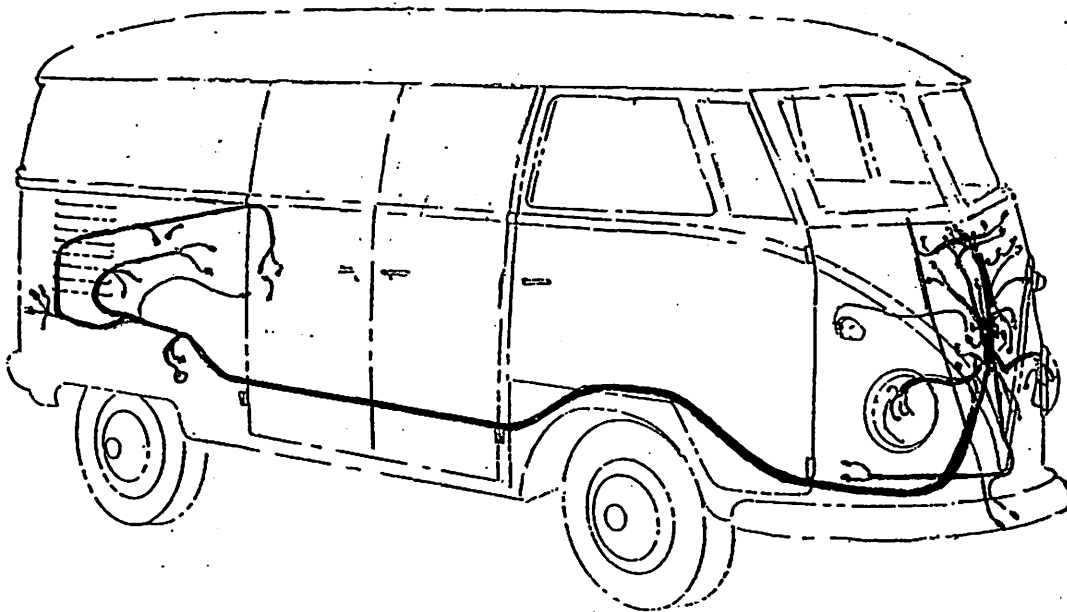


#213-6667

Replacement Wiring Parts
for U.S. Import Version VW Type II

Complete Kit



This harness kit fits 1966-1967 Type II Van.
Original factory design - 6 or 12 volt operation.
Domelight harness is NOT included.

Due to the multitude of configurations produced, be certain you have the correct parts; PARTS WHICH HAVE BEEN INSTALLED MAY NOT BE RETURNED. Please match original parts to new parts before installation.

Basic electrical knowledge is essential. Refer to Official VW Manual for further information. Harness diagrams are for REFERENCE only. Wiring Works cannot be held responsible for any omissions or errors herein. User assumes all risk and liability whatsoever arising out of the use of this product.

WIRING HARNESS SET

READ DIRECTIONS COMPLETELY BEFORE STARTING

PARTS LIST:

- (1) Main Harness (See page 5)
- (1) Generator Harness (See page 5)
- (1) Front Harness (See page 6)
- (1) Instrument Harness (See page 7)
- (1) Wiper Harness (See step 7)
- (14) Misc. Wires or Sub Assemblies (See steps 5-9)
- (2) Headlight Socket Housings
- (2) Grommets
- (2) Connectors

NOTES ABOUT WIRING DIAGRAMS:

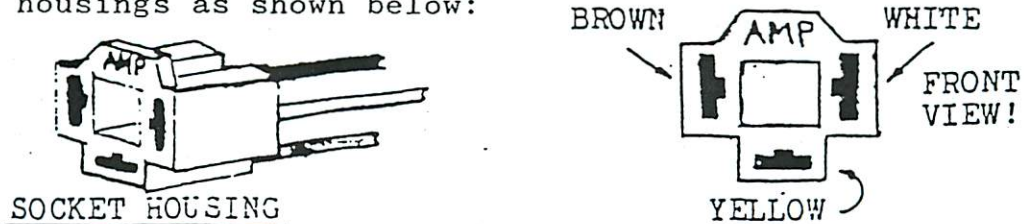
- Wiring diagrams are not drawn to scale. All wires are not shown. Refer to instructions for installation of misc. wires and sub assemblies.
- Numbers # on wiring diagram refer to tab circuit written on switch or device.
- Check off boxes on wiring diagram as each connection is completed.
- Grommets must be installed. G(*) refers to grommet and inner hole diameter.
- Note how old wiring was installed before removal.
- Use WHITE 8 AMP fuses only.
- For more information, refer to official VW manual.

INSTALLATION DIRECTIONS:

1. !!!!Disconnect battery ground cable!!!! The front map shelf tray and access plate below speedometer must be removed to expose wiring. Remove clip and push back fusebox out of frame.
 2. This step describes how to replace the Main harness loom traveling from the motor area to the fuse box: Disconnect main harness at front and back - use diagram on page 5 as a guide. Attach a dragline (use heavy cord or wire) at the front of the old loom so the path through the frame is not lost when it is pulled out. Remove old harness by pulling out back of car, allowing the dragline to snake in and take its place. Carefully attach dragline to new harness.* Wrap joint with plastic tape to form a COMPACT STREAMLINED bundle to pull through. Special attention should be given to the dragline guiderope to ensure that it doesn't hang up on the frame or pull off the loom. Ready? Install harness by pulling on the dragline from the front while someone feeds the harness in through the back. Using wire lube or bar soap to help get the harness along through the frame is helpful. DON'T force anything if it gets stuck. Check to see where it is hanging up and correct the problem. Once the loom is in position, install the rubber grommets and bend the metal tangs
- *sunroof owners with bottom panels must be extra careful!

back to secure everything. Reconnect the wires as shown on page 5. Install generator harness between voltage regulator and generator. Be certain license plate and taillights are grounded to frame. BN WIRES.

3. Install the Front Light harness. Connect as shown on page 6. Screw brown ground wires into headlight buckets and install light socket housings as shown below:



NOTE ABOUT FRONT RUNNING LIGHTS: Be certain grey wire going to parking light socket is attached to the POSITIVE lug (Center of bulb). It may be necessary to connect the ground lug to the chassis if the ground is poor. The brown ground wire is attached to the NEGATIVE lug (Outside frame). DON'T get positive lug and ground lug connections backwards - this circuit has no fuse!

4. Install Instrument harness. Connect as shown on page 7. Connect dome light harness (not included in kit) to the domelight switch on the left side the steering column pod. To replace the domelight harness it is necessary to remove the headliner cloth and feed the new one through with a coat hanger - not an easy task.

5. Install misc. wires for Front lights:

- 11" Red wire: #30 Lightswitch to #30 Keyswitch.
 - White-Red triple wire: #58b Lightswitch to Speedo gauge lights to Gas Gauge light.
 - Yellow wire: Fusebox terminal labeled "Y" on harness diagrams to #F Highbeam relay. (56b)
 - White wire: Fusebox terminal labeled "W" on harness diagrams to #56a Highbeam relay.
- (The following wires are from the Turnsignal switch T/S and are not included in kit.)
- Brown-white wire: T/S to #S Highbeam relay.
 - Brown wire: T/S to #31 Wiper switch. (Ground)

6. Install misc. Turnsignal wires:

NOTE ABOUT TURNSIGNALS - ORIGINALLY, the 1966 and 1967 cars came with the 9-prong "Black Box" Flasher relay. This relay controls the brake light, turnsignal, and emergency light circuits. Many problems with the above circuits can attributed to a malfunctioning Flasher relay. (A two prong Flasher relay can be used if if the wiring is modified as per 62-65 or 70-79 Type II wiring diagram - Refer to VW factory service manual.) Also check that the turnsignal switch is working properly and mounted securely to the steering column. The Blk-Wt-Grn (T/S) and Blk-Violet (Brake) are INPUTS . The Blk-Wt + Blk-Grn (Front T/S) and Blk-Yel + Blk-Red (Rear T/S/Brake) are OUTPUTS .

— 13" Red wire: Fusebox terminal labeled "R"
on harness diagrams to Flasher relay #30

(The following wires are from the Turnsignal switch and are not included in the kit.)

- Black-Violet wire: T/S to #54S Flasher relay.
 - Blue wire: T/S to #K Emergency flasher switch.
 - Black-Wt-Grn wire: T/S to #49a Flasher relay.
 - Double Black-Wt wire: T/S to #VL Flasher relay to left front Turnsignal light.
 - Double Black-Grn wire: T/S to #VR Flasher relay to right front Turnsignal light.
- Extra Blk-Wt and Blk-Grn wires are included in kit if they are not already attached to T/S switch.

Be certain Flasher relay is properly grounded or it will not operate. (Brown wire or frame)

7. Install Windshield Wiper harness:

- Black-Yel wire: #53b Wiper switch to Motor.
- Black #53
- Black-Red #53a
- Brown #31b

Be certain collar nut for Wiper switch is tight for proper ground contact. Motor must be grounded to frame.

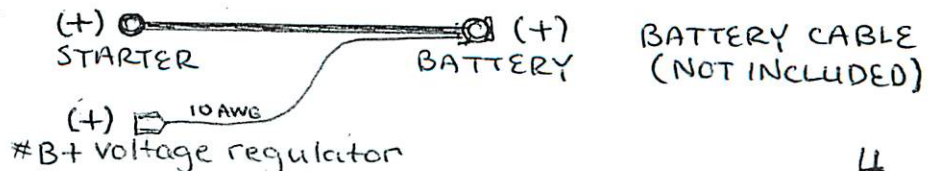
8. Install horn wire in steering column: Push long Brown wire up through bottom of steering box. Connect from horn to horn button on steering wheel.

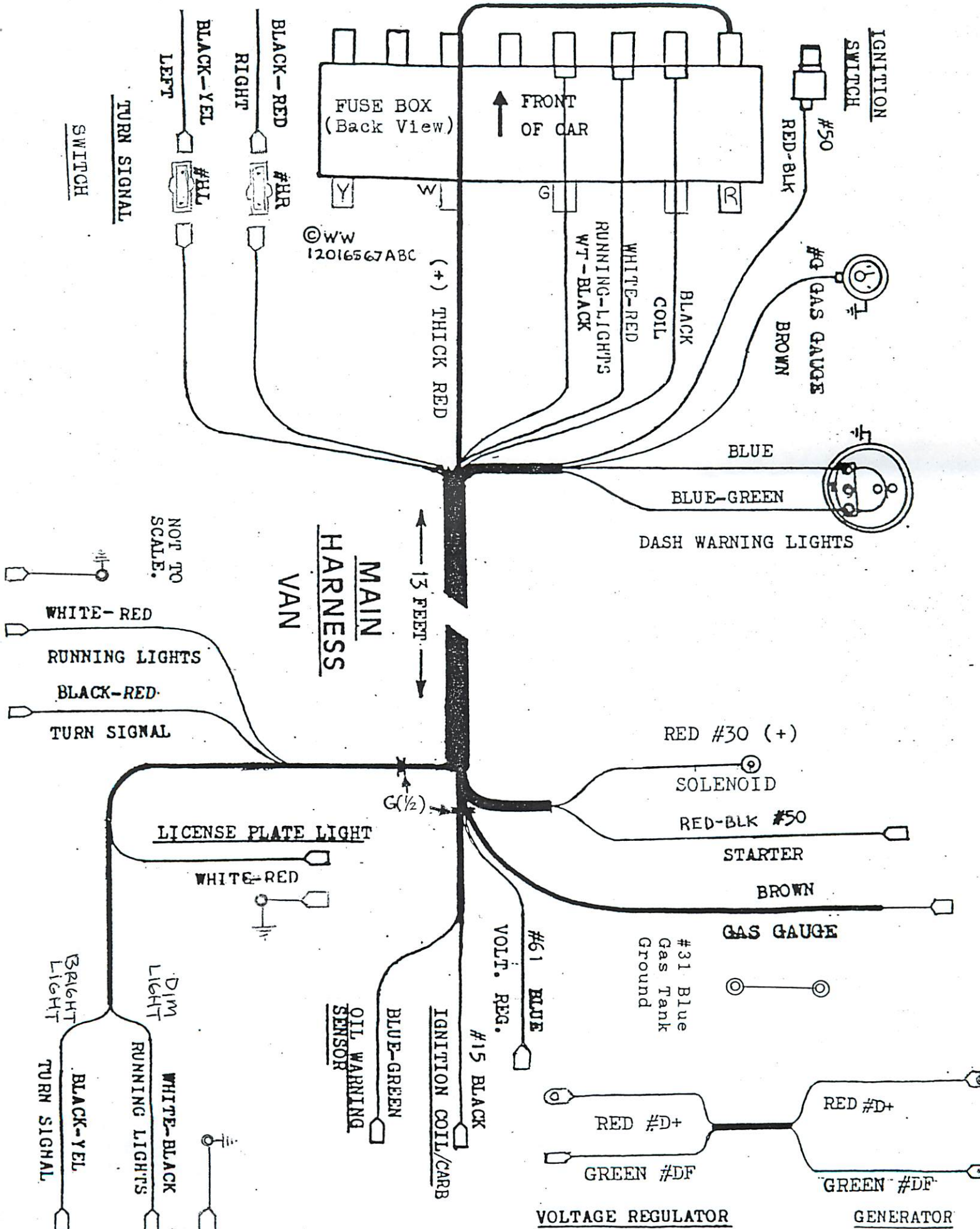
9. Install double Black wire: #15 Coil to Carb Cut-off Valve to Choke. Be certain that this wire is safe and secure as the coil circuit has no fuse!

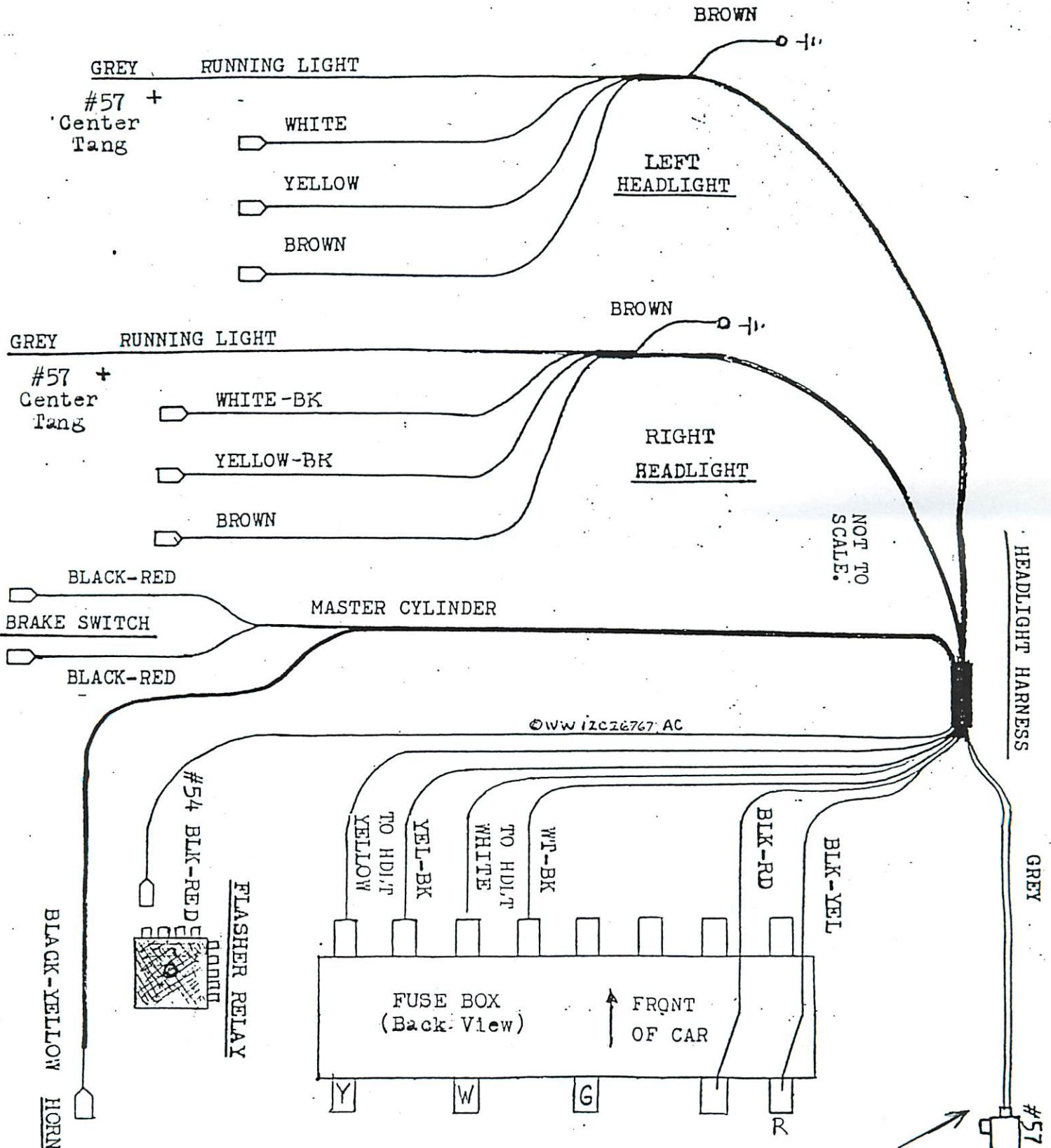
10. Install Power wire (Not included in kit.) from Battery to #B+ on Voltage Regulator.

NOTE ABOUT FUSEBOX: Be certain fusebox is in good condition. The fusebox is held into its frame by a plastic tab on the right side and a metal clip on the left side. If the tab is broken off or the clip is missing the fuse box will slip out and short circuit against the bottom of the frame causing extensive damage. The fusebox MUST be securely mounted in the frame with the clip.

11. Installation should now be complete. Double check for potential shorts and incorrect installation. When everything has been checked, CAREFULLY reconnect the battery. Test the lights and accessories for proper operation. If there is a problem, be sure to check all connections, fuses, bulbs sockets, switches, relays and especially grounds. Refer to wiring diagram in VW factory service manual and use VOM to check circuits.

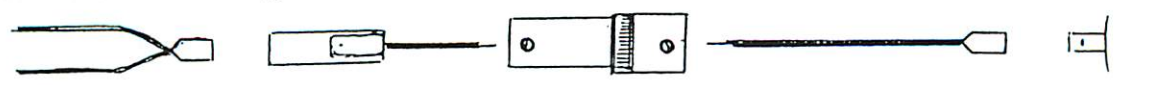






NOT TO SCALE.

Included in this up-dated kit is an AUXILIARY SAFETY FUSE for the front parking lights. This extra fuse is to prevent the front grey wires from burning up if there is a fault. Originally, the VW engineers used the headlight switch itself as a fuselink!! Connect to headlight switch as shown:



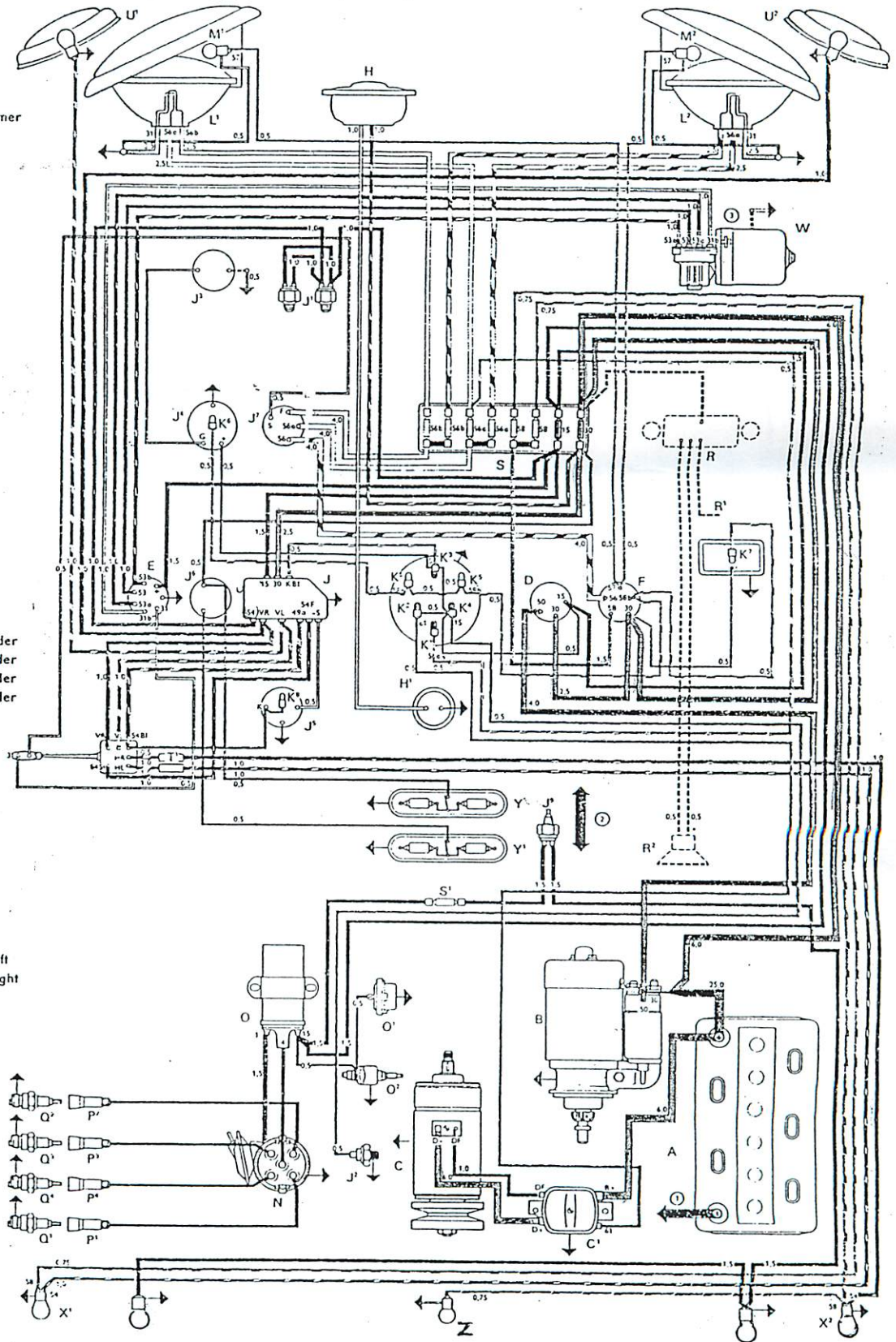
#57 double Grey Wire Front Harness

Aux. Fuse

#57 Headlight Switch

Wiring Diagram VW Transporter US Version (from August 1966)

- A - Battery
- B - Starter
- C - Generator
- C' - Regulator
- D - Ignition/starter switch
- E - Windshield wiper switch
- F - Lighting switch
- G - Turn signal switch and hand dimmer
- H - Horn
- H' - Horn button
- J - Emergency light relay
- J' - Brake light switch
- J² - Oil pressure switch
- J³ - Fuel gauge sender unit
- J⁴ - Fuel gauge
- J⁵ - Emergency light switch
- J⁶ - Interior light switch
- J⁷ - Dimmer relay
- J⁸ - Back-up light switch
- K¹ - High beam warning light
- K² - Generator and fan warning light
- K³ - Turn signal warning light
- K⁴ - Oil pressure warning light
- K⁵ - Speedometer light bulbs
- K⁶ - Fuel gauge light bulb
- K⁷ - Clock light bulb
- K⁸ - Emergency light warning lamp
- L¹ - Sealed beam unit, left
- L² - Sealed beam unit, right
- M¹ - Parking light, left
- M² - Parking light, right
- N - Distributor
- O - Ignition coil
- O' - Automatic choke
- O² - Electro-magnetic pilot jet
- P¹ - Spark plug connector, No. 1 cylinder
- P² - Spark plug connector, No. 2 cylinder
- P³ - Spark plug connector, No. 3 cylinder
- P⁴ - Spark plug connector, No. 4 cylinder
- Q¹ - Spark plug for No. 1 cylinder
- Q² - Spark plug for No. 2 cylinder
- Q³ - Spark plug for No. 3 cylinder
- Q⁴ - Spark plug for No. 4 cylinder
- R - Radio
- R¹ - Aerial connection
- R² - Rear loudspeaker connection
- S - Fuse box
- S¹ - Back-up light fuse
- T¹ - Cable connector, single
- U¹ - Turn signal, front left
- U² - Turn signal, front right
- W - Windshield wiper motor
- X¹ - Brake, turn signal and tail light, left
- X² - Brake, turn signal and tail light, right
- Y - Interior light, front
- Y¹ - Interior light, rear
- Z - License plate light



Wiring Diagrams courtesy VINTAGEBUS.COM . Check out this website for downloadable COLOR wiring diagrams and other information.