My Modifications

- **Fused Fuel Pump**
- **Installation of a Fuel Pump Inertia Switch**
- **Third Brake Light**
- **Conversion of rear reflectors to brake lights**
- **Installation of a Mechanical Brake Switch**
- **Installation of a 6-gang Fuse block**
- **Pertronix Ignition Installation (Link)**
- **Installation of Tow Eyes and Tie Down Hooks**

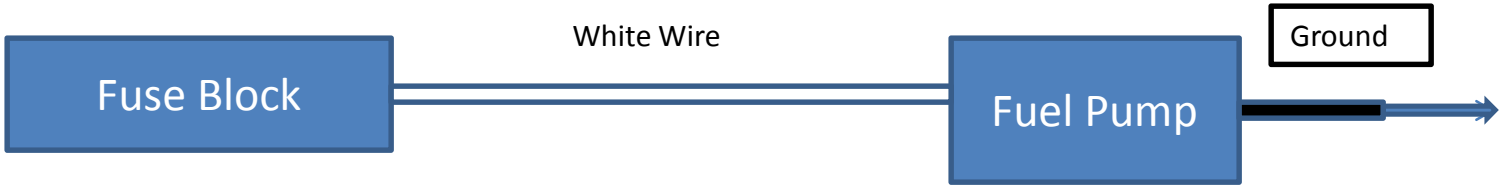
Correct as of April 12, 2010

All Parts are from suppliers found on www.healey6.com – Important Links Section

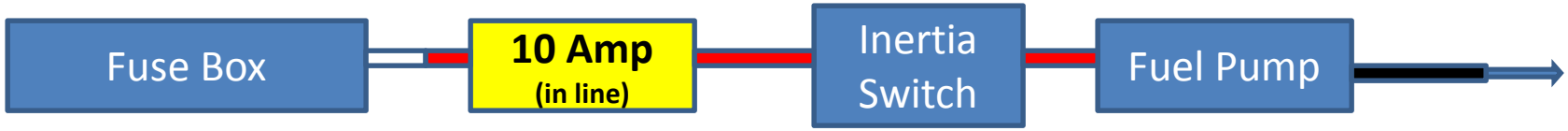
Fuel Pump

Revisions to wiring

Original Wiring



Revised wiring including a 10 amp fuse and an inertia switch



1. Remove white wire at fuel pump and clip off circle fastener
2. Install male spade clip to white wire.
3. Remove Boot Floor.
4. Run Red wire through wiring harness grommet on left of trunk. Easiest is to push it through from the trunk.
5. Attach to white wire that was clipped from the pump using female spade clip.
6. Clip the red wire in the trunk area to the proper length and attach to the in-line fuse using the proper set of spade clips.
7. Attach the other end of the in-line fuse assembly to one lead of the inertia switch.
8. Install the body of the inertia switch to the bulkhead making sure that it is in a position that does not interfere with the closing of the boot deck moveable lid.
9. Attach a red wire to the other lead of the inertia switch lead.
10. Run this line through the grommet as before, install a circle clip and install on the fuel pump.
11. Dress all wires and plug components of the inertia switch together.
12. Note – the pump circuit grounds through the pump body to the frame.

Fuel Pump Inertia Switch Installation

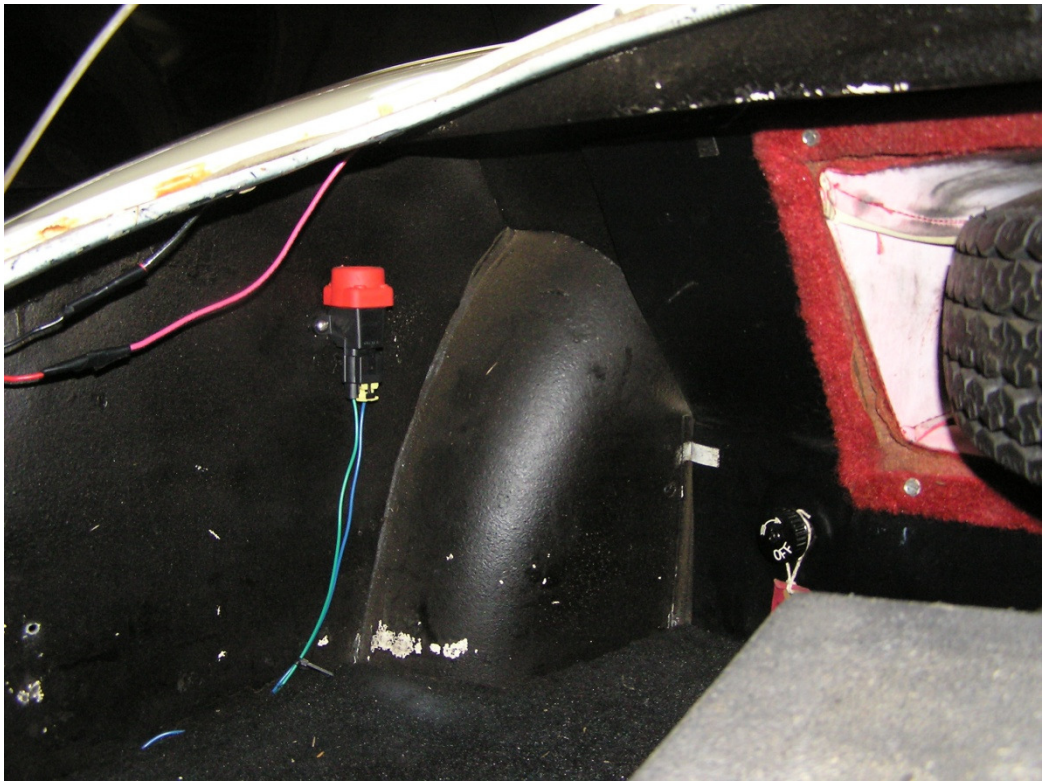
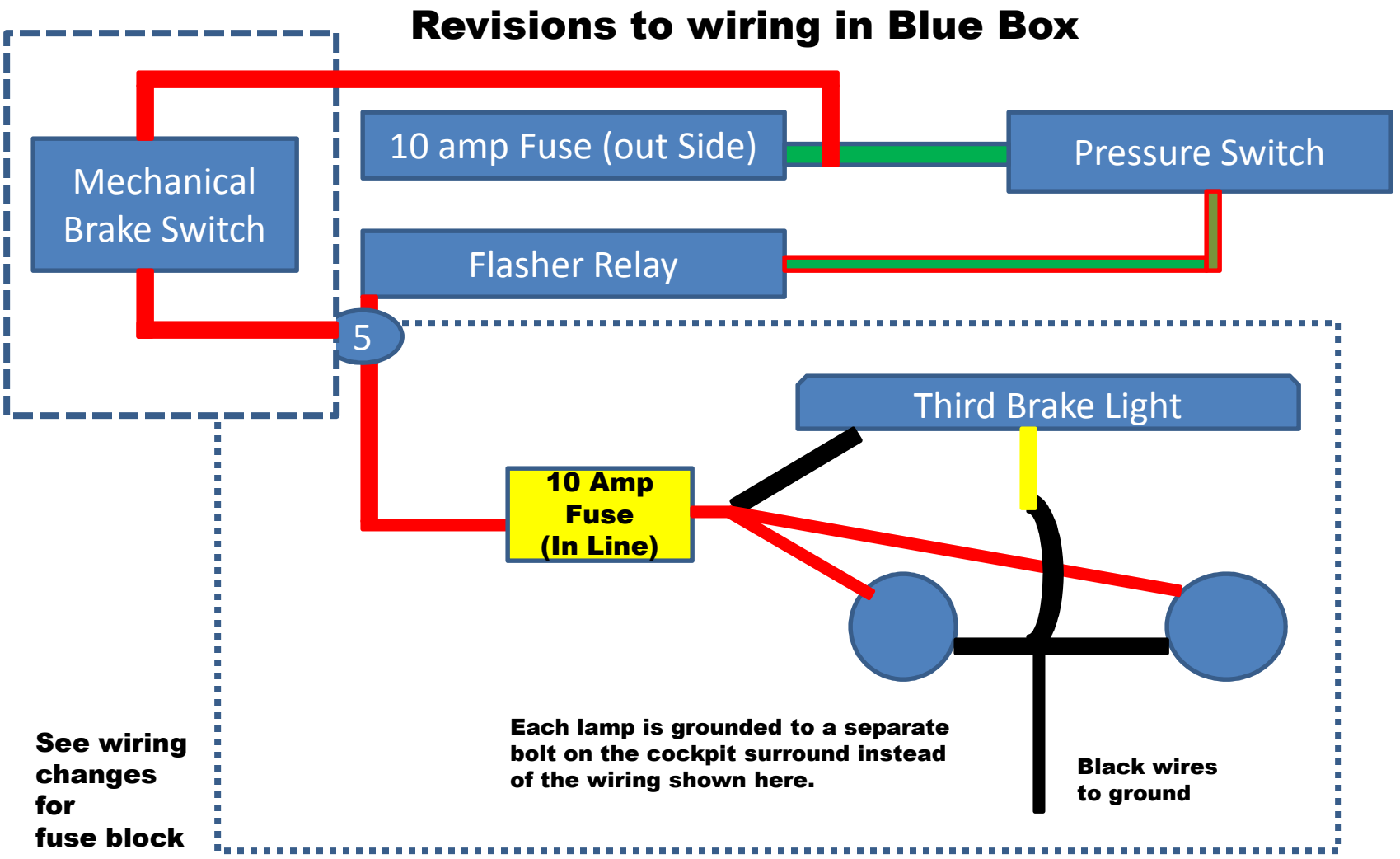


Photo of Inertia Switch Moss Part number 900-240

Brake Switch Circuit



See narrative on next page for changes in dotted line boxes

Third Brake Light, Wiring reflectors, Mechanical Brake Switch

Third Brake Light 1A Auto Parts number 1ALTL00343

1. Route red wire from Flasher Relay post #5 and run it along side the Fresh Air Duct. Cable Tie down.
2. Route through a fire wall grommet nearest the left fender.
3. Snake under the wiper motor and then down inside the left kick wall panel.
4. Route under the furflex molding in the door surround and up to the rear of the drivers side door to the rear package shelf.
5. Connect an in-line fuse leaving enough slack to relocate the end of this assembly. Connect the Black wire from the Third Brake Light to the end of the Red Wire.
6. Connect a Black wire to the Yellow wire on the Third Brake Light and ground by connecting to a cockpit surround bolt.
7. Cable tie all lines and cover all connectors with electrical tape.

For reflectors - Interlight Socket BA15D (2 Required) Bulb 20w 12V MR11 BA15D:

1. Remove reflectors and drill out the rubber backing by one inch. Trial fit and drill more as required.
2. Fit light assembly (adjusting rubber cutout as required careful to not cut through the flange)
3. Assemble reflector elements and install on car.
4. Run a ground wire on each side through channel to spare tire shelf.
5. Attach ground wire to cockpit surround bolt – each to its own side.
6. Run hot lead from each reflector through the channels and join with 3rd brake light wire and then to fuse.

Note – the wiring in items 5 and 6 are for a positive ground car. For a negative ground car, the Black wire on the Light strip goes to ground and the yellow wire on the Light strip goes to power.
The Light strip is polarity sensitive. The reflector lights are not.


AH BN6

Mechanical Brake Switch

Watson's Street Works Switch #L08

Installation Notes:

1. **Use a 1 ½ inch L bracket available at Home Depot to attach the Mechanical Brake Switch with the following modifications.**
    A. **The holes on one leg must be widened or elongated to match the holes in the switch bracket.**
    B. **Paint the bracket body color if you desire.**

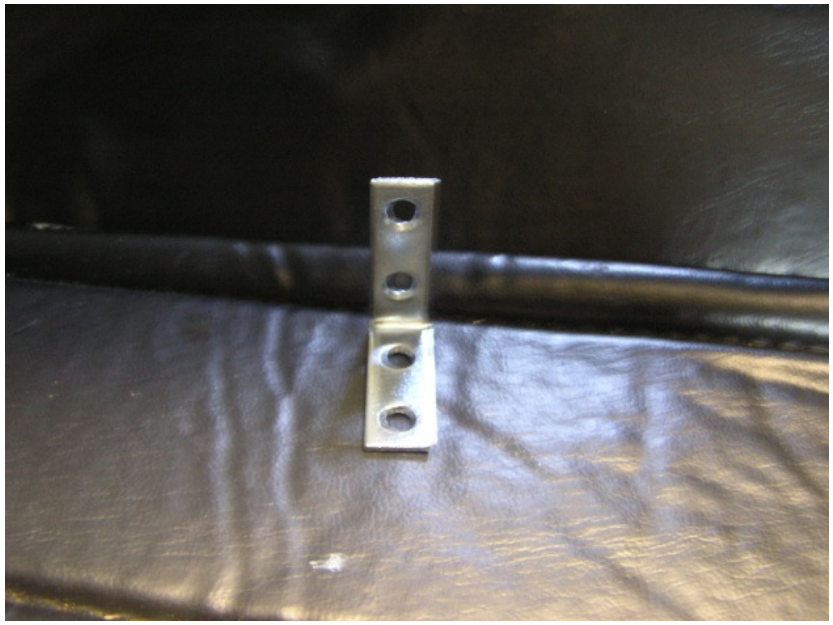
2. **Drill a pilot hole on the frame of the Fresh Air Ventilator Door to accommodate a ¾" ¼" diameter self-tapping bolt head screw.**

1. **Adjust the swing arm of the switch so that it is fully up when installed. (When the brake pedal is depressed, the arm will fall because of an internal spring thereby closing the electrical circuit.**

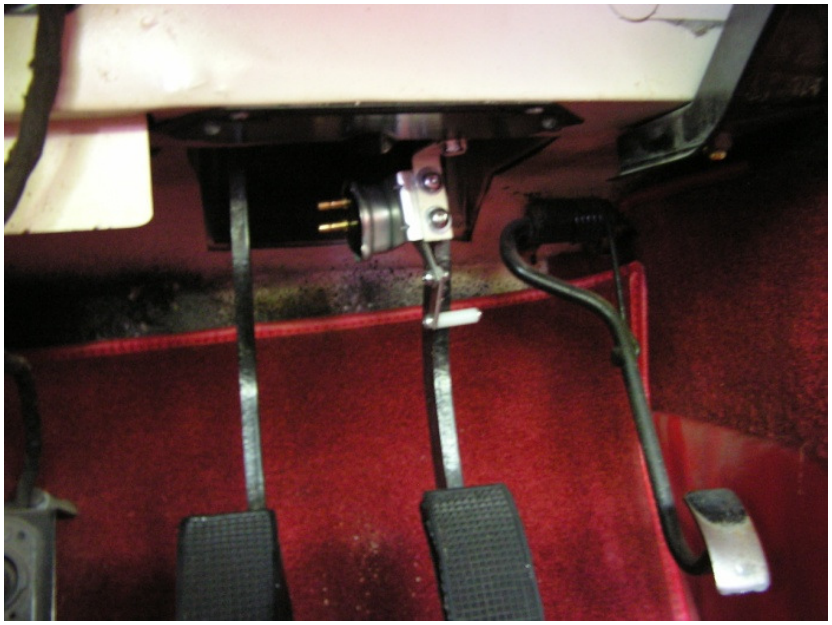
Wiring:

1. **Run a red wire from the switch through a firewall grommet as in the installation of the Third Brake Light and connect to the fused side of terminal 2 on the new fuse block (see that drawing)**
2. **Run a black wire from the switch through the same grommet to Terminal 5 of the Flasher Relay as in the installation of the Third Brake Light.**

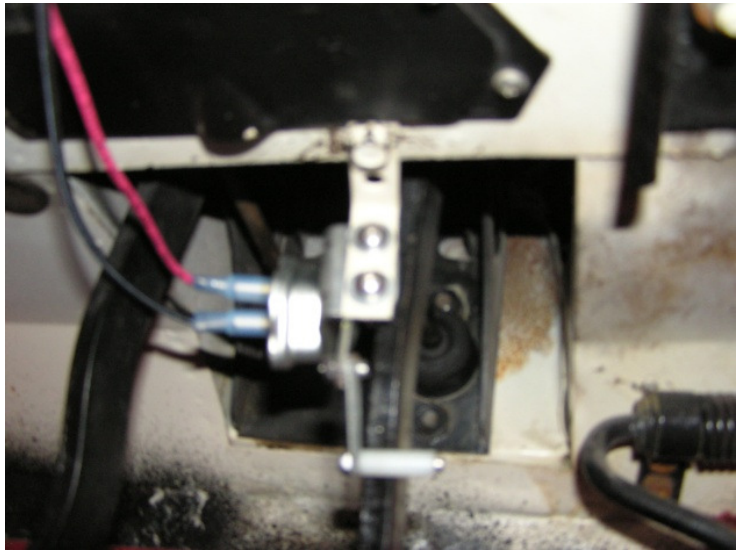
See photos on the following slide which are in installation order.

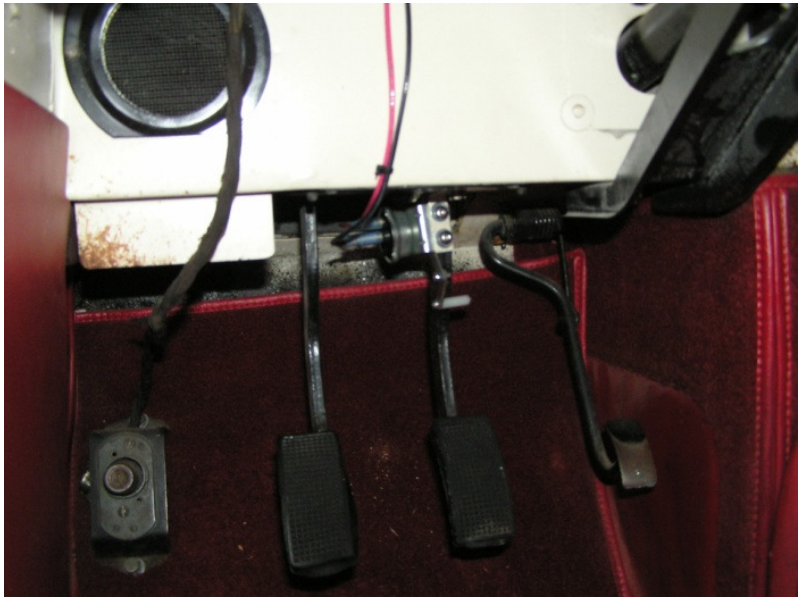


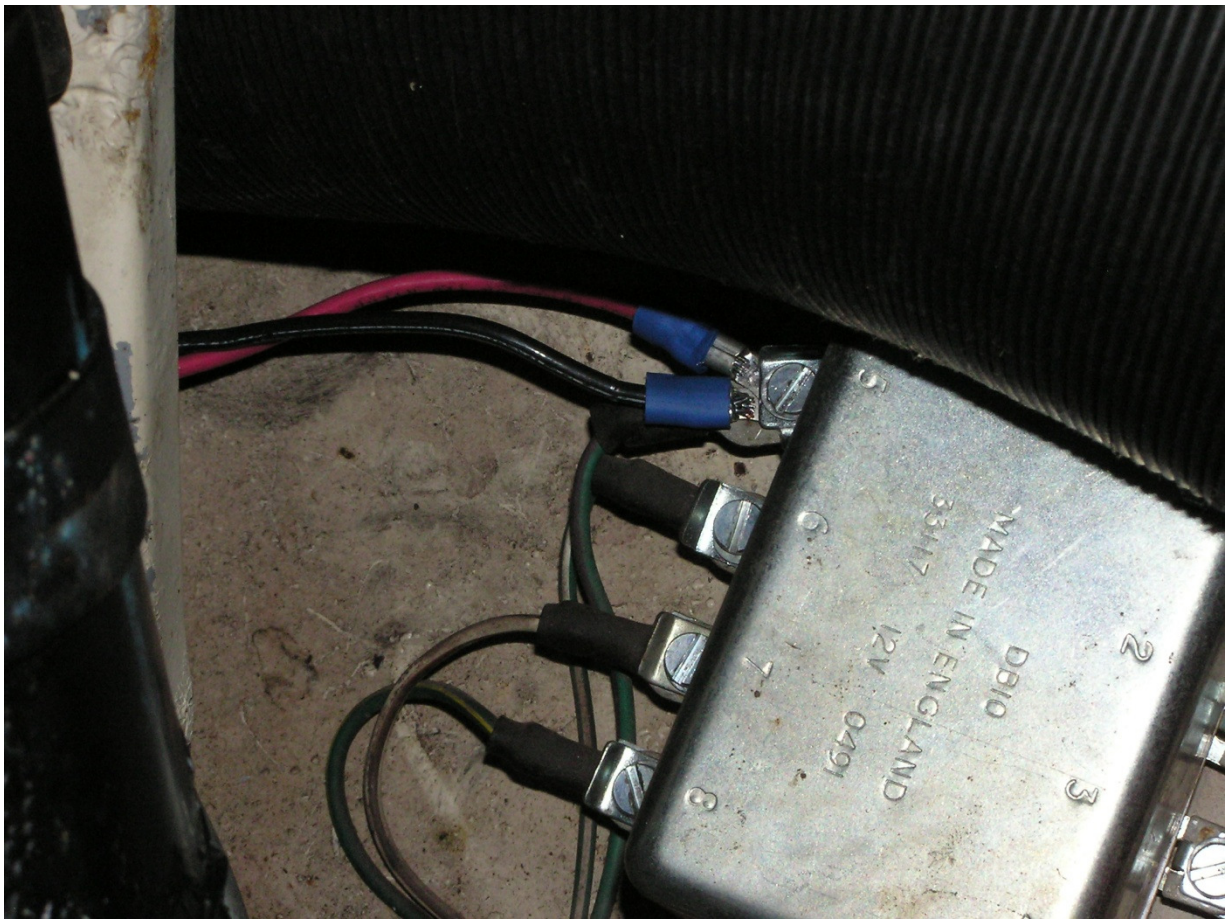
L Bracket as purchased



Assembly installed on Ventilator Door Surround. You should be sure to open the door as you install this or it may prevent the door from opening.







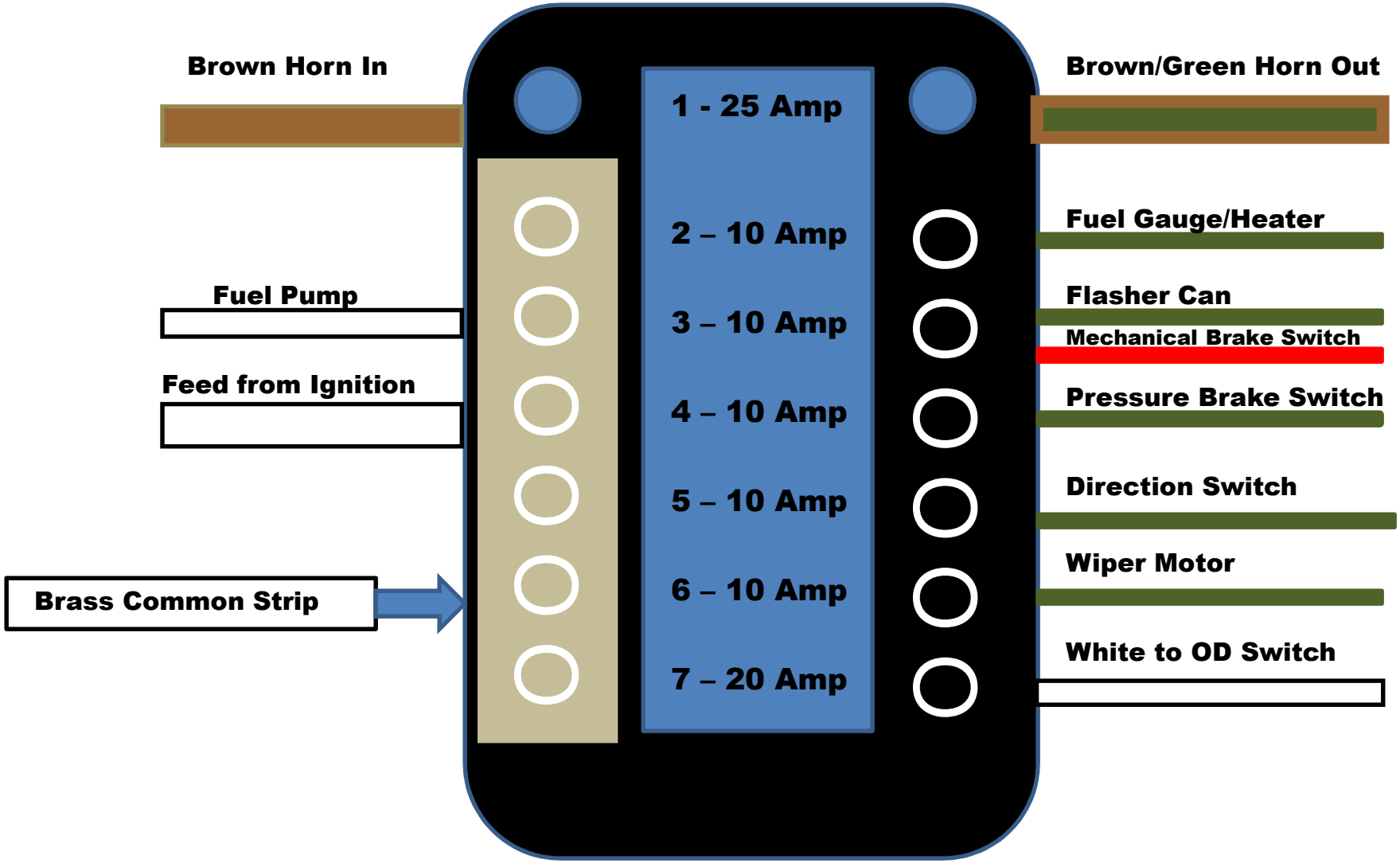
Close up of the relay box showing the Red wire from the Third Brake Light and the Black wire from the Mechanical Brake Light Switch attached to Terminal 5. I used Ring clips for security. Colors vary to indicate the circuit.

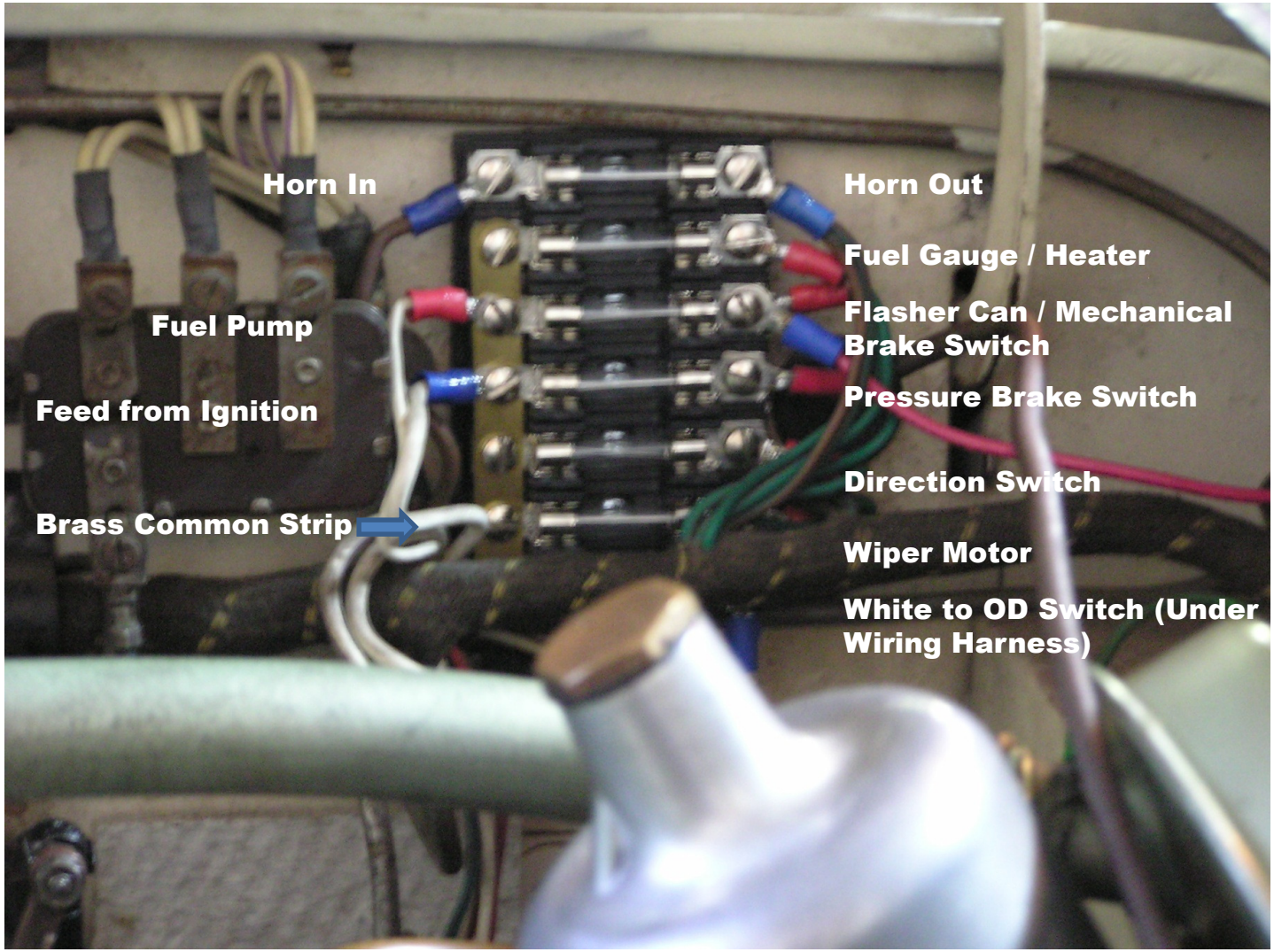
New Fuse Block

Wiring as shown.

- **Brown horn wires wired as in the original fuse block except that a 25 amp American fuse is used instead of a 50 amp British fuse.**
- **White OD wire located and wired on the fuse side of the block.**
- **Other two white wires located and wired on the common side of the block.**
    - **Not necessary to fuse the fuel pump at this location as it is fused in the boot (see that slide)**
- **Green wires from original bunch wired to separate fuses and located by trial and error and/or continuity tester.**

New fuse Block Wiring





The mounting holes on this fuse block fit the existing firewall welded nuts.

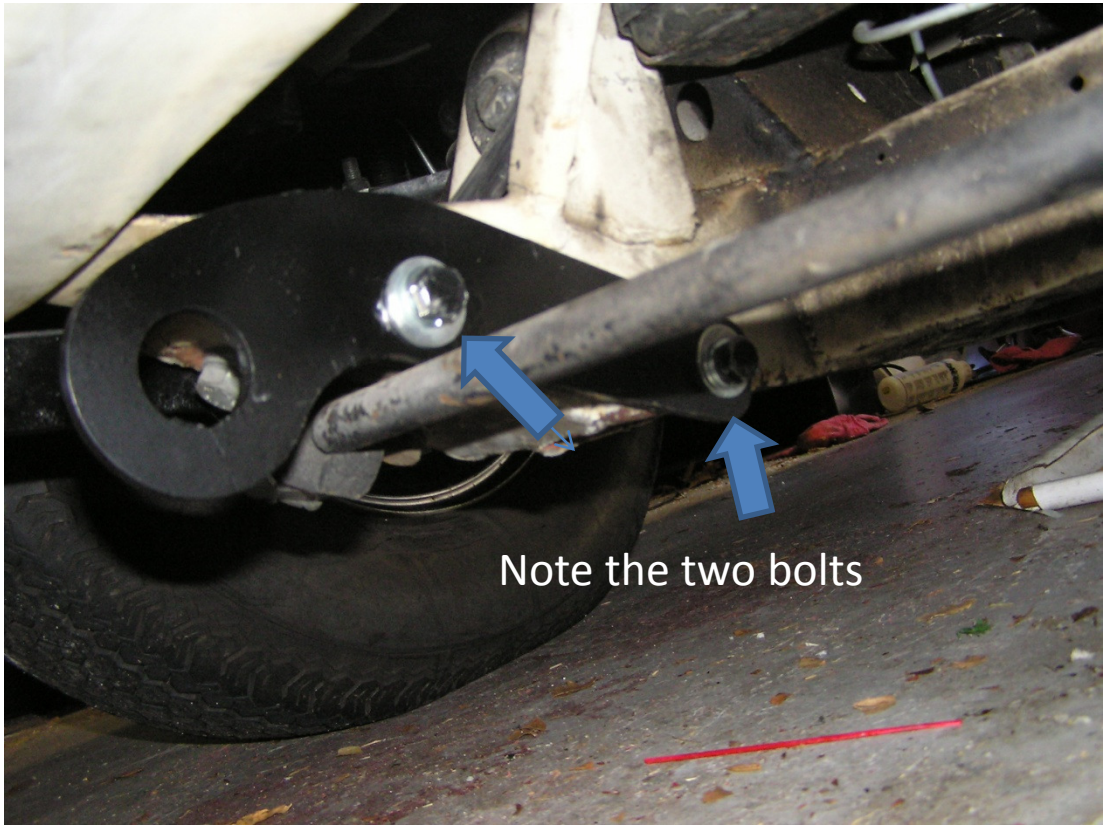
Tow Eyes and Tie Down Hooks

Tow Eye (Left) and Tie Down Hook (Right)

Before Installation of Tow eyes

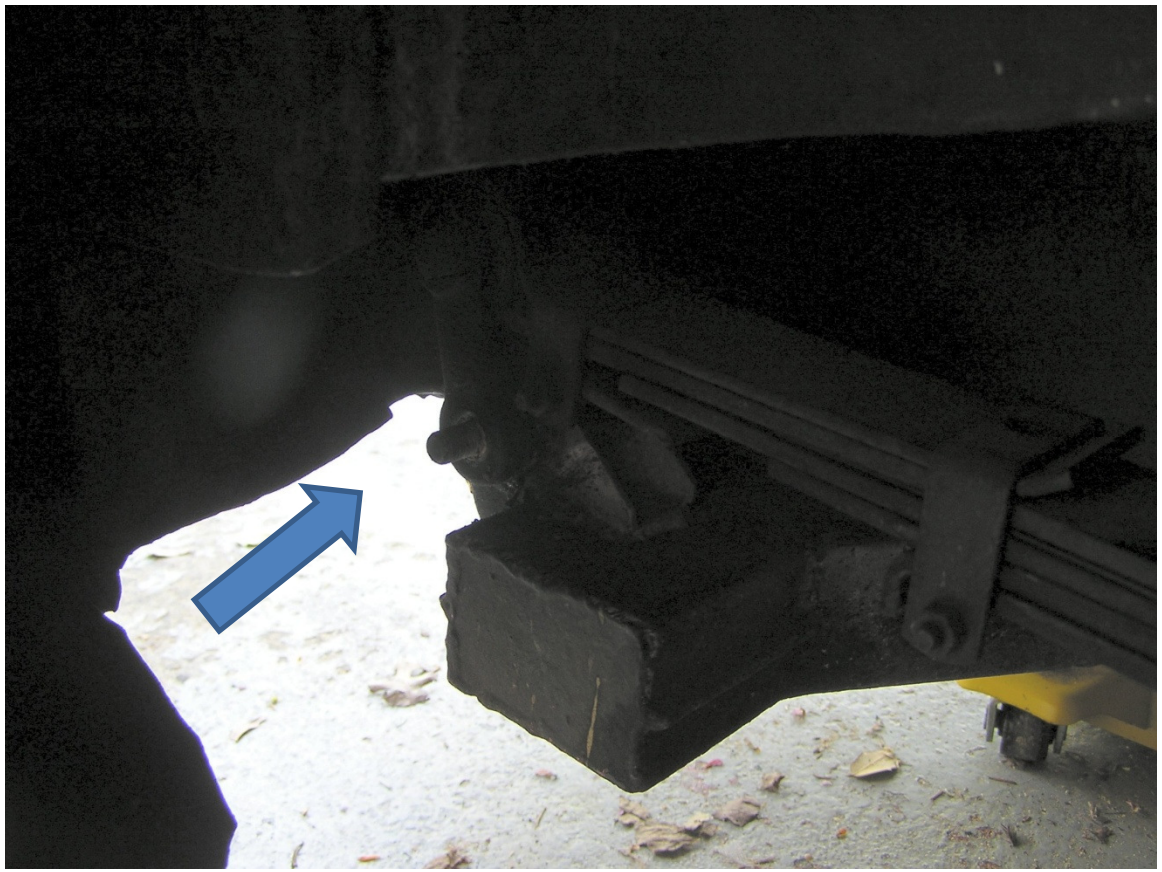
Note the welded nut on the inner side of the frame member opposite of where the bumper bracket is bolted on.

After Installation of Tow Eyes



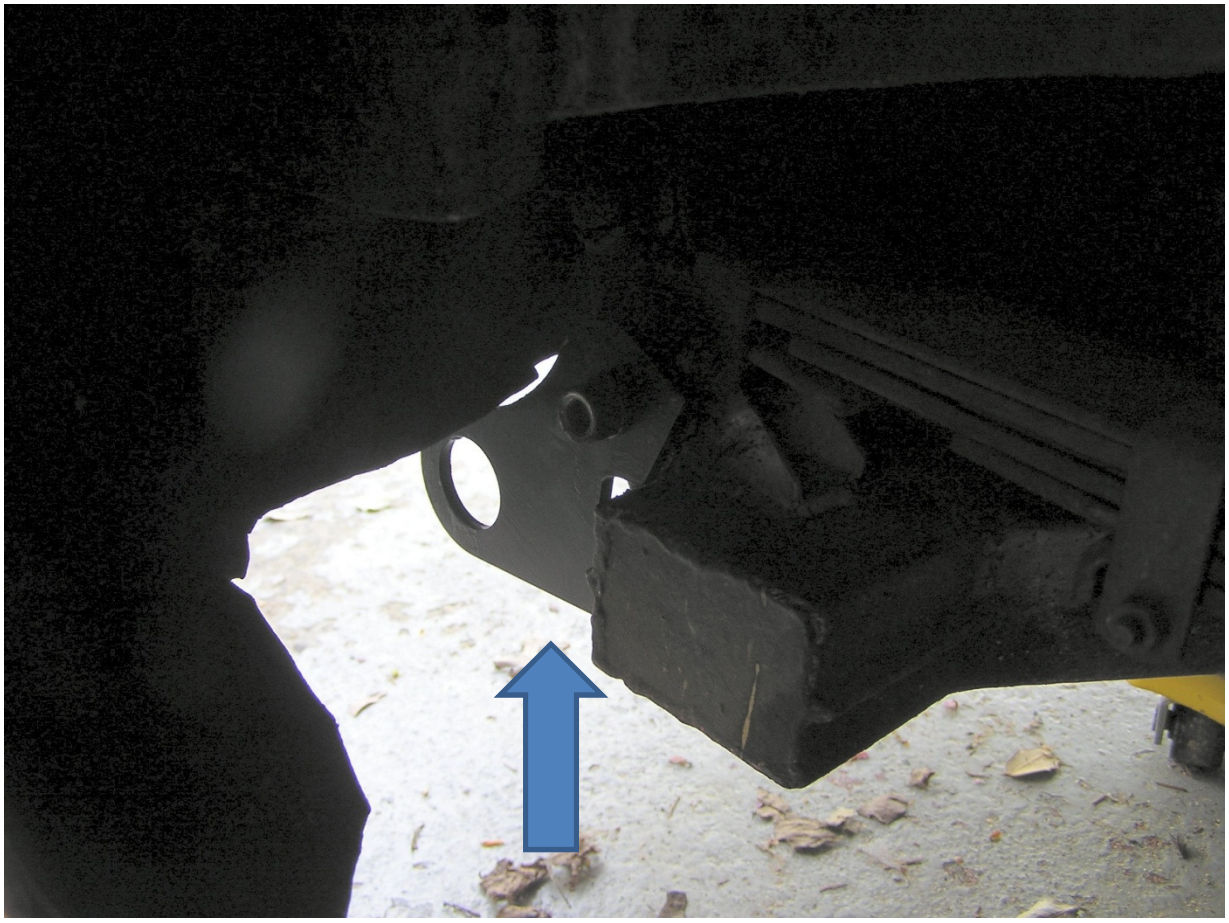
Washers not yet painted to better show installation

Before Installation of Tie Down Hooks



Remove nut on Rear Spring Shackle Pin

After Installation of Tie Down Hook



Install Tie Down Hook and replace the nut.
The Tie Down Hook may need to be modified to fit.

Parts Sources

6-gang Fuse Box Available from Charlie Hart at: hartcg@msn.com cost approximately $50.00.

Third Brake Light 1A Auto Parts number 1ALTL00343

http://www.1aauto.com/1A/TailLights/Chevrolet/BlazerFullSize/1ALTL00343/660794

Reflector illuminating assembly Interlight Socket BA15D (2 Required) Bulb 20w 12V MR11 BA15D
http://www.interlight.biz/

Fuel Pump Inertia Switch, Part Number 900-240 Moss Motors www.mossmotors.com

Mechanical Brake Switch Watsons Street Works
http://www.watsons-streetworks.com/watsons_streetworks.html

Tie Down Hooks and Tow Eyes from Bill Bolton TRICARB@aol.com

Pertronix Ignition sets are available from many sources. Be sure to note Polarity.

Some vendors may question why you are ordering GM or hotrod parts for an Austin Healey just to make sure that a mistake has not been made. However, several now understand what we are doing. ***Many of these parts are available from a number of other sources and can be found on eBay - often at lower prices than that quoted by the above vendors. Search eBay, eBay Motors and Google.***