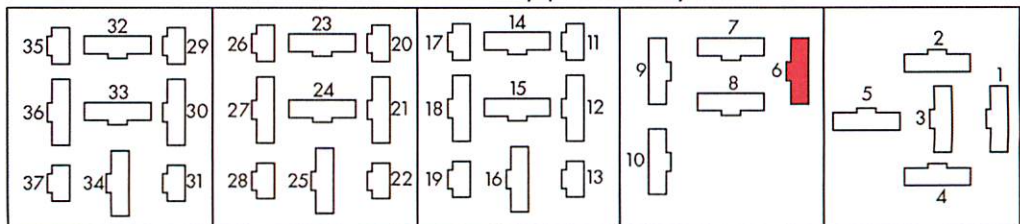
This completes the installation. Review your work to insure that you have not crossed any wires. Reconnect the battery cables and check all the electrical components for proper operation.

Installation of male push-on connector sleeve.



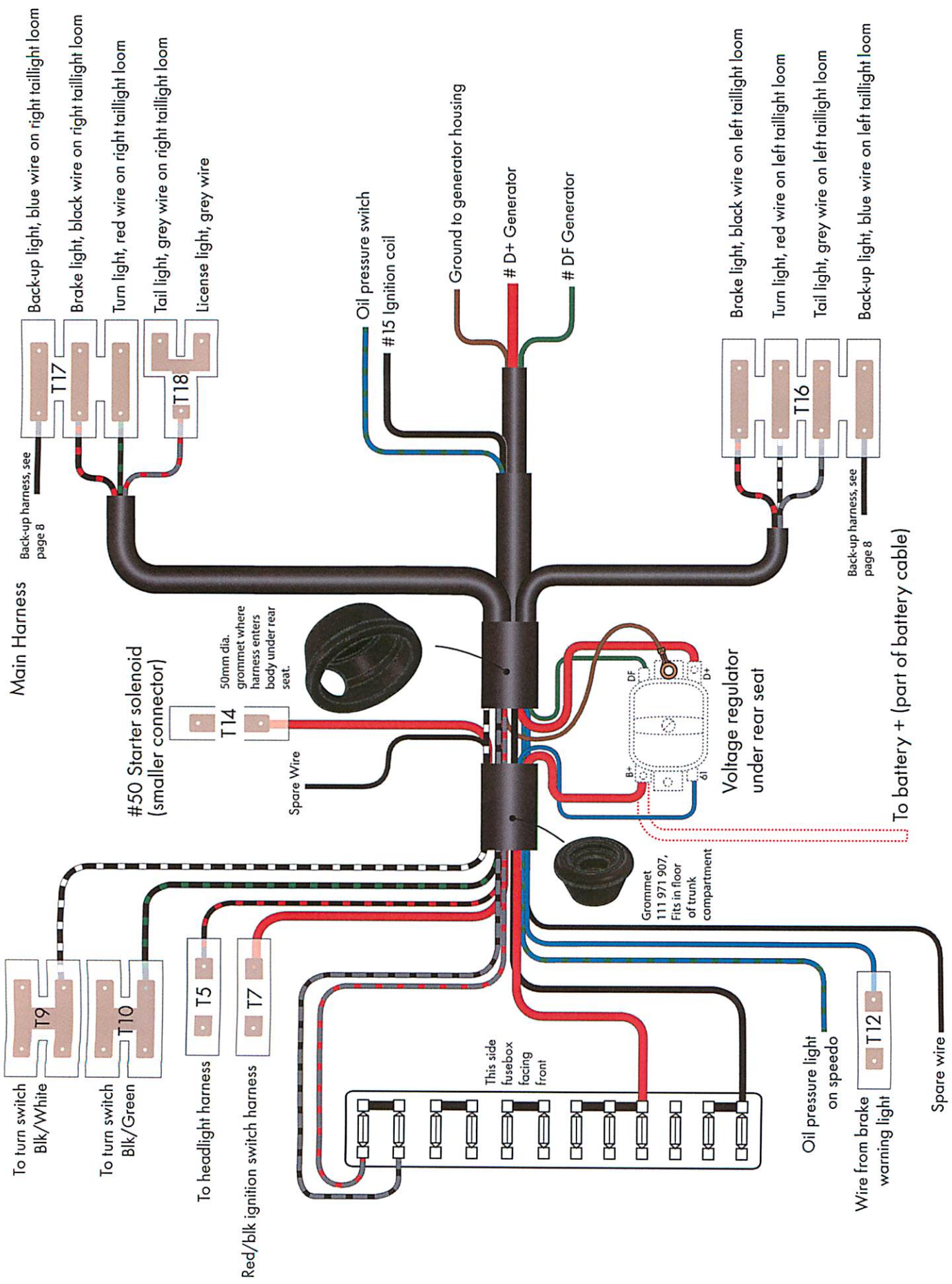
Within the following pages we use the diagram below with a red marking to indicate the exact position of the wire within the relay panel. In this example the wire would be running to the High Beam Relay at the terminal marked in red.

View of fuse box relay panel, relay side.

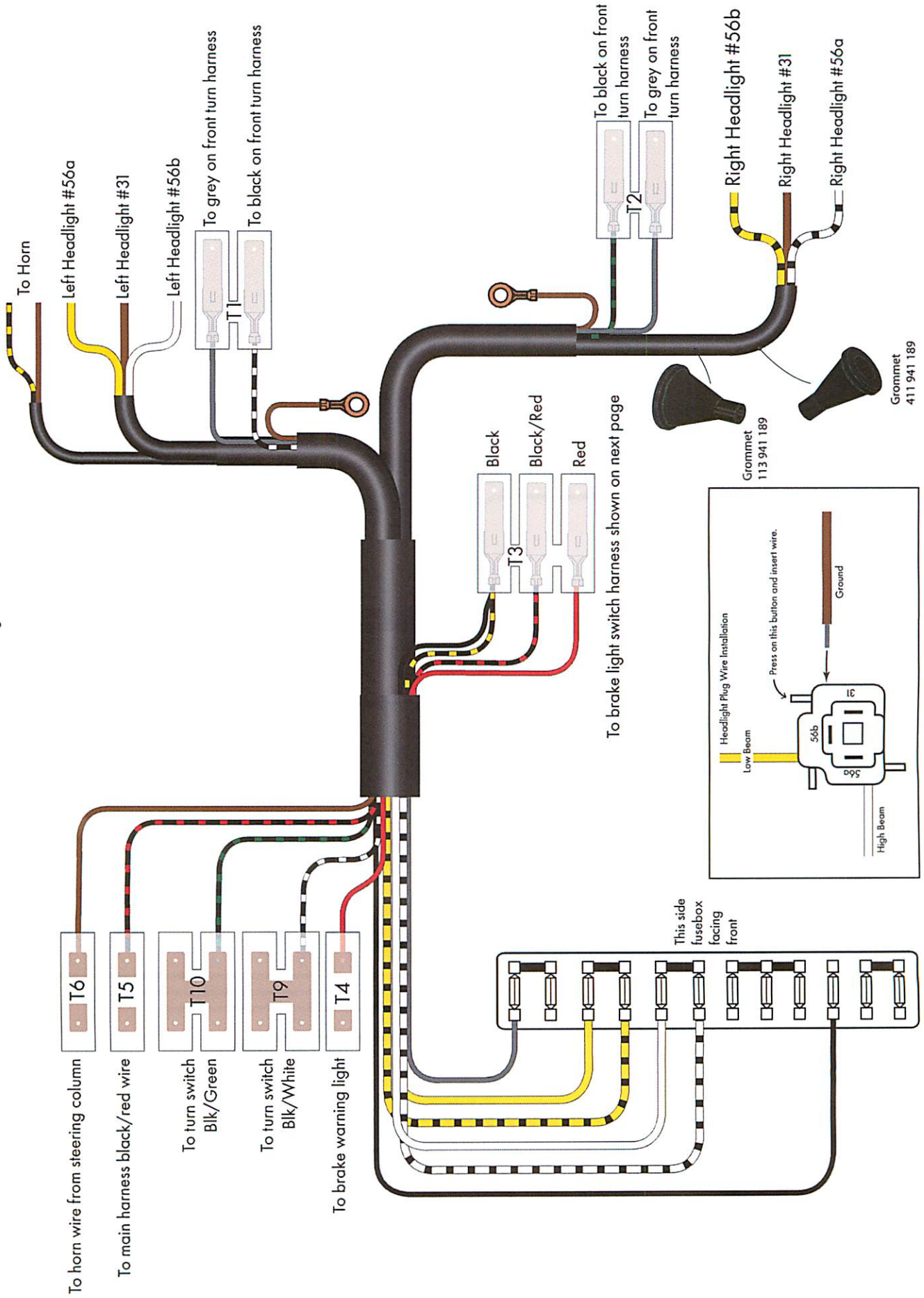


Ignition Buzzer

High Beam Relay Turn Signal Relay



Headlight Harness



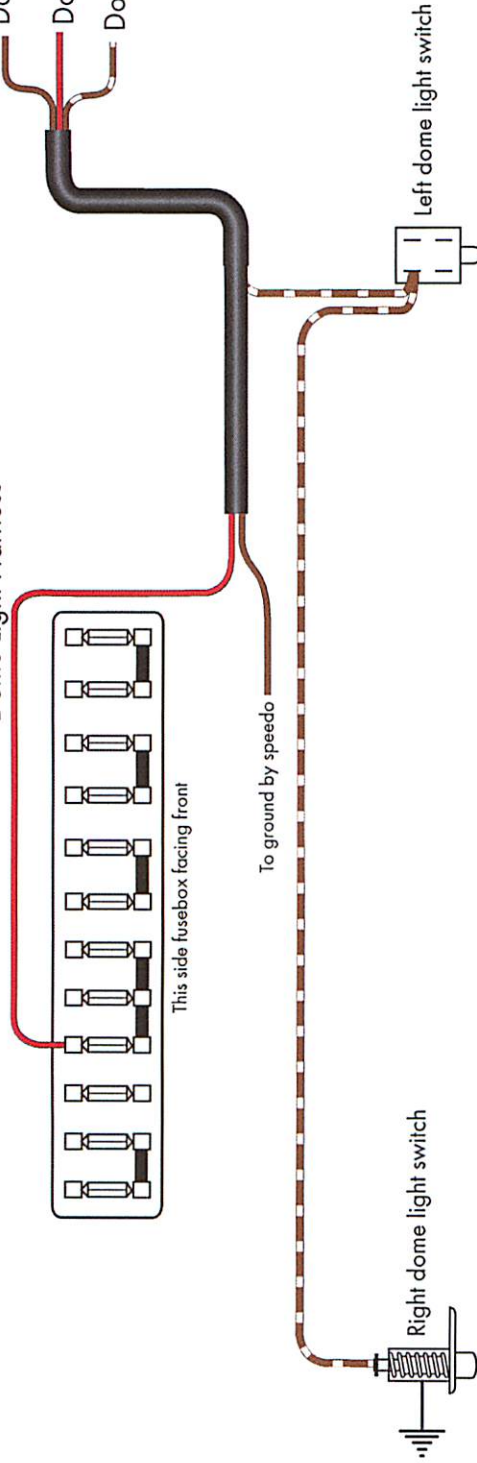
Brake Light Switch Harness



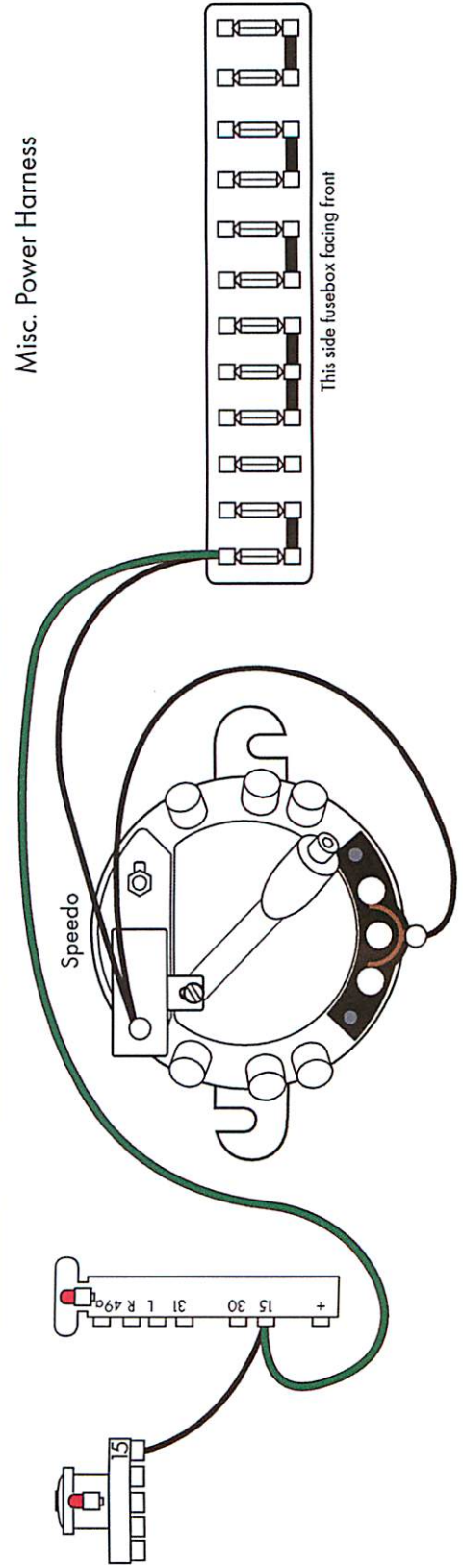
To corresponding wires on headlight harness, connector T3.

Dome light ground side
 Dome light +
 Dome light, switch side

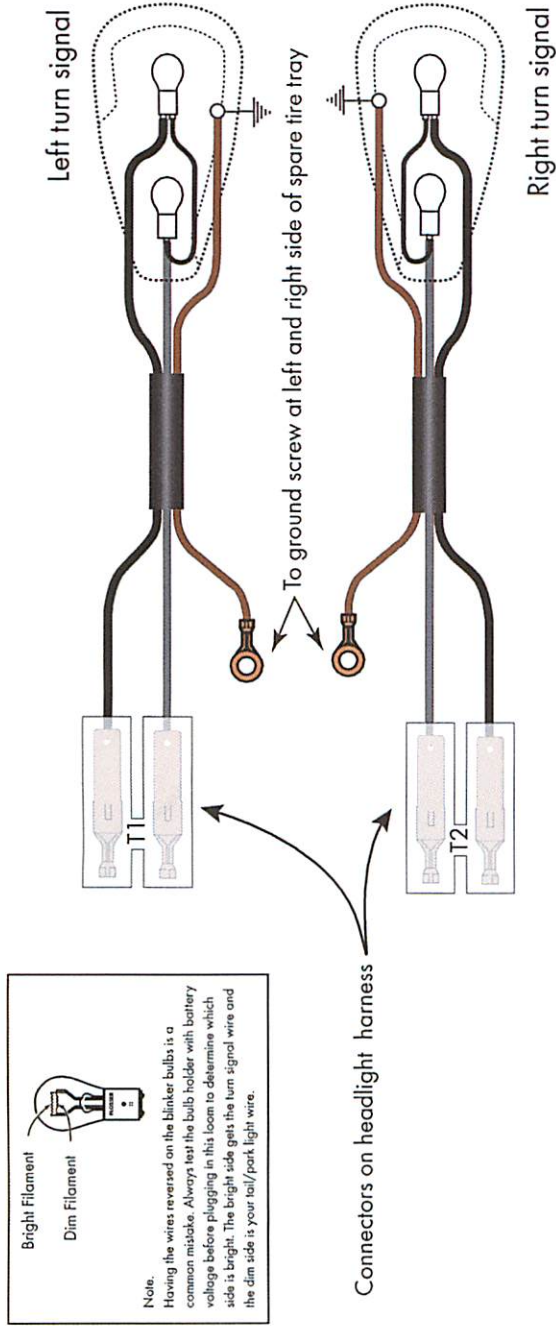
Dome Light Harness



Misc. Power Harness



Front turn signal/park light harnesses

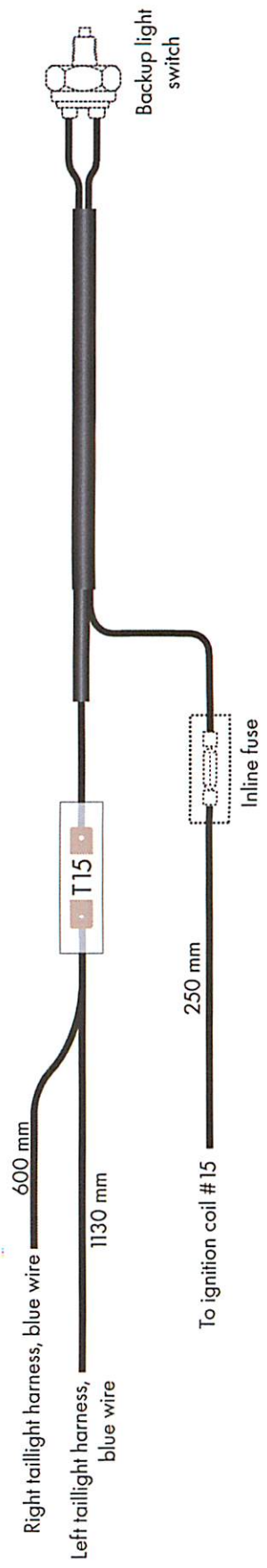


Bright Filament
Dim Filament

Note.
 Having the wires reversed on the blinker bulbs is a common mistake. Always test the bulb holder with battery voltage before plugging in this loom to determine which side is bright. The bright side gets the turn signal wire and the dim side is your tail/park light wire.

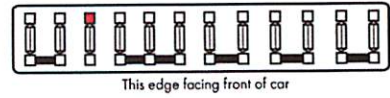
Connectors on headlight harness

Back-up Light Harness



Steering Column Harness

To corresponding wire colors from wiper motor, connector T13. Connector T13 and wiper motor wires are part of the wiper motor and not included.

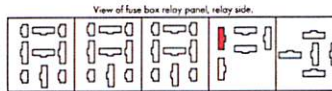


To fuse box (marked in red)

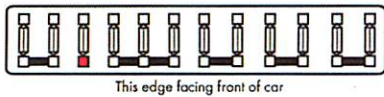
- Connector T10, Right Turn, main harness
- To connector T11, see top page 11
- Connector T9, Left Turn, main harness
- Connector T6, Horn, headlight harness
- To ground by speedo

Grommet
Part number 311 971 907

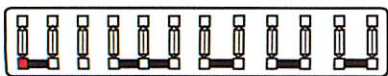
This connector has a lock tab and plugs into the fuseblock at the position shown in red.



Steering Column Harness



Connector T8, door switch, if running door buzzer

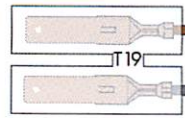


To connector T7, solid red wire, on main harness

Grommet
Part number 311 971 909

This side to license light.
Brown is ground.

Miscellaneous Wires



1300 mm

License light

Grey to T connector (T18) on main harness

Ground tab on side engine compartment shelf.

See page 5

Grommet Part #111 971 911

525 mm

Left and Right taillight harness

Ground on bulb holder

Brake light bulb

Turn signal bulb

Tail light bulb

Back-up bulb

Headlight switch #58b

380 mm

Speedo illumination light

Speedo illumination light

Instrument light wires

Brake warning light #61

500 mm

Generator light wire in main harness

Generator warning light in speedo

Sending unit insulated tab

Fuel Gauge "G"

530 mm

Fuel gauge to fuel tank sending unit

Grnd tab on sending unit

Ground post next to speedo

425 mm

Ignition coil to carburetor choke to idle valve

To headlight harness, red wire, connector T4

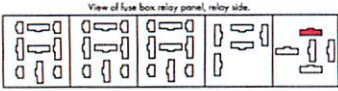
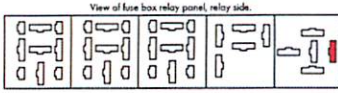
620 mm


Brake warning light, #K

Miscellaneous Wires, continued

Emergency flasher switch #49a  530 mm T11 Turn signal switch, black/green/white

Flasher #49a (marked in red)  690 mm Turn indicator light on speedo

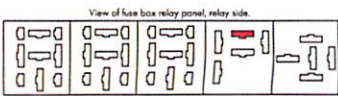
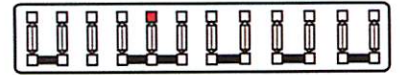



Locking tab  690 mm Flasher #49 or + (marked in red) to emergency flasher switch #+

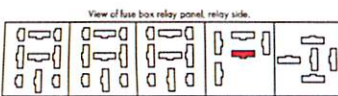
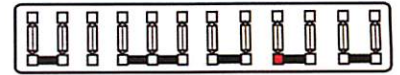
640 mm Turn switch black/green to emergency flasher switch #R


620 mm Turn switch black/white to emergency flasher switch #L

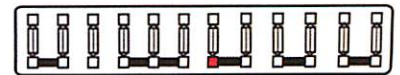
690 mm Emergency flasher switch #30 to fuse box (marked in red)



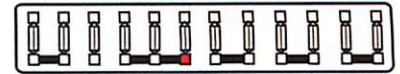
Locking tab  200 mm #56b Headlight relay to fuse box (marked in red)



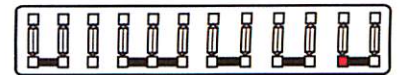
Locking tab  200 mm #56a or "F" Headlight relay to fuse box (marked in red)



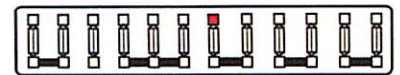
600 mm Headlight switch #30 to fuse box (marked in red)



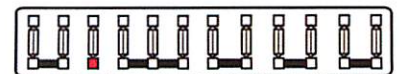
680 mm Headlight switch #58 to fuse box (marked in red)



370 mm High beam warning light on speedo to fuse box (marked in red)

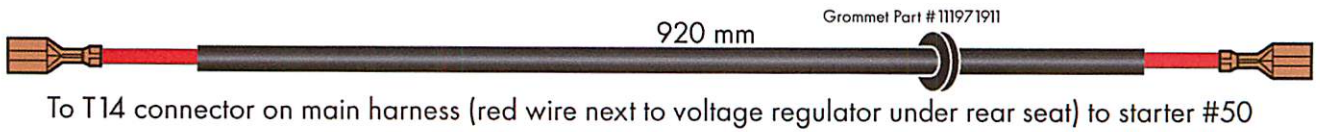
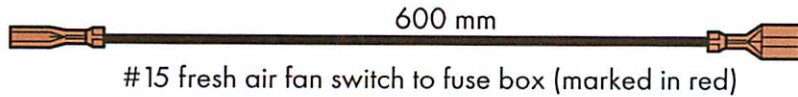
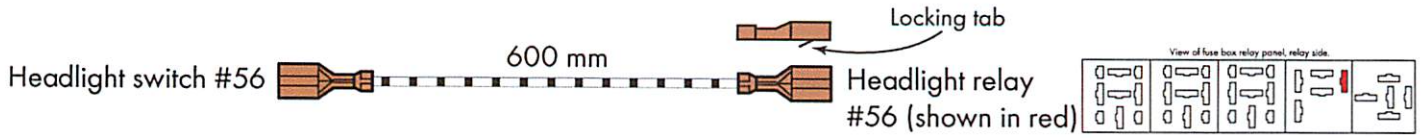


600 mm Headlight switch #X to connector fuse box (marked in red)

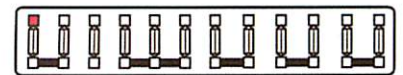
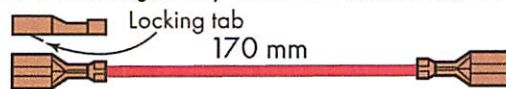
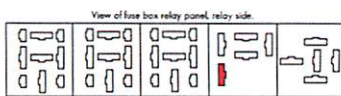


This edge facing front of car

Miscellaneous Wires, continued



If you have a headlight relay with a #30 terminal this wire will be needed.



High beam relay #30 to fuse box (marked in red)

This edge facing front of car

A	Battery	M7	Brake/tail light, left
B	Starter	M8	Brake/tail light, right
C	Generator	O	Coil
C1	Voltage regulator	O1	Automatic choke
D	Starter/Ignition switch	O2	Idle valve cutoff
E	Windshield wiper switch	S	Fuse box, 12 fuse
E1	Rear window defog switch	S1	Back-up light fuse in engine compartment
F	Light switch	T1	Double connector, left quarter panel
G	Turn indicator switch	T2	Double connector, right quarter panel
G1	Emergency flasher switch	T3	Triple connector, left quarter panel
H	Horn button	T4	Single connector, behind speedometer
H1	Horn	T5	Single connector, behind speedometer
H5	Ignition key warning buzzer	T6	Single connector, behind speedometer
J	Turn Signal/Emergency relay	T7	Single connector, behind speedometer
J3	Dimmer relay	T8	Single connector, behind speedometer
J4	Stop light switch	T9	Double connector, behind speedometer
J5	Oil pressure switch	T10	Double connector, behind speedometer
J6	Back-up light switch	T11	Single connector, behind speedometer
J7	Fuel gauge sending unit	T12	Single connector, behind speedometer
J8	Brake warning light switch	T13	4 connector, behind speedometer
J9	Rear window defog relay	T14	Single connector, under rear seat
K1	High beam warning light	T15	Single connector, behind engine sound deadner
K2	Generator warning light	T16	4 connector, behind engine sound deadner, left
K3	Turn indicator warning light	T17	Triple connector, behind engine sound deadner, right
K4	Oil pressure warning light	T18	Y connector, behind engine sound deadner, right
K5	Speedometer light	T19	Double connector, at top of engine door
K6	Fuel gauge vibrator	W	Windshield wiper motor
K7	Fuel gauge	X1	Back-up light, left
K8	Brake warning light	X2	Back-up light, right
L1	Sealed-beam unit, left	Y	Interior light
L2	Sealed-beam unit, right	Y1	Interior light switch, left
M1	Parking light, left	Y2	Interior light switch, right
M2	Parking light, right	Z	License plate light
M3	Turn indicator, front left	Z1	Rear window defogger
M4	Turn indicator, front right		
M5	Turn indicator, rear left		
M6	Turn indicator, rear right		
		①	Battery ground strap
		②	Steering column to steering box ground jumper
		③	Chassis to transaxle ground strap

