

Mid'60-1963 Bus Export Model Wiring Harness Kit This wiring harness kit fits 6-volt and 12-volt U.S. export Bus models from Mid'60 (starting at VIN # 614456) – 1963 Bus. These models have an 8-fuse push-on terminal fuse box. This will also work with 1960 Bus models between VIN #'s 569929-614455, however the push-on terminals will need to be removed as these models have screw terminal connections.

If your Bus is a European model, or some electrical upgrades have been performed (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.

Component List

- Main Harness (1)
- Headlight Harness (1)
- Instrument Harness (1)
- Emergency Light Harness (for 1962-1963 models only) (1)
- Dome Light Harness (1)
- Clock Harness (1)
- Miscellaneous Wires (18)
- Grommet (1)
- Headlight Plug (2)
- Connectors (5)
- Piggy Back Connector (for 1963 models only) (1)

Installation

1. Remove battery from Bus, or disconnect negative cable. Removal of the battery will allow for greater room in which to work.
2. Remove the three bolts that secure the upper steering column support, and rotate the bracket 180 degrees.
3. Remove the five Phillips head screws that secure the front package tray to the body, and remove front package tray from Bus.
4. 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. After the front connections are removed, the front portion of the main harness can be removed from the front cab area by pushing the harness downward through the front panel. An assistant may be helpful to pull the harness free from under the Bus. 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. This step is extremely important for Buses equipped with a sub-floor in the center section (belly pans), as access to the main harness conduit is not accessible.

With the dragline attached, loosen the metal bands that secure the harness to the frame rail (for Buses models without a sub-floor in the center section), and pull the harness from the rear as an assistant helps guide the dragline.

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, secure the center portion by closing the metal bands (for Bus models without a sub-floor in the center section), then install the supplied rear main harness grommet and feed the harness into the engine compartment. Route the harness to each respective location. The left taillight wires and license light wires route above the engine compartment. Attach the remaining wires as per the diagram on page (5). For Mid'60-61 models, attach the supplied 1-1 small plastic connectors onto the black/red, black/yellow, and black/white wires of the turn signal switch. For 1962-1963 models, attach the single side of the supplied 1-2 plastic connectors onto the black/red, black/yellow, and black/white wires of the turn signal switch. Please note that this harness is plumbed with a fuel gauge sending unit wire. If your Bus does not have a fuel gauge, simply cut for removal.

5. Install headlight harness, see diagram on page (5). When removing the old headlight harness, observe the path in which the horn, brake light, and high/low beam wires route. Use the same journals to route these wires through. Pay close attention to the parking lamp 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. Attach the low and high beam wires onto supplied headlamp plugs. Attach the supplied large terminal block onto the long yellow wire (fuse box side of this harness). Attach the two short yellow and yellow/black wires into the opposite end of the connector block. You may

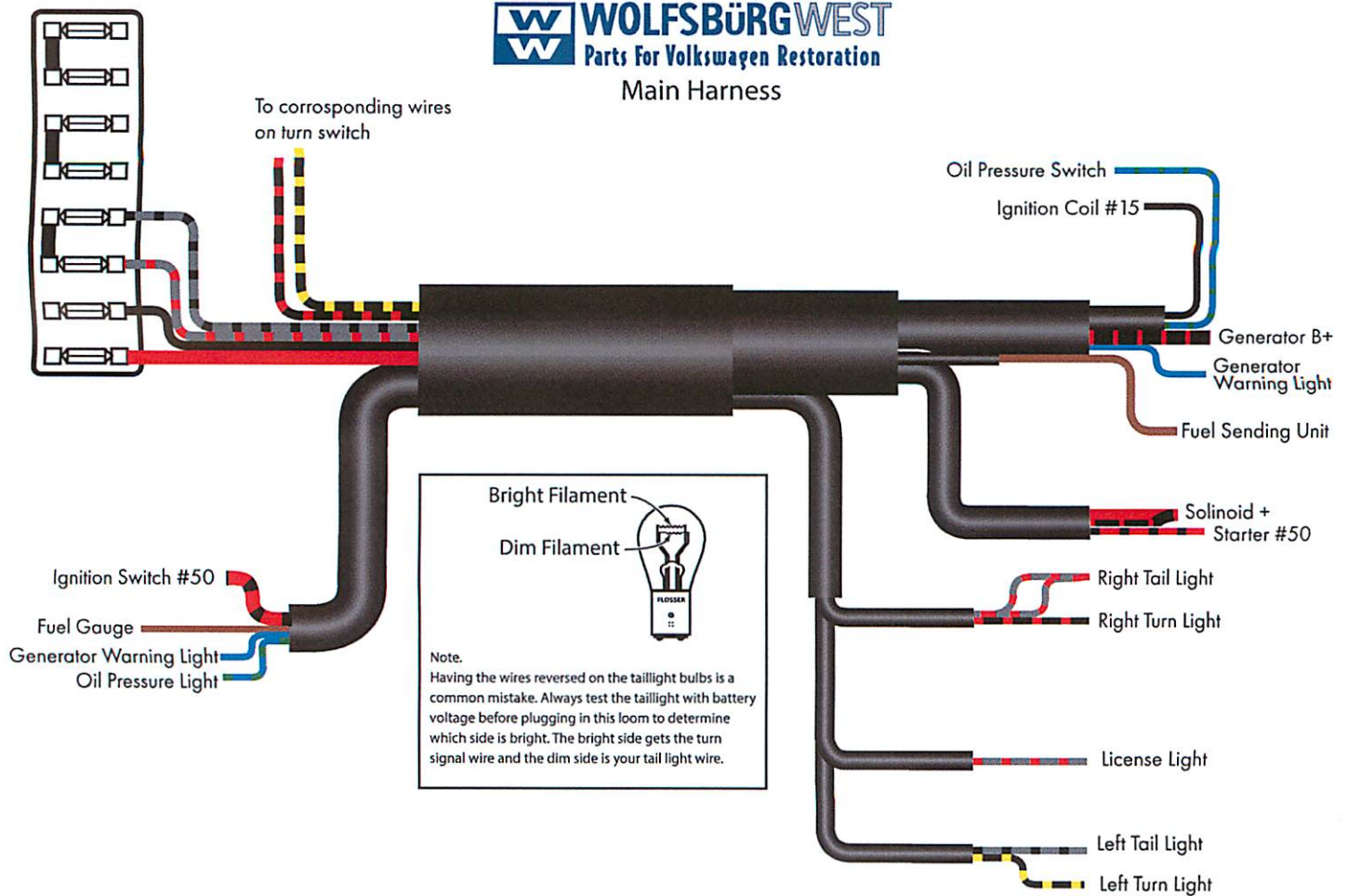
have to loosen the set screw of the terminal block to allow for both wires to insert.

6. Install instrument harness, see diagram on page (6).
7. Install emergency harness (for 1962-1963 models only) see diagram on page (6). THIS HARNESS IS NOT USED WITH MID'60-61 MODELS.
8. Install dome light harness, see diagram on page (6). If your Bus currently has a headliner installed, the beading that divides the side and roof panels must be removed. In order to remove this beading, the material is often destroyed due to its fragile nature. If your old harness is still intact, it's best to use the harness already present in lieu of replacement.
9. Install clock harness (for applicable models), see page (6).
10. Install miscellaneous wires, see bag labeled SUPPLEMENTAL WIRES, and page (7) for illustrations:
 - Attach taillight ground wires, one per taillight to their respective location (brown, 250mm length one end finished with a 5mm eyelet terminal, and a female quick-disconnect on the opposite end).
 - Attach license light ground wire to its proper location (brown, 120mm length with one end finished with a 5mm eyelet terminal, and a female quick-disconnect on the opposite end).
 - Attach coil (terminal 15) to choke wire (black, 480mm length with double female quick-disconnect terminals).
 - Where applicable, attach fuel tank sending unit ground wire (light blue, 250mm length with double 5mm eyelet terminal ends).
 - Attach headlight switch (terminal 30) to ignition switch (terminal 30) wire (red, 310mm length with double female quick-disconnect terminals).
 - Attach dome light switch to wiper switch wire (black, 225mm length with double female quick-disconnect terminals).
 - Attach wiper switch to wiper motor wire (black/purple with conduit, 540mm length, with double female quick-disconnect terminals).
 - Attach wiper motor ground wire from terminal 31 (or -) of the wiper motor, to the journal that mounts the wiper motor assembly to the body (brown, 110mm length, one end finished with a 6mm eyelet terminal, and a female quick-disconnect on the opposite end).
 - Attach instrument illumination wire from terminal 58b of the headlight switch to *speedometer illumination* bulbs and fuel gauge (where applicable), (grey/red wire, three wires total joined at two locations, each end finished with female quick-disconnect terminal).
 - Attach flasher relay ground wire from terminal 31 of flasher to ground location (brown, 120mm length, one end finished with a 5mm eyelet terminal, and a female quick-disconnect on the opposite end).
 - Attach *black/green/white* wire from turn signal switch to terminal 49a (or S) of the turn signal flasher

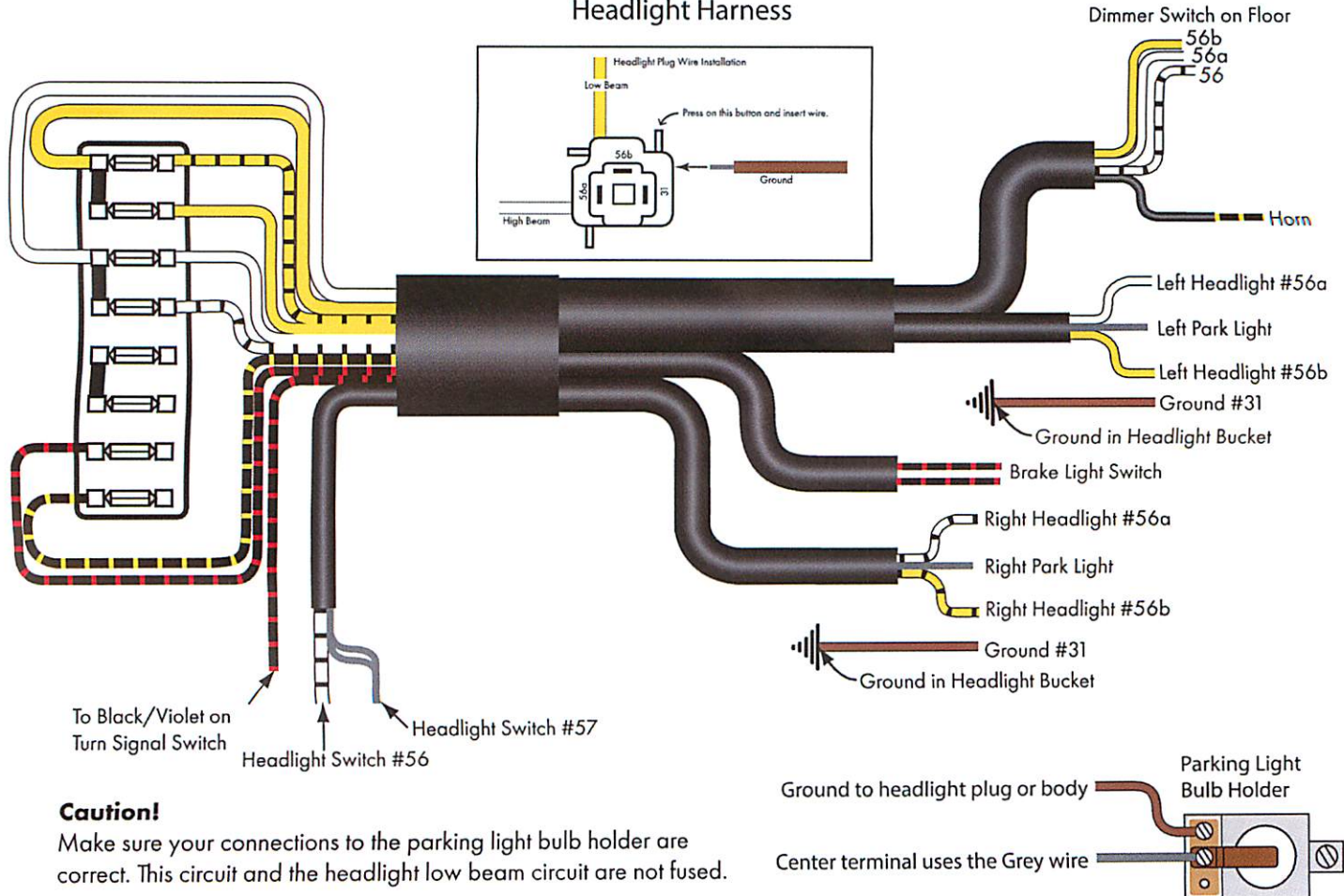
unit. Please note that this wire is not a component of the wire harness, but rather is a component of the turn signal switch.

- For Mid'60-61 models only, attach turn signal flasher unit wire to terminal 49 (or +) of the flasher unit. Connect opposite end to the fuse box. Please refer to wiring diagram for proper mounting location of the fuse box (black/white, 250mm, each end finished with female quick-disconnect terminal). THIS WIRE IS NOT USED WITH 1962-1963 MODELS.
 - For 1963 models only (starting at VIN # 1035884), attach the emergency flasher indicator lamp to the emergency light switch. Use the supplied piggy back connector to for connection at the emergency light switch. (grey wire, 410mm length, each end finished with a female quick-disconnect terminal). THIS WIRE IS NOT USED WITH MODELS PRIOR TO vin # 1035884.
 - Attach left front blinker assembly wire to black/white wire of turn signal switch with supplied connector, connect the opposite end to the turn signal bulb holder (black/white, 450mm length, each end finished with female quick-disconnect terminal).
 - For Mid'60-61 models only, attach right front blinker assembly wire to black/green wire of turn signal switch with supplied connector, connect the opposite end to the turn signal bulb holder (black/green, 800mm length, each end finished with female quick-disconnect terminal).THIS WIRE IS NOT USED WITH 1962-1963 MODELS.
 - Attach headlight ground wire, one per headlight assembly, from terminal 31 of the headlight plug to their respective location (brown, 330mm, 5mm eyelet terminal end).
 - Attach horn wire (brown, 1530mm, partially shielded with black conduit, one end female quick-disconnect terminal) by feeding this wire bare side up through the steering column tube. Loosen wire bracket from steering box housing and attach the terminal end within the steering box.
11. With installation now complete, double check all connections. Carefully connect battery and test each system for proper operation. Screw terminal fuse boxes are notorious for allowing wires to become loose. After the initial road test, check the connections again at the fuse box, as well as any other screw terminal connection.

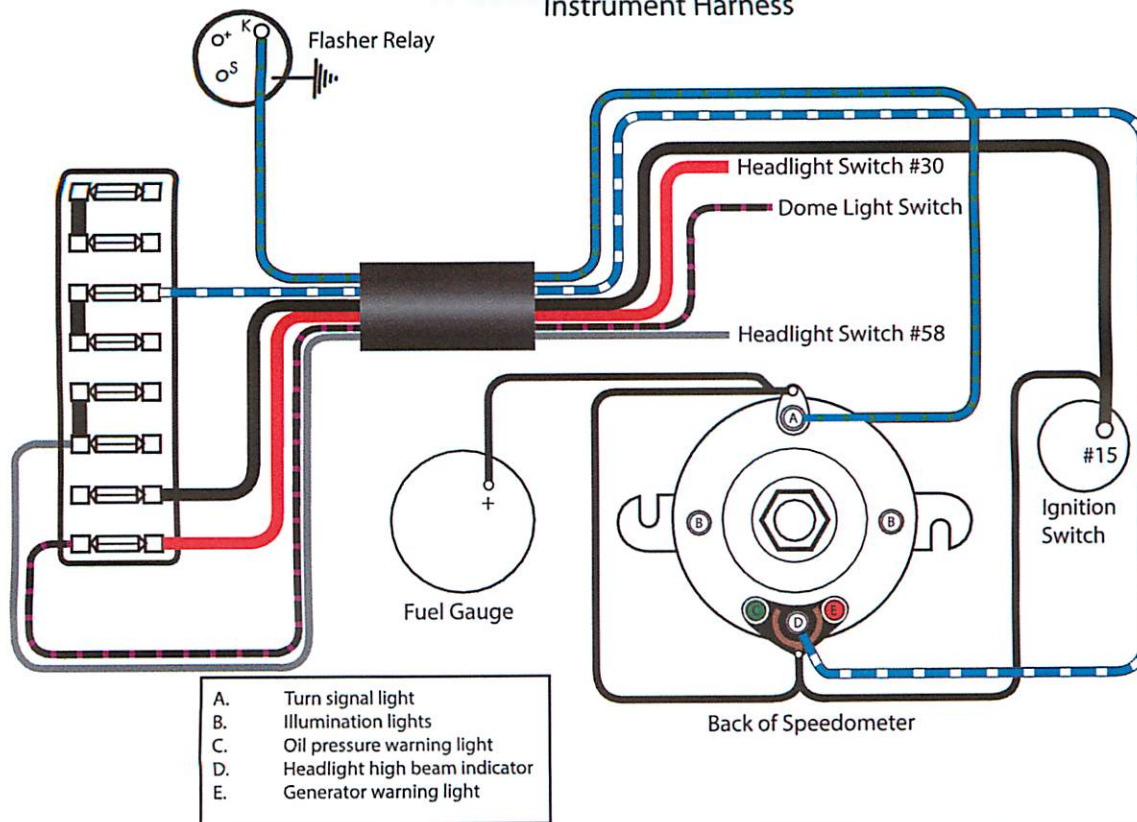
Main Harness



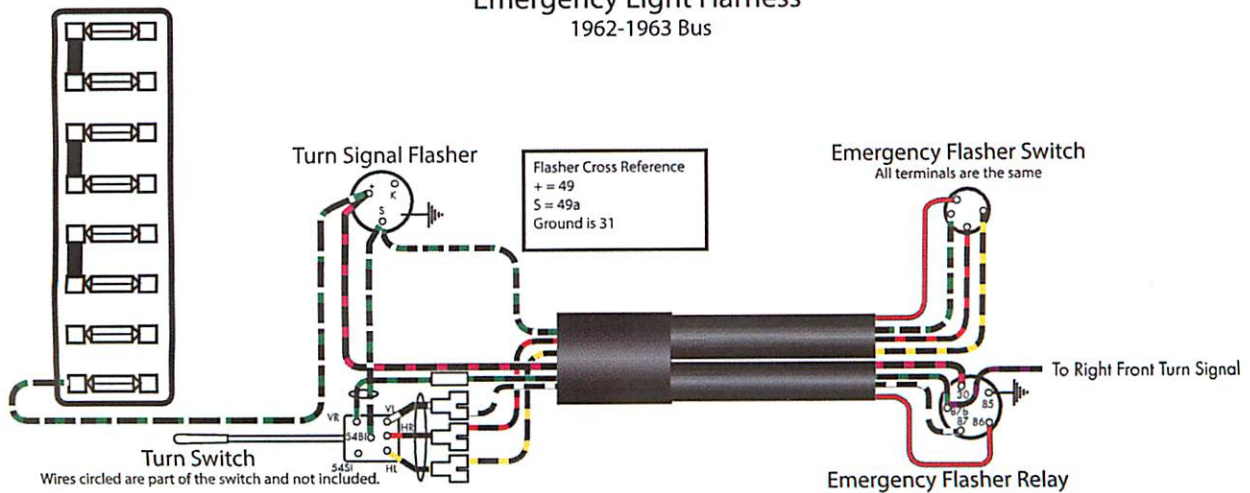
Headlight Harness



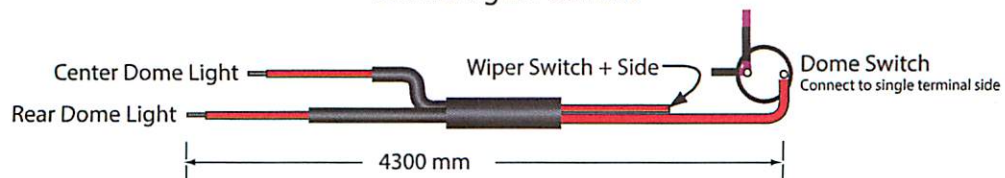
Instrument Harness



Emergency Light Harness 1962-1963 Bus



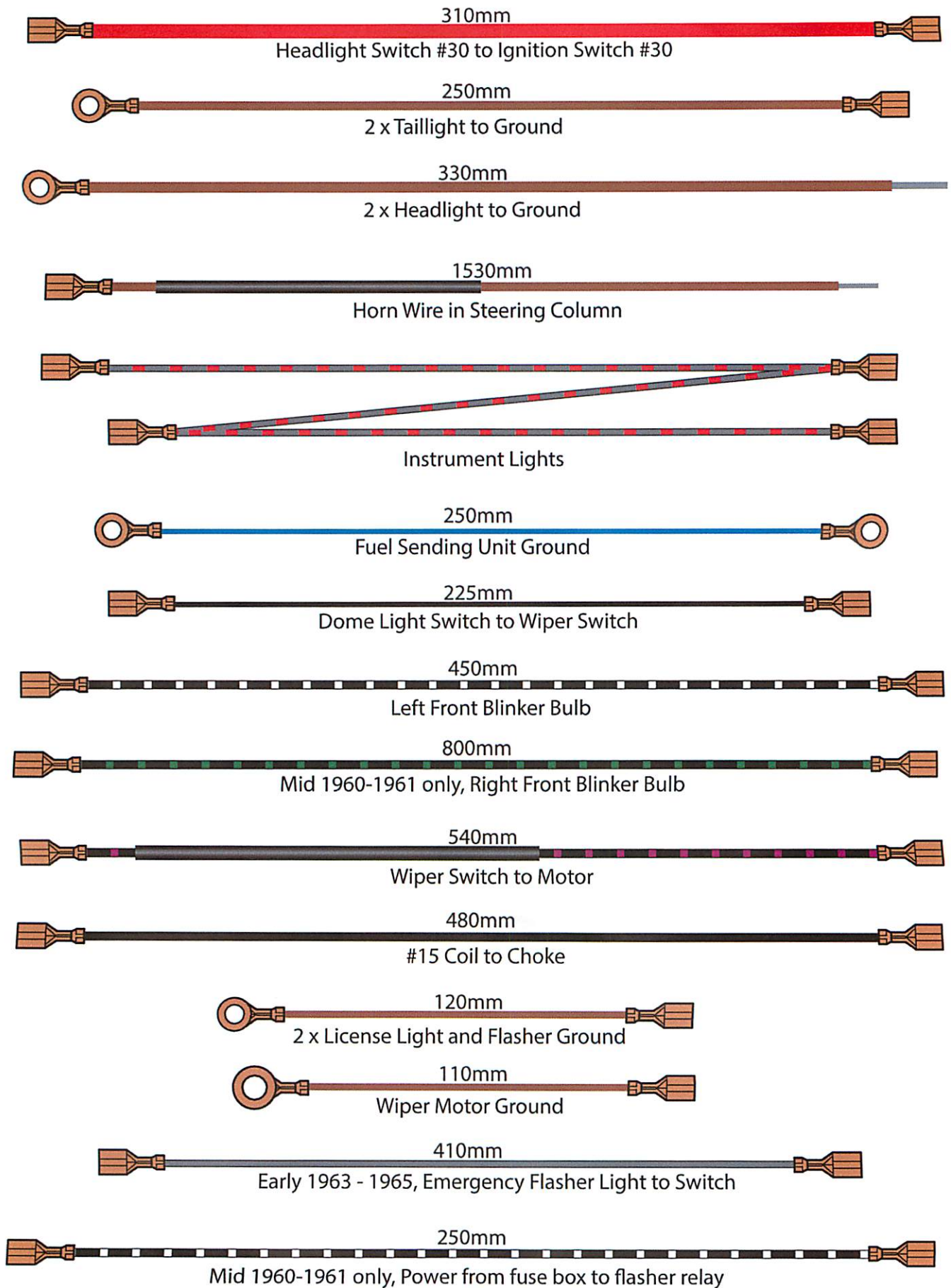
Dome Light Harness



Clock Harness

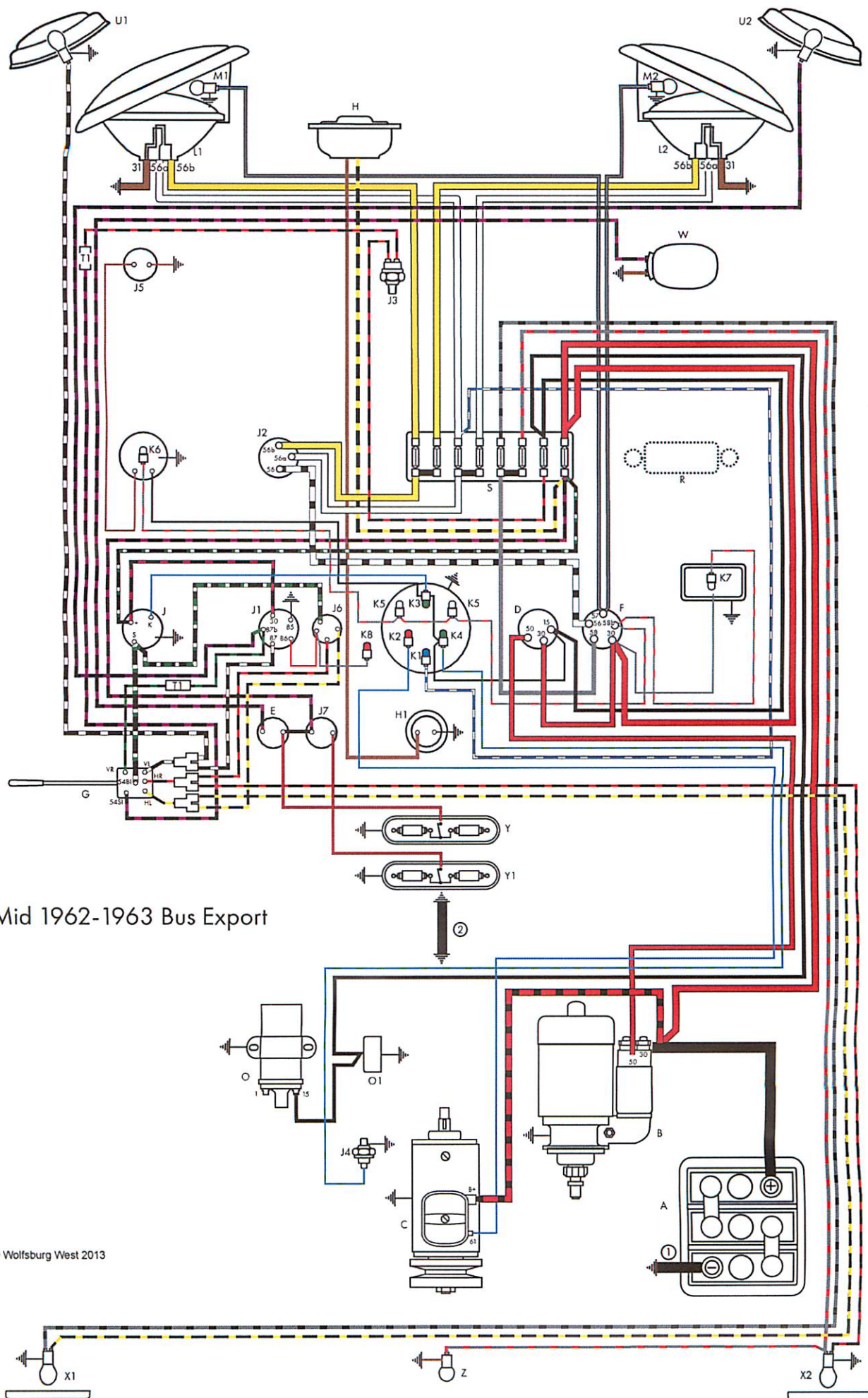


Miscellaneous Wires



1960-1961 Wiring Diagram Legend

A.	Battery
B.	Starter
C.	Generator
D.	Starter/Ignition switch
E.	Windshield wiper switch
F.	Light switch
G.	Turn indicator switch
H.	Horn
H1	Horn button
J	Flasher relay
J2	Dimmer switch
J3	Stop light switch
J4	Oil pressure switch
J5	Fuel gauge sender unit
J7	Interior light switch
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 light
K7	Clock light
L1	Sealed-beam unit, left
L2	Sealed-beam unit, right
M1	Parking light, left
M2	Parking light, right
O	Coil
O1	Automatic choke
R	Radio
S	Fuse box
T1	Cable connector
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	Front interior light
Y1	Rear interior light
Z	License plate light



1962-1963 Wiring Diagram Legend

A.	Battery
B.	Starter
C.	Generator
D.	Starter/Ignition switch
E.	Windshield wiper switch
F.	Light switch
G.	Turn indicator switch
H.	Horn
H1	Horn button
J	Flasher relay
J1	Emergency flasher relay
J2	Dimmer switch
J3	Stop light switch
J4	Oil pressure switch
J5	Fuel gauge sender unit
J6	Emergency light switch
J7	Interior light switch
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 light
K7	Clock light
K8	Emergency flasher warning light
L1	Sealed-beam unit, left
L2	Sealed-beam unit, right
M1	Parking light, left
M2	Parking light, right
O	Coil
O1	Automatic choke
R	Radio
S	Fuse box
T1	Cable connector
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	Front interior light
Y1	Rear interior light
Z	License plate light