



Audi B8 2.0T Ignition Wiring Harness Kit Installation Guide - [Click HERE to Shop](#)



Skill Level
2 - Moderate
Some Experience
Recommended



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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INSTALLATION NOTES

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.

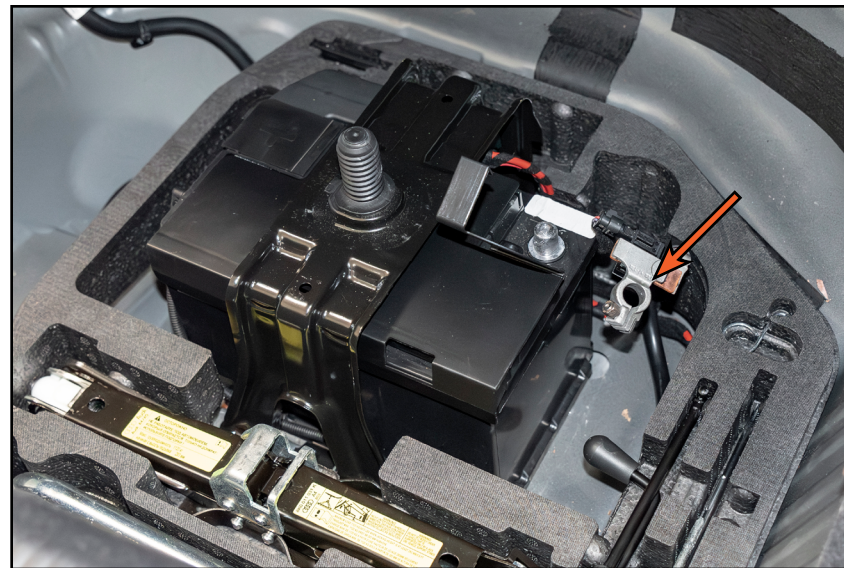


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE FACTORY IGNITION WIRING HARNESS

Step 1: 10mm Socket & Ratchet

Disconnect the negative terminal (arrow) from the battery in the spare tire well as shown.



Step 2:

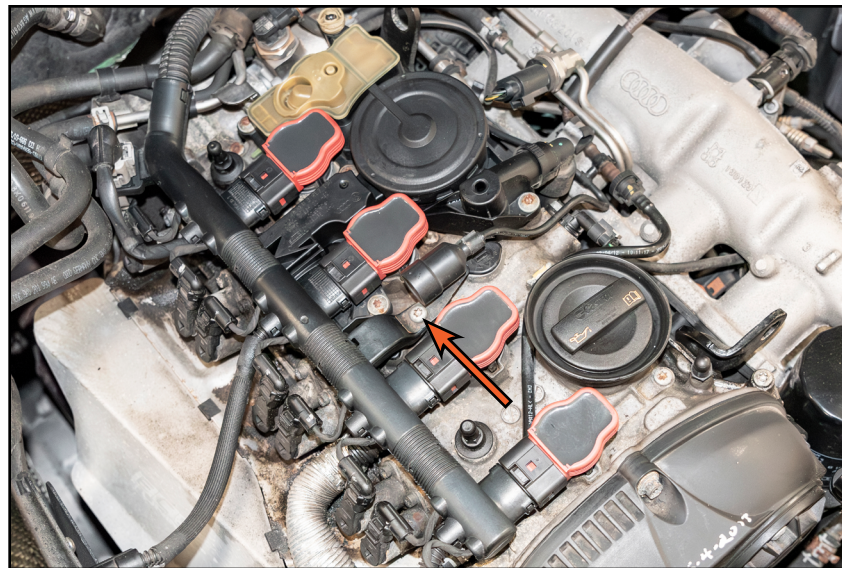
Pull up to pop the engine cover free from its mounting grommets.



REMOVING THE FACTORY IGNITION WIRING HARNESS

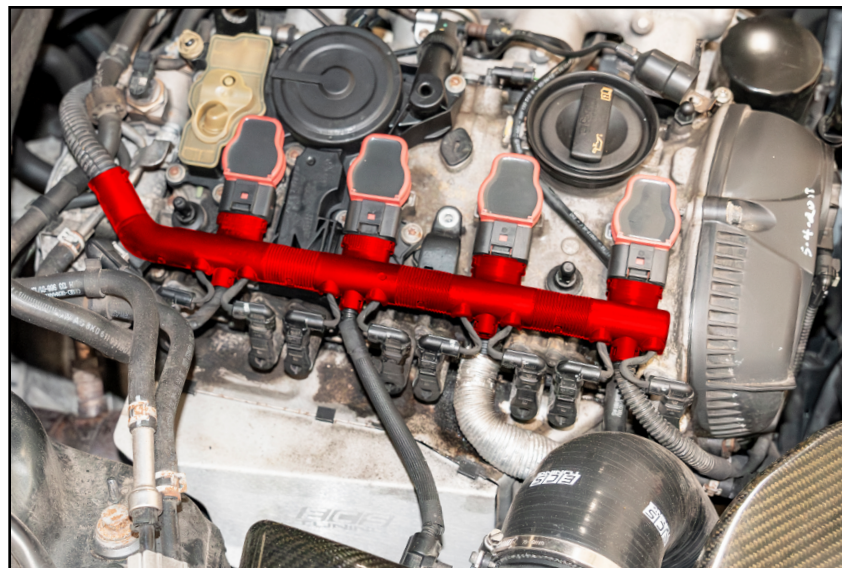
Step 3: T30 Torx Socket & Ratchet

Remove the screw (arrow) that secures the OE ignition harness channel and vent hose to the top of the valve cover.



Step 4: Angled Pick Tool

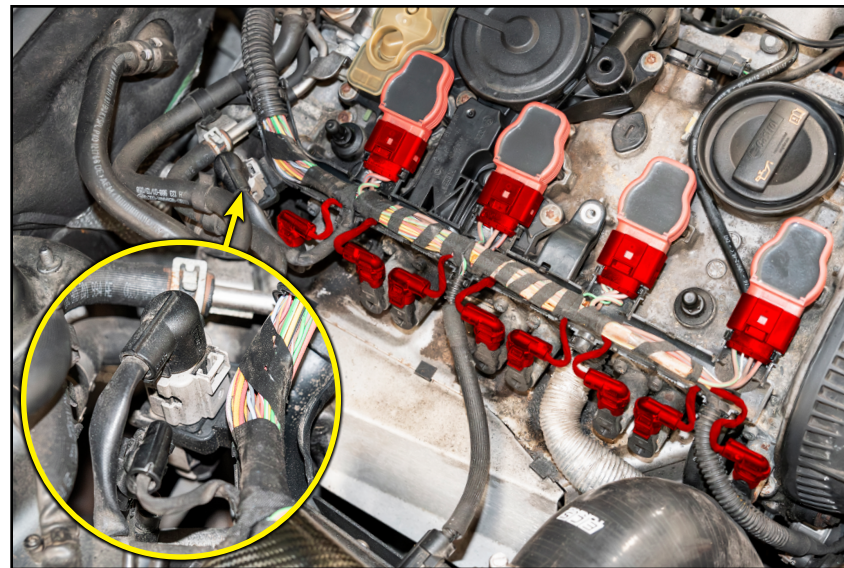
Release the retaining tabs and remove the upper wiring harness channel shell (highlighted in **RED**).



REMOVING THE FACTORY IGNITION WIRING HARNESS

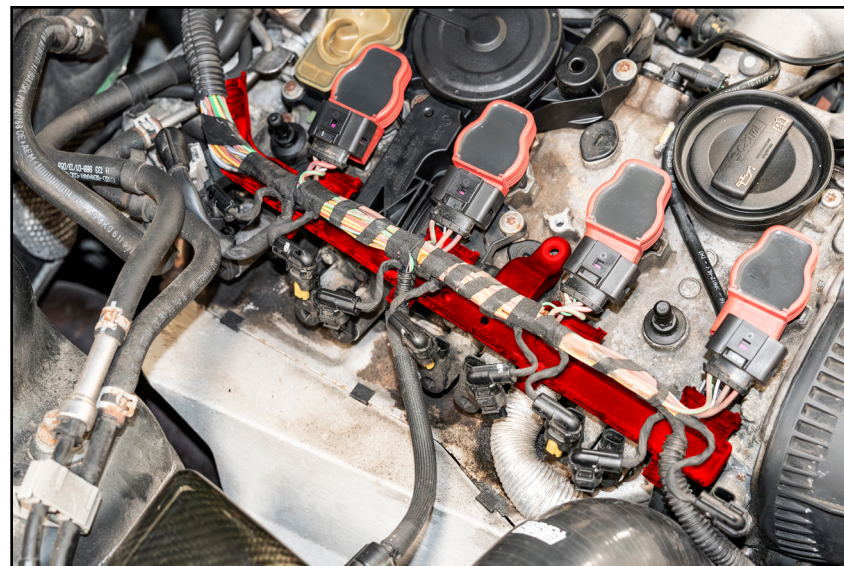
Step 5:

Disconnect the cam adjuster valve connectors and ignition coil connectors (highlighted in **RED**). Pull the O2 sensor connector (inset photo) free from its mounting bracket.



Step 6:

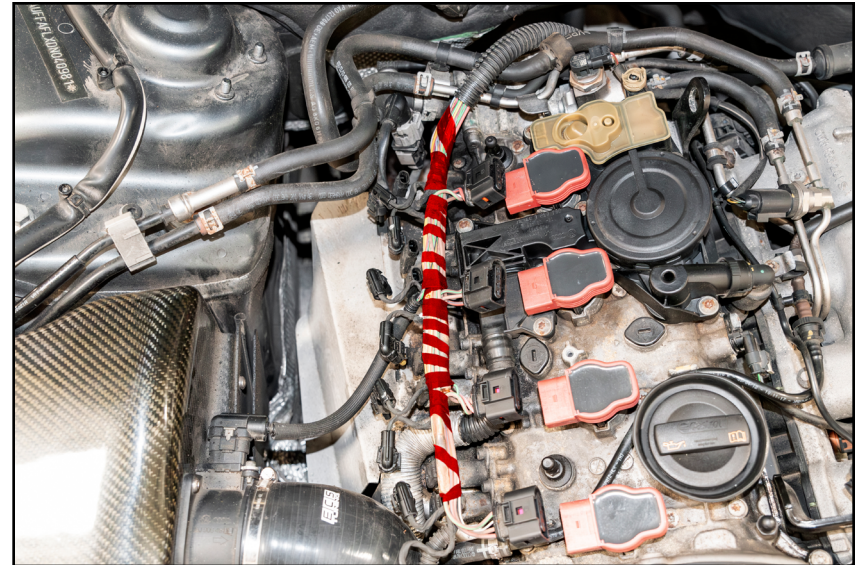
Carefully guide the lower wiring harness channel shell (highlighted in **RED**) free from under the wiring harness.



REMOVING THE FACTORY IGNITION WIRING HARNESS

Step 7: Razer Blade

Carefully cut back the protective wrap/tape on the factory ignition wiring harness (highlighted in **RED**), freeing the ignition coils connector wires from the rest of the harness.

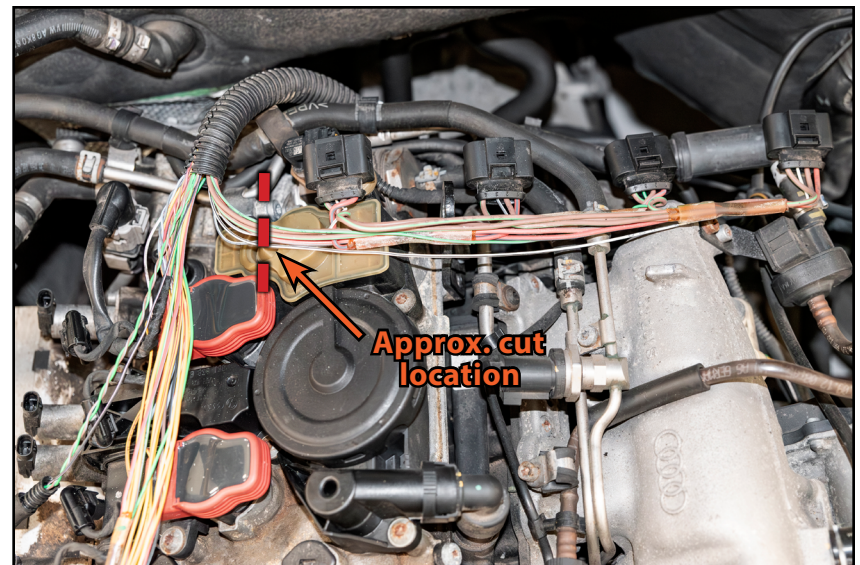


Step 8: Wire Cutter



STOP! You are ready to remove the original harness, all you have to do is cut the wires, however once you do your vehicle will be inoperable until you complete the installation. Please read the **ENTIRE** installation procedure and make sure you have all of the required tools before cutting any wires.

Separate the seven OE ignition coil wires from the rest of the wiring harness and carefully cut the OE ignition coil wires harness in the location shown (**RED** lines), being sure to leave a small length of wire on either side.



PROPER TERMINAL CRIMPING TECHNIQUE

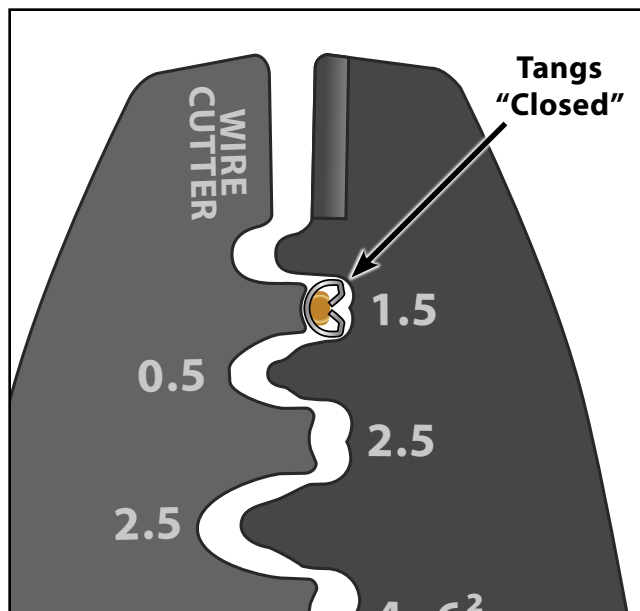
Step 1: Wire Stripper/Terminal Crimper Pliers

Now let's take a moment and look at how the terminals need to be crimped. A proper pair of wiring terminal crimpers will take the "tangs" on the terminal and roll them down and in, this makes for a solid and strong connection. Make sure that the "tangs" are completely pressed down into the wire, and give the wire a quick tug to make sure it is secure.

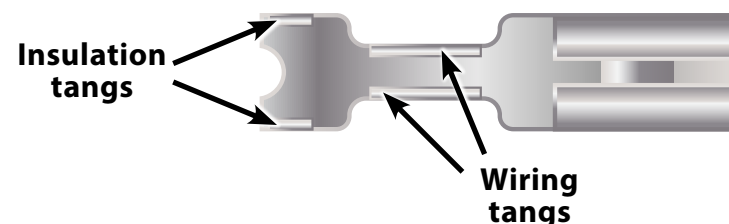
The diagram on the right shows the tangs and how they "roll" inwards and down onto the wire/insulation, the "wiring tangs" are meant to crimp onto the exposed wire, and the "insulation tangs" are meant to crimp onto the wire seal.

This diagram shows a terminal being crimped inside the wiring terminal crimpers, notice how the tangs roll back towards the wire and secure it in place.

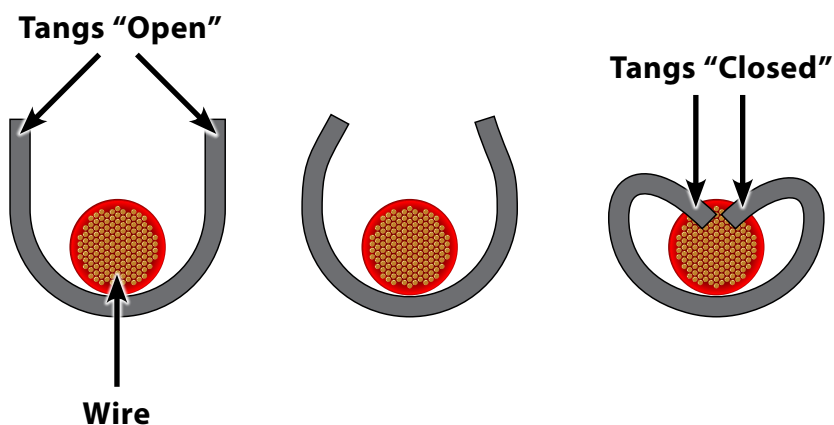
Please note: This style of crimp is for newer terminals, many old style crimpers WILL NOT have the correct crimp dies and WILL NOT work for this install.



Terminal Top View:



Terminal Back View:



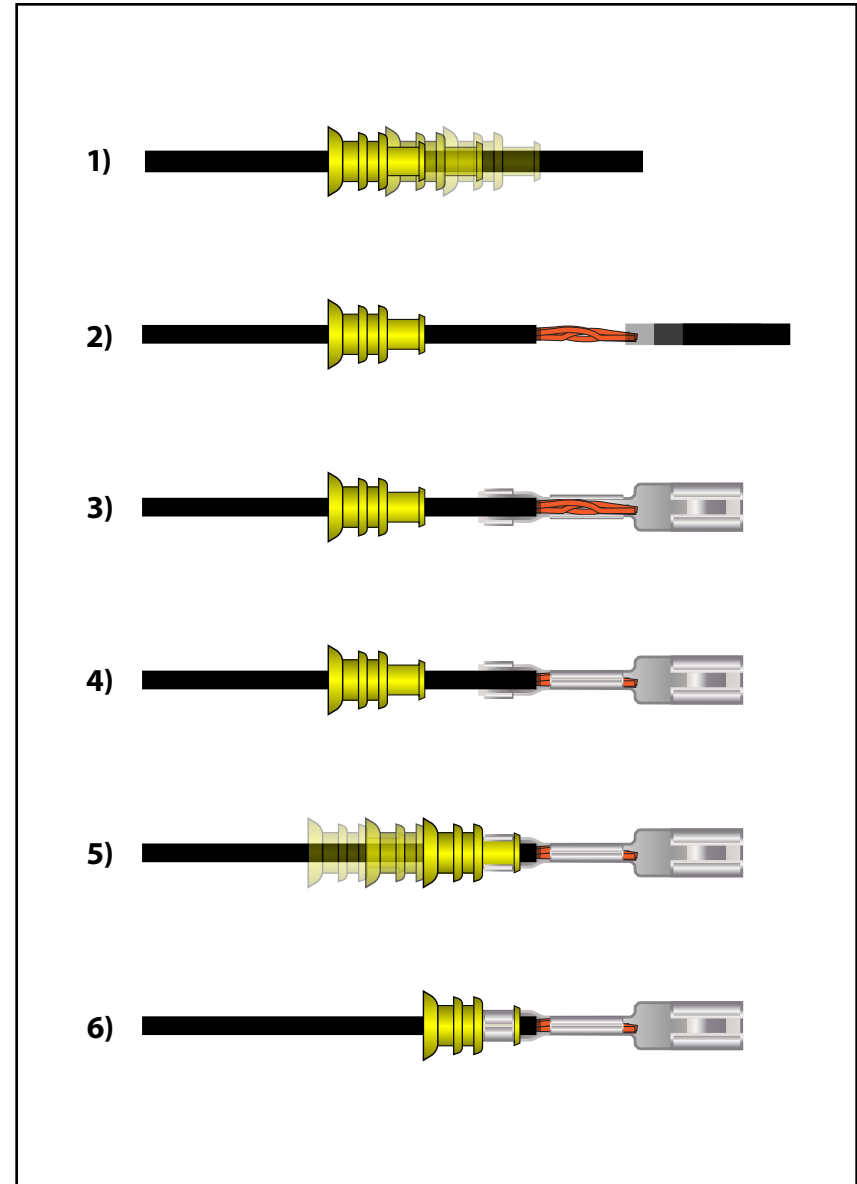
PROPER TERMINAL CRIMPING TECHNIQUE

Step 2: Wire Stripper/Terminal Crimper Pliers

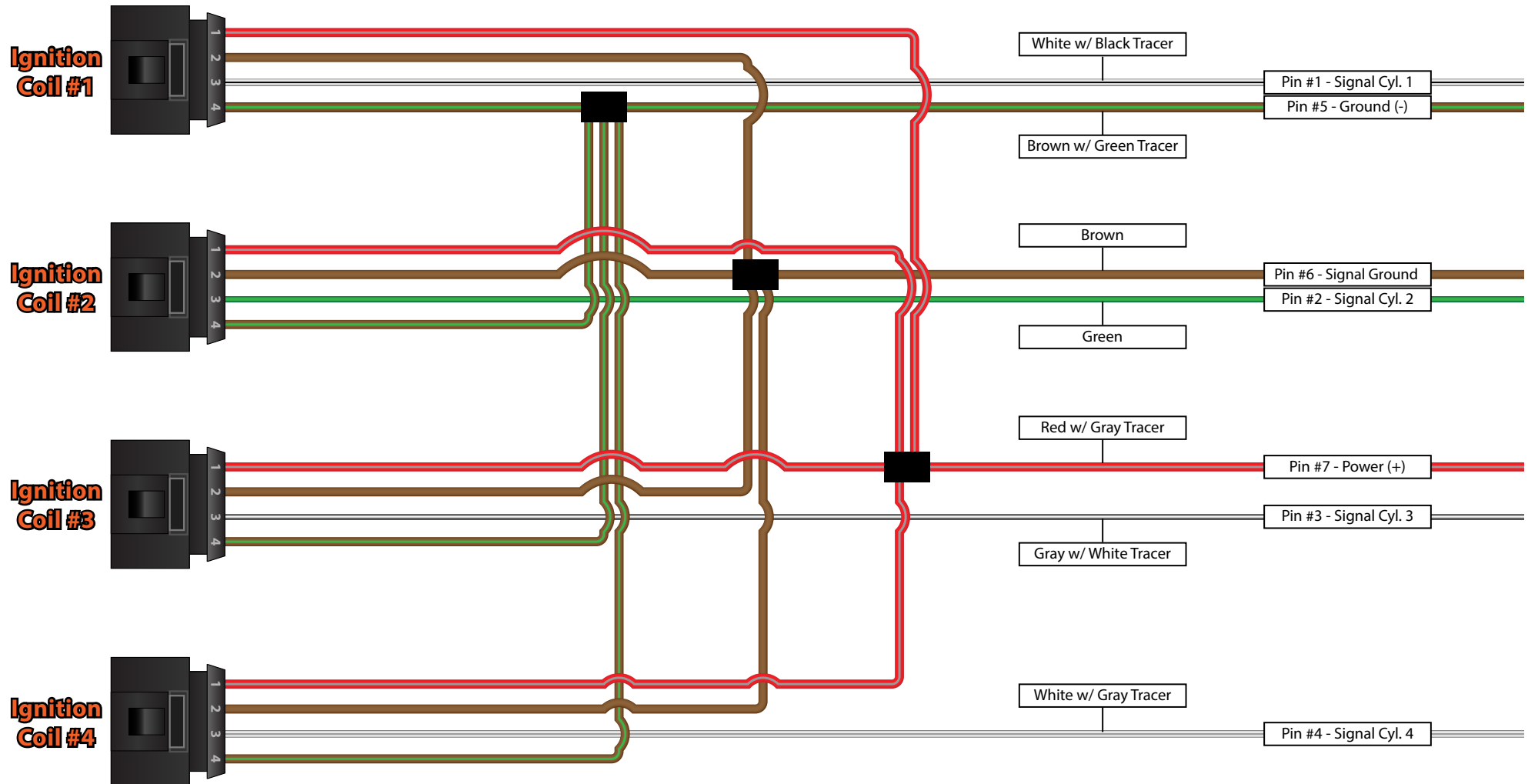
Please take a moment to familiarize yourself with the correct procedure for crimping a wiring terminal.

Terminal crimper pliers are used to close the “tangs” on the terminal onto the wire and insulation, creating a firm and solid electrical connection.

1. Slide the rubber seal onto the wire (**DO NOT** forget to do this **BEFORE** you crimp the terminal onto the wire).
2. Strip the wire back approximately $\frac{1}{4}$ ”.
3. Line up the wire in the terminal so that the exposed wire is lined up with the wiring tangs, and the insulation tangs are lined up with the wire insulation.
4. Insert the terminal into the appropriately sized crimping die, then squeeze the crimper until the wiring tangs are seated down onto the wire. #4 in the illustration shows us what the first crimp should look like, notice how the tangs are wrapped around the exposed wire. Gently tug on the wire to make sure the crimp is secure, if the wire pops out it may be possible to spread the tangs slightly with a small pick and then crimp the connection again.
5. Slide the rubber seal up the wire until the front of the seal is aligned with the insulation tangs on the terminal (see #5 in the illustration on the right).
6. Insert the terminal into the appropriately sized crimping die, then squeeze the crimper until the insulation tangs are seated down onto the seal. #6 in the illustration shows us what the finished crimp should look like, notice how the insulation tangs are wrapped around the wire insulation. This terminal is now ready to be inserted into the connector.



IGNITION WIRING HARNESS DIAGRAM



INSTALLING THE NEW IGNITION WIRING HARNESS KIT

Step 1: Wire Stripper/Terminal Crimper Pliers

Using the process we reviewed on the last 3 pages, install seals and terminals onto each of the seven ignition coil harness wires. There are 4 smaller terminals for the 18 awg signal wires, and three larger terminals for the 14awg wires. Be sure to give each wire a small "tug" to check that the terminal is firmly crimped into place.

Using the chart below, insert all seven wires into the slots in the included 8-pin connector as shown in the photo, ensuring that each of the locking tabs in the connector snap into the matching slot in the terminals (see illustrations below). Install the provided blank seal plug into the unused slot.

18awg White w/ Black Tracer Wire -> Slot 1

18awg Green Wire -> Slot 2

18awg Gray w/ White Tracer Wire -> Slot 3

18awg White w/ Gray Tracer Wire -> Slot 4

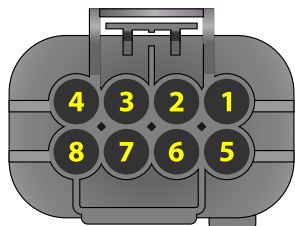
14awg Brown w/ Green Tracer Wire -> Slot 5

14awg Brown Wire -> Slot 6

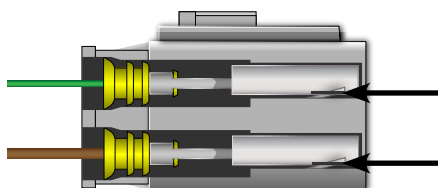
14awg Red w/ Gray Tracer Wire -> Slot 7

Blank Seal Plug -> Slot 8

8-pin connector (as viewed from behind)



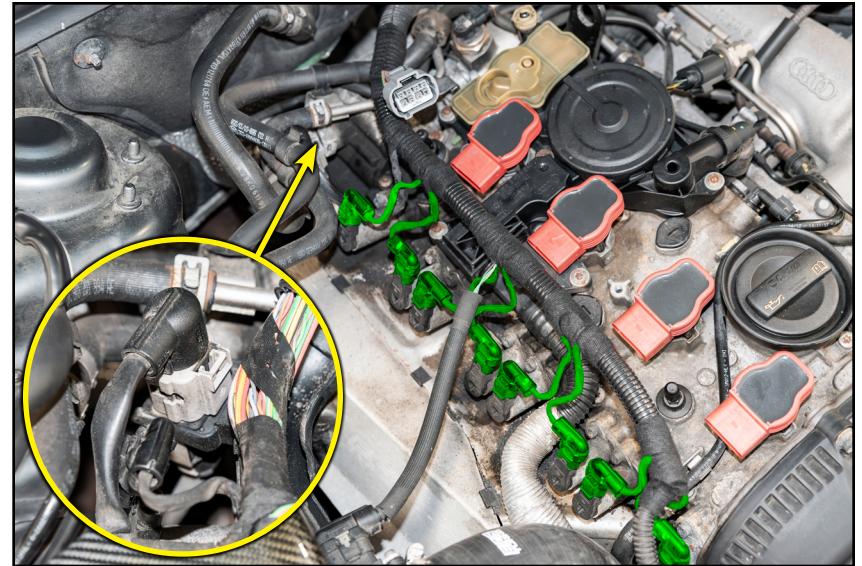
8-pin connector (as viewed from side)



Locking tab
Locking tab

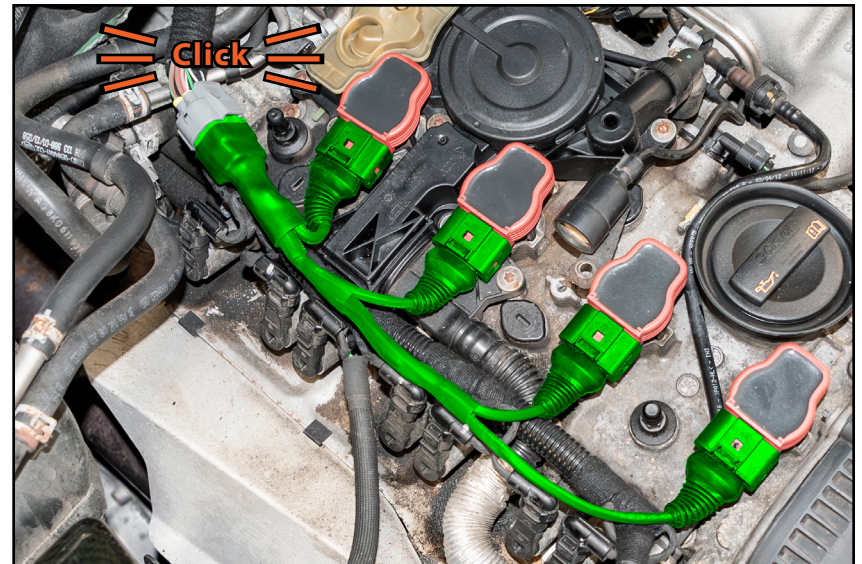


Wrap the exposed wires on the rest of the OE wiring harness using the provided wire loom, taping it in place as shown using fabric wiring harness tape. Reconnect the cam adjuster valve connectors (highlighted in **GREEN**).



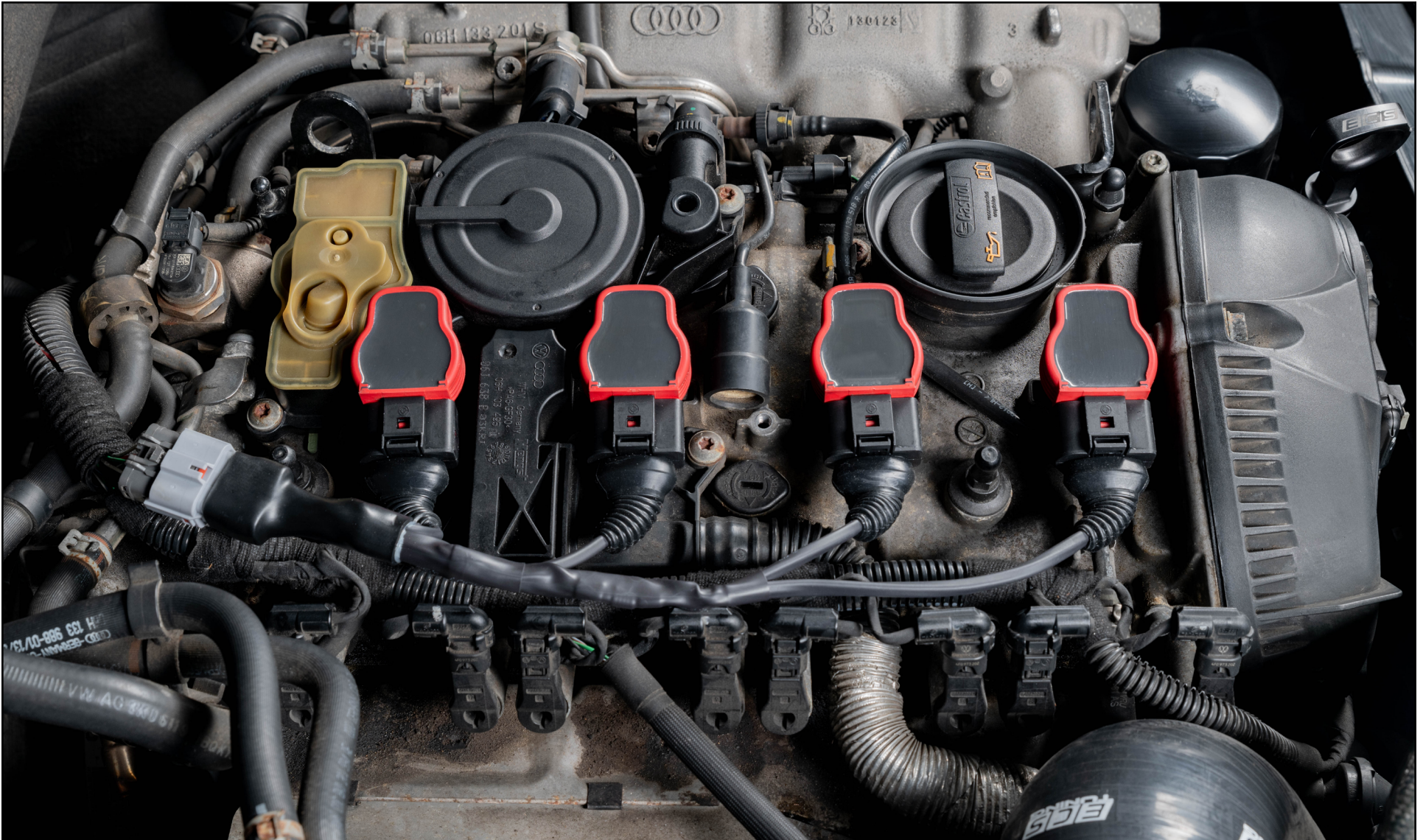
Connect the new ignition wiring harness (highlighted in **GREEN**) to the newly pinned connector, ensuring the retaining tab clicks into place. Connect the ignition coil connectors as shown.

- ☐ Reinstall the engine cover.
- ☐ Reconnect the negative battery terminal.
- ☐ Start the engine and make sure that it runs smoothly.
 - This indicates that all of the wires have been properly connected.



Congratulations, your installation is complete!

Your Ignition Wiring Harness installation is complete!



These instructions are provided as a courtesy by ECS Tuning

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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