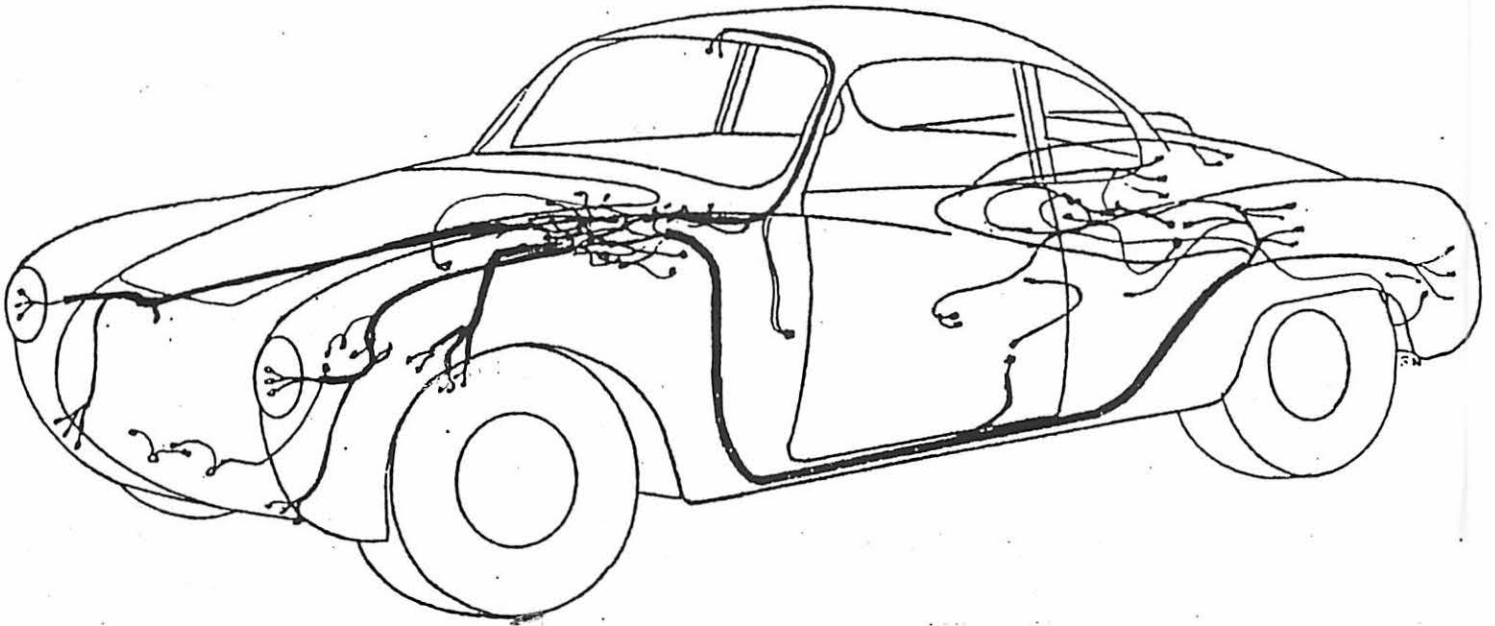


#143-6869

Replacement Wiring Parts  
for U.S. Import Version VW Karmann Ghia  
Complete Kit



This harness kit fits 1968-1969 Karmann Ghia hardtop cars and convertible as shown above. Kit is for cars with D.C. Generator.

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. See '68 note.

Basic electrical knowledge is essential. Refer to Official VW Manual for further information. Harness diagrams are for REFERENCE only. Seller 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 works vw electrical

MADE IN U.S.A.

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PART NO. 143-6869  
1968-1969 VW ONLY

KARMANN GHIA HARDTOP & CONVERTIBLE  
U.S. IMPORT VERSION

### WIRING HARNESS SET

READ DIRECTIONS COMPLETELY BEFORE STARTING

#### PARTS LIST:

- (1) Main Harness (See Page 6)
- (2) Front Harness (See Page 7+8)
- (1) Brake Master Cylinder Harness (See Page 7.)
- (1) Dome Light Harness (See Page 8)
- (1) Gas Tank Harness (See Step 10)
- (1) Back Up Light Harness (See Page 9)
- (1) Back Up Light Link (See Page 9)
- (1) Starter Power Link (See Step 12)
- (1) Ground Link Assembly (See Page 9.)
- (25) Misc. Wires or Sub Assemblies
- (2) Headlight Socket Housings
- (5) Spade Connectors
- (2) Quad Bus 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 to protect wiring. Grommets are NOT included. Specialized grommets are available from VW parts dealer.
- Note how old wiring was installed before removal.
- Use WHITE 8 AMP fuses only.

- For more information, refer to official VW manual -  
(Blue Robert Bentley 66-69 Service Manual #V121 AND  
Orange 70-79 Manual #V179)

## INSTALLATION DIRECTIONS:

1. !!!!Disconnect battery ground cable!!!!
2. This step describes how to replace the main harness traveling along the left floor of the body. Disconnect wires behind dash in front and wiring connected to the starter power link beneath rear seat. Use the wiring diagram on page 6 as a guide. Pry away the metal bands holding the harness to the chassis and untangle the harness so that it may be easily pulled out. Check carefully and remove any insulation that has been stuffed into the back of the side channel above the firewall. Remove the back seat cushion and side left rear door panel to gain access to the rear cavity. Carefully lift up the carpet along the bottom left door rail. Carefully secure a 1/4" diameter rope or heavy wire at least 12 feet long to the front of the old main harness so that the harness path through the body is not lost when the harness is pulled out. Remove the old main harness by pulling it out the back of the car. The guide rope will feed in from the front and into place. Tie the guide rope pulled through to the front of the new main harness. The guide rope should be tied securely to the harness, but in such a way as not to damage the harness or impede it's travel through the roof channel. This is very important. Use electrical or duct tape to carefully wrap the loose wires and guide rope into a compact streamlined bundle to pull through. Carefully pull the new harness in by pulling the guide rope from the front and feeding the harness through the rear cavity. DO NOT FORCE. If it is not going through easily, check to see where it is hanging up and correct the problem! Reconnect the wires as shown on page 6. Bend metal tangs back to secure harness.
3. Attach a dragline to the old dome light at the light slot. Pull the old harness out the front of the roof channel while feeding in the dragline through the light slot. Attach the dragline to the new domelight harness and pull into position by feeding harness through front. Connect the dome light wiring as shown on page 8 and bend metal tangs back.
4. Install Front Left Harness. Connect as shown on Front Left Headlight Harness Diagram.
5. Install Front Right Harness. Connect as shown on Front Right Headlight Harness Diagram.
6. Install Brake Master Cylinder harness as shown on Left Headlight Harness Diagram.

### Install Miscellaneous Wires:

#### 7. POWER AND GROUND

- 16" Red Wire: # 30 Light Switch to Fusebox Terminal marked "R" on Diagrams.
- Brown Ground Ass'y: See Ground Ass'y Diagram. Page 9 Connect up when various components are installed.

Note; Early '68 models were NOT equipped with grounds.

## 8. EMERGENCY LIGHTS/FLASHER WIRES

NOTE ABOUT TURNSIGNALS - ORIGINALLY, the early 1968 cars came with the 9-prong "Black Box" Flasher relay. This relay controls the turnsignal and emergency light circuits. Many problems with the above circuits can be attributed to a malfunctioning Flasher relay. In this kit, the 1969/1970 Emergency Flasher system is used. This utilizes the seven prong flasher SWITCH which is available from your local VW parts dealer. REFER TO A 1970 WIRING DIAGRAM for more information on this and other updated circuits. It is possible to use either a 2, 3 or 4 prong Flasher relay. The 2 prong Flasher relay (#552) has no ground. The 3 prong Flasher has a ground terminal. The 4 prong Flasher has a ground terminal and a #KBL terminal for the dash light. Originally a 4 prong flasher was used. The 2 or 3 prong flasher can be used if the dash light is connected to 49a or L instead of #KBL terminal.

Note: It is best to install all wiring to the switch first.

- Black Ass'y with small clip: Fusebox Terminal marked "B" on Diagrams to #15 Emergency Switch to Brake Warning Light #15.
- 21" Red Wire: #30 Emergency Switch to Fusebox Terminal marked "RR" on Diagrams.
- White Wire: #(+ ) on Emergency Switch to #(+ ) on Flasher Relay (or X,49)
- Blue ass'y: #49a Emergency Switch to Blk-Grn-Wt wire on Turn Switch wiring to #49a on Flasher Relay.
- Blue-Green Wire: #KBL (or L,49a) Flasher Relay to Green Arrow light on Speedometer.
- Black-Grn Wire: #R Emergency Switch to Blk-Grn Quad Bus connector.
- Black-Wt Wire: #L Emergency Switch to Blk-Wt Quad Bus connector.

## 9. HEADLIGHT SWITCH

Note: It is best to install all wiring to the switch first.

- White Wire: #56a Hi-Lo Relay Unit to Fusebox Terminal marked "W" on Diagrams.
- Yellow Wire: #56b on Hi-Lo Relay Unit to Fusebox Terminal marked "Y" on Diagram.
- White-Black Wire: #56 Hi-Lo Relay Unit to #56 Light Switch.
- Grey Wire: #58 Light Switch to Terminal marked "G" on Diagram.
- White or White-Red small clip Ass'y: #58b Light Switch to Gas Gauge light to Speedometer lights to Clock illumination light.

The following wires are attached to the Turnsignal/Ignition Switch Harness coming from the steering column and are NOT included in the kit:

- Brown-Wt Wire from Turn Switch to #S Hi Low Beam Relay.
- Small Brown Wire from Turn Switch to ground.
- Black from Ignition Switch to Fusebox Terminal marked "K" to Dummylight Power at base of speedometer.
- Red from Ignition Switch to #30 Light Switch.
- Red-Bk from Ignition Switch to #50 Main Harness.
- Lg Brown wire from steering bearing goes to Front Left Headllight Harness Brown wire from horn relay.

10. HORN AND HORN RELAY

- Blk 18"-10" Ass'y: #87 Horn Relay to Horn #1 (+) to Horn #2.
- Brown Ring Ass'y: Horn (-) to Ground Stud to Horn.
- Long Brown Wire: Steering Column Coupling (Ground) through steering shaft to Horn Button screw.
- Other long covered Brown wire is for Gas Gauge Tank sending unit to Gas Gauge #G on speedometer.

11. WINDSHIELD WIPER

- Black Wire: #30 Wiper Switch to Fusebox Terminal marked "X" on Diagram.
- Black Wire: #53 Wiper Switch to #53 Wiper Motor.
- Blk-Red Wire: #53a Wiper switch to #53a Wiper Motor.
- Blk-Yel Wire: #53b Wiper Soitch to #53b Wiper Motor.
- Brown Wire: #31b Wiper Switch to #31b Wiper Motor.
- Brown 24" Wire: #31 Wiper Motor to Ground.

12. REAR AREA

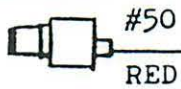
- Red 36" Starter Cable: #50 Starter Solenoid to #50 Red Wire on Main Harness under back seat.
- Brown 9" Ground Wire: Grnd on L Rear light to Chassis.
- Black Reverse light Wires and Trans Ass'y: Male spades go to Reverse lights. Other end goes to nosecone on trans Ass'y. Trans Ass'y connects to coil and reverse switch on back of transmission. Inline Fuse (Not incl) must be installed because coil is not fused. See last page.
- Black 16"-4" Ass'y #15 Coil to Carb Solinoid to Choke. Be certain this circuit is secure. coil has no fuse.
- Red Battery Power Cable (Not included in kit.): #B+ Voltage Regulator to Battery (+). Be certain this circuit is secure. Installing a master fuselink along this circuit is a good idea for extra protection.

13. 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. Use VOM to check circuits and refer to factory wiring diagram.



IGNITION

SWITCH



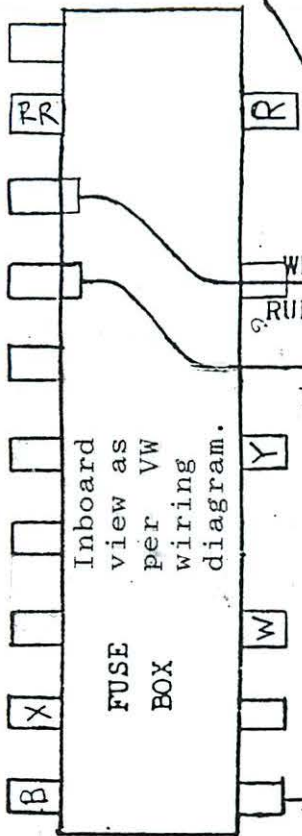
HEADLIGHT SWITCH



©WW 14016869A B

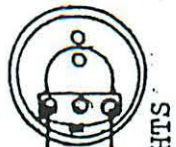
Inboard view as per VW wiring diagram.

FUSE BOX



WHITE-BLACK RUNNING-LIGHTS  
WHITE-RED RUNNING-LIGHTS

BLACK COIL



BLUE  
BLUE-GREEN  
DASH WARNING LIGHTS

6(5/8)

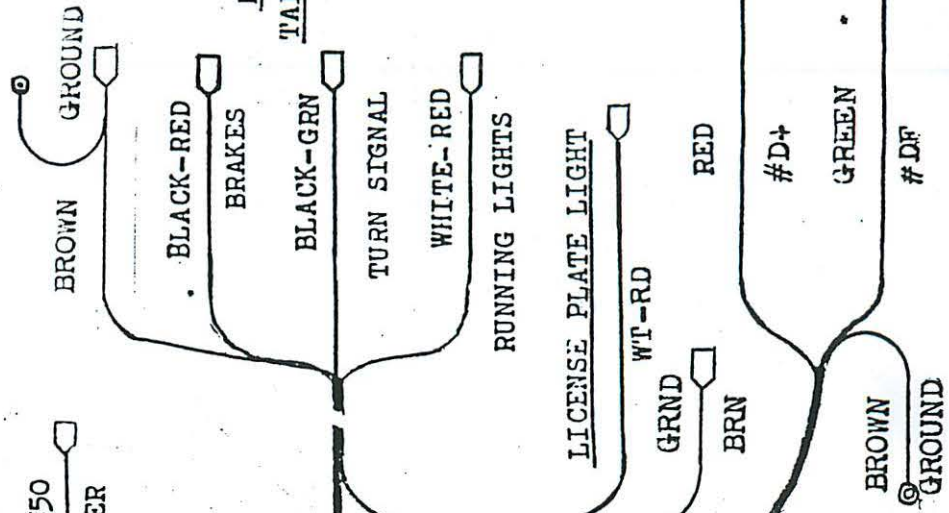
10 FEET

MAIN HARNESS

K.G.

NOT TO SCALE.

RIGHT TAIL LIGHTS



RED #50 STARTER

BRN #D-

GENERATOR

#15 BLACK

IGNITION COIL

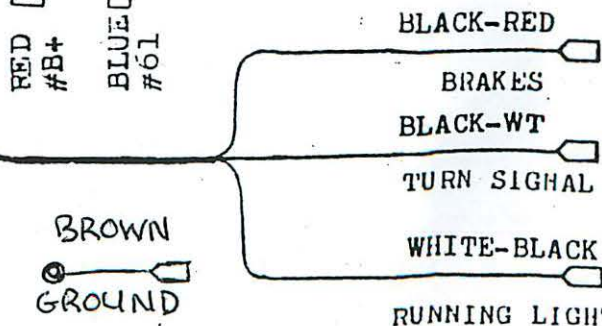
BLUE-GREEN

OIL WARNING SENSOR

RED #D+ GREEN #DF

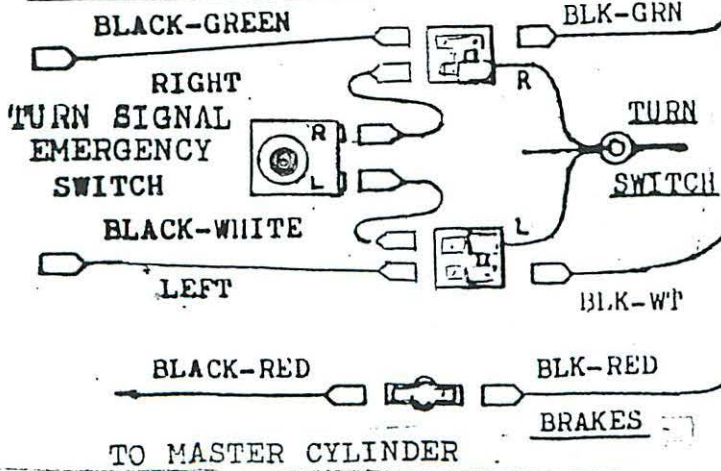
VOL. REG.

LEFT TAIL LIGHTS

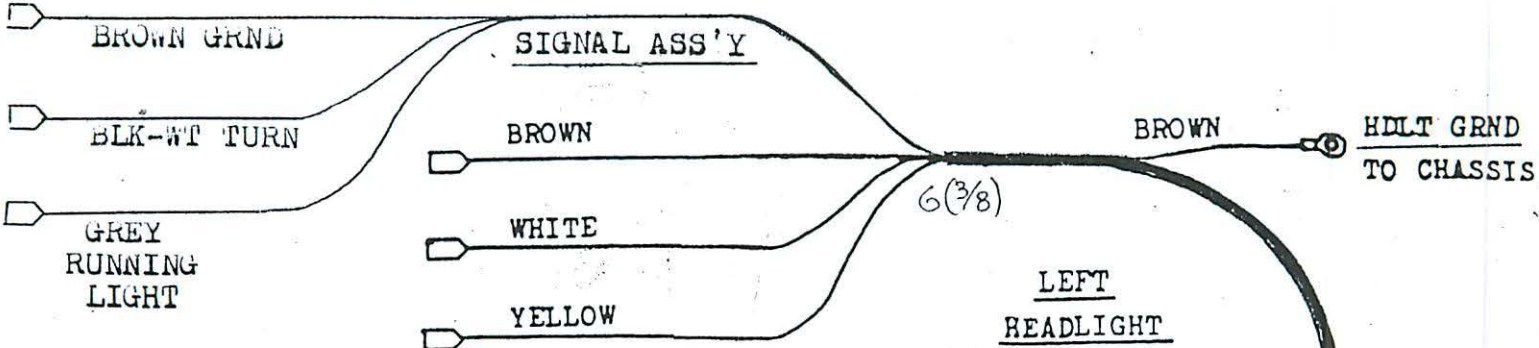


BROWN GROUND

FRONT TURN SIGNALS

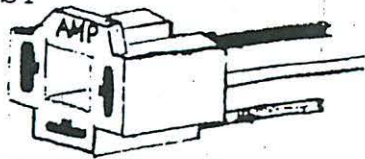


TO MASTER CYLINDER

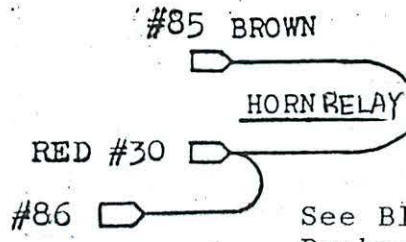
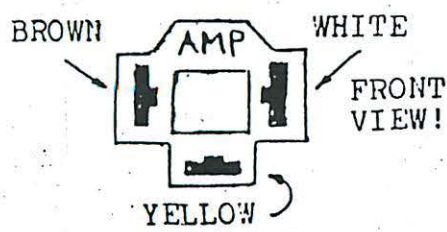


DO NOT INSTALL SOCKET HOUSINGS UNTIL WIRING IS IN PLACE.

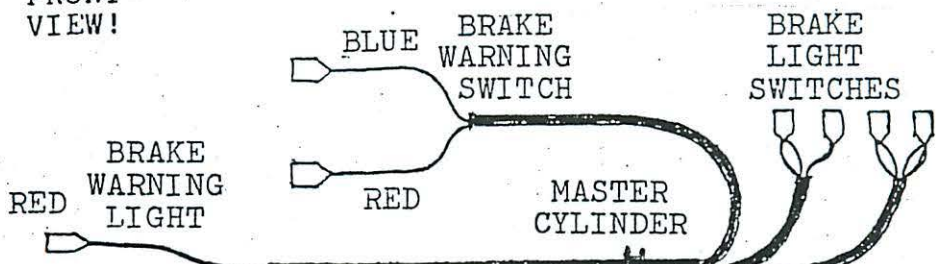
TERMINALS MUST CLIP INTO HOUSING. OPEN SIDE OF TERMINAL MUST FACE OUT.



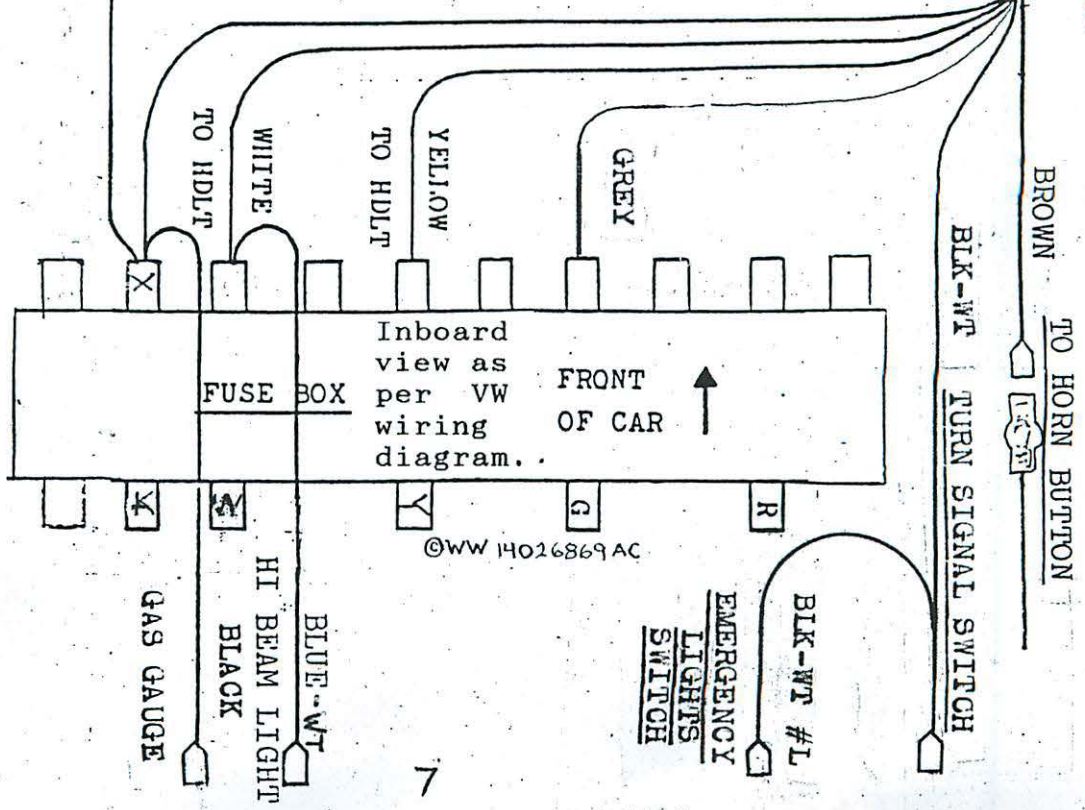
SOCKET HOUSING



See Blue VW Manual Brakes Section 11-11 for Warn light info.



BRAKE HARNESS 6(3/8)



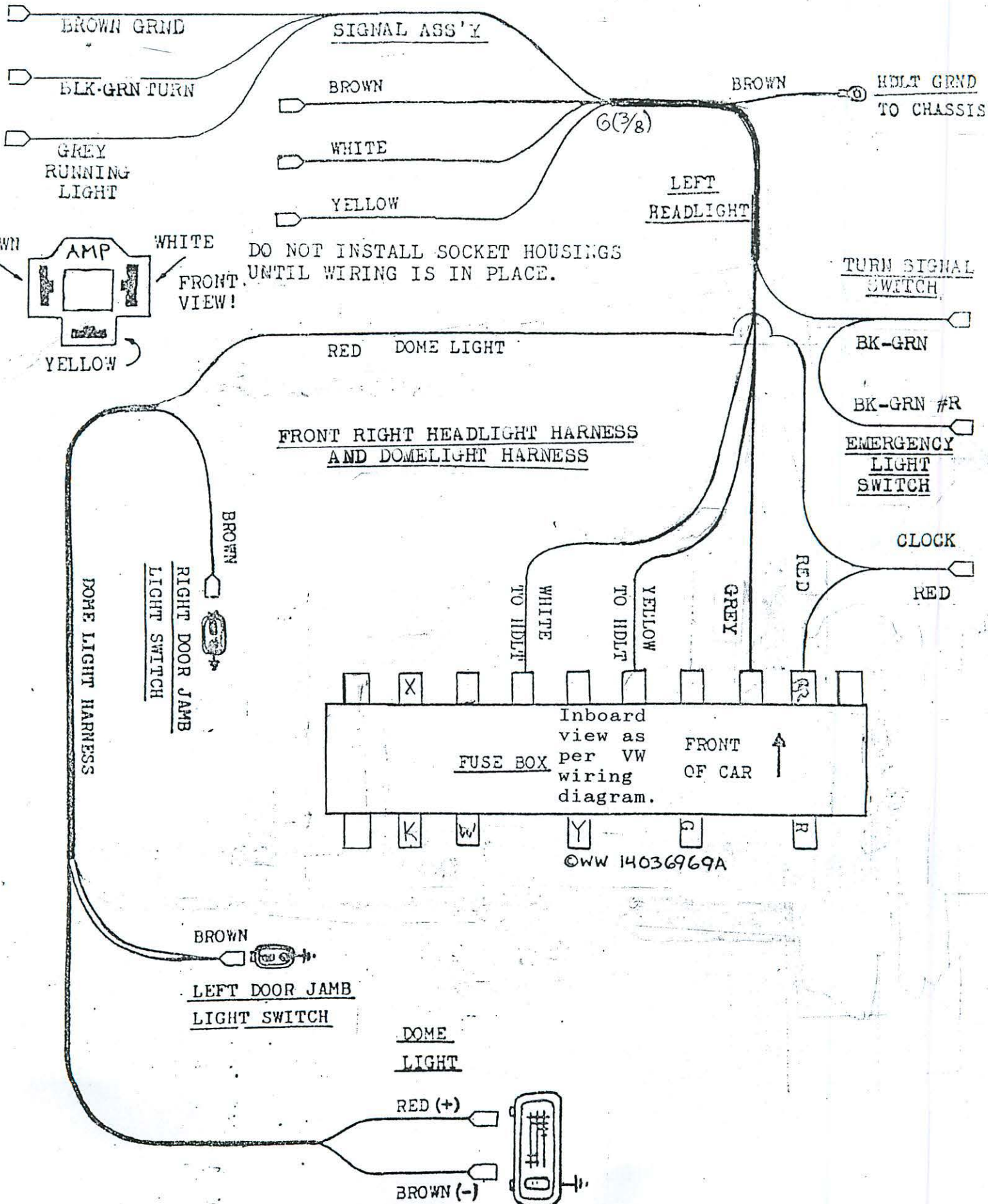
Inboard view as per VW wiring diagram..

©WW 14026869 AC

NOT TO SCALE.

FRONT LEFT HEADLIGHT HARNESS

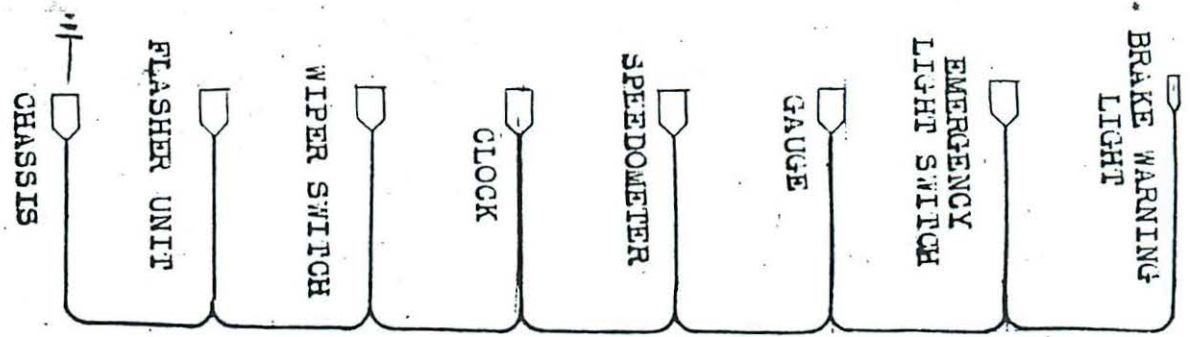






DASH GROUND ASS 'Y AND BACK-UP LIGHTS

GROUND ASS 'Y  
BROWN #31



REAR BACK-UP LIGHTS

REVERSE LIGHT WIRES

TRANS BACK-UP SWITCH

TRANS ASS 'Y

IN-LINE FUSE GOING TO #15 ON COIL

(FUSEBLOCK NOT INCLUDED.)

#15 COIL

BLACK

USE WHITE 8 AMP FUSE

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