This harness kit fits 1968-1969 Beetle hardtop sedans and convertible as shown above.

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 works VW electrical

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WIRING HARNESS SET

READ DIRECTIONS COMPLETELY BEFORE STARTING

PARTS LIST:

(1) Main Harness (See Page 7)
(1) Left Front Harness (See Page 8)
(1) Right Front Harness (See Page 9)
(1) Brake Master Cylinder Harness (See Page 8)
(1) Dome Light Harness (See Page 9)
(2) Tail Light Harness (See Page 7)
(1) License Light Harness (See Step 5)
(1) Gas Tank Harness (See Step 14)
(1) Back Up Light Harness (See Page 10)
(1) Back Up Light Link (See Page 10)
(1) Starter Power Harness (See Step 16)
(2) Front Turn Signal Harness - R and L (See page 10)
(1) Ground Link Assembly (See Page 10)
(23) Misc. Wires or Sub Assemblies (See Steps 7-18)
(2) Headlight Socket Housings
(3) Grommets
(12) Spade Connectors
(1) TEE connectors
(2) 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. 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 -
  (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 attached to the voltage regulator beneath rear seat. Use the wiring diagram on page 7 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 roof 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 its 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. Also wrap center section where voltage regulator connections are. Apply a small amount of wire pulling lubricant or bar soap to the harness. 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 7. Bend metal tongs 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 9 and bend metal tongs back. Make certain the door buttons and dome light assembly are in working order and are grounded properly.

4. Install the two tail light harnesses traveling to the rear fenders. Connect from main harness to the tail light socket ass’y as shown on page 7.

5. Install the license light harness to the rear deck lid. Connect as shown on page 7 to the White-red TEE connector block. Be certain light is grounded. Keep wire clamped away from fan.

6. Install the front right and left turnsignal harnesses. Refer to harness diagram on page 10. Black-white goes to the left side, Black-green goes to the right side. Connect as shown on page 10 to the turn switch wires (Not included-attached to switch) and main harness wires using the two Bus connectors. Connect Grey wires from fusebox to #58 terminal for parking lights in front turnsignal assemblies.
7. Disconnect and remove the front left harness. Install new one and connect as shown on page 8. See note Step 8 below. Install front right harness and connect as shown on page 9. Also install the Brown ground wires for the headlights at this time. Use a little wire lube to help get the headlight wires through the rubber tube that connects the body to the headlight bucket (rubber tube is not included in kit). Install headlight wires into socket housings as shown below:

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

SOCKET HOUSING

BROWN
AMP
WHITE
YELLOW
FRONT
VIEW!

8. Install Brake Master Cylinder harness and connect as shown on page 8.

Note: The horn wire from the front left harness, the master cylinder resevoir tubes, and the brake harness all travel through the same cavity hole. Care should be taken when installing these wires as it is a tight fit. Re-seal with putty.

— 18" Red wire with .110 clip: Connect from #K Brake warning light to red wire on harness using connector.

9. Install misc. Turnsignal/Emergency 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: early 1968 has no ground wires and no chassis ground tangs.
Turnsignal/Emergency Flasher Wires:

- Blue-Green (or Blue) wire: #KBL (or L, 49a) Flasher relay to green arrow turnsignal light in Speedo.
- Blue wire/Blk-Grn-Wt wire: Blue: #49a Flasher relay to #49a Emergency Flasher switch. E-W-G: #49a (or L) Flasher relay to #54 Blk-Wt-Grn wire from turnsignal switch (Not included in kit - attached to switch). Use connector.

Note: It is best to install all wiring to Emergency Flasher switch first and then install switch into dash.

- White wire: #+ Flasher relay to Emergency Flasher switch #+.
- Black wire: #15 Emergency Flasher switch to fusebox terminal marked "U" on harness diagrams.
- 19" Red wire: #30 Emergency Flasher switch to fusebox terminal marked "E" on harness diagrams.
- Black-Grn wire: #R Emergency Flasher switch to Blk-Grn Bus connector. (See page 10)
- Black-Wt wire: #L Emergency Flasher switch to Blk-Wt Bus connector.

Emergency Flasher switch must be grounded to frame for circuit to work properly.

10. Install misc. wires for Front Lights:

- Yellow wire: Fusebox terminal labeled "Y" on harness diagrams to #F (or #56b) Highbeam relay.
- White wire: Fusebox terminal labeled "W" on harness diagrams to #56a Highbeam relay.
- White-black wire: #56 Light switch to #56 Highbeam relay.
- Grey wire: #58 Headlight switch to fusebox terminal labeled "G" on harness diagrams.
- White-Red double wire: #58b Light switch to Gas gauge light to Speedometer light.

(The following wires are attached to Turnsignal T/S switch and are not included in kit.)

- Brown-White wire: T/S switch to #S Highbeam relay.
- Brown wire (Horn): T/S switch to Front left harness (See page 8).

11. Connect Red 15" wire from #30 on light switch to fusebox terminal marked "R" on harness diagram.
12. (The following wires are attached to ignition switch and are not included in kit.)

- Connect Red power wire from ignition switch harness to #30 Light switch.
- Connect Red-Blk starter wire from ignition switch harness to main harness (See page 7) #50.
- Connect Black ignition wire from ignition switch harness to fusebox terminal marked "B" on harness diagrams. Connect attached small wire to power terminal #15 at bottom of speedometer.

13. Connect windshield wiper wires from wiper motor to wiper switch: Brown #31b, Black #53, Bk-red (or bk-violet) #53a, Bk-yellow #53b.

- Connect 15"Green wire from #30 (or +) wiper switch to fusebox terminal marked "X" on harness diagrams. Connect small black wire with .110 clip to #15 Brake Warning light.

Check motor ground tang. Check mechanism for binding. Wiper switch must be grounded for automatic return to work properly.

14. Connect Brown harness wire from tank sending unit to Gas gauge #G output.

15. Install Ground link assembly as shown on page 10.

Note: Early 1968 models did not have a separate ground system. Refer to 1970 wiring diagram for updated circuit.

16. Connect red starter cable from main harness (under back seat - see page 7) to starter motor terminal #50.

17. Connect Red power cable (not included in kit) from Battery positive (+) terminal post to #30 (#B+) voltage regulator. Be certain this cable is clamped properly BELOW back seat front rail. Back seat frame must not crush it.

Be certain back seat frame does not touch (+) Battery post. It is a good idea to install a master fuse or fuse link along this power circuit. NOMINAL fuse rating is 25-30 Amps. ("Hot Wire" Fuse Kit WCM Part No. W-1005, Power Cable WCM Part No. W-1006 )

18. Connect double 16"+4" Black wire from #15 coil to choke to carb cut-out valve.

Be certain this circuit is secure - the coil is not fused.

19. Install Back up light harness and link as shown on page 10. IN-LINE fuse MUST be installed because the #15 coil circuit is not fused. In-line fuse is NOT included in kit.

Be certain wiring is secure.

20. 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.
DO NOT INSTALL SOCKET HOUSINGS UNTIL WIRING IS IN PLACE.

HORN POWER

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

FRONT LEFT HEADLIGHT HARNESS

FRONT OF CAR

Inboard view as per VW diagram

PAGE 8
TURN SIGNALS, TRANS ASS'Y, GROUND ASS'Y

GROUND ASS'Y
EARLY '68 DOES NOT HAVE THIS.
BROWN #31

IN-LINE FUSE GOING TO #15 ON COIL
#15 COIL
BLACK

FUSE BLOCK NOT INCLUDED.
USE WHITE 8 AMP FUSE
EQUIPMENT PARTS LIST
68-69 Type I Beetle

Many electrical problems can be traced to faulty electrical equipment. Crusty-tarnished contacts, lightbulbs, bulb holders and grounds are the #1 causes of open circuits. Special attention should be given to cleaning brass contact surfaces and removing paint at ground contacts. It is advisable to use all new bulbs and fuses to eliminate problems with tarnished brass.

The part numbers on this list are for original German equipment. Part numbers for equivalent parts made in Taiwan, Mexico and Brazil may be different from those given below. Double check part number with original part before ordering from dealer.

111 937 505F  Fuse Box 10 ckt
111 937 555A  Fuse Box Cover
111 937 591  Fuse Box Clip
111 937 093A  Back-up Light Auxiliary Fuse
311 941 531B  Headlight Switch
111 941 583  Hi-Lo Beam Relay
#6014  Headlight Bulb (2)
111 941 185C  HdlLt Wires Rubber Tube (HdlLt bucket to body)
141 955 517A  Wiper Switch 2-speed Lg hole
111 955 113F  Wiper Motor
211 953 235A  Emergency Flasher Switch
111 947 111C  Interior Light
N 017723 2/2  Interior Light Bulb
113 947 561D  Door Switch (2)
113 945 515H  Brake Pressure Switch 2-prong (2)
411 941 539  Brake Switch Rubber Boot (2)
111 919 233A  Brake Emergency Light Ass'y
021 919 081B  Oil Pressure Switch
113 941 521  Trans Back-up Switch
311 953 513B  Turn Signal Switch
211 953 215C  Flasher Relay 4 ckt (#552 2 ckt)
311 905 865A  Ignition Switch Electrical Module
113 905 853  Ignition Key Tumbler
111 951 113B  Horn
113 919 049D  Fuel Gauge Tank Unit
GR 15  Generator
111 903 803D  Volt. Regulator (30 019)
SR 15  Starter
#1157  Front Turnsignal Bulb (2)
#1156  Rear Turnsignal Bulb (2)
#1156  Back-up Light Bulb (2)
#1157  Brake/Park Light Bulb (2)
#99 or #97  License Plate Bulb
N 017722 2/2  Speedometer Bulb (6)
111 971 225  Positive Battery Cable with Volt. Reg. (+) Wire
113 971 235C  Negative Battery Cable

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