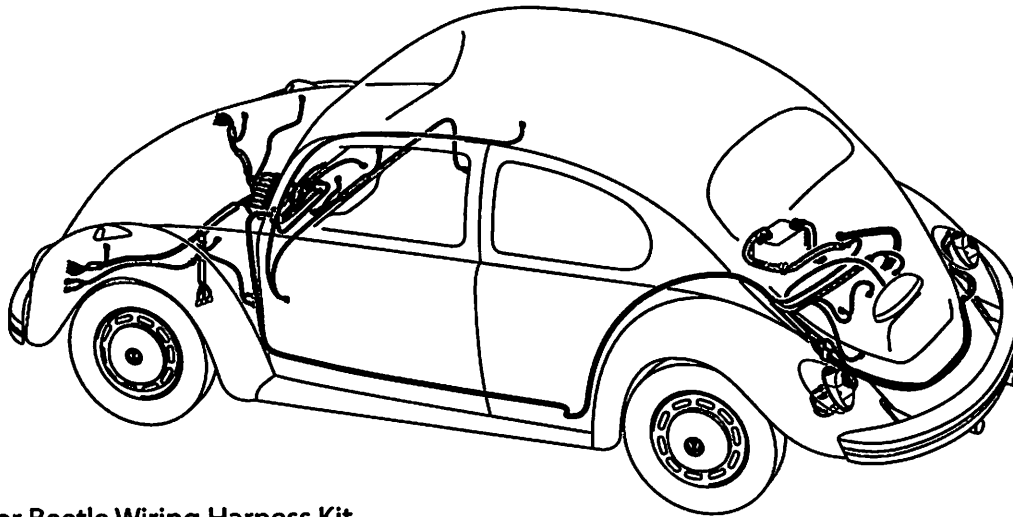


Wire Harness Instructions 1971 Super Beetle



1971 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.

Component List

- Main Harness (1)
- Dome Light Harness (1)
- Headlight Harness (1)
- Brake Light Harness (1)
- Miscellaneous Wires/Sub Harnesses (37)
- Grommets (9)
- Headlight Plugs (2)
- 1-1 Connectors (13)
- 1-1 Male Connectors (9)
- 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 though 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).

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 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 miscellaneous supplemental wires, see page (9-11) for illustrations:

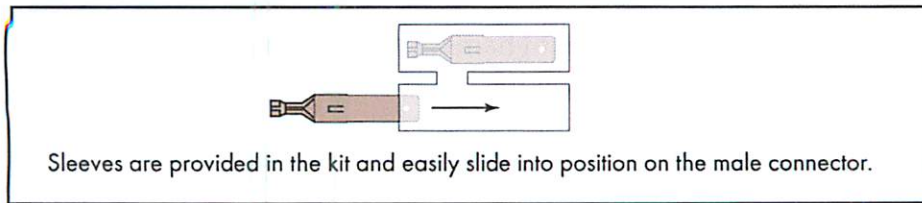
- Install left and right front turn signal/park light harnesses. Use the illustration on page (8) for correct installation. You want to make sure that you connect the black wire to the *brighter side of the bulb* (see note in upper corner of page (8) for more info).
- Install taillight harnesses (5 wires bundled in white conduit, 525mm length), see diagram on page (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 (9). 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 connectors to plug into license light.

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.

- Attach ignition and turn signal switch wires (part of ignition switch and not included). See wire diagram on page 12 for exact locations of the following wires. Larger red wire to fuse box. Smaller red wire to main harness using supplied 1 to 1 connector(T11). Black ignition wire to fuse box .
- Attach the dash ground wire harness (brown wire many connectors) using the diagram shown on page (11).
- 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 using a 1-1 connector to the remaining thick red wire out of main harness at the voltage regulator.
- *If you will be running the ignition key buzzer use the three wires at the bottom of page (11) to complete this circuit.*
- We have supplied an extra wire to use on high/low beam relays that have a #30 terminal. You may not need this.

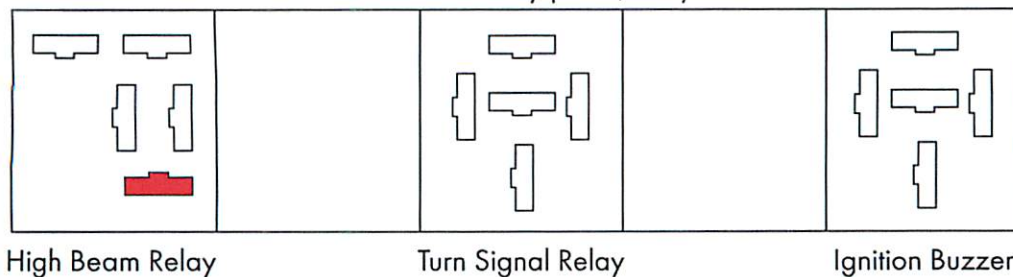
7. With installation now complete, double check all connections. Connect red wire from battery cable to voltage regulator terminal #30. Carefully connect battery and test each system for proper operation.

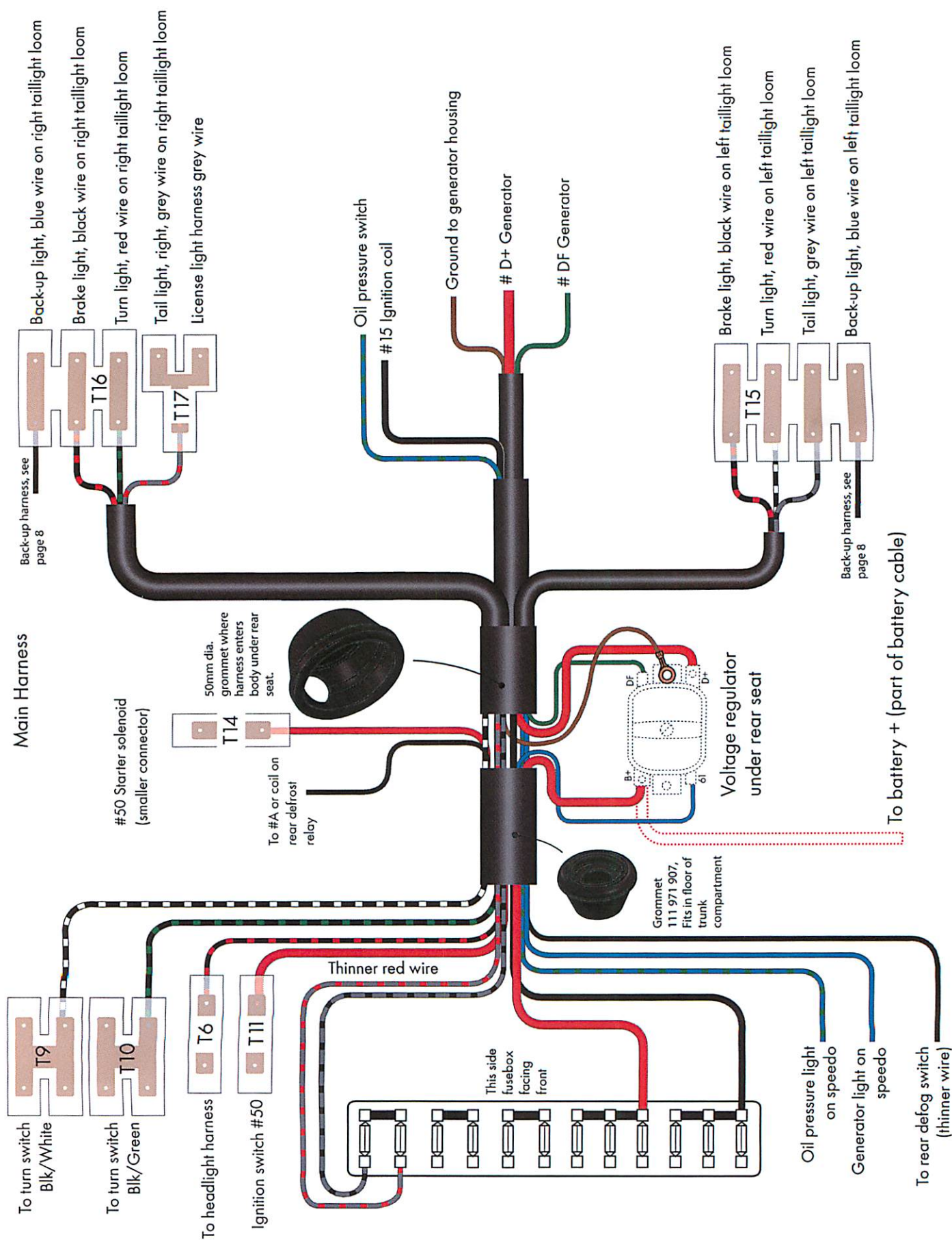
Installation of male push-on connector sleeve.



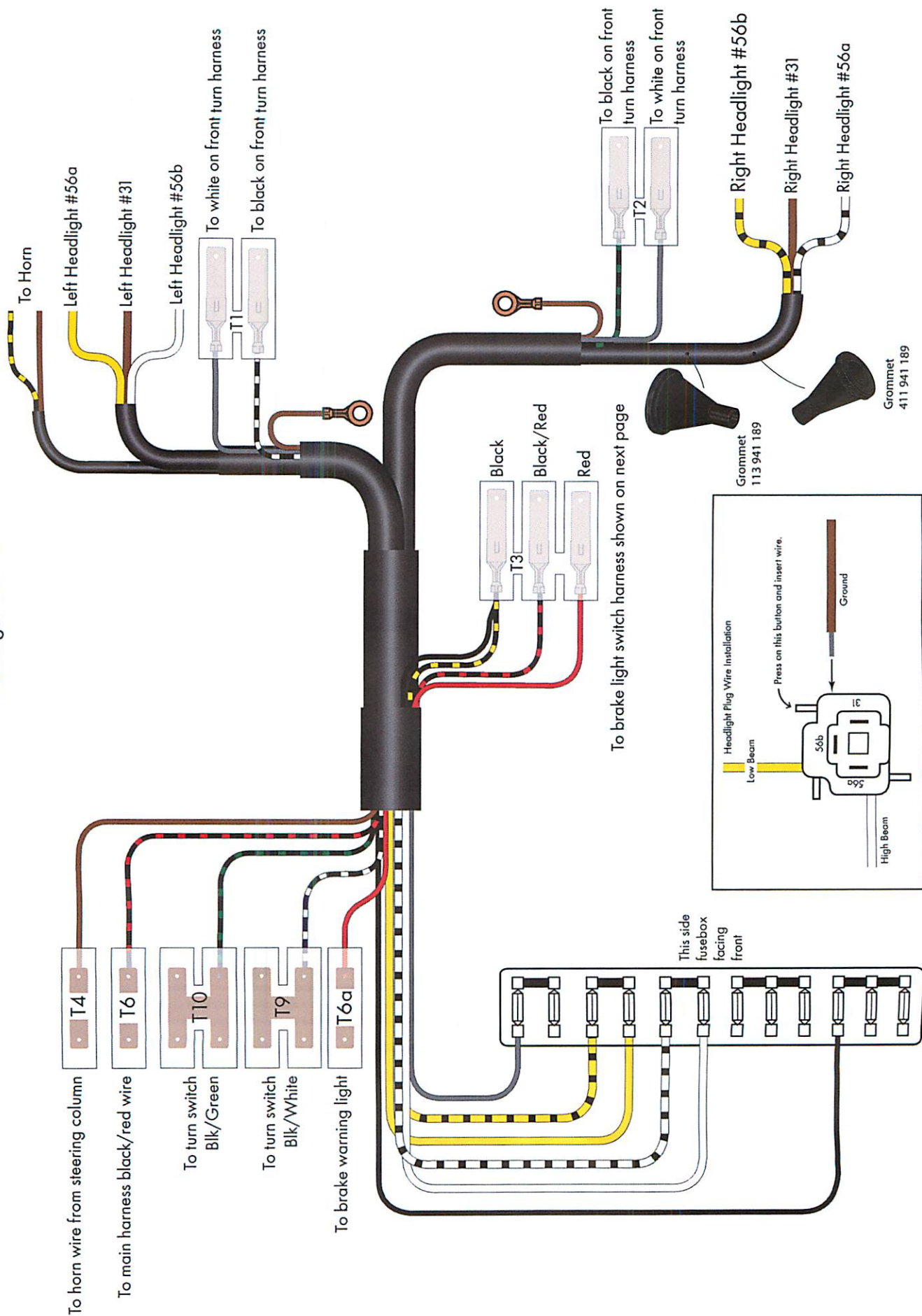
Within the following pages we use the diagram below with a red marking to indicate the exact position of the wire within the relay panel. In this example the wire would be running to the High Beam Relay at the terminal marked in red.

View of fuse box relay panel, relay side.

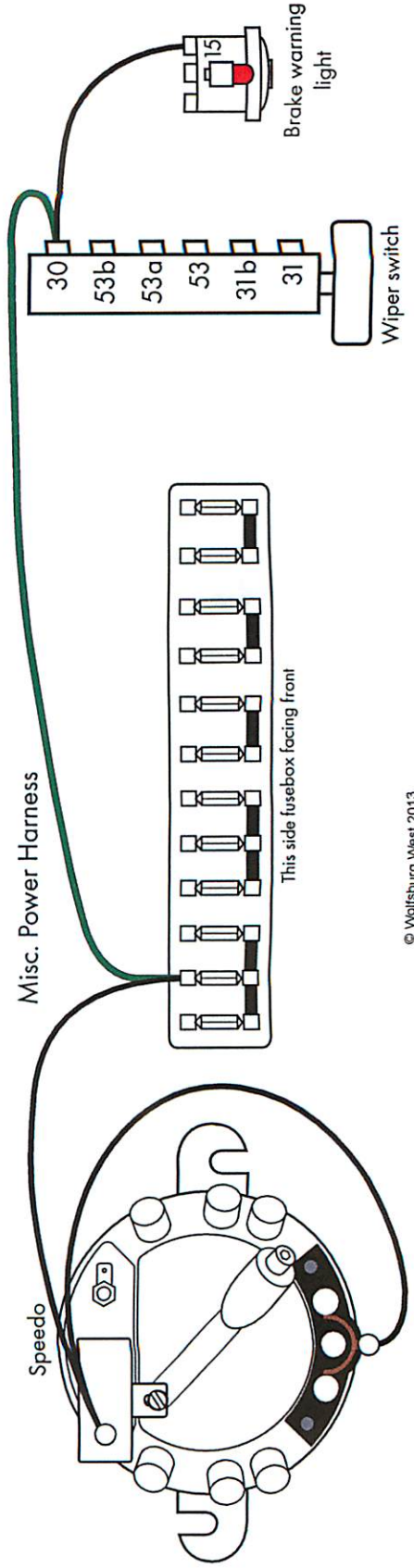
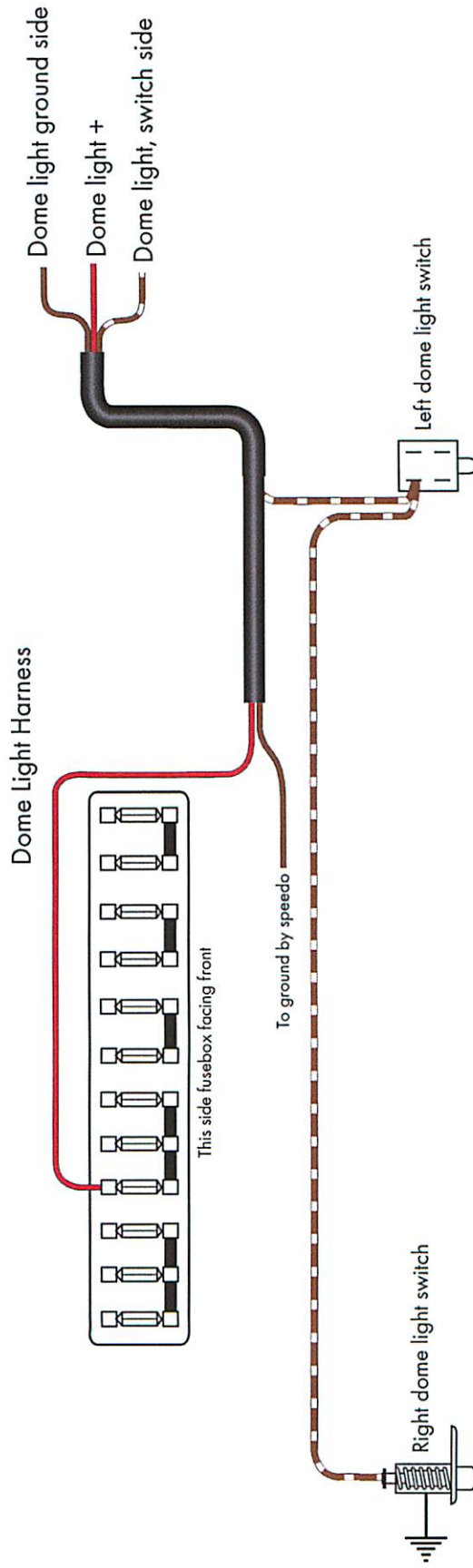




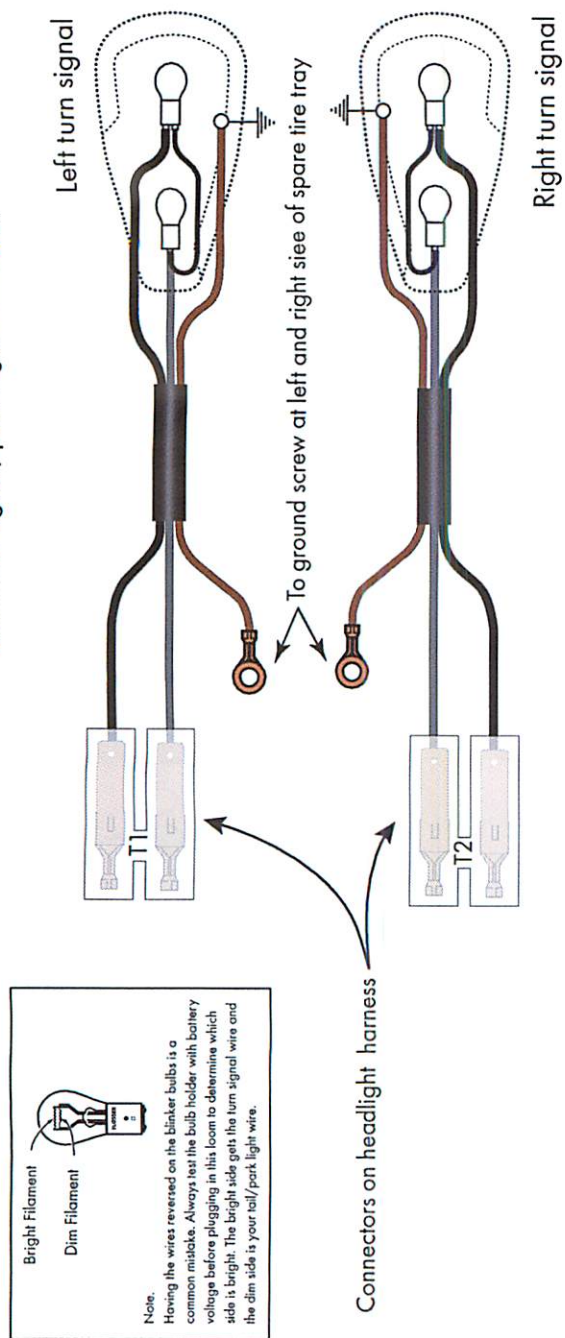
Headlight Harness



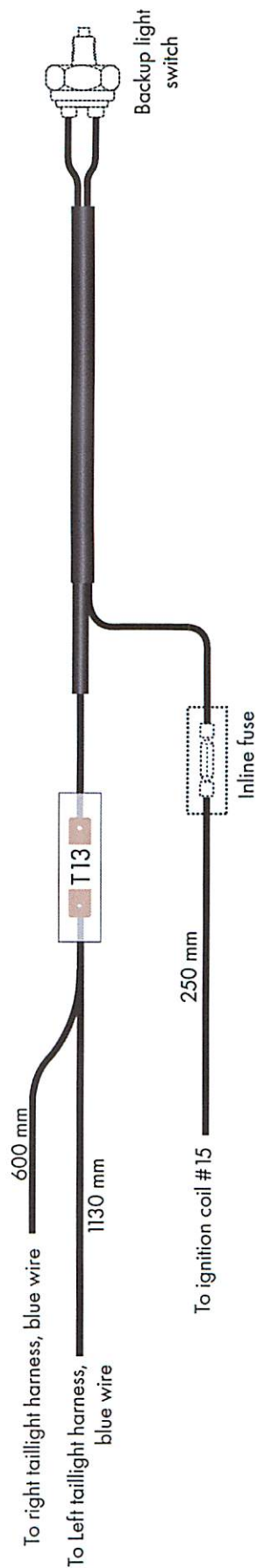
Brake Light Switch Harness



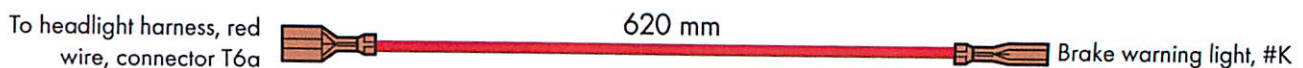
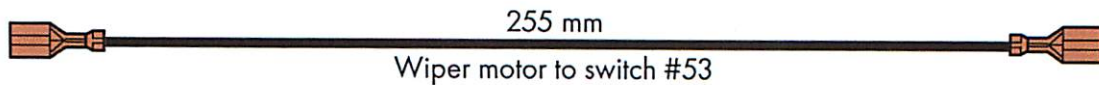
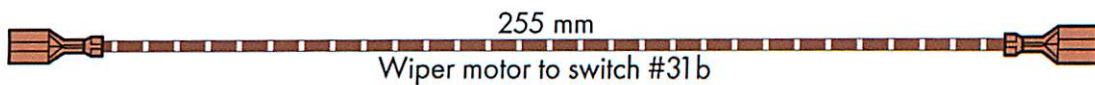
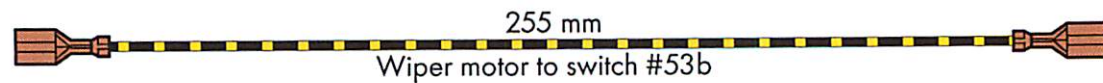
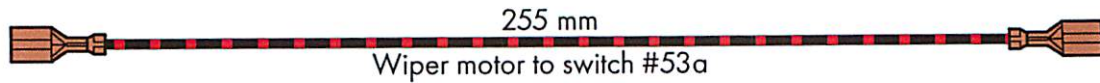
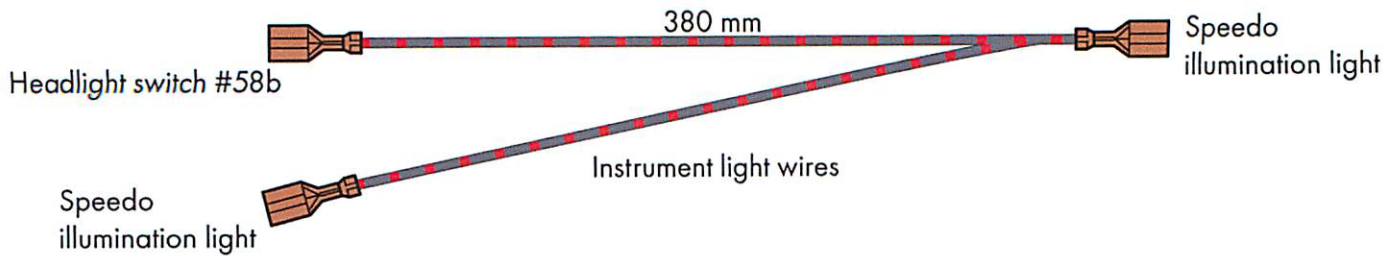
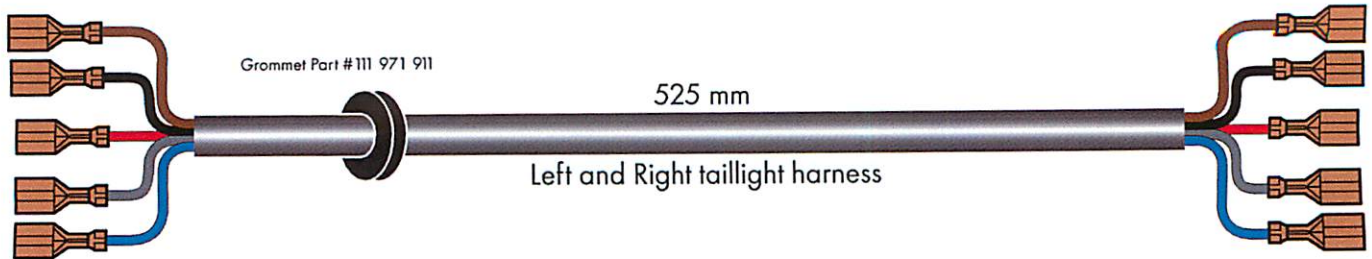
Front turn signal/park light harnesses



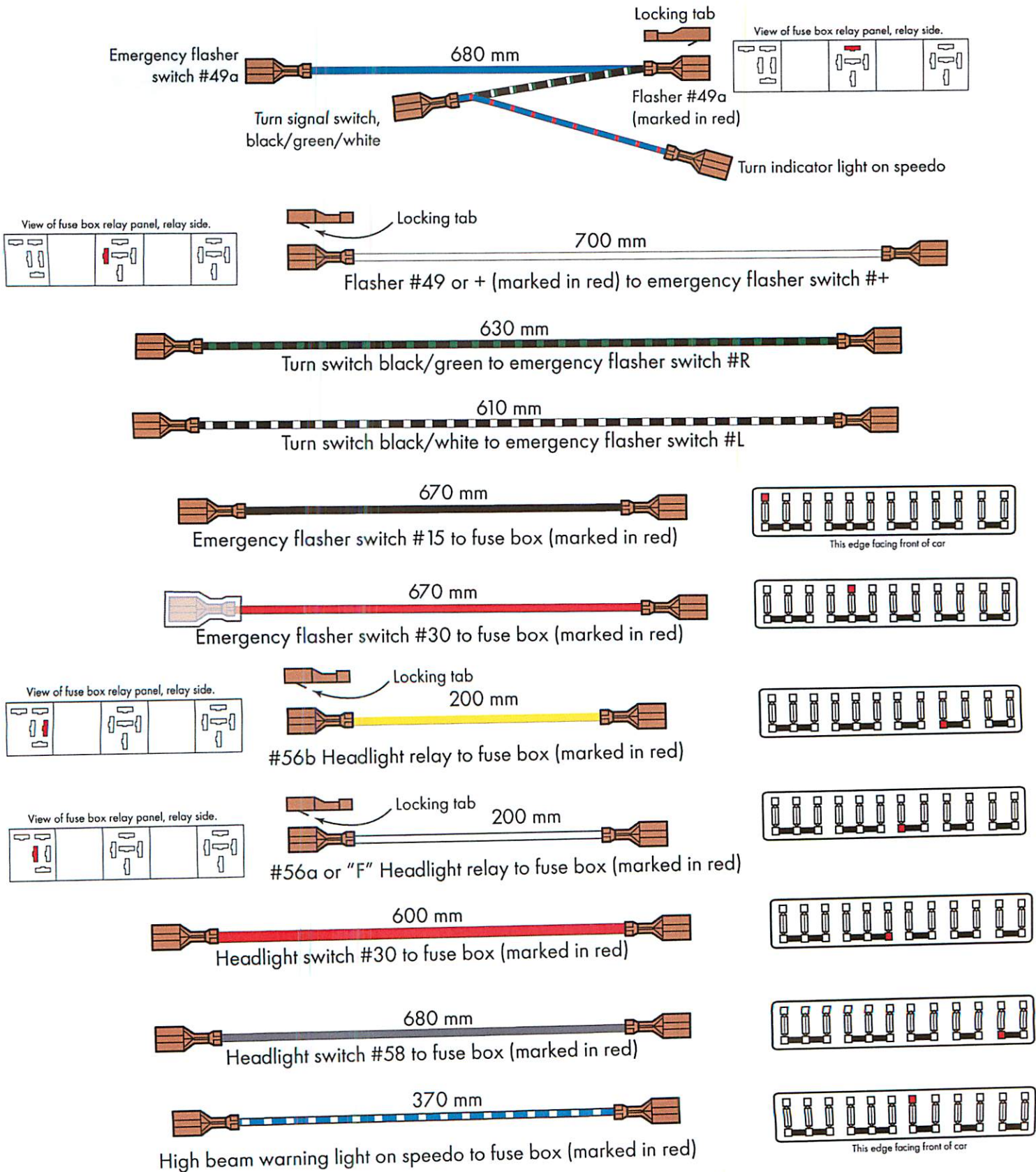
Back-up Light Harness



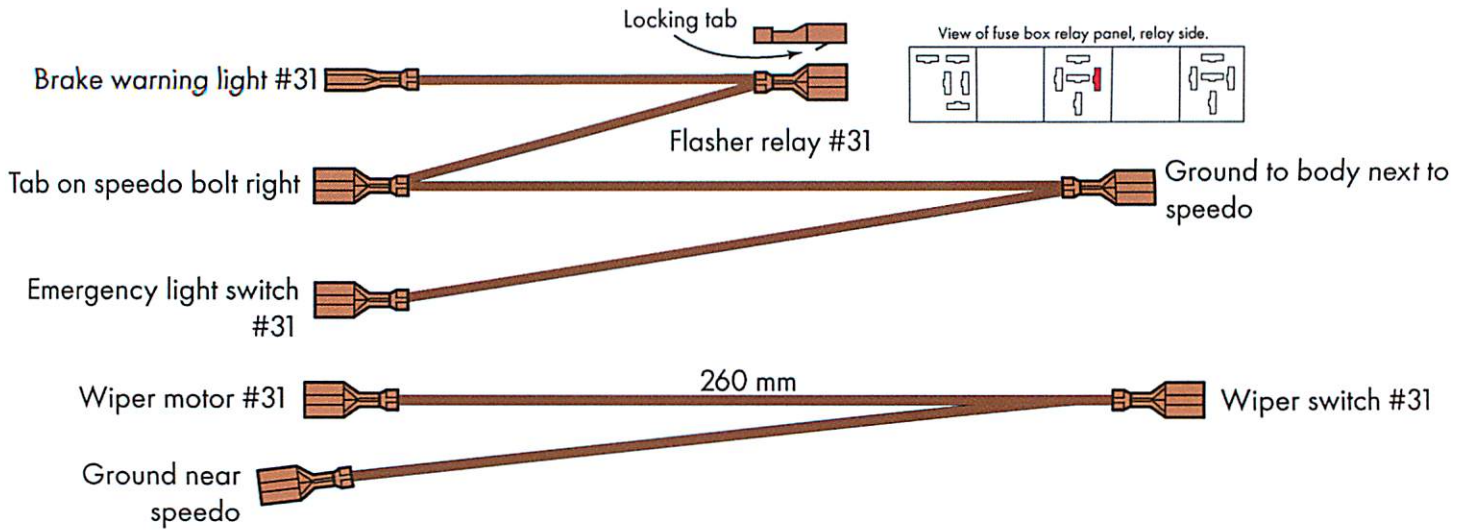
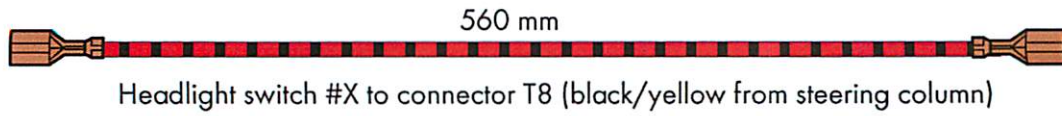
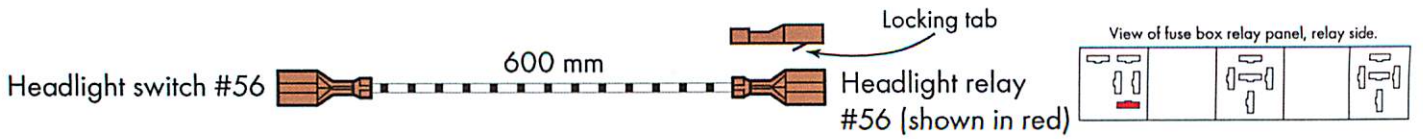
This side to license light.
Brown is ground.



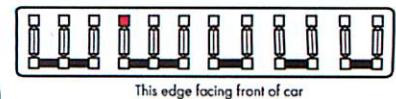
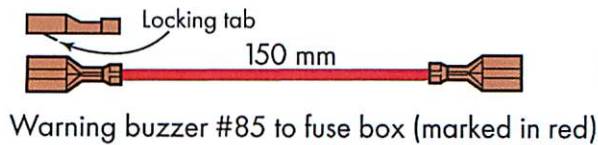
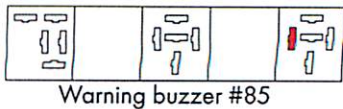
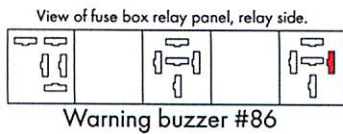
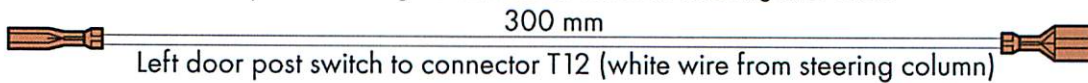
Miscellaneous Wires, continued



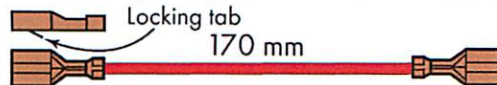
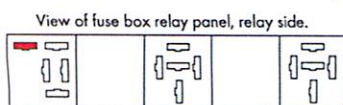
Miscellaneous Wires, continued



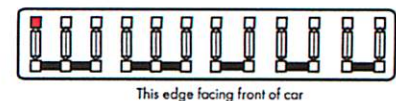
If you are running the door buzzer install the following three wires.



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)



A	Battery	S	Fuse box, 12 fuse
B	Starter	S1	Fuse, back-up lights, engine compartment
C	Generator	S2	Fuse, rear window defogger, under rear seat
C1	Voltage regulator	T1	Double connector, left front quarter panel
D	Starter/Ignition switch	T2	Double connector, right front quarter panel
E	Windshield wiper switch	T3	Triple connector, behind speedometer
E1	Light switch	T4-T8	Single connector, behind speedometer
E2	Turn indicator switch	T9	Double connector, behind speedometer
E3	Rear window defog switch	T10	Double connector, behind speedometer
E4	Emergency flasher switch	T11	Single connector, behind speedometer
F2	Interior light switch, left	T12	Single connector, behind speedometer
F3	Interior light switch, right	T13	Single connector, behind engine sound deadner
G	Fuel gauge sending unit	T14	Single connector, under rear seat
H	Horn button	T15	4 connector, behind engine sound deadner, left
H1	Horn	T16	Triple connector, behind engine sound deadner, right
H5	Ignition key warning buzzer	T17	Y connector, behind engine sound deadner, right
J	Turn Signal/Emergency relay	T18	Double connector, on engine door
J2	Dimmer switch	V	Windshield wiper motor
J3	Dimmer relay	W	Interior light
J4	Stop light switches	X1	Back-up light, left
J5	Oil pressure switch	X2	Back-up light, right
J6	Back-up light switch	X	License plate light
J9	Rear window defog relay	Z1	Rear window defogger
K1	High beam warning light	①	Battery ground strap
K2	Generator warning light	②	Steering column to steering box ground jumper
K3	Turn indicator warning light	③	Chassis to transaxle ground strap
K4	Oil pressure warning light		
K5	Speedometer light		
K6	Rear window defog indicator light		
K7	Hazard warning light		
K8	Brake warning light		
L1	Sealed-beam unit, left		
L2	Sealed-beam unit, right		
M2	Rear right tail/stop light		
M4	Rear left tail/stop light		
M5	Front left turn light		
M6	Rear left turn light		
M7	Front right turn light		
M8	Rear right turn light		
M11	Parking light		
N	Coil		
O1	Automatic choke		
O2	Electric idle jet		