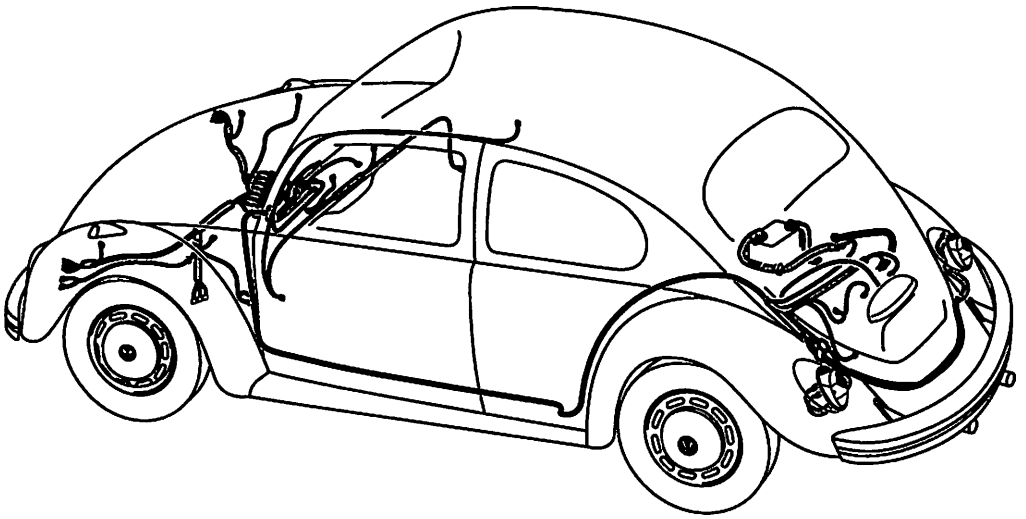
Wire Harness Instructions
1972 Super Beetle



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 addtional wires needed for the Autostick option.

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 dead-ener 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 not supplied large 50mm grommet, part # 3774, 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 (glycerine #50915 works well) 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 re-use the 2 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, 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 and 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 corrosponding 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).

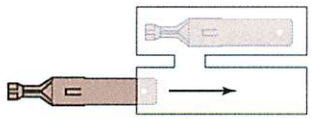
- Attach choke power wire from terminal 15 of the coil, to choke element located on the side of the carburetor and to idle shut off valve. (black wire, 425mm length, one end finished with female quick-disconnect terminal and opposite end finished with short black wire with quick disconnect ends).

- 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.

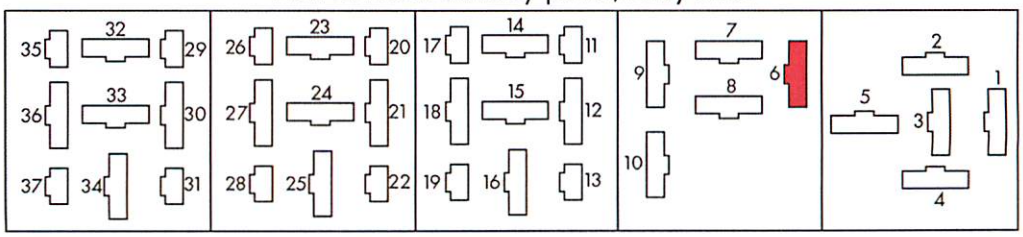
Installation of male push-on connector sleeve.



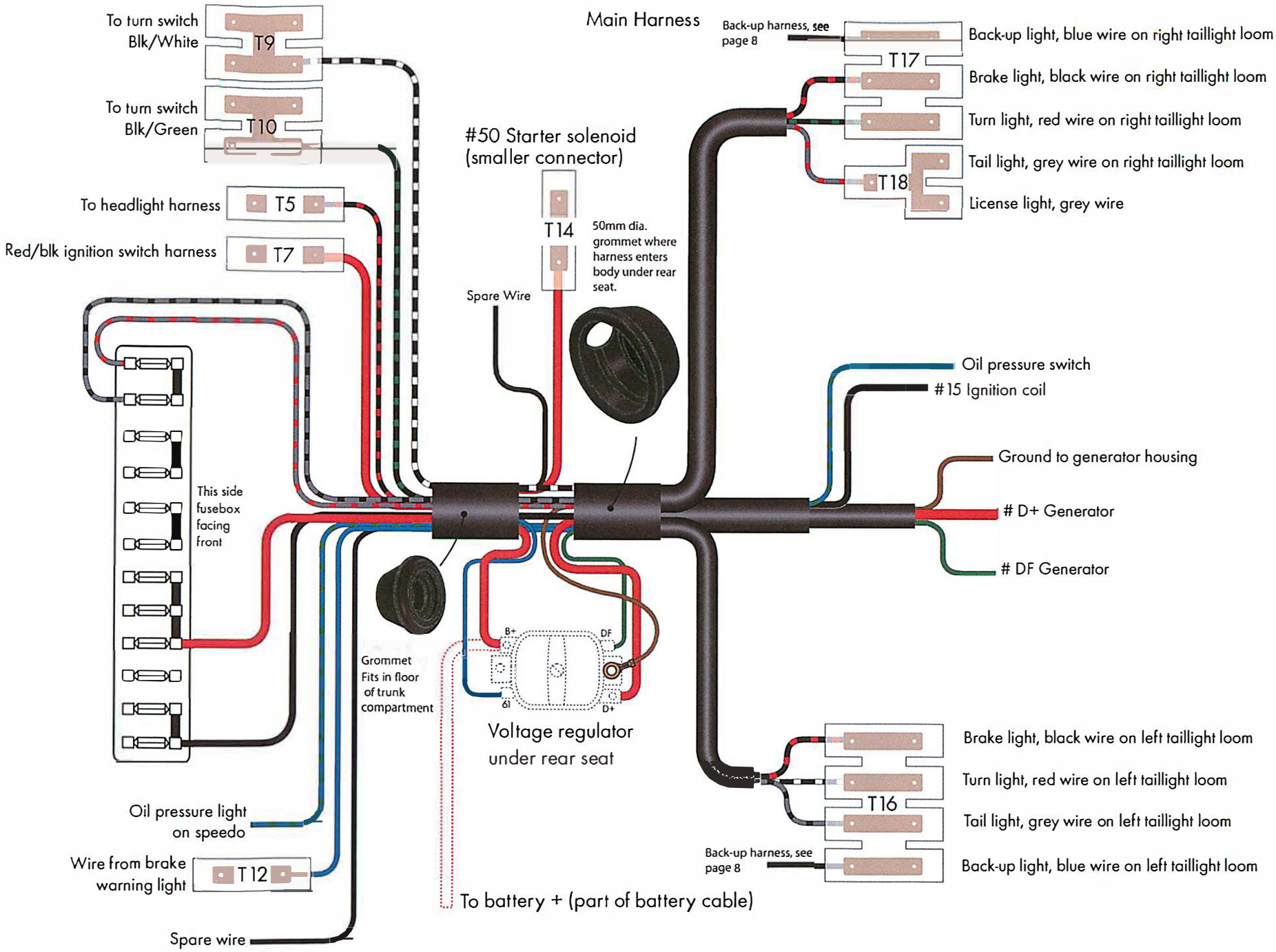
Sleeves are provided in the kit and easily slide into position on the male connector.

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. This relay panel sits on top of the fuse box.

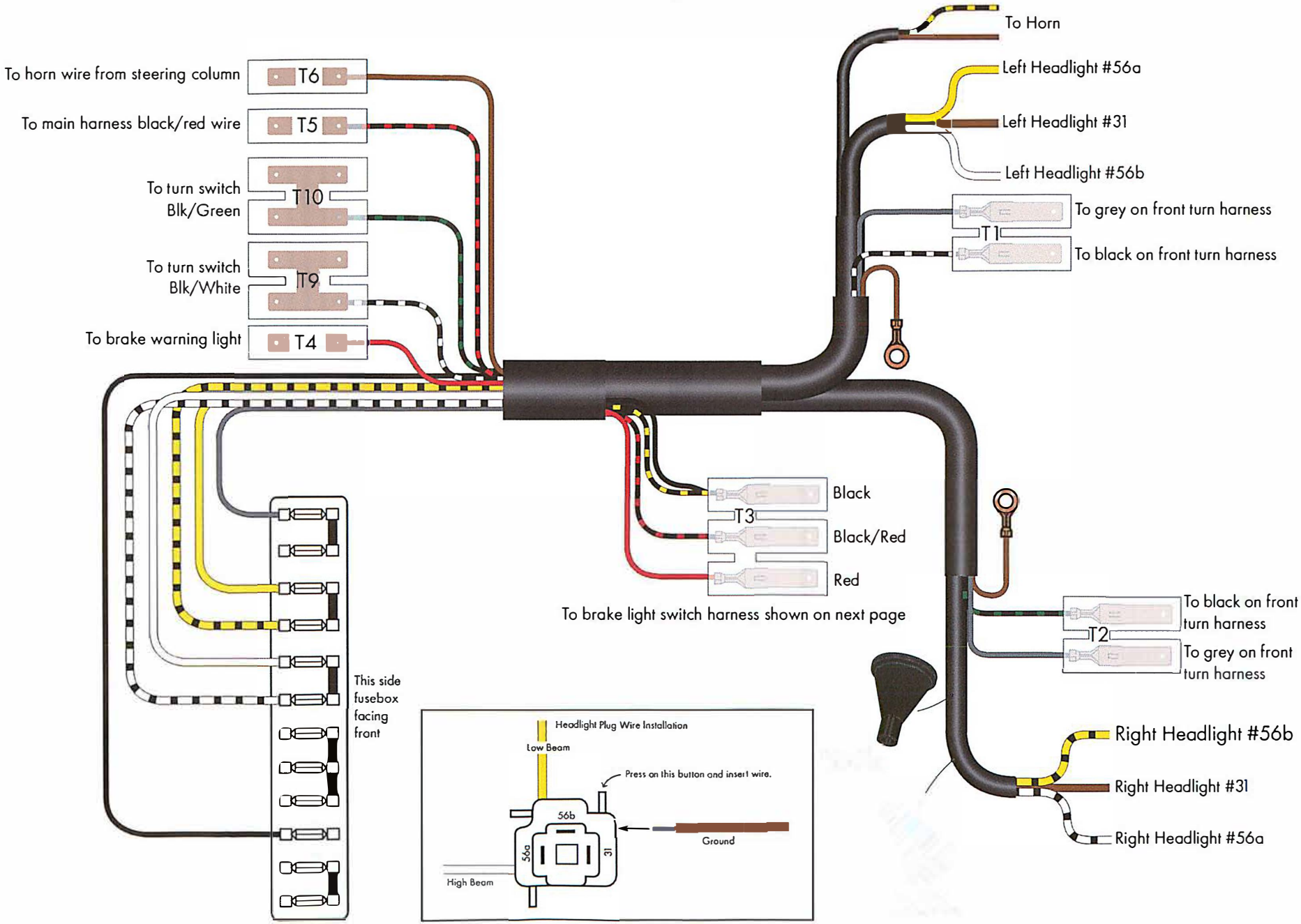
View of fuse box relay panel, relay side.



Ignition Buzzer High Beam Relay Turn Signal Relay

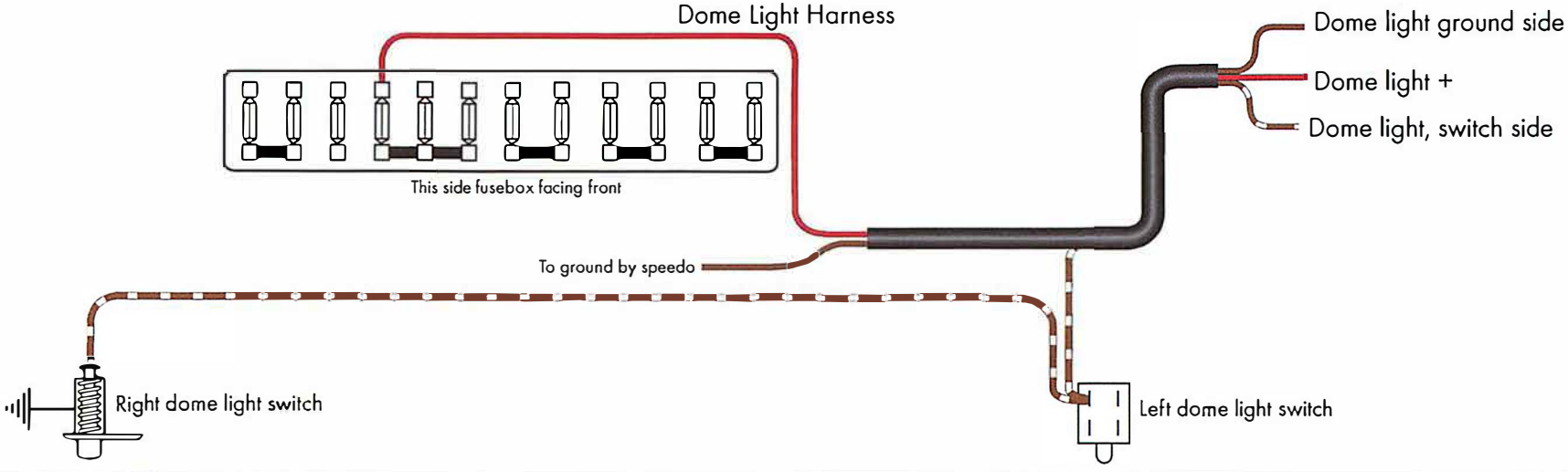

Main Harness
To turn switch Blk/White
T9
To turn switch Blk/Green
T10
To headlight harness
T5
Red/blk ignition switch harness
T7
#50 Starter solenoid (smaller connector)
T14
50mm dia. grommet where harness enters body under rear seat.
Spare Wire
Back-up harness, see page 8
T17
Back-up light, blue wire on right taillight loom
Brake light, black wire on right taillight loom
Turn light, red wire on right taillight loom
Tail light, grey wire on right taillight loom
T18
License light, grey wire
Oil pressure switch
#15 Ignition coil
Ground to generator housing
D+ Generator
DF Generator
This side fusebox facing front
Grommet Fits in floor of trunk compartment
B+
DF
61
D+
Voltage regulator under rear seat
Brake light, black wire on left taillight loom
Turn light, red wire on left taillight loom
T16
Tail light, grey wire on left taillight loom
Back-up harness, see page 8
Back-up light, blue wire on left taillight loom
Oil pressure light on speedo
Wire from brake warning light
T12
Spare wire
To battery + (part of battery cable)

Headlight Harness

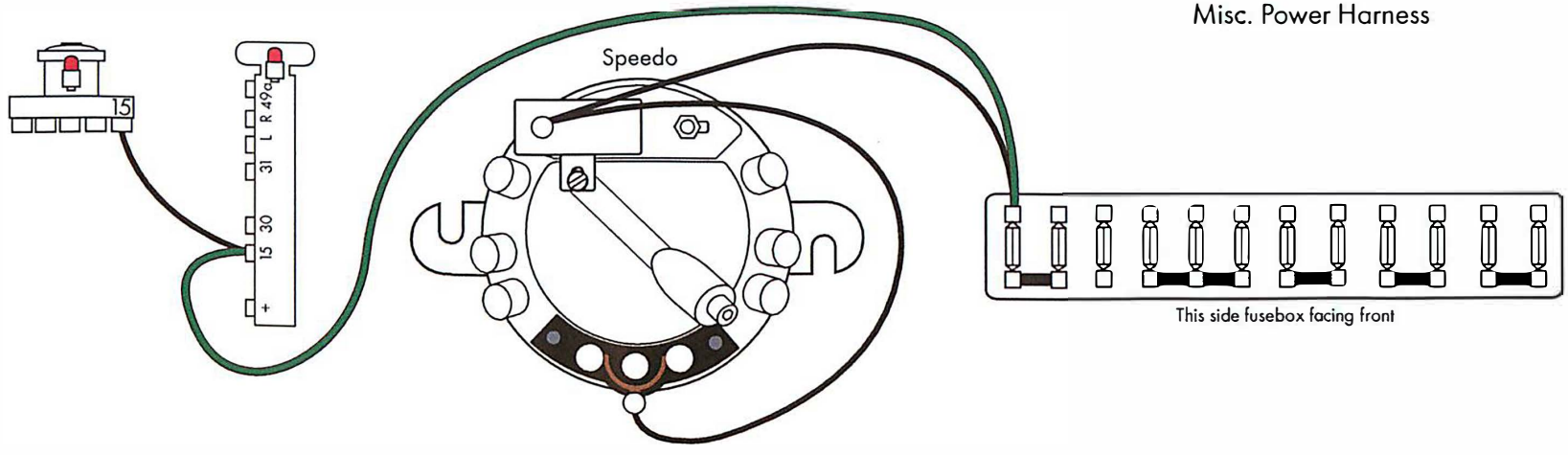


Brake Light Switch Harness

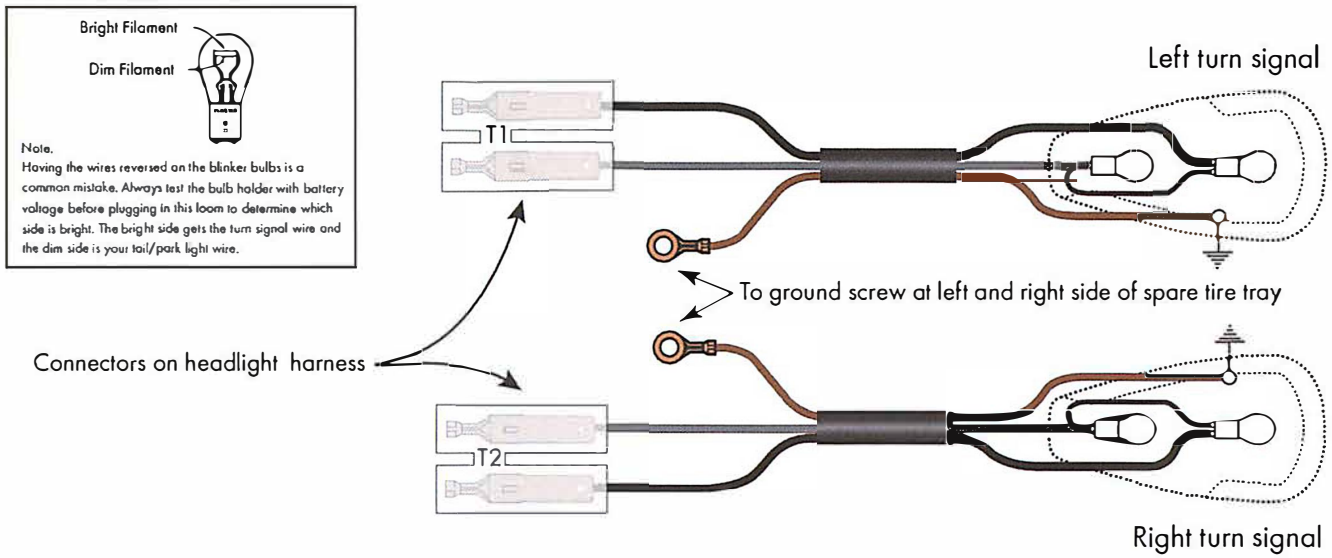
Dome Light Harness



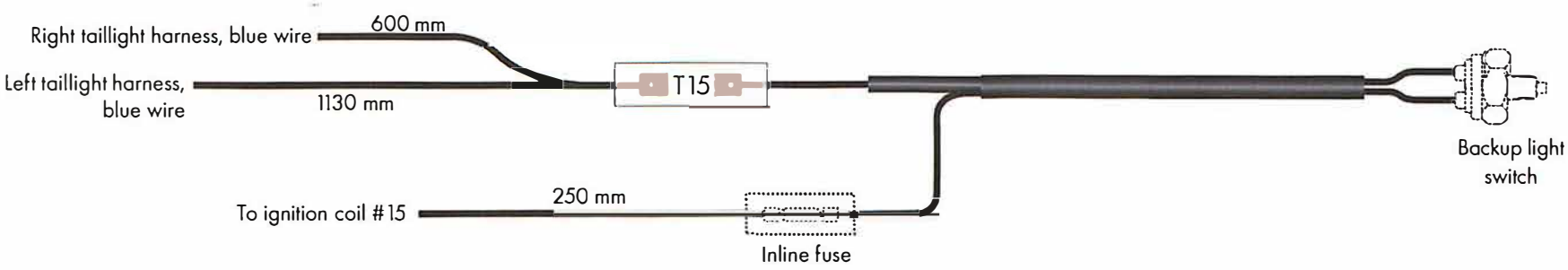
Misc. Power Harness



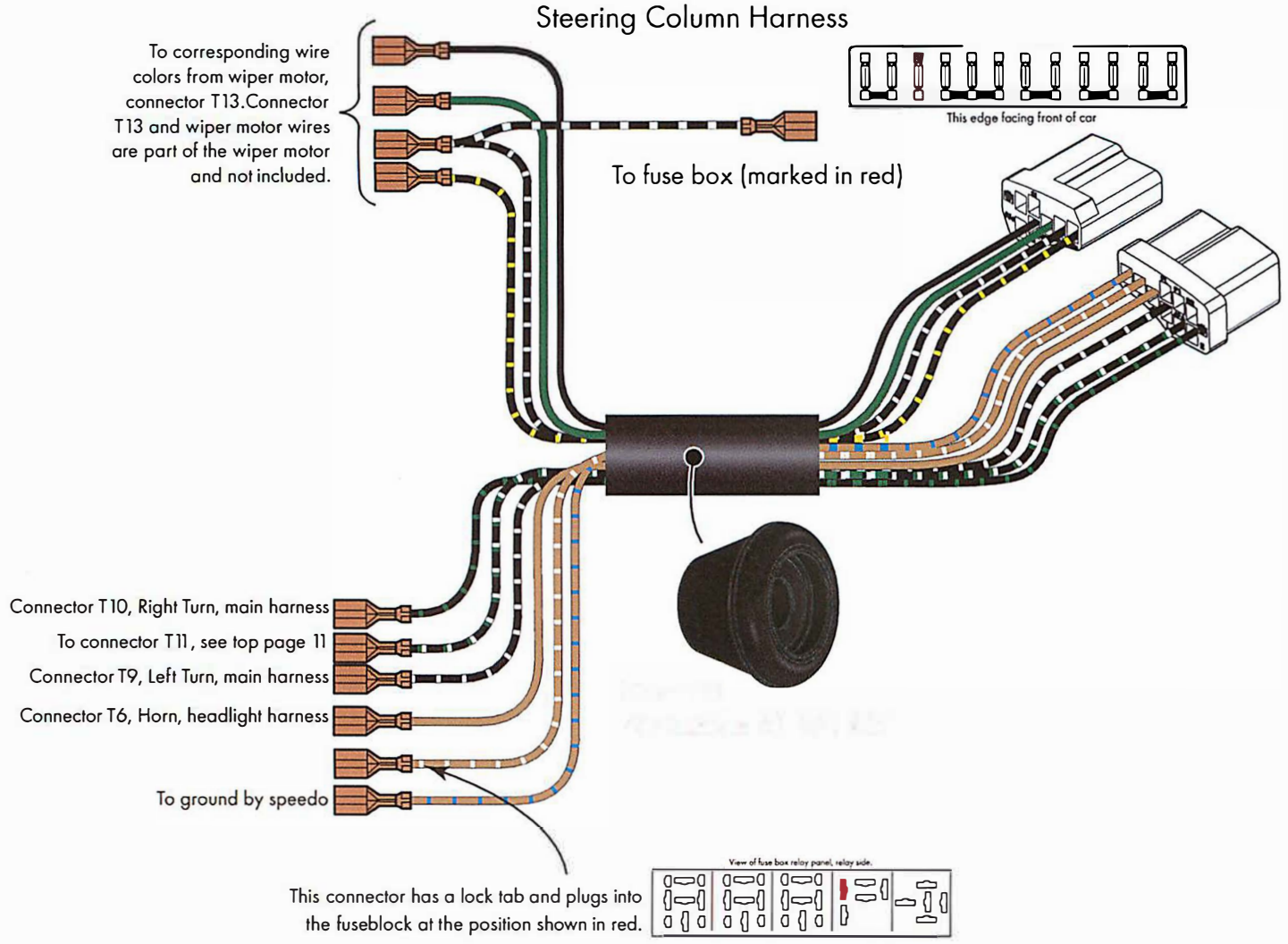
Front turn signal/park light harnesses



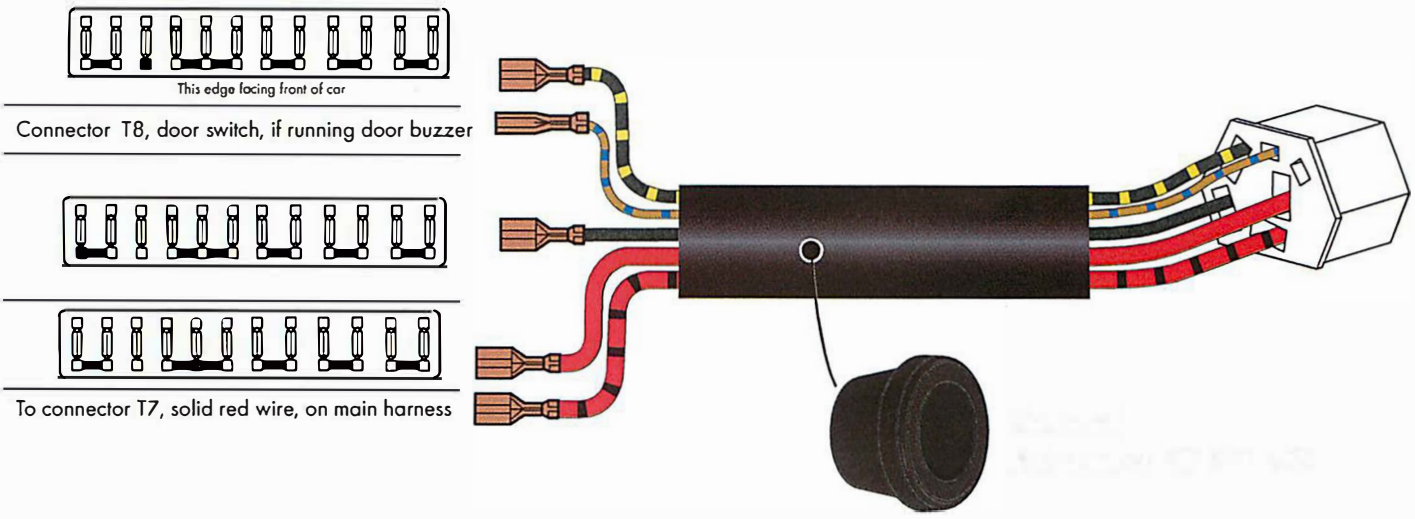
Back-up Light Harness

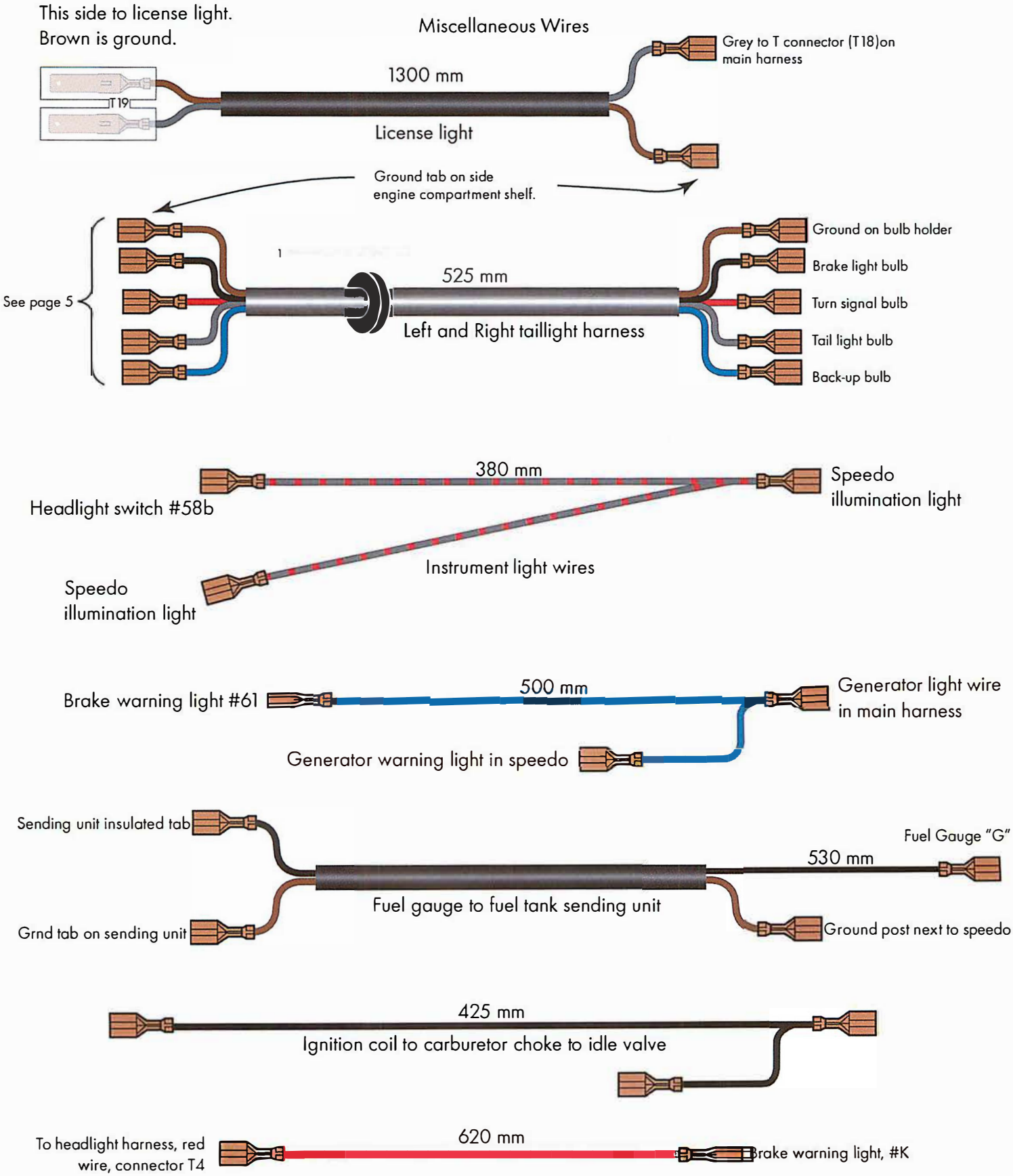


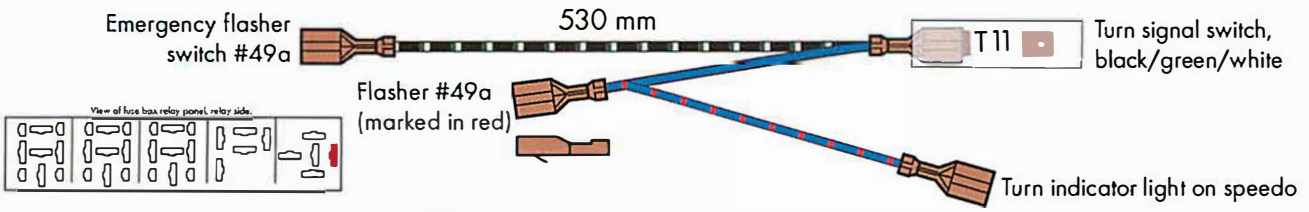
Steering Column Harness

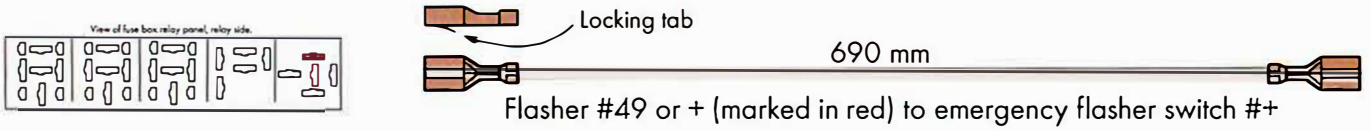


Steering Column Harness

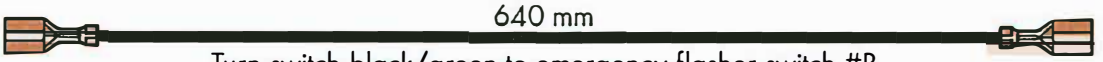



This side to license light.
Brown is ground.
Miscellaneous Wires
Grey to T connector (T18)on main harness
1300 mm
T19
License light
Ground tab on side engine compartment shelf.
See page 5
525 mm
Left and Right taillight harness
Ground on bulb holder
Brake light bulb
Turn signal bulb
Tail light bulb
Back-up bulb
380 mm
Headlight switch #58b
Speedo illumination light
Instrument light wires
Speedo illumination light
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

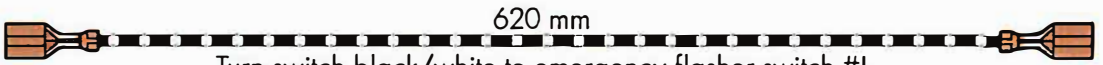




Flasher #49 or + (marked in red) to emergency flasher switch #+

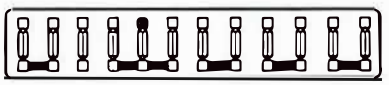


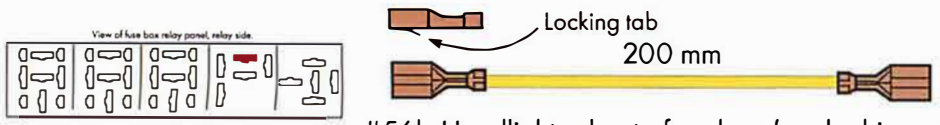
Turn switch black/green to emergency flasher switch #R



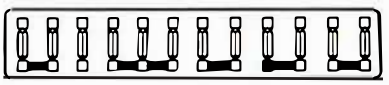
Turn switch black/white to emergency flasher switch #L

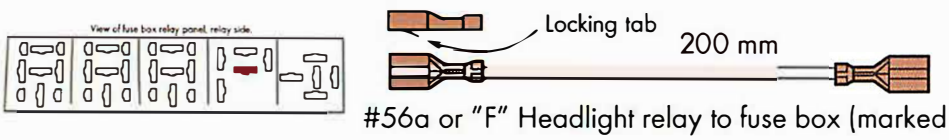
Emergency flasher switch #30 to fuse box (marked in red)



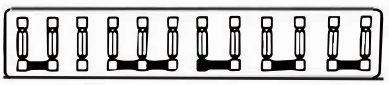


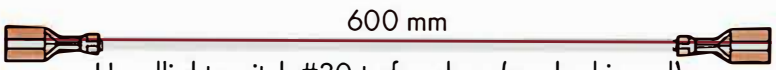
#56b Headlight relay to fuse box (marked in red)



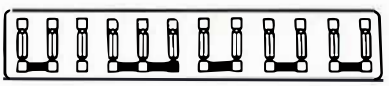


#56a or "F" Headlight relay to fuse box (marked in red)

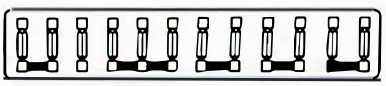




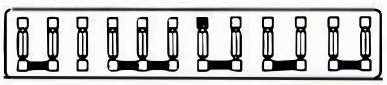
Headlight switch #30 to fuse box (marked in red)



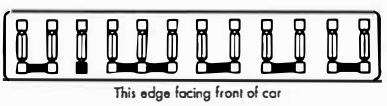
Headlight switch #58 to fuse box (marked in red)



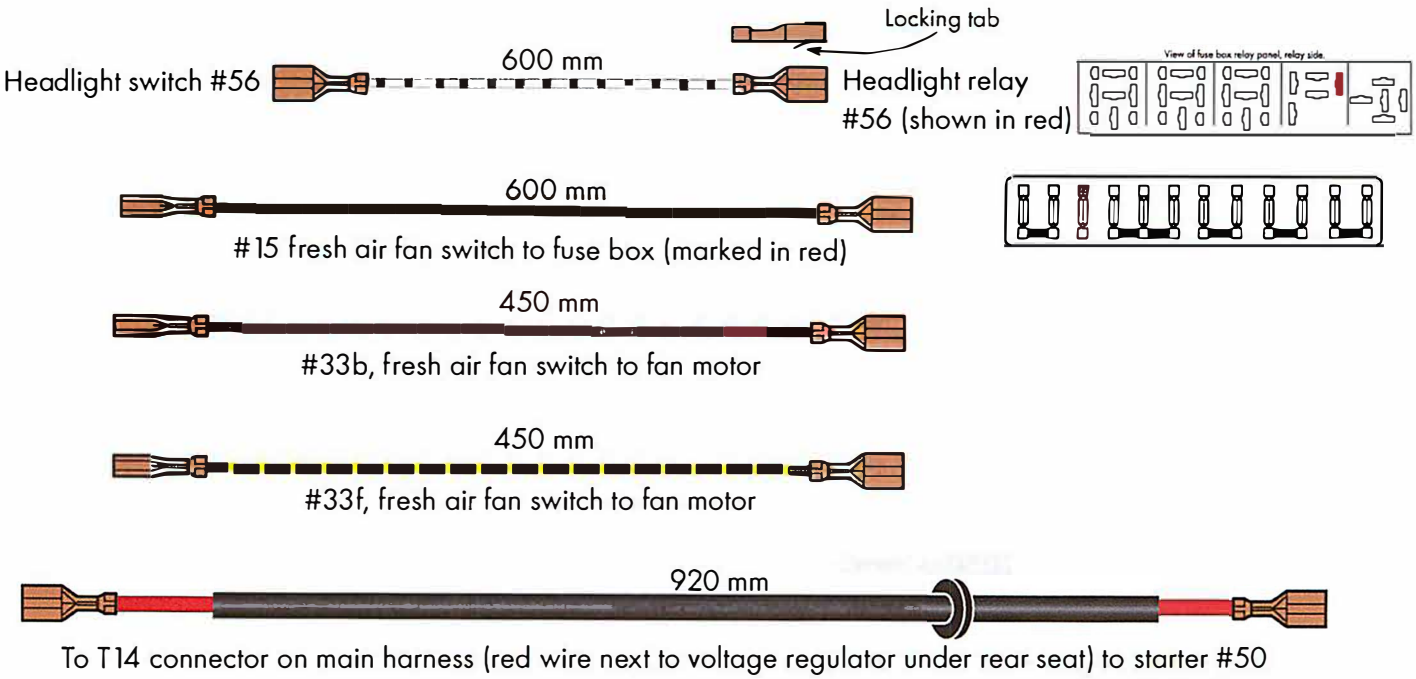
High beam warning light on speedo to fuse box (marked in red)

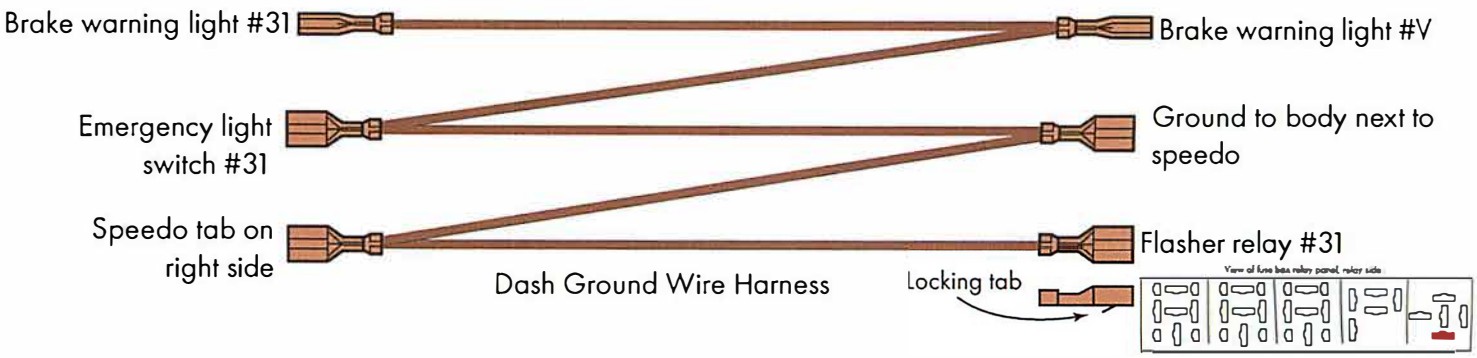


Headlight switch #X to connector fuse box (marked in red)

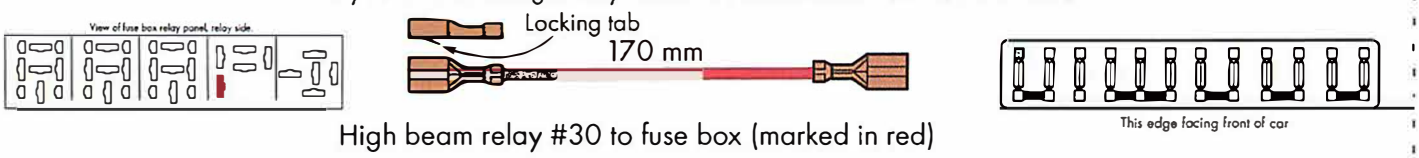


Miscellaneous Wires, continued





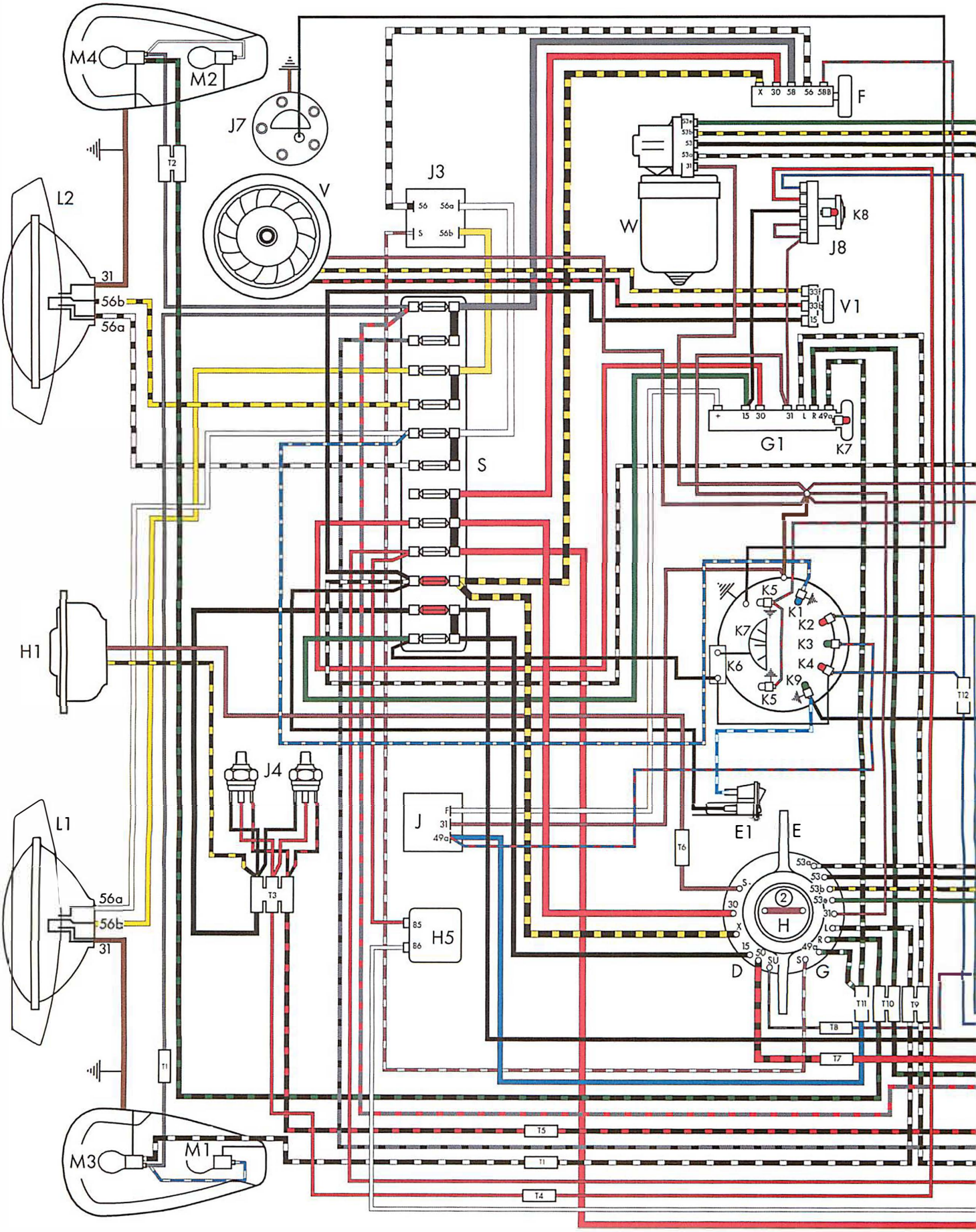
If you have a headlight relay with a #30 terminal this wire will be needed.



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

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

①	Battery ground strap
②	Steering column to steering box ground jumper
③	Chassis to transaxle ground strap


M4
M2
J7
T2
L2
31
56b
56a
V
J3
56
56a
S
56b
W
X 30 58 56 58B
F
K8
J8
V1
15
G1
K7
15 30 31 L R 49a
S
K5
K1
K2
K3
K4
K9
K7
K6
T12
H1
J4
T3
L1
56a
56b
31
J
F
31
49a
E1
E
T6
53a
53
53b
53e
31
L
R
49a
S
30
X
15
50
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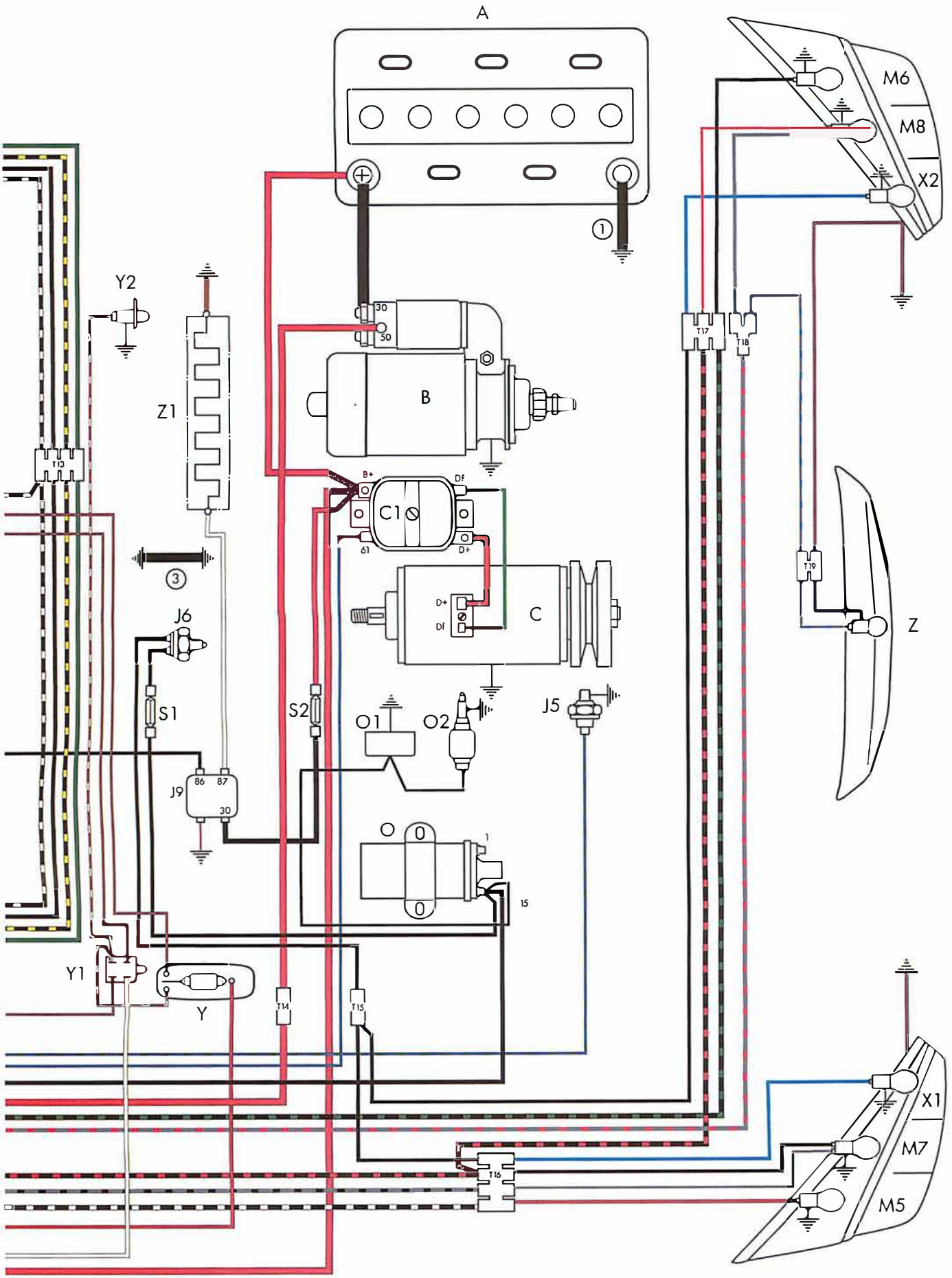
T7
T5
T1
T4
M3
M1
T1


A
M6
M8
X2
Y2
Z1
T13
30
50
B
T17
T18
B+
DF
C1
61
D+
C
D+
DF
T19
Z
3
J6
S1
S2
O1
O2
J5
J9
86
87
30
O
0
1
15
0
Y1
Y
T14
T15
T16
X1
M7
M5