

1962-1964 Bug Wiring Harness Kit

This wiring harness kit fits 6-volt and 12-volt Bug sedan models from 1962-1964.

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)
- Left Headlight Harness (1)
- Right Headlight Harness (1)
- Miscellaneous Wires/Sub Harnesses (18)
- Grommets (5)
- Headlight Plugs (2)
- 1-1 Connectors (5)
- 1-2 Connectors (3)

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. Use the main harness diagram on page (5) of this manual for reference. Note that the main harness and dome light harness travel through the roof member at the left-hand side of the Bug. Unfold the metal banded clip securing the main harness and dome light harness to the cowl, just above the speaker grill. Gather the loose wires from the front of the main harness and tap them together to create a streamlined *bundle*. 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). Now we're ready to pull the old harness out. Attach a dragline onto the front 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 at the front.

Remove the dome light from the roof, and remove the connections. 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.

Before installing the main harness, the dome light harness must be installed firstly. 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.

Attach the new main harness onto the dragline 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 front while an assistant helps guide the new harness from the rear. 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.

Once the harness is through, gather the dome light harness and secure both at the front by closing the metal bands located near the left speaker grill. See diagram on page (4) for proper connection the wires.

3. Install new left and right headlight harness, see diagram on page (6). When routing the wires through the rubber headlight wiring conduit, use lubricant to ease the wires through. If your wiring conduits are not in satisfactory condition, these are available separately (part # 111941585). Place the supplied 1-1 connector onto the single black/red wire (fuse box side of the harness), and connect this wire to the black/red wire of the main harness. Use the supplied grommet # 111953549 and route the high/low switch, horn, and brake light wire bundles through journal in trunk (left side of the trunk, near the fuel tank). Use the supplied grommet # 141971907 and route the horn and brake light wire bundles through the firewall. Attach the brown wire to the tab located on the steering column.

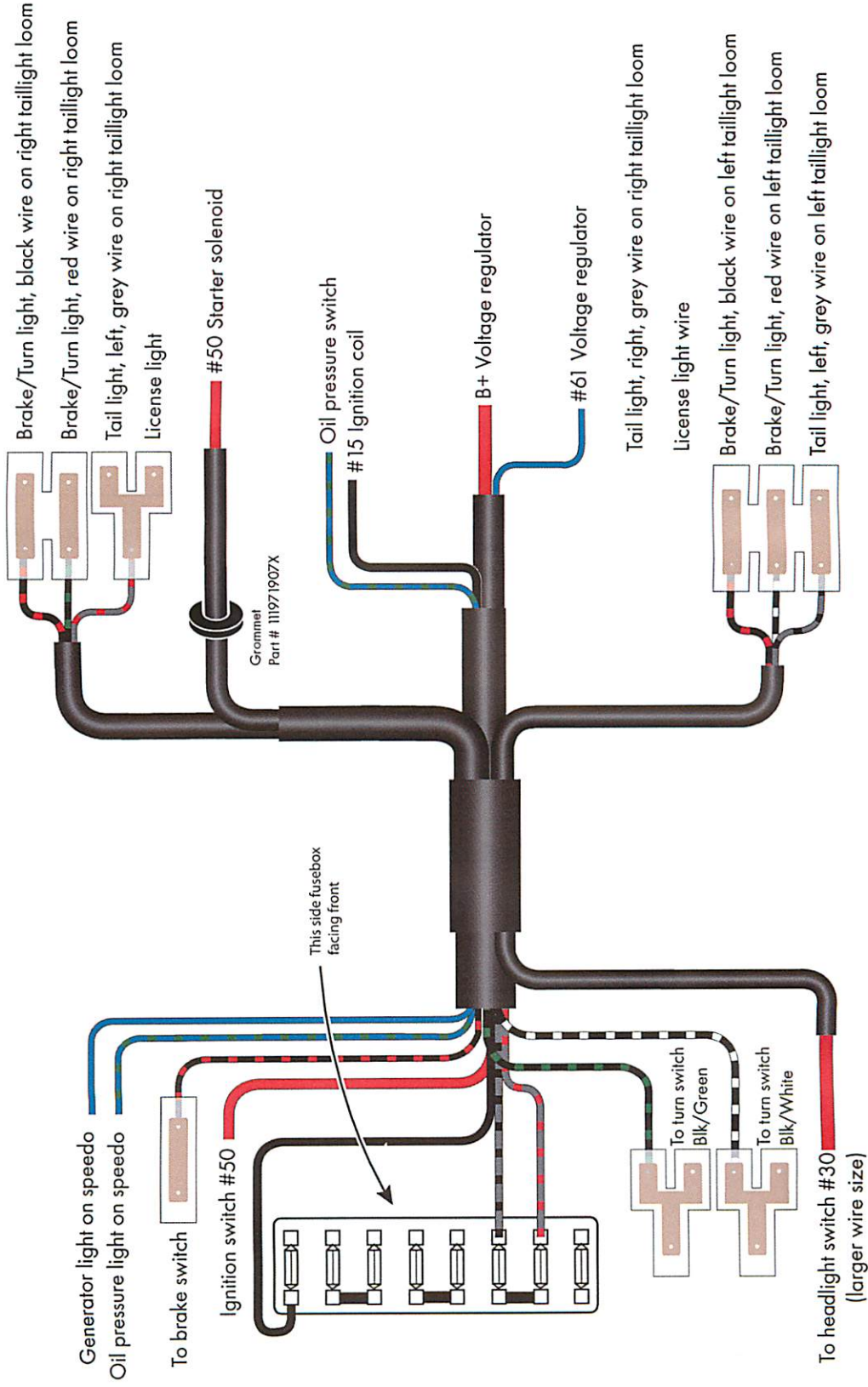
Pay close attention to the parking light connections. The grey wire should connect to the center lug only. The lug located at the end is for ground, which typically is not required as the unit will ground to the assembly via the mounting screw. In the event a clean ground is not achieved (newly painted models, for example), use an 18-gauge wire and attach one end to this lug, and the other to terminal 31 of the headlamp plug. Install the headlight wires onto their respective location as per the diagram onto the supplied headlight plugs.

4. Connect previously installed dome light harness, see page (6) for connection locations.
5. Install miscellaneous supplemental wires, see page (7-8) for illustrations:
 - Attach high beam warning light wire (blue/white, 170mm length, both ends finished with female quick disconnect terminals) onto the proper bulb socket within the speedometer, and the *other end* to the fuse box as noted in the diagram.
 - Install left and right front turn signal wires. The left turn signal wire is a black/white wire, 1020mm in length, both ends finished with a female quick disconnect terminal. The right turn signal wire is a black/green wire, 1450mm in length, both ends finished with a female quick disconnect terminal. Install the 1-2 connectors onto the corresponding wires of the turn signal switch. Note that the single terminal side of the connector is the location for each of these wires, with the other two terminals reserved for the corresponding wires of the main harness, and turn signal switch.
 - Install taillight harnesses (three wires bundled in white conduit, 410mm 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.
 - Install license light harness (grey/red wire with black conduit, 1390mm length, each end finished with female quick-disconnect terminal) , see diagram on page (5). The 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.
 - Attach turn signal indicator wire (blue/green, 190mm length, both ends finished with female quick disconnect terminals) from the proper bulb socket within the speedometer, to terminal K of the turn signal relay. Please note that some modern and/or post production flashers refer to this terminal as L, or 49a. If using a 4-prong flasher relay, you will need to ground the flasher at terminal 31.
 - Attach turn signal switch input wire (black/green/white wire, attached to the turn signal switch, not included with this harness kit) to terminal S of the turn signal flasher relay. Please note that some modern and/or post production flashers refer to this terminal as 49a.
 - Attach instrument illumination wire from terminal 58b of the headlight switch to speedometer illumination bulb and fuel gauge illumination bulb, (grey/red wire, 180mm length, two wires total joined at one location, each end finished with female quick-disconnect terminal).
 - Attach voltage regulator power wire (red, 860mm length, shielded in black PVC conduit, one end finished with an eyelet terminal) to the threaded post of the starter solenoid (terminal 30), and the

other the other end to terminal B+ of the voltage regulator. The end with the eyelet terminal attaches to the threaded post located on the starter solenoid, the soldered end connects to B+ of the voltage regulator.

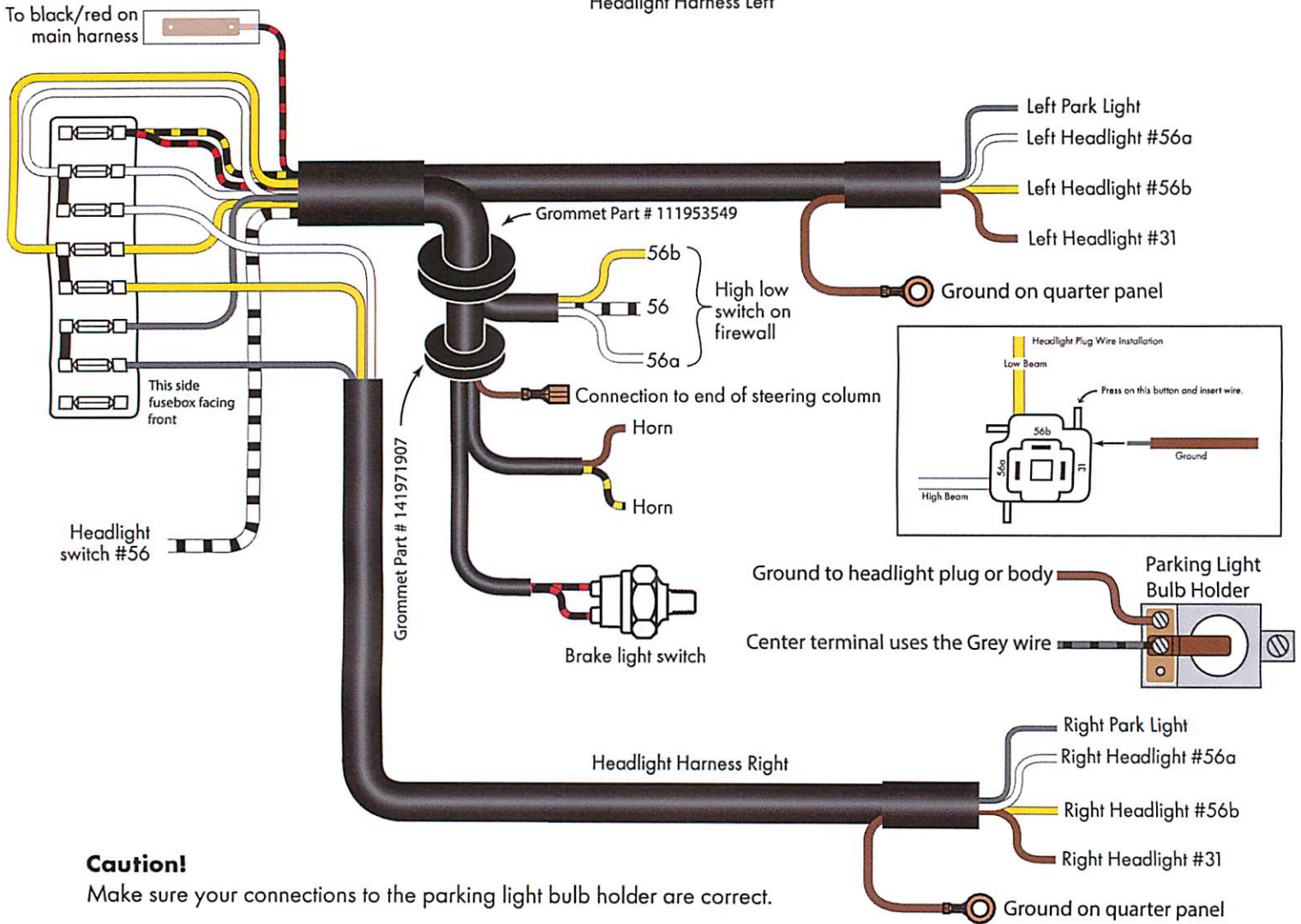
- Attach parking light power wire from terminal 58 of the headlight switch, to the fuse box as noted in the diagram (grey wire, 230mm length, each end finished with female quick-disconnect terminal).
 - Attach headlight switch power wire from terminal 30 of the headlight switch, to the fuse box location as noted in the diagram (red wire, 225mm length, each end finished with female quick-disconnect terminal).
 - Attach ignition switch power wire from terminal 30 of the ignition switch, to the fuse box location as noted in the diagram (red wire, 215mm length, end finished with female quick-disconnect terminal).
 - Attach speedometer bulb cluster power wire from the fuse box location as noted in the diagram (large wire), to terminal 15 of the ignition switch (large wire). Attach the small wire onto the speedometer bulb cluster located at the bottom of the speedometer (black wire, two wires total joined at one location, one small and one large, each end finished with female quick-disconnect terminal).
 - Attach windshield wiper motor wires from wiper motor, to wiper switch: Terminal 31b of wiper motor to terminal 31b of wiper switch (brown wire, 240mm length, each end finished with female quick-disconnect terminal). Terminal 54 of wiper motor to terminal 54 of wiper switch (black wire, 240mm length, each end finished with female quick-disconnect terminal). Terminal 54b of wiper motor to terminal 54b of wiper switch (black/purple wire, 240mm length, each end finished with female quick-disconnect terminal).
 - Attach horn ground wire from location on steering coupler (connector end), through the steering shaft and onto the horn ring (bar end) (brown wire, 1050mm length, one end finished with female quick-disconnect terminal, one end soldered).
 - Attach choke power wire from terminal 15 of the coil, to choke element located on the side of the carburetor (black wire, 460mm length, each end finished with female quick-disconnect terminal).
6. With installation now complete, double check all connections. Carefully connect battery and test each system for proper operation.

Main Harness



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Headlight Harness Left

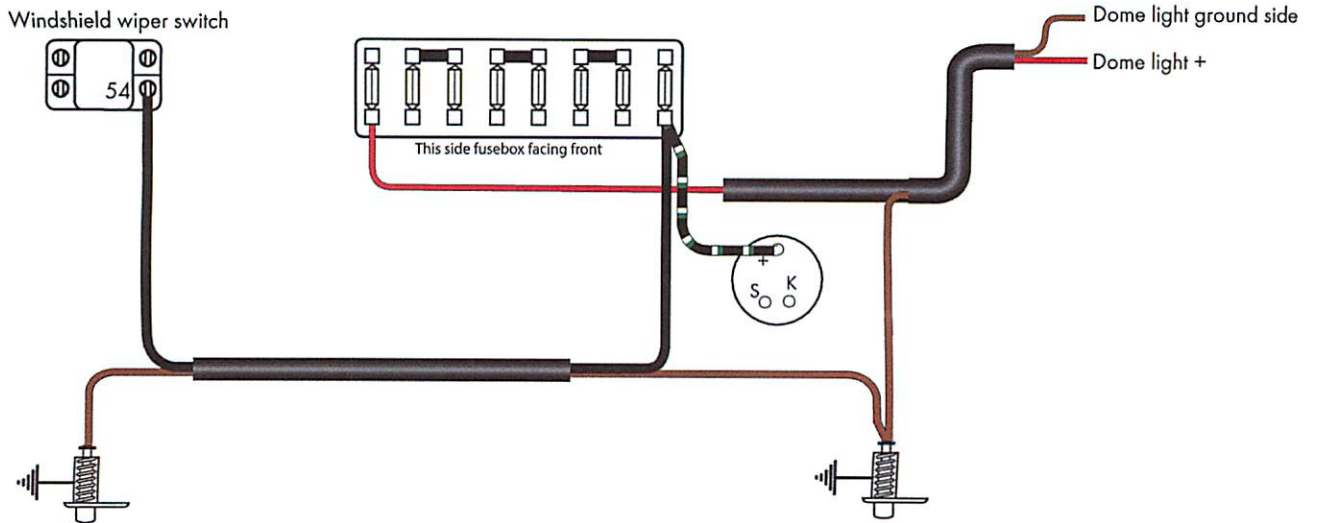


Caution!

Make sure your connections to the parking light bulb holder are correct.

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Dome Light Harness



Miscellaneous Wires

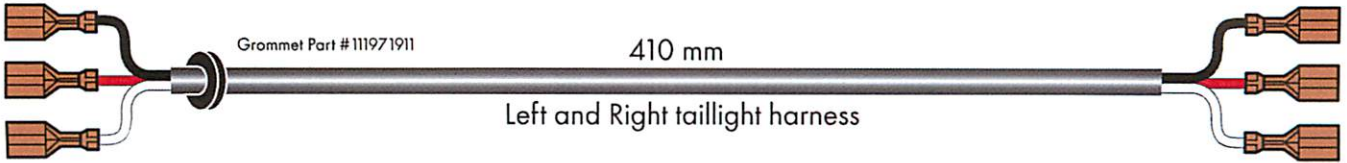
1390 mm



License light

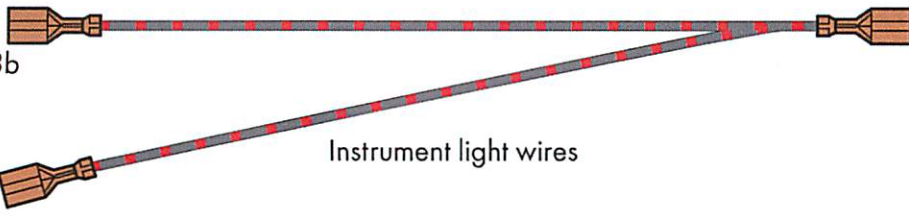
Grommet Part # 111971911

410 mm



Left and Right taillight harness

Headlight switch #58b

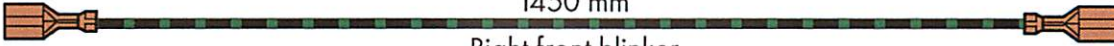


Fuel gauge illumination light

Speedo illumination light

Instrument light wires

1450 mm



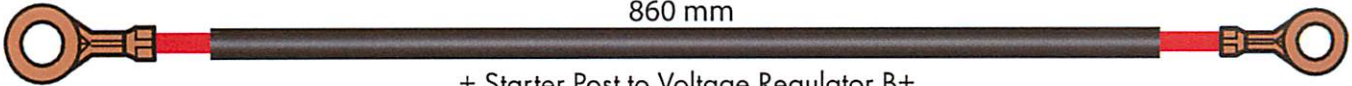
Right front blinker

1020 mm



Left front blinker

860 mm



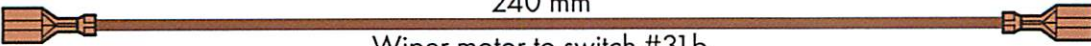
+ Starter Post to Voltage Regulator B+

240 mm



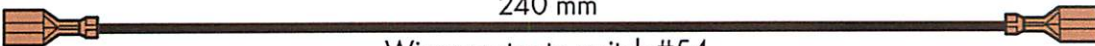
Wiper motor to switch #54b

240 mm



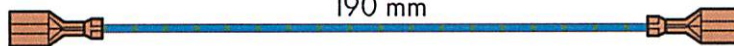
Wiper motor to switch #31 b

240 mm



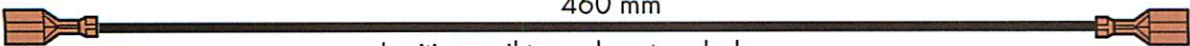
Wiper motor to switch #54

190 mm



Flasher #49 or K to green arrow on speedo (bottom center)

460 mm



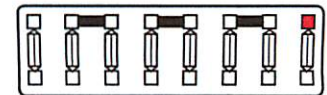
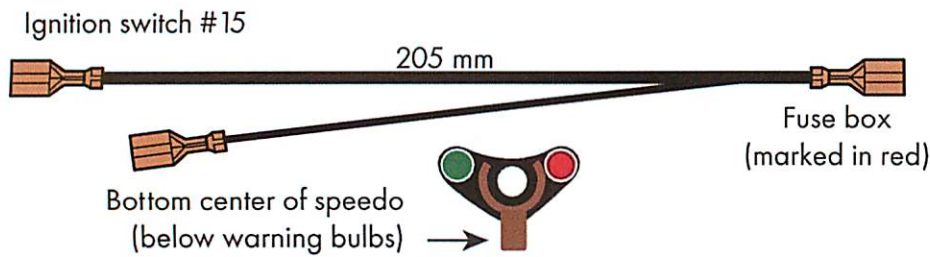
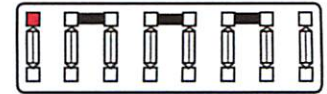
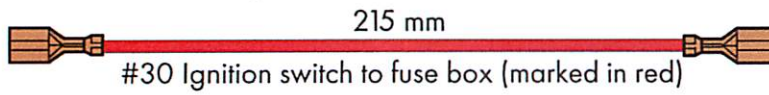
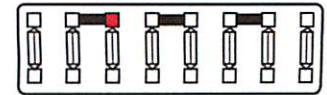
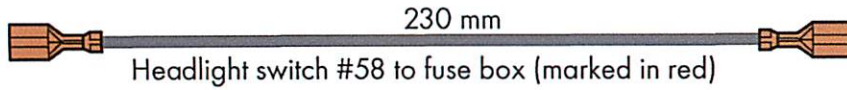
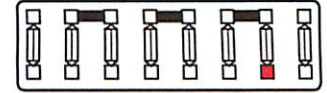
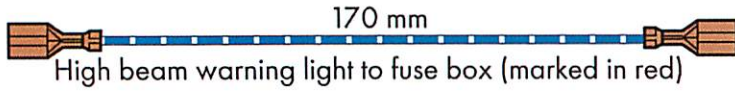
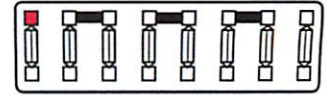
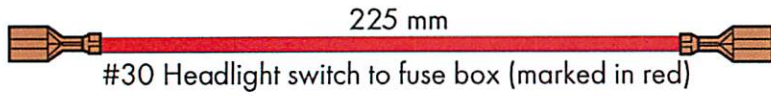
Ignition coil to carburetor choke

1050 mm



Horn button to tab on steering coupler

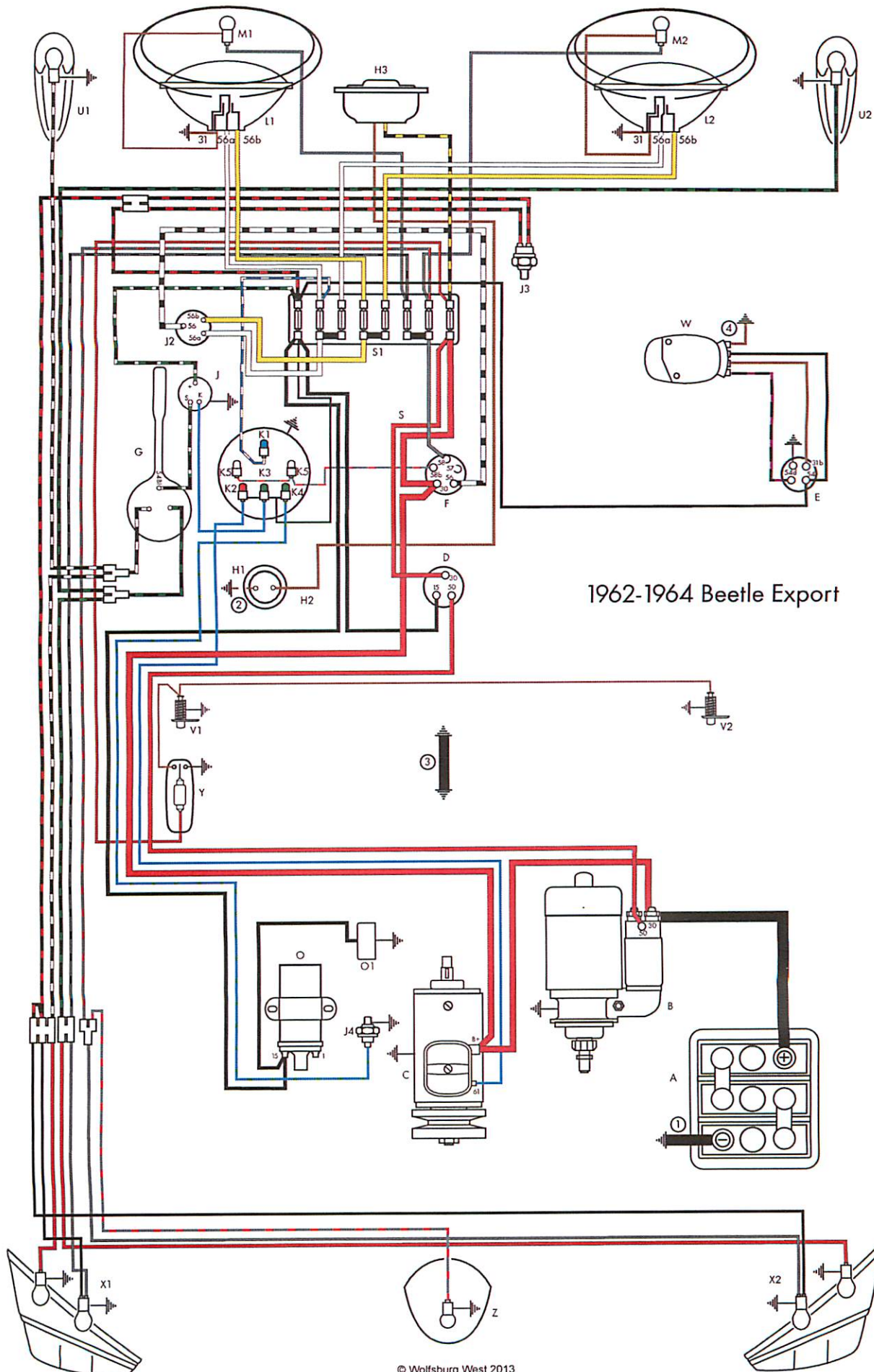
Miscellaneous Wires



Bright Filament

Dim Filament

Note.
Having the wires reversed on the taillight bulbs is a common mistake. Always test the taillight 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 light wire.



A Battery
 B Starter
 C Generator
 D Starter/Ignition switch
 E Windshield wiper switch
 F Light switch
 G Turn indicator switch
 H3 Horn
 H1 Horn button
 H3 Horn brush
 J Flasher relay
 J2 Dimmer switch
 J3 Stop light switch
 J4 Oil pressure switch
 K1 High beam warning light
 K2 Generator warning light
 K3 Turn indicator warning light
 K4 Oil pressure warning light
 K5 Speedometer light
 L1 Sealed-beam unit, left
 L2 Sealed-beam unit, right
 M1 Parking light, left
 M2 Parking light, right
 O Coil
 O1 Automatic choke
 S1 Fuse box, 8 fuse
 U1 Turn indicator, front left
 U2 Turn indicator, front right
 W Windshield wiper motor
 X1 Stop/tail light, rear left
 X2 Stop/tail light, rear right
 Y Interior light
 Y1 Interior light switch, left
 Y2 Interior light switch, right
 Z License plate light

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