



ECS R32 Exhaust Flap Manual Override Installation Instructions



Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.



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Safety first:

Safety Notice: When working with your vehicles electrical system, always disconnect the battery. Avoid shorting any circuits, or probing around the wires. Failure to follow these safety precautions, and all others, could result in irreversible damage to your vehicles electrical system, failure to start, fire, or personal injury.

Before you undertake this installation, it is important that you read the instructions; and that you also have the necessary tools and skills required to complete the job. If the installation of this product seems overwhelming, please contact a qualified installer in your area.

Tools Required:

- Wire Cutters
- Wire Crimpers
- T20 Torx
- Flat Head Screwdriver
- Work Light
- Drill
- 1/4" Drill Bit
- 10mm Socket
- 8mm Socket
- Ratchet
- Razor Blade or Exacto Knife

A little background:

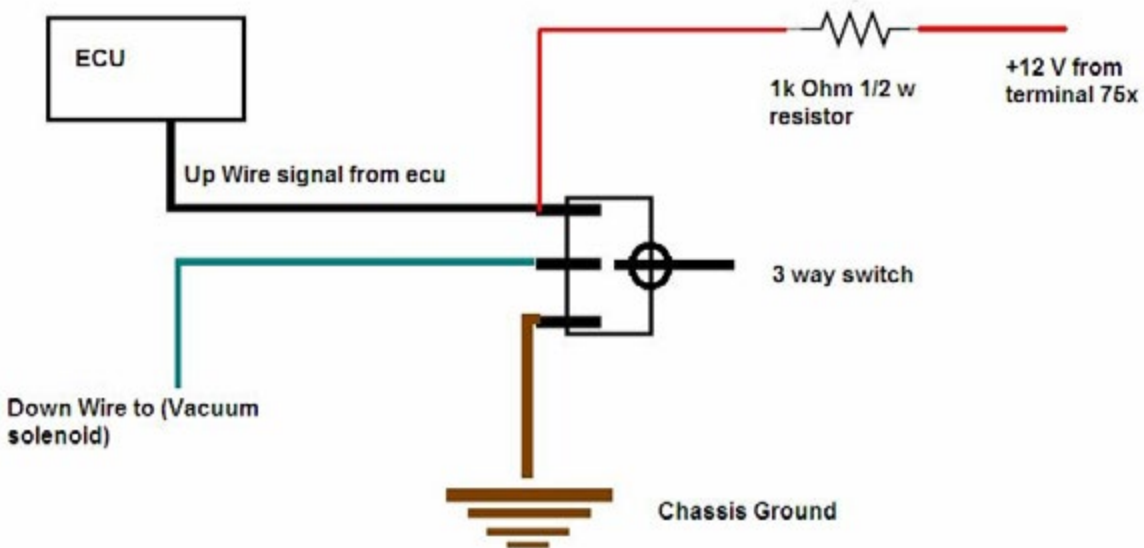
The R32 incorporates a vacuum actuated flap to control the exhaust noise. The stock system is controlled by the ECU. The ECU looks at vehicle speed and throttle input and decides when to open the exhaust valve. In stock form, the ECU keeps the valve closed and the exhaust quiet at low speeds and around town. The ECS Exhaust Flap Override harness is a great way to take more control over your vehicle. With pre terminated connections and a simple installation, it gives you an increased flexibility over stock. With three different settings at your fingertips, from always loud, to always quiet, or back to stock, this manual control harness gives you total control.

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Installation Note:

The instructions cover the wiring portion of this installation only. Due to personal preferences, opinions, and warranty concerns, we leave you the end user to select a mounting location of your choice. The Switch neck is ¼” and drilling a small any where from the under dash panel to the side of your center console are viable options. It is strictly a matter of personal preference.



The schematic of the harness is as follows.
The 1k ohm resistor is to prevent a soft code from being thrown.

Your exhaust override harness has four pre terminated wires.

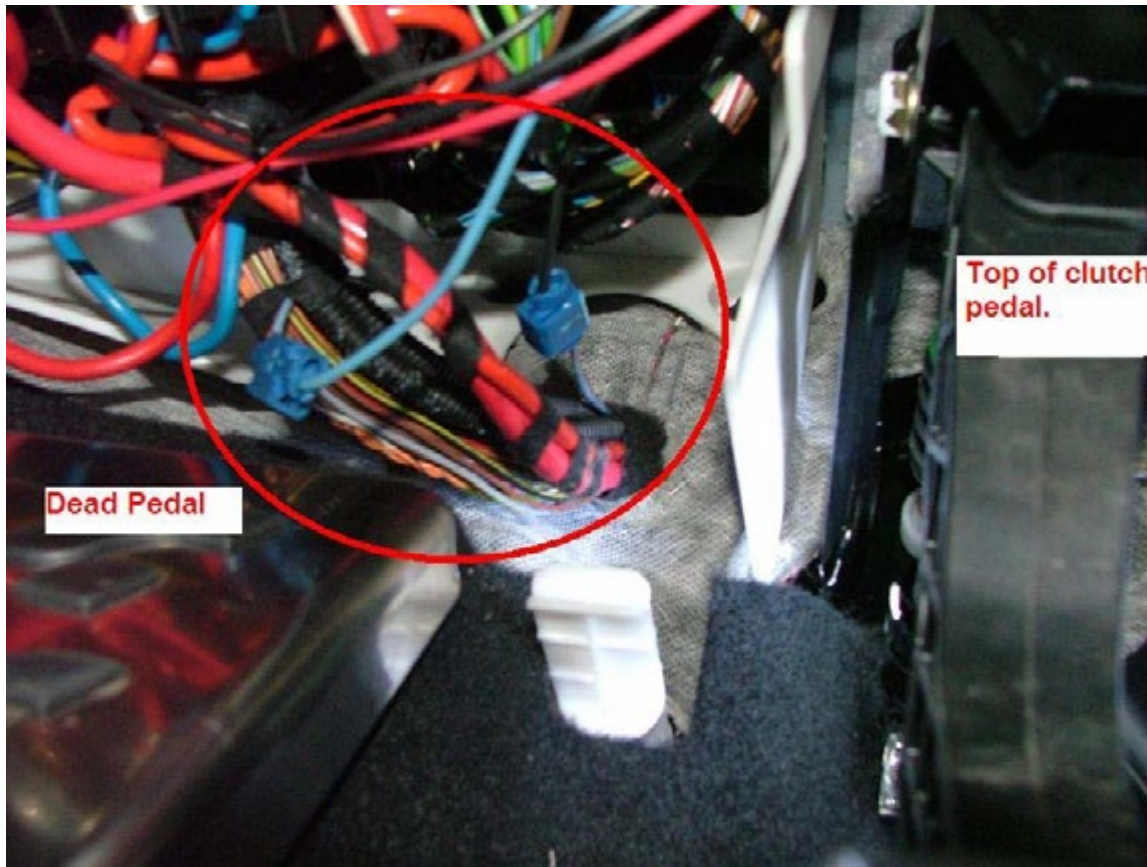
- Red** = (Ring Terminal) +12 volts (switched) from terminal 75x
- Brown** = (Ring Terminal) Chassis ground from fuse block frame
- Black** = (Inline Splice) Connection to ecu (flap vacuum control) (up stream)
- Blue** = (Inline Splice) Connection to vacuum solenoid (down stream)

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Installation begins assuming you have your under dash access panel removed.

Step one: Locating the up/ down stream control wire.



This is the most difficult part of the installation.

The wire we are searching for is a grey body with a light blue stripe 14 GA wire. It is located in a taped together cluster of wires coming out of the fire wall.

Using your razor blade or exacto knife CAREFULLY remove the thin black cloth tape from around the wiring harness, in order for you to search for the grey/light blue stripe wire.

DO NOT nick or slice any wires!!!!

Although there are many wires here, ONLY ONE has this color code.

Once you locate this wire, cut it at a halfway point between the firewall and the fuse block.

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We will refer to the cut wire's two ends as: up stream and down stream wires now. The up stream wire is from the cars ecu. It is the wire coming out of the firewall. The down stream wire is going back toward the vehicles exhaust flap vacuum controller.

With the wire cut in half, using your wire strippers, strip approximately 3/8ths of an inch off the corresponding ends.

The up stream gets connected to the black wire on the harness via the inline splice. The down stream gets connected to the blue wire via the inline splice.

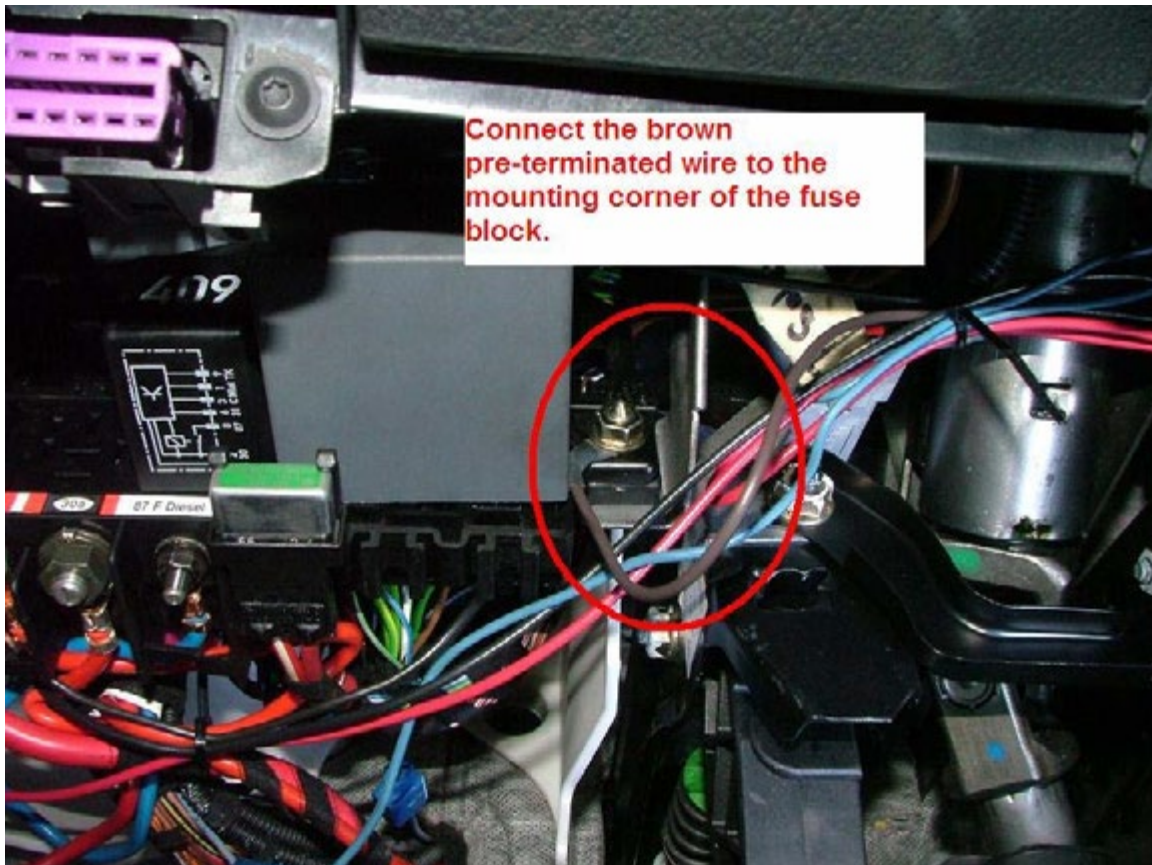
Securely crimp the splices on to the corresponding wires.

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Connect the red pre-terminated wire to terminal 75x (black wires with yellow stripe)
This supplies the harness with +12V

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Connect the brown pre-terminated wire to the mounting corner of the fuse block.

To get our proper ground, a good ground is the corner of the fuse block mounting point, under the 10mm securing nut.