1966-1967 Bus Export Model Wiring Harness Kit. This wiring harness kit fits 6-volt and 12-volt U.S. export Bus models from 1966-1967.

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.

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 and two screws that secure the upper steering column support, and rotate the bracket 180 degrees.

3. Remove the three Phillips head screws that secure the front package tray to the body, remove the speedo cable then 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 (6) 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 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 . In the front attach the supplied 1-1 small plastic connectors onto the black/red and black/yellow wires of the turn signal switch and then to the corrosponding wires in the new main harness.

5. Install headlight harness, see diagram on page (5). When removing the old headlight harness, observe the path in which the horn and brake light 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. Attach the low and high beam wires onto supplied headlamp plugs. Attach the double brown 330mm long wire to the remaining position of the headlight plug, terminal #31. The other push-on connector is for the park light ground.

6. Install instrument harness, see diagram on page (7).

7. Install wiper motor to wiper switch harness, see diagram on page (8).

8. Use your old dome light harness.

9. Use your old clock harness (for applicable models).

10. Install generator/voltage regulator harness, see page (8).

11. Install miscellaneous wires, see page (10) for illustrations:

- Attach generator power wire, + post on battery to B+ terminal on the voltage regulator (red, 400mm length one end finished with a 8mm eyelet terminal, and a .375 female quick-disconnect on the opposite end).

- 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 choke/idle valve wire to the coil (terminal 15) to choke and to the idle valve on the carburetor. (double black, 425mm length with double female quick-disconnect terminals).

- 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 fuse box to flasher relay (terminal 30) wire (red, 350mm length with double female quick-disconnect terminals).

- Attach instrument illumination wire from terminal 58b of the headlight switch to speedometer illumination bulbs and fuel gauge, (grey/red wire, three wires total joined at two locations, each end finished with female quick-disconnect terminal).

- Attach left front blinker assembly wire, (black/white wire) to terminal VL of the 9 pin flasher relay and left turn signal bulb holder. Attach right front blinker assembly wire, (black/green wire) to terminal VR of the 9 pin flasher relay and right turn signal bulb holder. Some replacement turn switches may not have the additional wire to the front turn signal bulb holders. We have supplied these in case yours are missing.

- Attach high beam headlight power wire between fuse box and terminal 56a on high/low headlight relay. (white, 240mm length with double female quick-disconnect terminals).

- Attach low beam headlight power wire between fuse box and terminal 56b on high/low headlight relay. (yellow, 240mm length with double female quick-disconnect terminals).

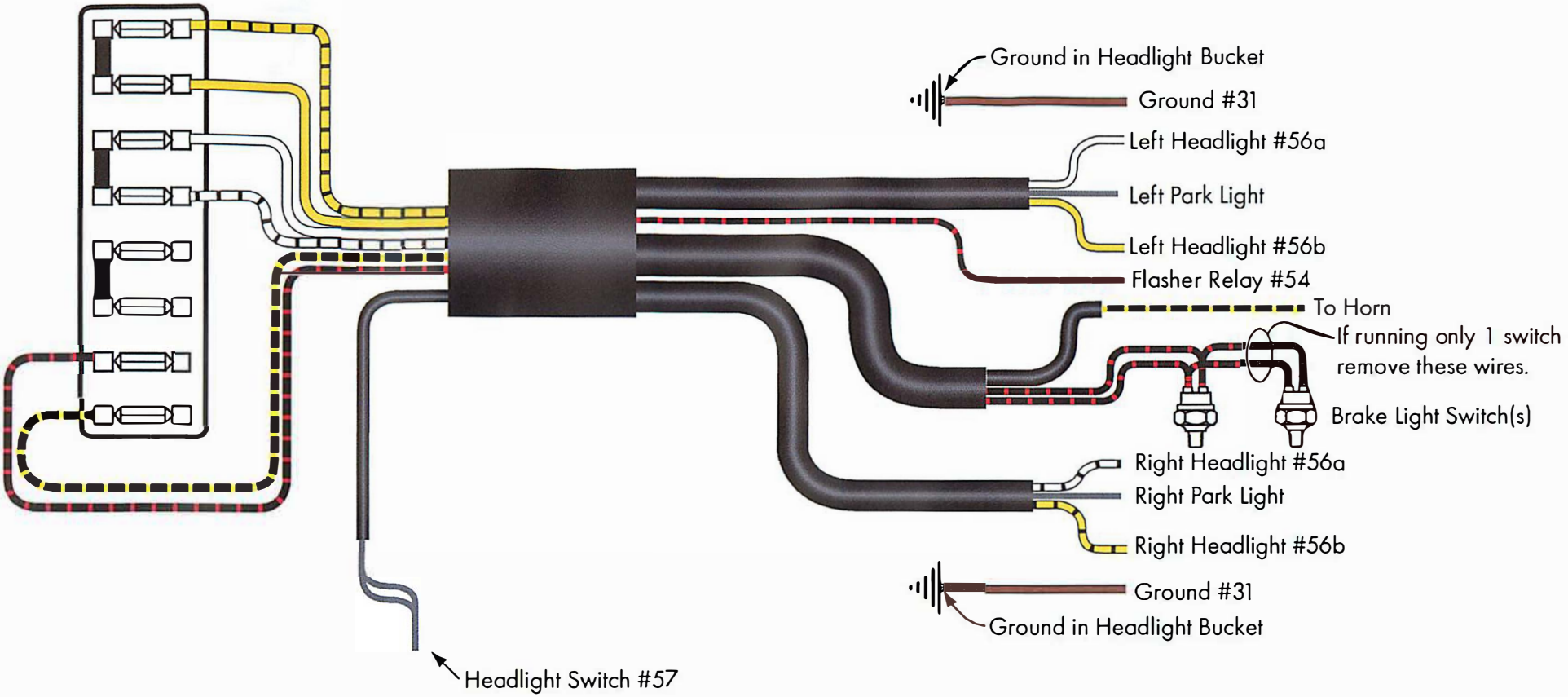
- Attach remaining wires on turn signal switch to the 9 pin flasher relay. These wires are part of the turn signal switch and therefore not included with the kit. They connect as follows;
  Black/White/Green to flasher terminal 49a.
  Black/Violet to flasher terminal 54f.
  Blue to Emergency flasher switch terminal K .
  Brown to ground (terminal #31 on the wiper switch).
  Brown/White to terminal #S on the high/low beam relay.
  The screw in the center of the flasher creates the ground. Make sure this is in place.

- Attach horn wire (brown, 1510mm, 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.

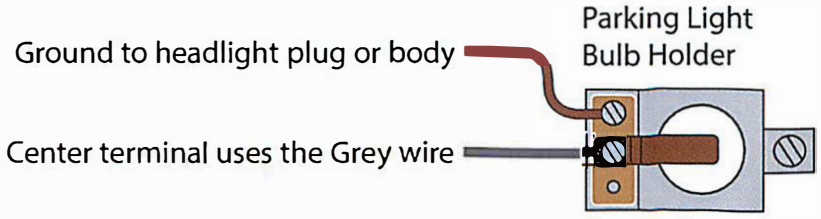
- Ensure that your positive battery cable includes the additional red cable connecting the positive battery post to B+ on regulator. We have supplied this wire if yours is missing (red, 400mm in length with 8.0mm ring connector and .375 push-on terminals).

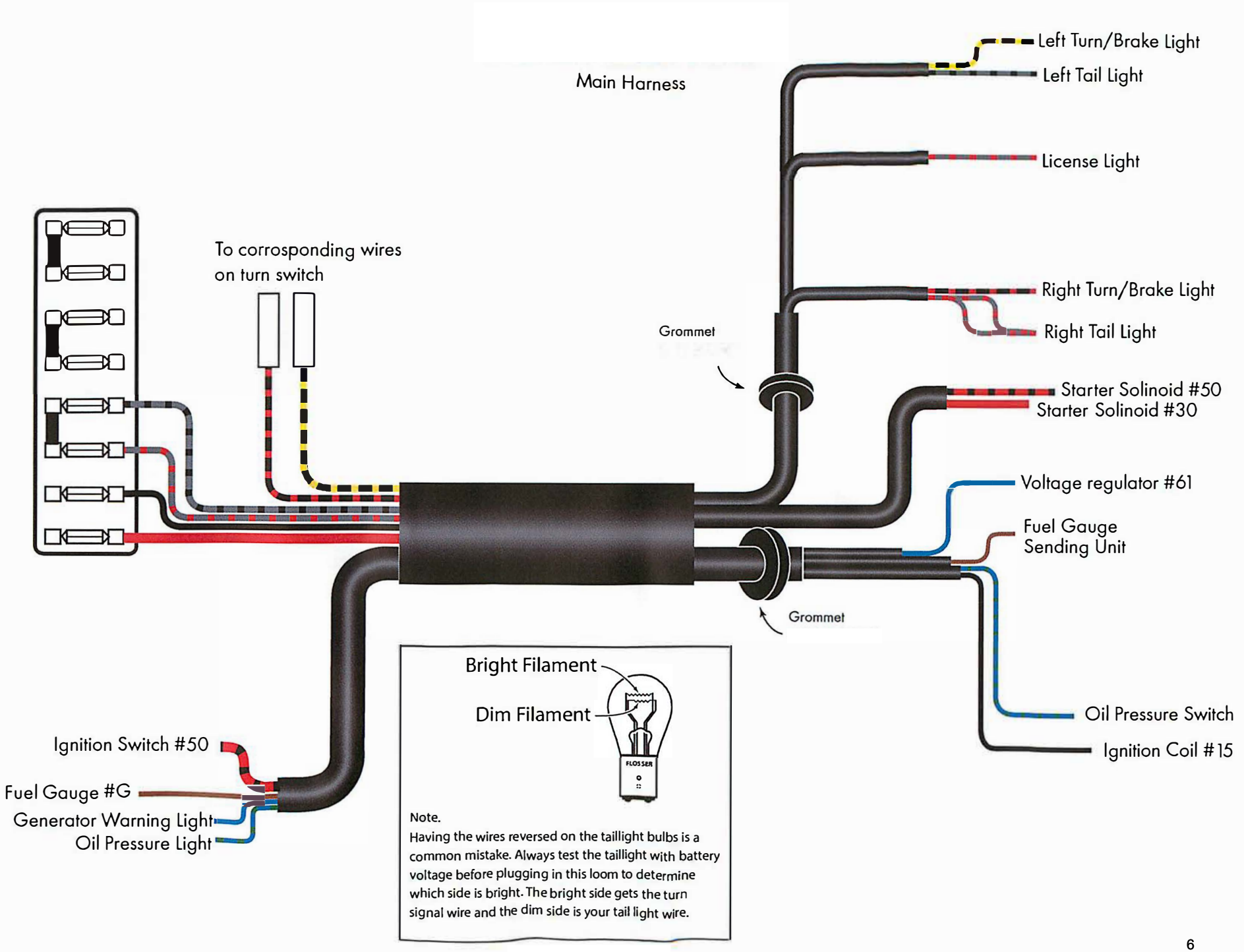
12. With installation now complete, double check all connections. Carefully connect battery and test each system for proper operation. Check all the lights to insure correct operation. Problems can usually be traced to an incorrect connection or poor ground.

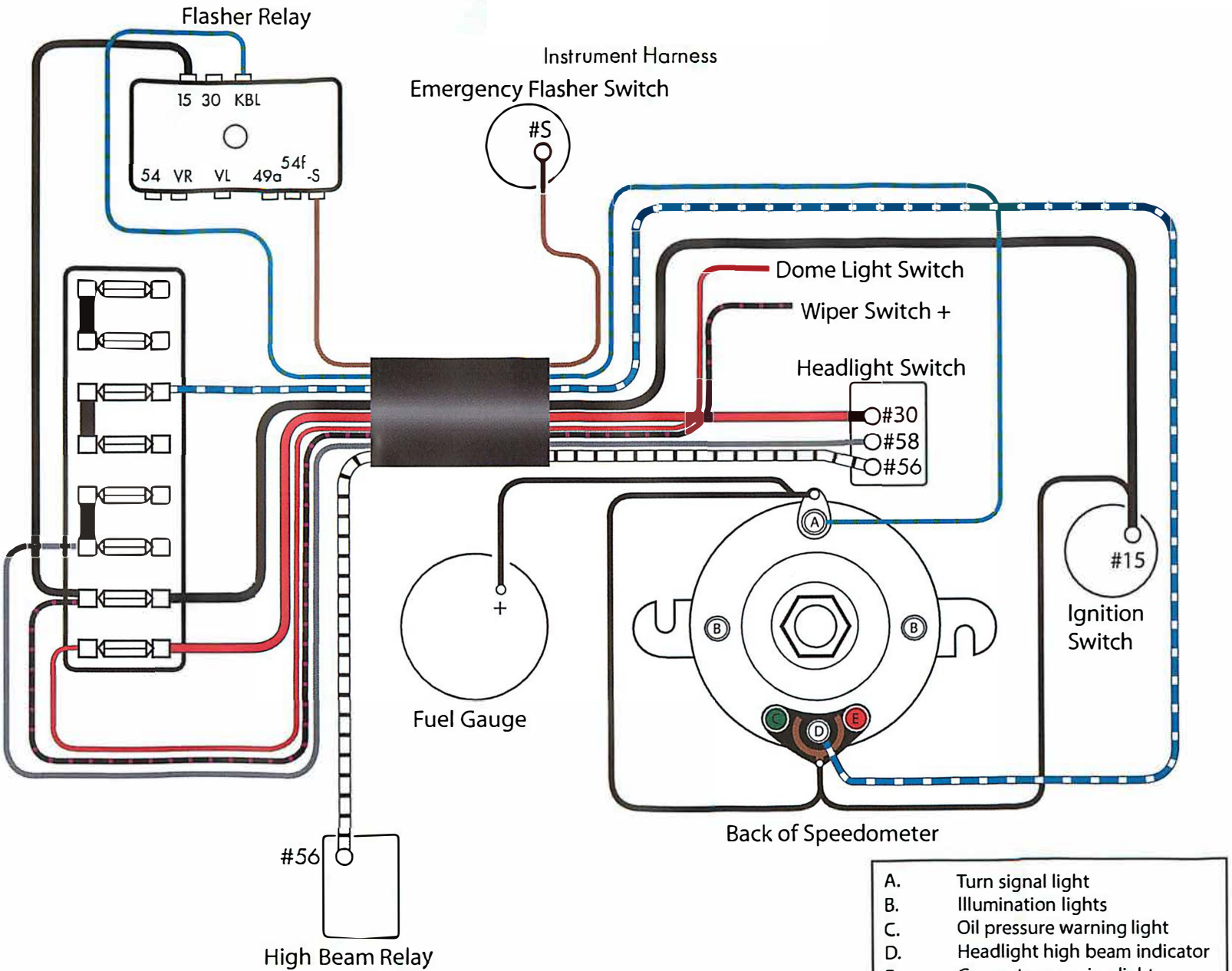
Headlight Harness



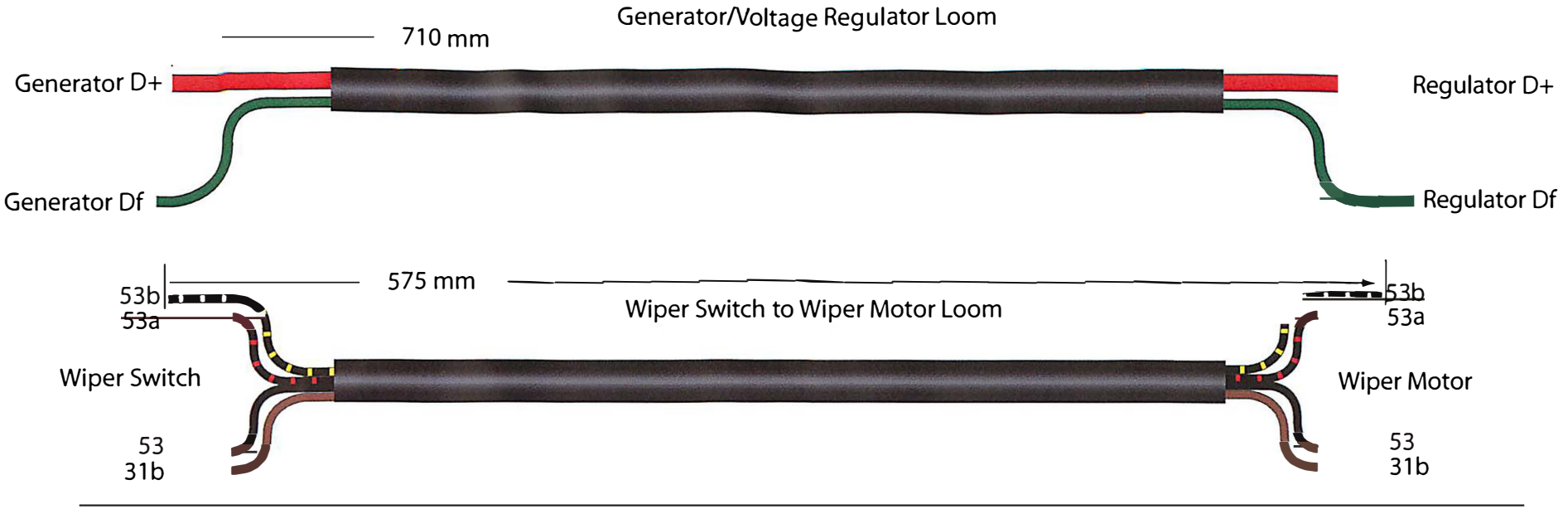
Caution!
Make sure your connections to the parking light bulb holder are correct. This circuit is not fused.



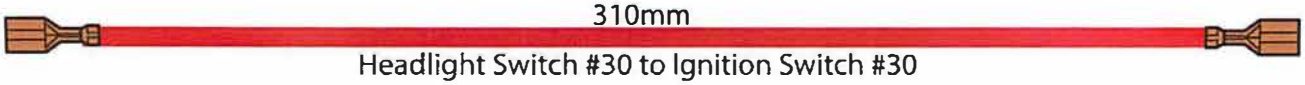

Main Harness
Left Turn/Brake Light
Left Tail Light
License Light
Right Turn/Brake Light
Right Tail Light
Grommet
To corrosponding wires
on turn switch
Starter Solinoid #50
Starter Solinoid #30
Voltage regulator #61
Fuel Gauge
Sending Unit
Grommet
Oil Pressure Switch
Ignition Coil #15
Ignition Switch #50
Fuel Gauge #G
Generator Warning Light
Oil Pressure Light
Bright Filament
Dim Filament
FLOSSER
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.	Turn signal light
B.	Illumination lights
C.	Oil pressure warning light
D.	Headlight high beam indicator
E.	Generator warning light

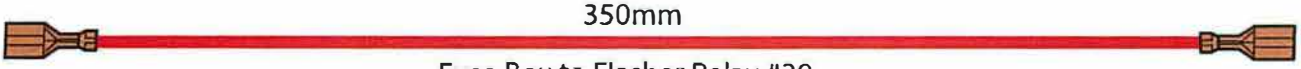

Generator/Voltage Regulator Loom
710 mm
Generator D+
Generator Df
Regulator D+
Regulator Df
575 mm
Wiper Switch to Wiper Motor Loom
53b
53a
Wiper Switch
53
31b
53b
53a
Wiper Motor
53
31b

Miscellaneous Wires



310mm

Headlight Switch #30 to Ignition Switch #30

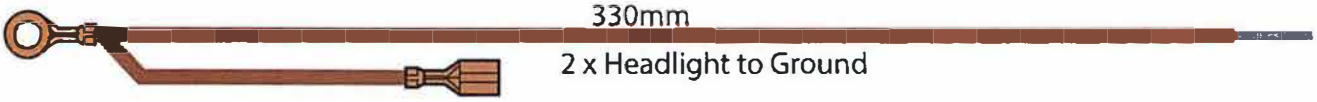


350mm

Fuse Box to Flasher Relay #30

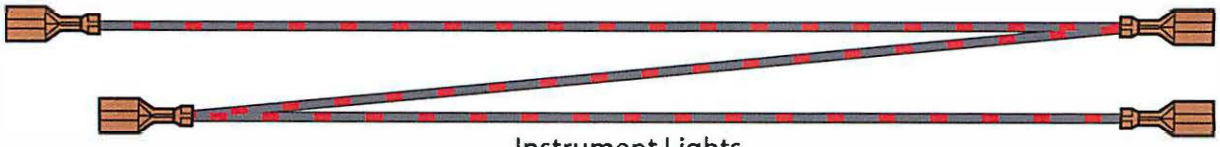
250mm

2 x Taillight to Ground



330mm

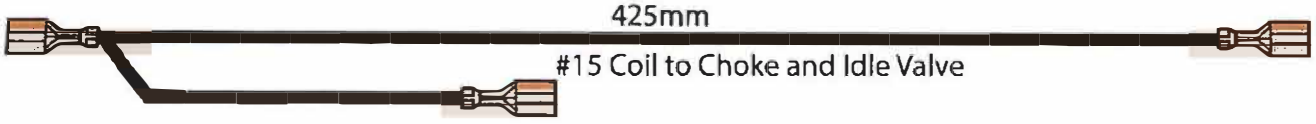
2 x Headlight to Ground



Instrument Lights

250mm

Fuel Sending Unit Ground



425mm

#15 Coil to Choke and Idle Valve

240mm

Fuse Box to Headlight Relay #56b

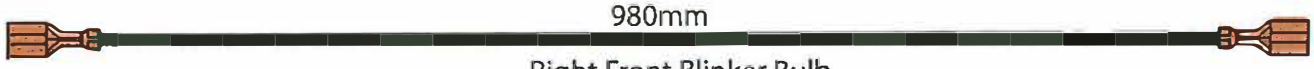
400mm

+ Battery to Voltage Regulator B+, (only needed if missing from battery cable)

If using a replacement turn signal switch these wires may be needed.

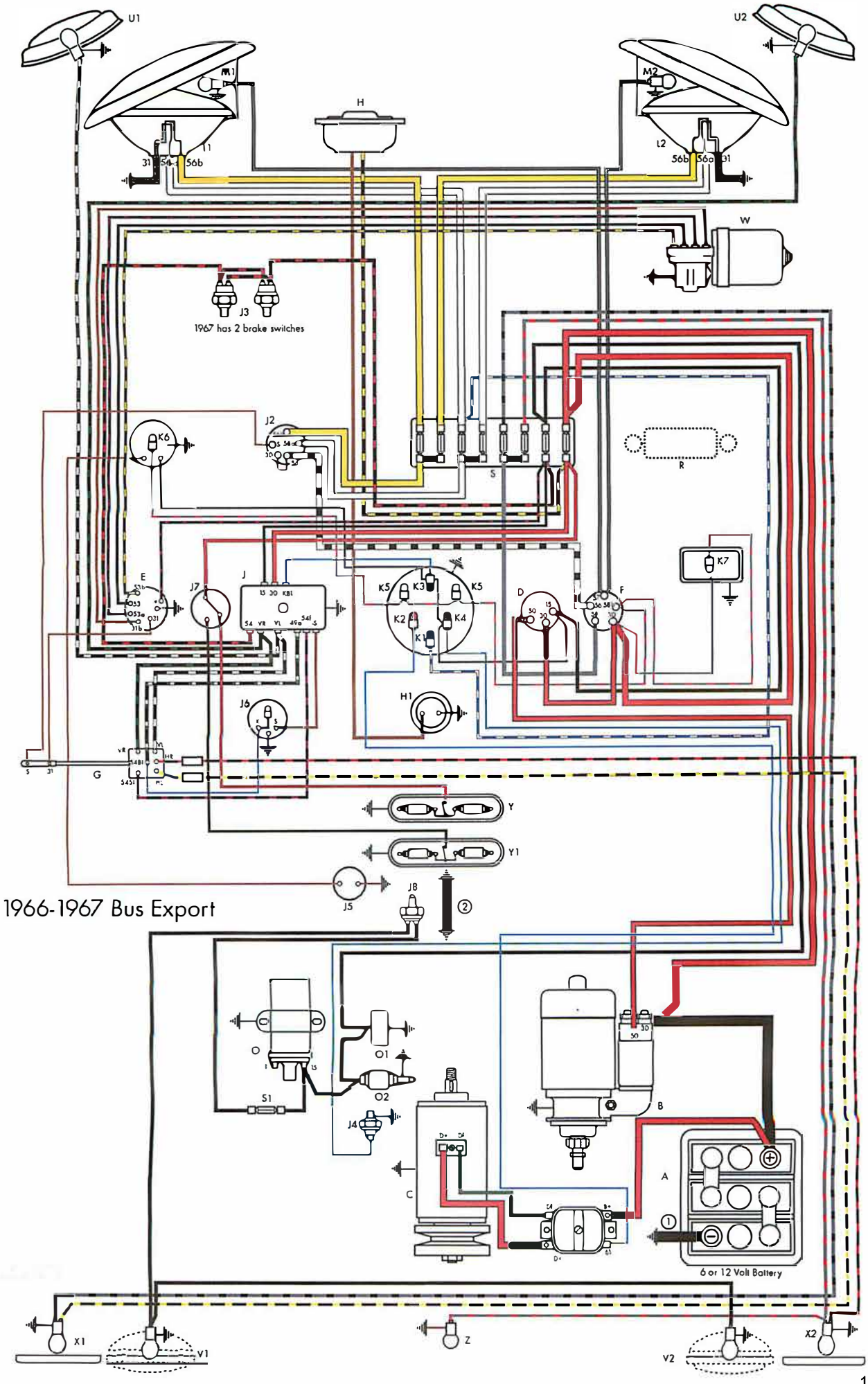
470mm

Left Front Blinker Bulb



980mm

Right Front Blinker Bulb



1966-1967 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	Turn signal/Emergency flasher relay
J2	Headlight relay
J3	Stop light switch
J4	Oil pressure switch
J5	Fuel gauge sender unit
J6	Emergency light switch
J7	Interior light switch
J8	Back-up switch (late 1967)
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
O2	Idle cutoff jet
S	Fuse box
U1	Turn indicator, front left
U2	Turn indicator, front right
V1	Back-up light, left (late 1967)
V2	Back-up light, right (late 1967)
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
①	Battery ground strap
②	Transmission to chassis ground strap