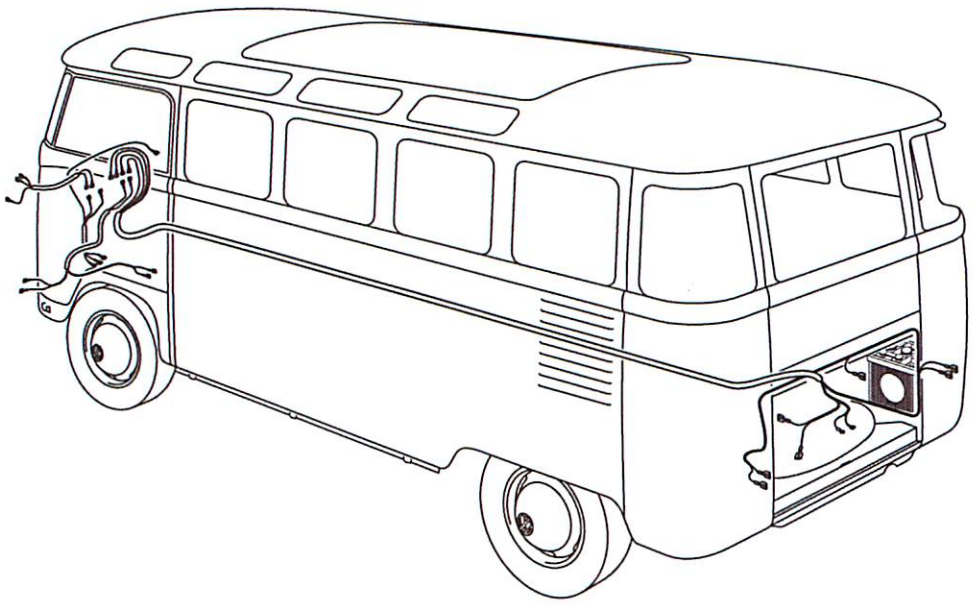
WOLFSBURG WEST
Parts For Volkswagen Restoration

Part # 211 971 013B



Mar'55-Mid'60 Bus Export Model Wiring Harness Kit

This wiring harness kit fits 6-volt and 12-volt U.S. export Bus models with flashing indicators from Mar'55 (starting at VIN # 20-117902) – Mid'60 Bus (through VIN # 569928). These models used a 6-fuse screw terminal fuse box.

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)
- Dome Light Harness (1)
- Clock Harness (1)
- Brake Light Harness (for Mid'55-Mid'57 Bus, '57 Bus thru chassis # 246963), (1)
- Miscellaneous Wires (16)
- Grommet (1)
- Headlight Plug (2)
- Connectors (4)

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 your convenience, this harness is plumbed with a fuel sending unit wire. Buses of this vintage were not equipped with a fuel gauge. Keep this wire intact for possible future use, or cut to remove .

****PLEASE NOTE: The main harness within this kit is a dual purpose piece. If your Bus does not have a brake light positioned within the engine lid, the black/green wire is not used. This wire can be tucked inside of the harness sheathing, or cut to remove.

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 dome light harness, see diagram on page (8). 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.

8. Install clock harness (for applicable models), see page (6).

9. Install miscellaneous wires, see bag labeled SUPPLEMENTAL WIRES, and page (9) for illustrations:

- Attach taillight ground wires, one per taillight to their respective location (brown, 250mm length with one 5mm closed terminal end). Although these wires were not used originally, these are supplied in the event a good ground is not achieved when mounting the taillight assembly to the body (heavy paint, body filler, etc).
- Attach license light ground wire (not used with Buses equipped with brake light positioned within engine lid) to its proper location (brown, 120mm length with one 5mm eyelet terminal end).
- Where applicable, attach coil (terminal 15) to choke wire (black, 460mm both ends soldered).
- 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, 290mm length with both ends soldered).
- Attach dome light switch to wiper switch wire (black, 210mm length with both ends soldered).
- Attach wiper switch to wiper motor wire (black/purple with conduit, 510mm length, both ends soldered).
- 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, 100mm length, one end with 6mm eyelet terminal 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).
- Attach flasher relay ground wire from terminal 31 of flasher to ground location (brown, 120mm length, 5mm eyelet terminal end).
- 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 with double soldered ends).

- 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.

- Attach left front blinker assembly to black/white wire of turn signal switch with supplied connector, connect the opposite end to the turn signal bulb holder (black/white, 430mm length, double soldered ends).

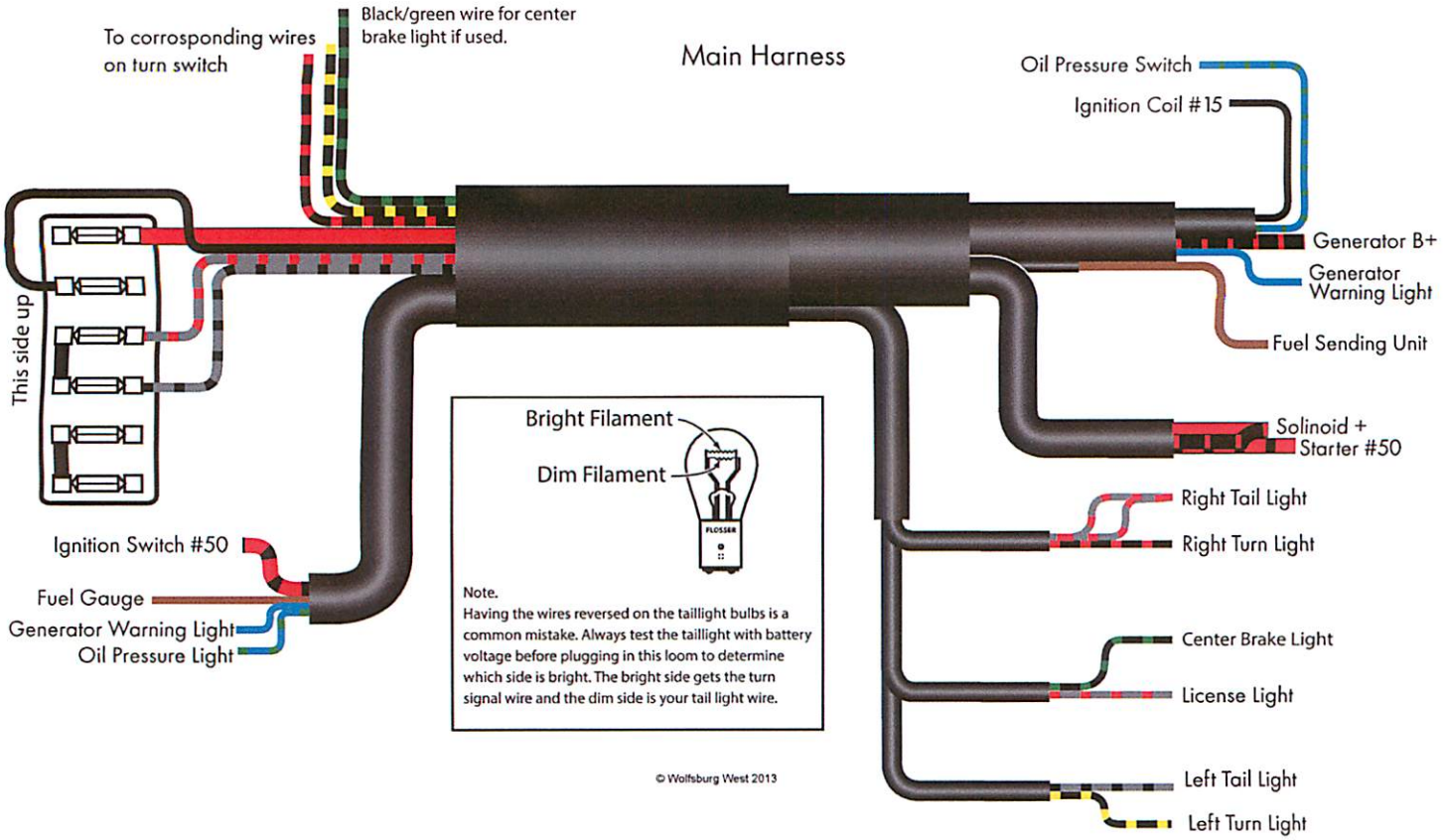
- Attach right front blinker assembly to black/green wire of turn signal switch with supplied connector, connect the opposite end to the turn signal bulb holder (black/green, 800mm length, double soldered ends).

- Attach headlight ground wire, one per headlight assembly, from terminal 31 of the headlight plug to the inside portion of the headlight bucket (brown, 320mm, 5mm eyelet terminal end). Please note that early models did not ground inside the headlight bucket assembly, but rather used a looping style ground. If your model does not have a mounting location inside the headlight bucket, you will need to drill a hole to accommodate the supplied grounds.

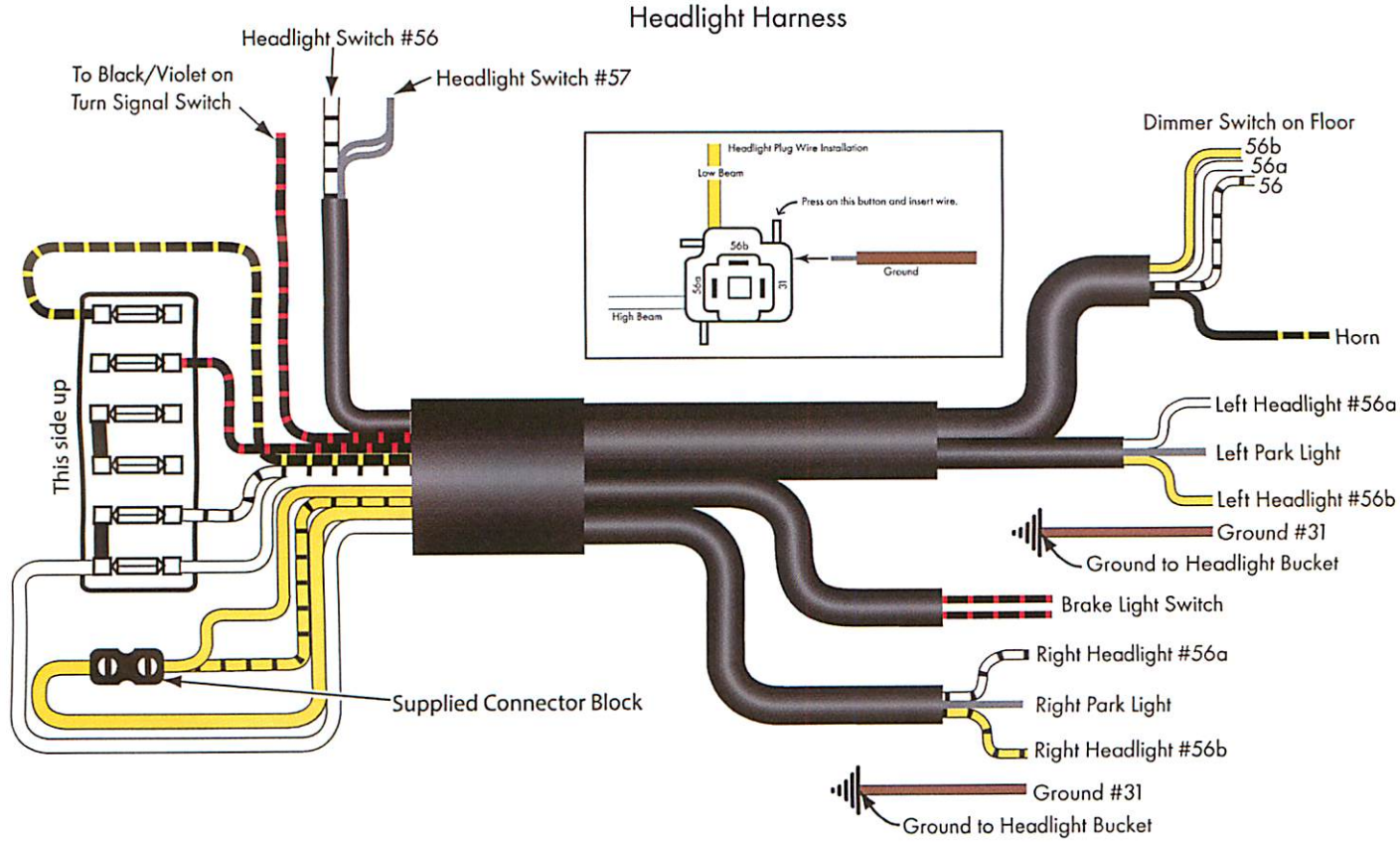
- Attach horn wire (brown, 1520mm, partially shielded with black conduit, both ends bare) by feeding this wire bare side up through the steering column tube. Loosen wire bracket from steering box housing and attach the terminal end within the steering box.

10. 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

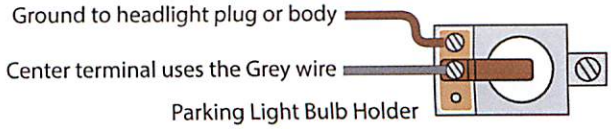


Headlight Harness

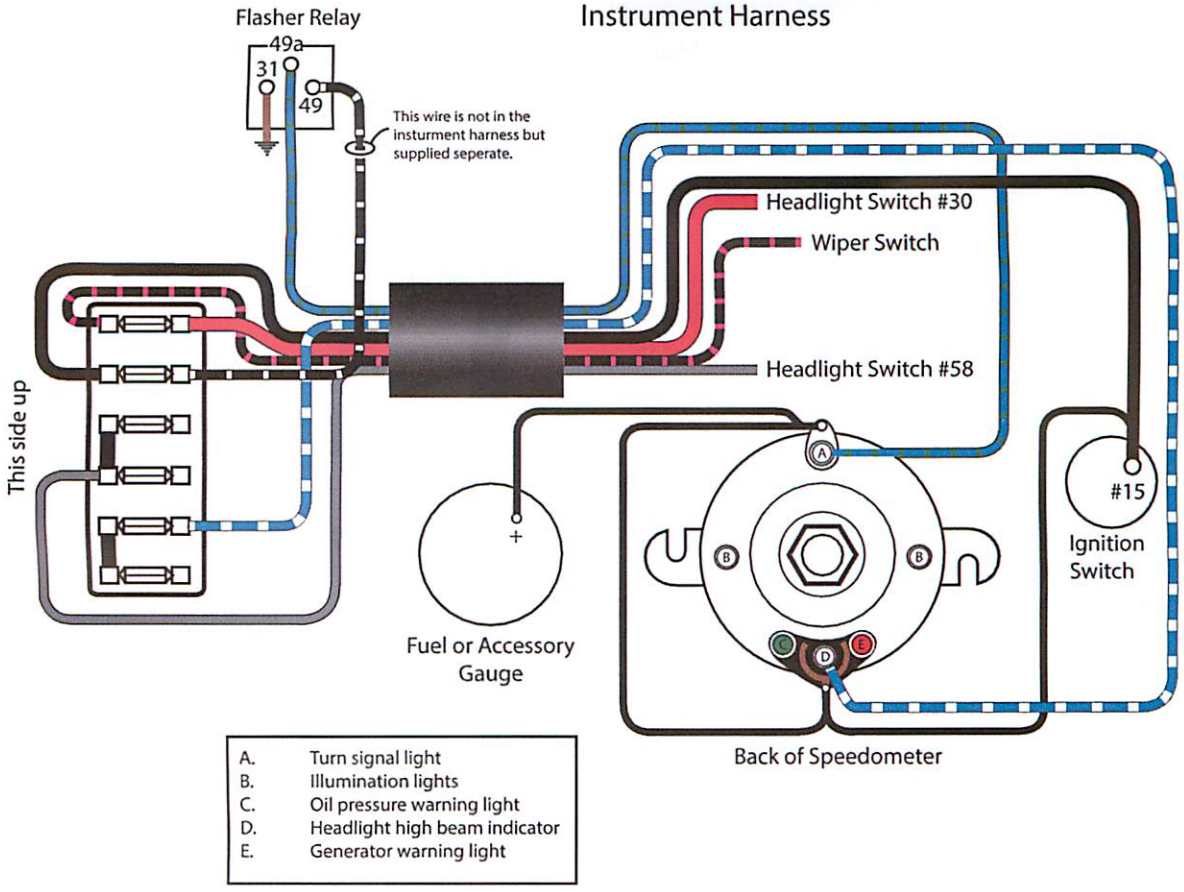


Caution!

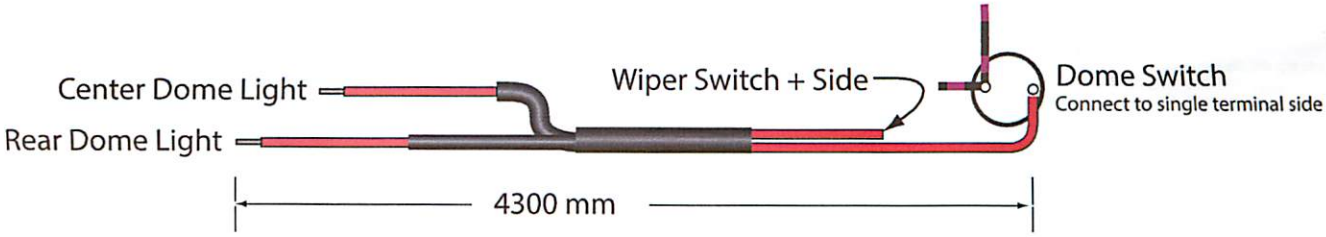
Make sure your connections to the parking light bulb holder are correct. This circuit and the headlight low beam circuit are not fused.



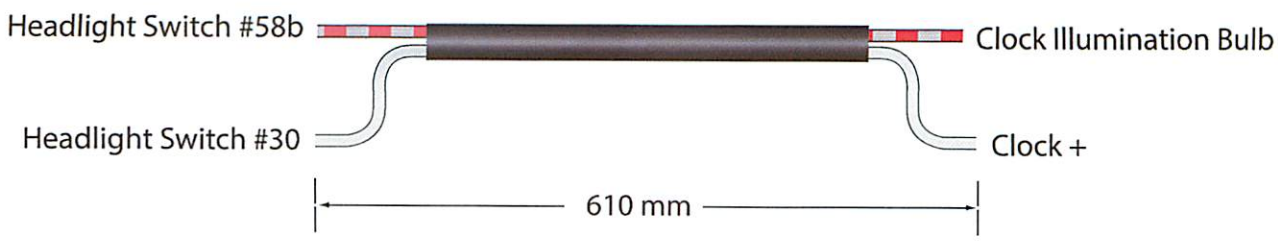
Instrument Harness



Dome Light Harness

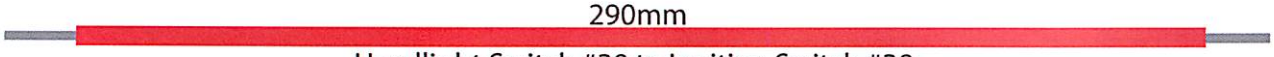


Clock Harness



Miscellaneous Wires

290mm

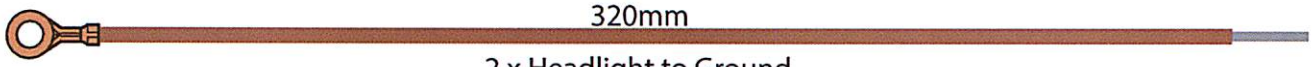


Headlight Switch #30 to Ignition Switch #30

250mm

2 x Taillight to Ground

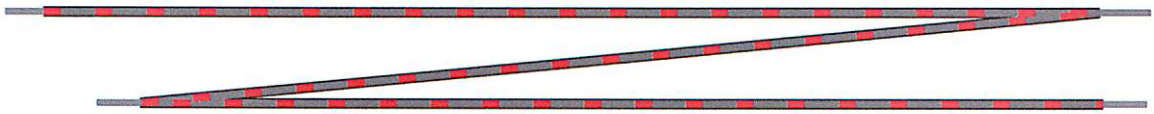
320mm



2 x Headlight to Ground

1520mm

Horn Wire in Steering Column



Instrument Lights

250mm

Fuel Sending Unit Ground

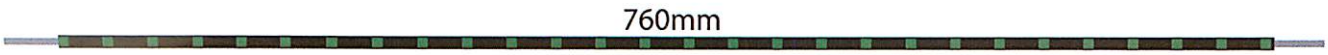
210mm

Dome Light Switch to Wiper Switch

430mm

Left Front Blinker Bulb

760mm

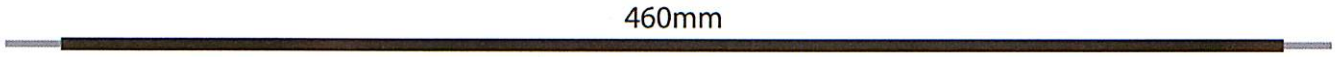


Right Front Blinker Bulb

510mm

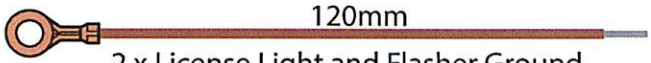
Wiper Switch to Motor

460mm



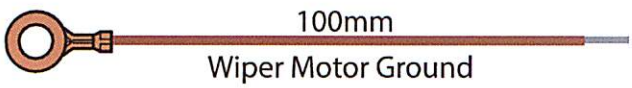
Extra wire for choke, if needed

120mm



2 x License Light and Flasher Ground

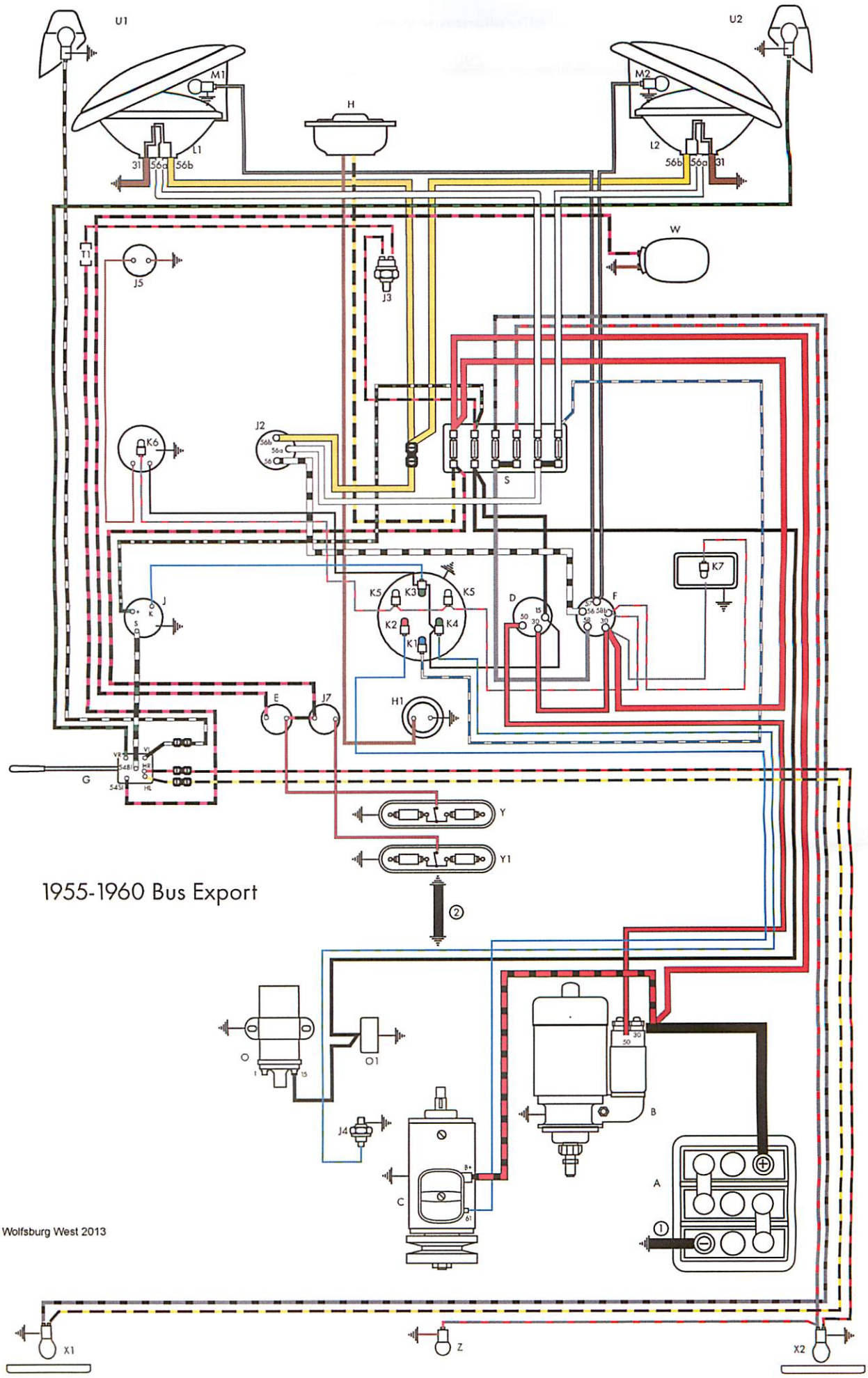
100mm



Wiper Motor Ground

250mm

Power from fuse box to flasher relay



1955-1960 Bus Export

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
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

1955 -1957 Vehicles with Center Brake Light

Use this wiring diagram to correctly fit this harness .