

PRELIMINARY – Please contact RACERS regarding any concerns.

Thank you for purchasing the BlackBox® Hp. These instructions are for installation of a BlackBox Hp replacement fuse panel in 1965 and 1966 Corvair models. Instructions progress through three phases: Fuse Panel Removal, Harness Preparation, and BlackBox Hp installation. Each step must be performed in sequence. Do not skip around or omit steps. Typical installation will require between one and two hours.

Fuse Panel Removal

- 1) Wear safety glasses
- 2) Disconnect battery negative cable
- 3) Remove driver's seat
- 4) Place thick blanket on floor
- 5) Open trunk and remove fuse-block's plastic screw-covers. (near master cylinder)
- 6) At fuse panel, make a list and record connections of all plugged-in wires (Color and

Function/Fuse)

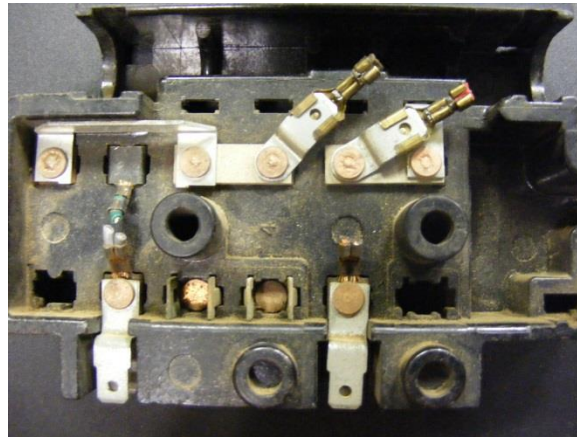
i.e. Brown/Heater, Yellow/Radio, etc.

Color	Function

- 7) Unplug wires connected to front of fuse panel (do not cut these plugged-in wires)
- 8) Remove two fuses to expose fuse panel retaining screws and remove screws.
- 9) Turn fuse panel over
- 10) Remove and discard insulator, if present
- 11) Check wire color and function for all backside connections (plug-in & crimped-on wires)

Function	65 Color	66 Color
Dome/Brake	Black/Orange	Orange
Inst Panel lights: Power	Green	Green
Inst Panel lights	Grey	Grey
Wiper	Black/Yellow	Yellow
Battery: Power input	Red	Red
Accessory: Power input	Brown	Brown

- 12) Cut all wires crimped onto backside fuse terminals. Cut close to terminal but leave 1/8" for color reference.



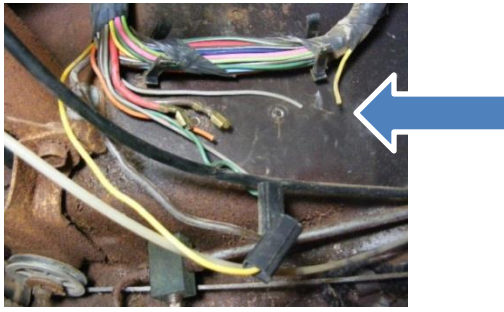
- 13) Remove two plastic clips holding the large wire bundle that passes through panel. Do not cut any of these wires. Clips release from the front.
- 14) Remove old fuse panel and set aside.

TIP: Long-handle, High-pressure crimpers create a superior mechanical and electrical connection.

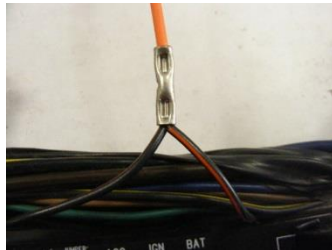


Recommended high-pressure crimper: Klein 1006 or T&B WT-111-M

Preparation



- 1) On the car harness, strip ¼" insulation from yellow harness-wire stub on right (Black/Yellow on '65). Locate White extension in kit. Slide 1" heat-shrink tube onto white extension. High-pressure-crimp White extension to Yellow (Black/Yellow on '65) harness wire on right. Do not confuse this wire stub with the Yellow or Black/Yellow wire on the left. Slide heat-shrink tube over butt-connector. Position so no metal is left exposed. Shrink tube using a heat-gun or BBQ lighter. Do not over-heat shrink tube.



- 2) 1965: On the car harness, strip ¼" insulation from the two Black/Orange wires. Locate Orange extension in kit. Slide 1" heat-shrink tube onto extension. High-pressure-crimp orange extension to both Black/Orange wires. I.e. Twist them together and crimp both into a single extension. Cover connector with heat-shrink tube as above.

1966: On the car harness, locate orange wire and then strip ¼" insulation. Locate Orange extension in kit. The orange extension is too long for a 1966 model. Reduce (cut) overall extension length to 7.5". Strip new end ¼". Install (high pressure crimp) a new butt-connector (included) to extension. Slide 1" heat-shrink tube onto extension. High-pressure-crimp this 7.5" Orange extension to Orange harness wire. Cover connector with heat-shrink tube as above.



- 3) Route Orange and White extensions to the left and down. Wrap "pass through" wire bundle using harness-tape (included). Begin by tying a knot over existing wrapped harness a couple of inches up. Wrap with good overlap across uncovered section and then onto existing wrapped harness a couple of inches. End with a knot.



- 4) Locate Grey extension in kit. Slide 1" heat-shrink tube onto extension. On the car harness, strip ¼" insulation from both grey harness wires. Install (high-pressure crimp) the grey extension to both gray harness-wires. (2 in 1). Cover connector with heat-shrink tube as above.
- 5) On car harness, locate yellow (black/yellow on '65) wire and connector on left. Measure and cut off 4". Discard old wire and connector. Strip harness side ¼". Locate Yellow extension in kit. Slide shrink tube onto extension. High-pressure crimp Yellow extension to Yellow ('65 Yel/Blk) harness wire. Cover butt-connector with heat-shrink tube as above.
- 6) Locate 10 ½" 12 ga. Brown extension wire in kit. On car harness, locate Brown power input wire and strip ¼" insulation from end. Install brown extension butt-connector onto brown harness wire and high-pressure crimp or crimp & solder. Cover connector with heat-shrink tube as above.
- 7) Repeat Step-5 for Red 12 ga. extension and Red 14 ga. harness wire. Cover connector with heat-shrink tube as above.

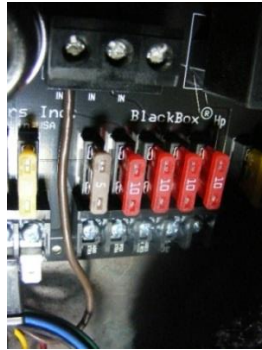
Installation

- 1) Install output tabs to fuse panel terminal strips as follows:

INST LT IN	No tab at this time
INST LT	One, up, One down
TURN/HAZARD	One down
HEAT/AC	One up
RADIO	One, up, One down
WIPER	One, up, One down
GAUGES	One, up, One down
DOME	One, up, One down
LIGHTER	One, up, One down
OPT CRTL+	One up
OPTION RELAY	One down
OPT CRTL+	No tab at this time

- 2) Remove aluminum baseplate from new fuse panel (Four #15 Torx screws)
- 3) Loosen harness-securing straps (on body) and reposition harness upward about 1" to make room for panel.
- 4) Install baseplate to body using existing holes in firewall. Use 3/16" pop-rivets (included). You may have to drill (enlarge) body holes to 3/16" to fit rivets.

- 5) Loop a zip-tie through the two closely-spaced holes on the lower edge of the new fuse panel. Loose Zip-tie ends should be on top.
- 6) Re-Install new fuse panel to baseplate using Torx screws removed in Step-2. Next, install an output tab, facing up, on "Inst Lt IN" (lower left) and "Opt Relay (-)" (lower right).



- 7) Route the Brown wire below panel in a smooth, small loop, then up the middle, between the two terminal blocks and up to the "ACC IN" input terminal. (do not tighten clamp yet)
 - 8) Route Red wire along the same path and install Red wire to "BAT IN" input block. Tighten "BAT IN" clamping-screw using a 1/8"- 3/16" blade screwdriver. Adjust Red wire so it angles over toward the brown wire and does not interfere with fuses or fuse holders.
- TIP:** See "Application Notes" if you need to remove a wire from the input block terminals.

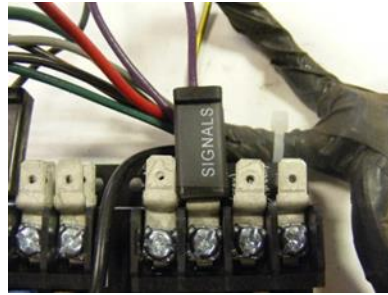
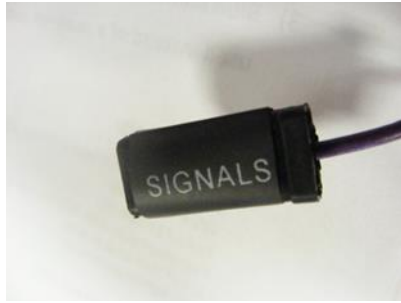


- 9) Make sure both Brown and Red wires are fully inserted into the input block and then secure with Zip-Tie at lower edge of the circuit board.
- 10) Locate the 2 1/4" Brown 12 ga. Extension in kit. Form into "U" bend. Install one end to "IGN IN" input block terminal. Tighten clamping screw with 1/8"- 3/16" blade screwdriver. Install other end to "ACC IN" input terminal along with Brown 12 ga. wire from harness. **MAKE SURE WIRES ARE SIDE BY SIDE (NOT CROSSING) AND INSERTED TO FULL DEPTH.** Tighten "ACC IN" clamping screw to secure both brown wires.



11) Install Heat-Shrink labels (cut from included strip) onto each extension according to table below.

First letter should be at free end. Use a BBQ lighter (heat from sides and bottom only) to shrink label onto connector. Once labeled, install connector to fuse panel terminal.

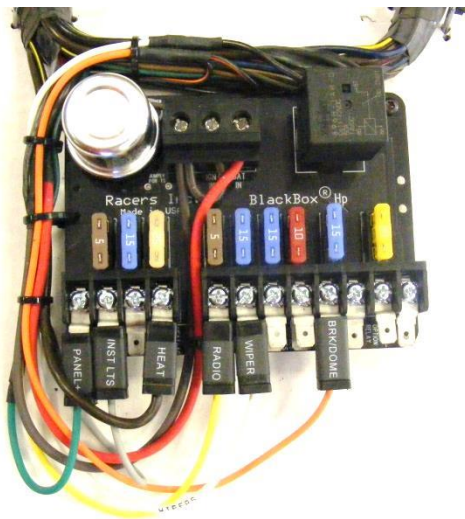


Heat Shrink Label	Wire Color	Panel Terminal	Fuse or Position
INST LT IN	Green	INST LT IN	Left tab
INST LT	Grey	INST LT	Fuse #1
HEAT	Brown	HEAT/AC	Fuse #3
RADIO	Yellow	RADIO	Fuse #4
WIPER	White	WIPER	Fuse #5
DOVE	Orange	DOVE	Fuse #7
LIGHTER	Red (existing accy. wire)	LIGHTER	Fuse #8

12) Plug-in other existing accessory wires as found on this particular car. Refer to list made on Page 1, Step 6. Use “TAIL/GBOX/EXTRA” tab for accessory that’s on at all times (e.g. clock). Use “Wiper/Extra, Radio/Extra,” or “Gauges/F-Pump” tab for accessory switched with key.

13) Wires to left of panel may be secured with zip-ties for appearance if desired.

14) Reconnect battery negative cable. Job done!



Finished Installation

Application notes

- 65-6 Turn Signal flashers were mounted to the left of the steering column and not fused. If you wish to use the flasher and fuse on the panel, you must run a purple wire from the panel's Turn/Hazard terminal to the turn signal switch connector (has black/purple or purple wire). Remove the original flasher and socket. Insulate and tape original wires to a nearby harness.
- Option Relay: See instruction package for wiring and potential uses of the option relay.
- Input blocks: When the clamping screw is turned clockwise, the "floor" of the terminal comes "up" to secure the wire. The "floor" is very hard to see. If the clamp is loosened to remove or reposition a wire, gently turn the clamping screw CCW about nine turns to ensure the "floor" is all the way down before reinserting a wire into the terminal block.

Required tools:

- High-pressure crimper (Klein 1006 or T&B WT-111M)
(or soldering iron + rosin-core solder + standard-crimper)
- Wire Strippers
- Torx-T15 driver
- Pop-rivet gun with 1/8" mandrel capability
- 3/16" drill bit& motor,
- BBQ lighter or heat gun

Kit contents ('65-'66 exc. FC)

Qty	Description
1	BlackBox Hp
2	3/16" Pop-Rivets
19	Tab adapters
5	Zip-ties
1	Set <u>connector labels</u> printed on ½" shrink tube
3	12 ga. Extensions: Brown 10.5", Brown 2.25", Red 11"
6	16 ga. Extensions: White 12", Grey 5", Green 4.5", Orange 12", Yellow 8.5",Purple 25"
3'	Harness Tape
10	1" long Heat-shrink tubes for insulating extension butt-connectors
1	Butt-connector for resizing Orange extension if needed

WB-15 BlackBox™ Warranty

The BlackBox wiring board is warrantied to be free of defects in materials or workmanship for a period of five years from the date of original purchase. User/Installer shall determine suitability for actual application. Wiring instructions, are suggestions to be verified by the installer considering actual hardware and use, therefore, wiring instructions are not guaranteed accurate for the actual application, and omissions or errors are not the fault or concern of RACERS Inc. Wiring technique determines the safety and function of any installation and wiring technique is the installer's sole responsibility and liability. Racers Inc, limits warranty coverage to product replacement does not assume any liability for consequential damage.