



VW/Audi Wastegate Adaptation Harness
User Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required



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.

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

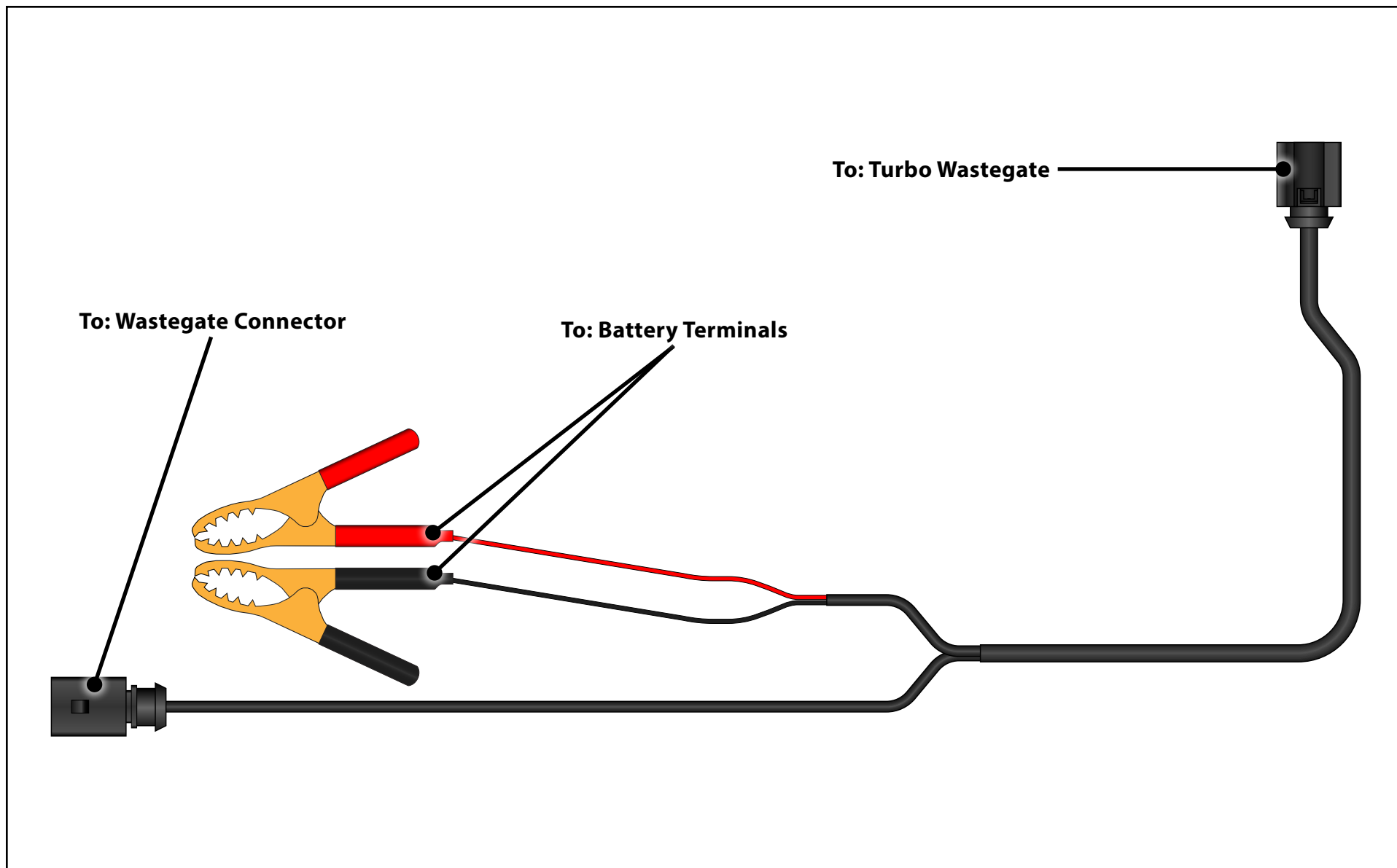
ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- 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.

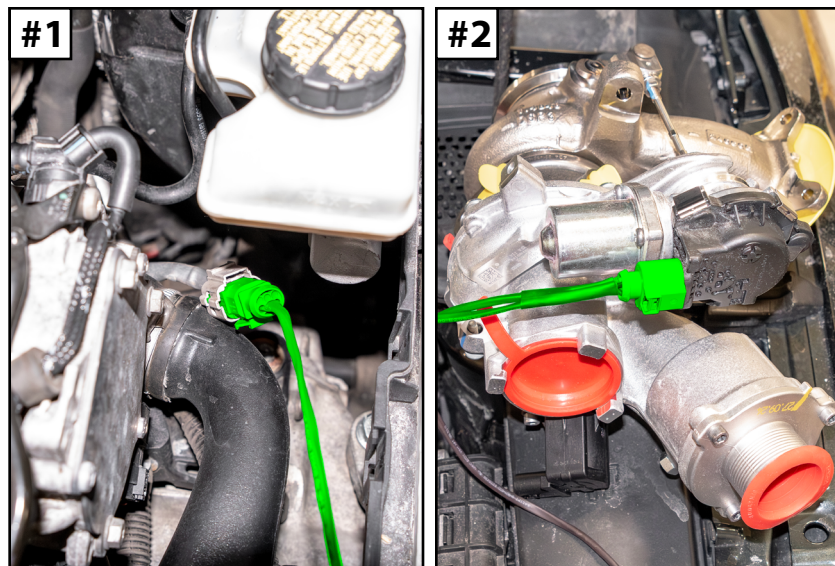
ADAPTATION HARNESS DIAGRAM



ADAPTATION HARNESS INSTALLATION

Step 1:

Connect the adaptation harness (highlighted in **GREEN**) to the OE wastegate connector (as shown in **Photo #1**) and the wastegate on the turbocharger (as shown in **Photo #2**)



Step 2:

Connect the **RED** clamp to the positive battery terminal, then connect the **BLACK** clamp to the negative battery terminal.

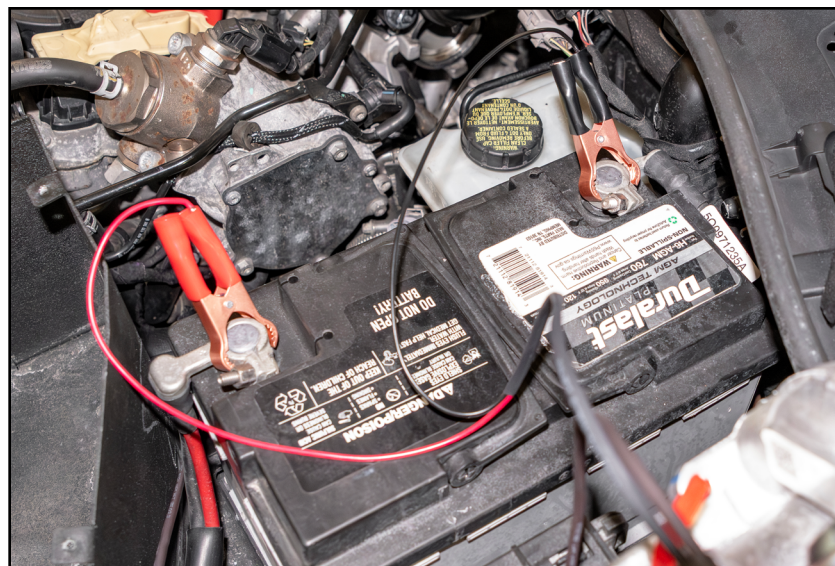


Connecting the clamps to battery will actuate the wastegate, drawing it to the fully closed position needed for adaptation. The wastegate may get warm during this procedure, do not leave it unattended while connected.



For VCDS wastegate adaptation procedure: Proceed to the next page

For OBDeleven wastegate adaptation procedure: Proceed to the [Page 8](#)



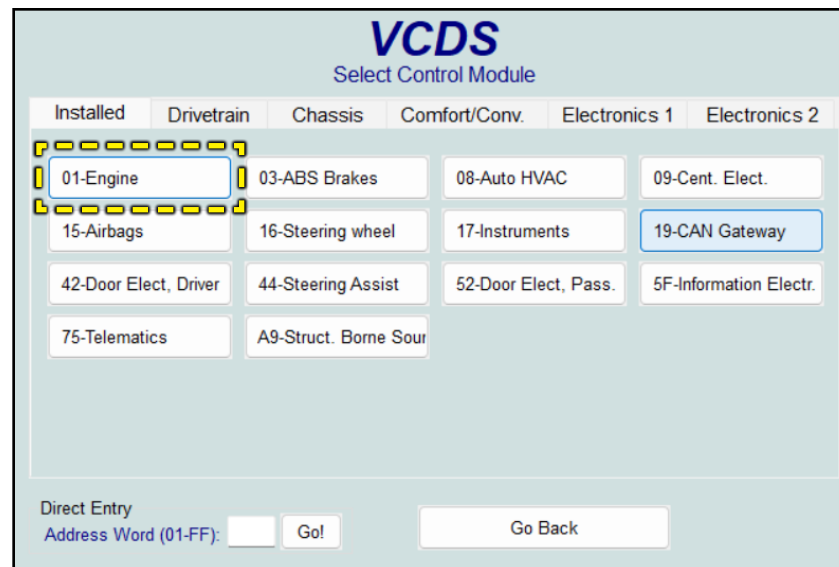
WASTEGATE ADAPTATION - VCDS

Step 1:



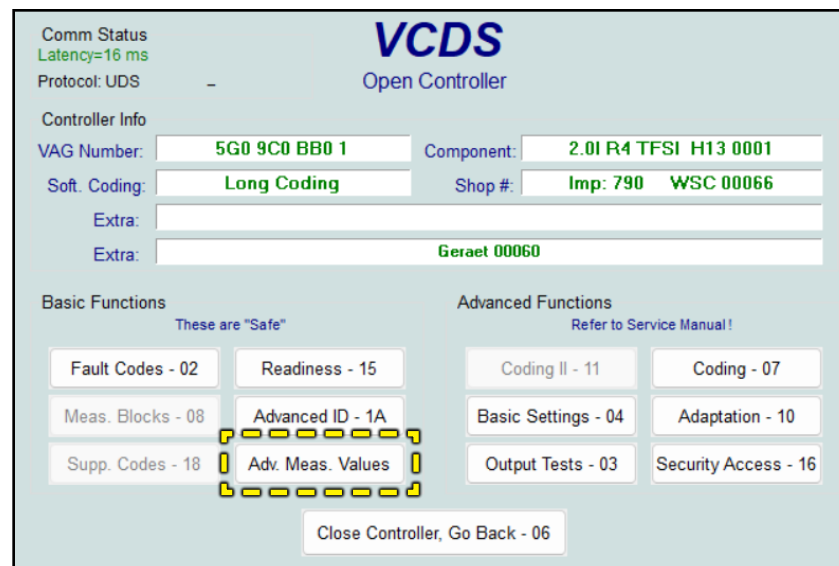
To properly complete the wastegate adaptations for the new turbo, the battery must be put on a battery tender, then the ignition must be switched on. **DO NOT** start the engine at this point.

Connect VCDS to your vehicle and navigate to the "01-engine" control module.



Step 2:

Navigate to the "**Adv. Meas. Values**" tab within the engine control module.



WASTEGATE ADAPTATION - VCDS

Step 3:

Search for the measured value “**Charge air pressure actuator: acknowledgment**” (IDE00396) and select it. The wastegate voltage reading will populate in the second window.

Description	Loc.
☐ Charge air pressure: specified value	IDE00190
☐ Charge air pressure: actual value	IDE00191
☒ Charge air pressure actuator: acknowledgment	IDE00396
☐ Charge air pressure sensor: unconditioned voltage	IDE03276
☐ Charge air pressure actuator: adaptation for upper stop	IDE03935
☐ Charge air pressure control	IDE04002

Sample Rate:

VCDS

Advanced Measuring Values

☐ Bypass Windows Timers
☐ Group UDS requests

L...	Description	Actual
IDE0...	Charge air pressure actuator: acknowledg...	3.691 V

Step 4:

5mm Wrench, 10mm Wrench

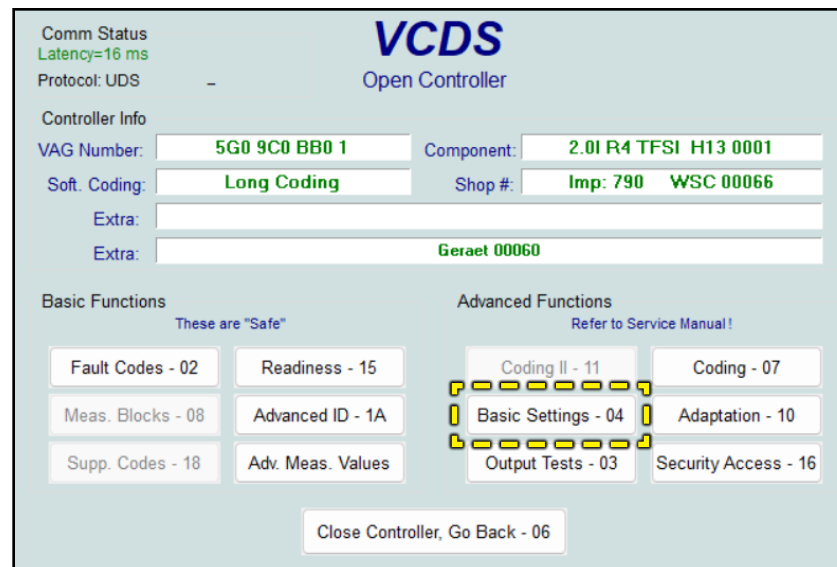
Loosen the jam nut (arrow) on the wastegate actuator rod, then rotate the rod clockwise or counter-clockwise to raise or lower the voltage. Voltage should be set between **3.5-3.9V**. Once properly adjusted, counterhold the rod and tighten the jam nut back down, then click “Done, Go Back” to return to the engine control module.



WASTEGATE ADAPTATION - VCDS

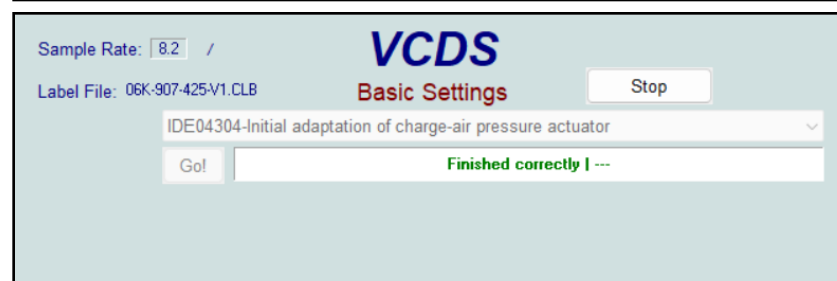
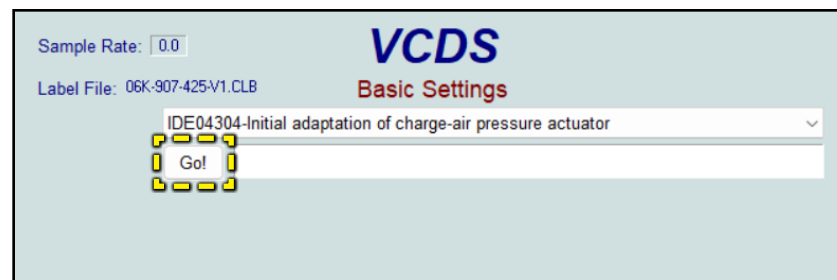
Step 5:

Navigate to the **"Basic Settings"** tab within the engine control module.



Step 6:

From the engine control module, navigate to the **"Basic Settings - 04"** tab, then select **"IDE04304-Initial adaptation of charge-air pressure actuator"** from the drop-down and click **"Go!"**. Assuming the voltage is within the specified range, the basic setting status should change to **"Finished correctly"**. Disconnect and remove the adaptation harness from the vehicle.



Congratulations, Your wastegate adaptation is complete!

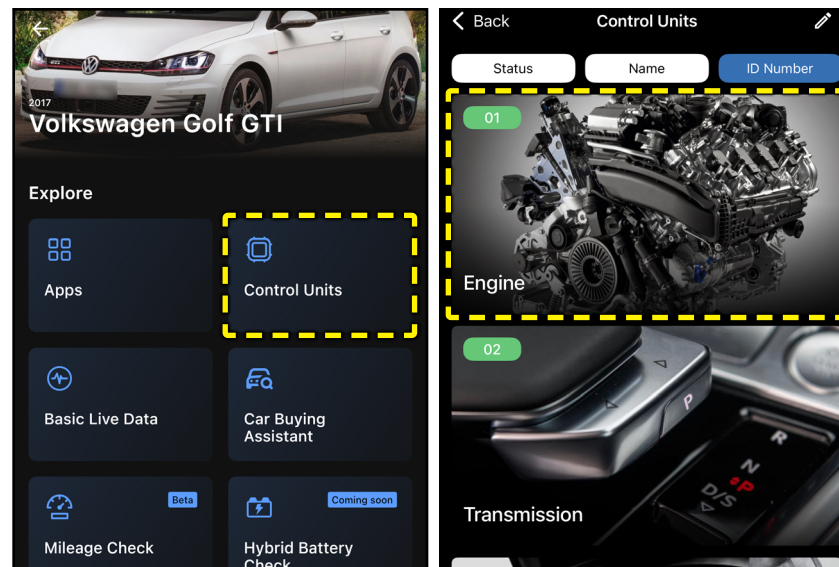
WASTEGATE ADAPTATION - OBDELEVEN

Step 1:



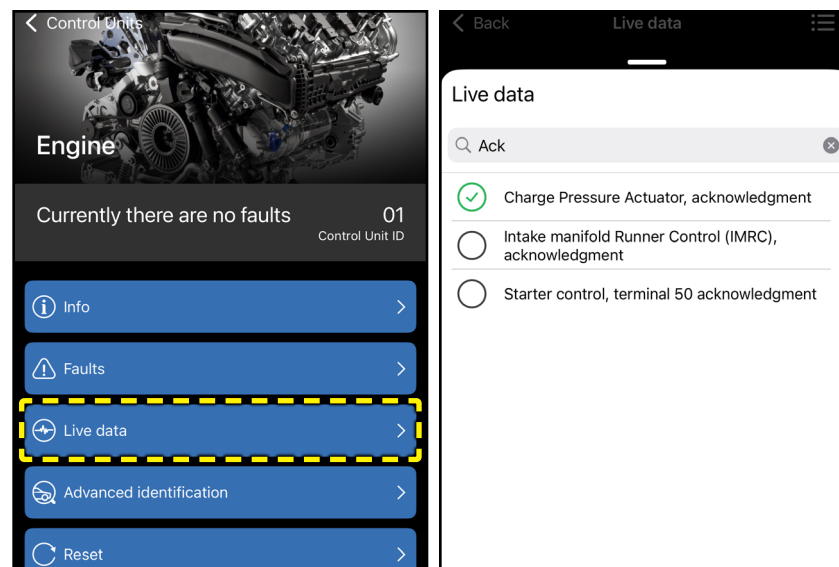
To properly complete the wastegate adaptations for the new turbo, the battery must be put on a battery tender, then the ignition must be switched on. **DO NOT** start the engine at this point.

Open the “**OBDevelen VAG Car diagnostics**” app, connect the OBDeleven device to your vehicle, navigate to the “**Control Units**” tab, then navigate to the “**Engine**” control unit.



Step 2:

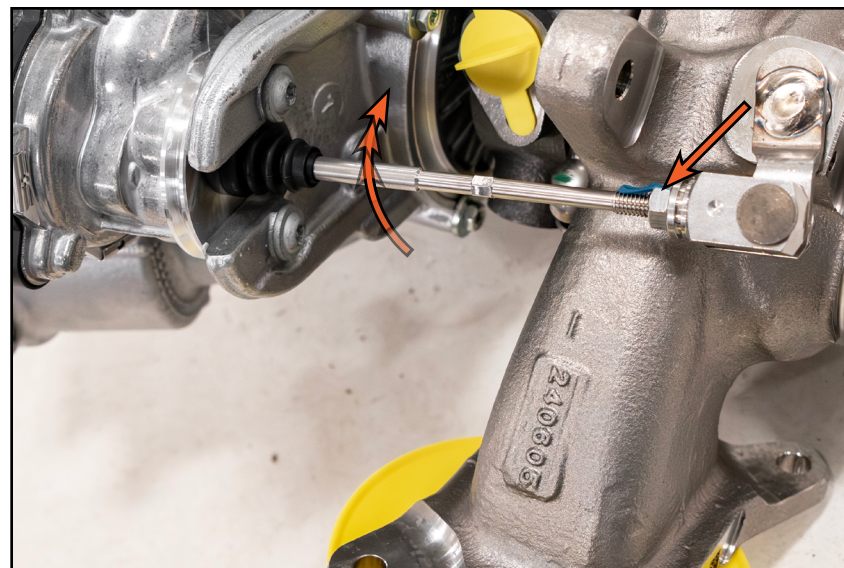
Navigate to the “**Live Data**” tab within the engine control unit, search for “**Charge Pressure Actuator: acknowledgment**” and select it. The wastegate voltage reading will populate on the screen.



WASTEGATE ADAPTATION - OBDELEVEN

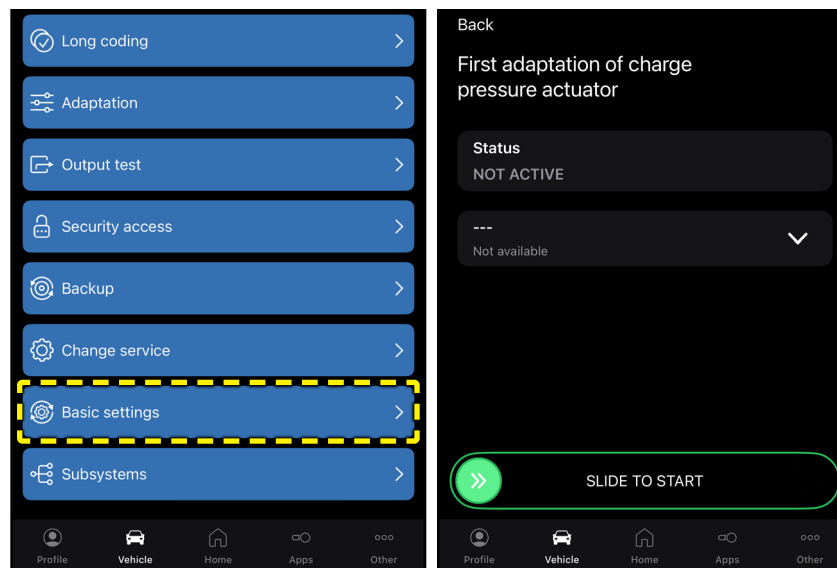
Step 3: 5mm Wrench, 10mm Wrench

Loosen the jam nut (arrow) on the wastegate actuator rod, then rotate the rod clockwise or counter-clockwise to raise or lower the voltage. Voltage should be set between **3.5-3.9V**. Once properly adjusted, counterhold the rod and tighten the jam nut back down, then click "Done, Go Back" to return to the engine control module.



Step 4:

From the engine control unit, navigate to the "**Basic settings**" tab, then select "**First adaptation of charge pressure actuator**" from the drop-down and slide the green arrow to the right to initiate the basic setting. Assuming the voltage is within the specified range, the basic setting should complete successfully. Disconnect and remove the adaptation harness from the vehicle.



Congratulations, Your wastegate adaptation is complete!

Your Wastegate Adaption is complete!



These instructions are provided as a courtesy by ECS Tuning

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