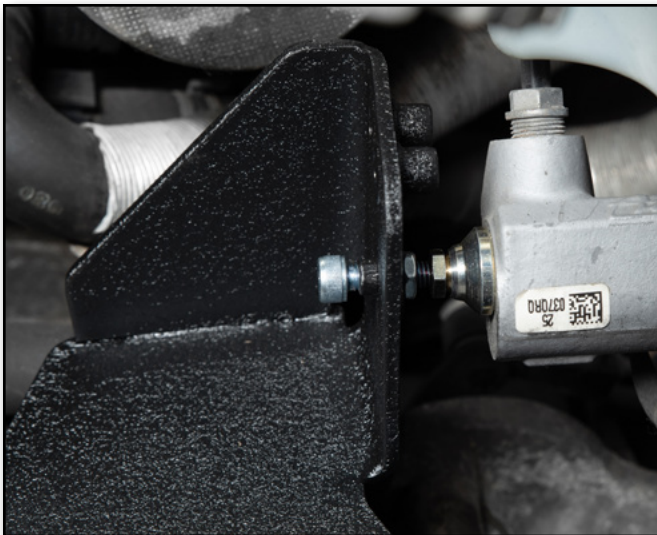
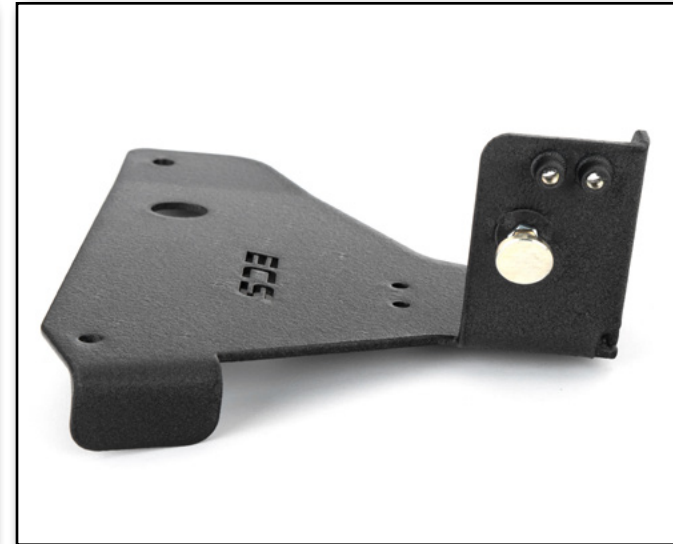




Volkswagen MK5, MK6 Brake Master Cylinder Brace Kit Installation Instructions - [ES4148401](#)



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.

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KIT CONTENTS

x1



Master Cylinder Brace

x1



Battery Tray Bracket

x2



M6x16mm Button Head Screw

REQUIRED TOOLS

Note: The tools required for each step will be listed by the step number throughout these instructions.

Standard Automotive Tools

- Protecta-Sockets (for lug nuts).....[ES#2221243](#)
- **3/8" Drive Ratchet**.....[ES#2765902](#)
- 3/8" Drive Torque Wrench.....[ES#2221245](#)
- **3/8" Drive Deep and Shallow Sockets**.....[ES#2763772](#)
- **3/8" Drive Extensions**.....[ES#2804822](#)
- Hydraulic Floor Jack.....[ES#2834951](#)
- Torx Drivers and Sockets.....[ES#11417/8](#)
- 1/2" Drive Deep and Shallow Sockets.....[ES#2839106](#)
- 1/2" Drive Ratchet
- 1/2" Drive Extensions
- 1/2" Drive Torque Wrench.....[ES#2221244](#)
- 1/2" Drive Breaker Bar.....[ES#2776653](#)
- Bench Mounted Vise
- Crows Foot Wrenches
- Hook and Pick Tool Set.....[ES#2778980](#)

Required For This Install

- **1/4" Drive Ratchet**.....[ES#2823235](#)
- **1/4" Drive Deep and Shallow Sockets**.....[ES#2823235](#)
- **1/4" Drive Extensions**.....[ES#2823235](#)
- Plier and Cutter Set.....[ES#2804496](#)
- Flat and Phillips Screwdrivers.....[ES#2225921](#)
- Jack Stands.....[ES#2763355](#)
- Ball Pein Hammers
- Pry Bar Set.....[ES#1899378](#)
- Electric/Cordless Drill
- Wire Strippers/Crimpers
- Drill Bits
- Punch and Chisel Set
- **Hex Bit (Allen) Wrenches and Sockets**.....[ES#11420](#)
- Thread Repair Tools.....[ES#1306824](#)
- **Open/Boxed End Wrench Set**.....[ES#2765907](#)

Available On Our Website

Specialty Tools

- **Spring Clamp Pliers**.....[ES#2702616](#)
- **VAG Connector Removal Tool**.....[ES#2628676](#)

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 BATTERY TRAY

Step 1: T25 Torx, Spring Clamp Pliers, 10mm & 13mm Sockets

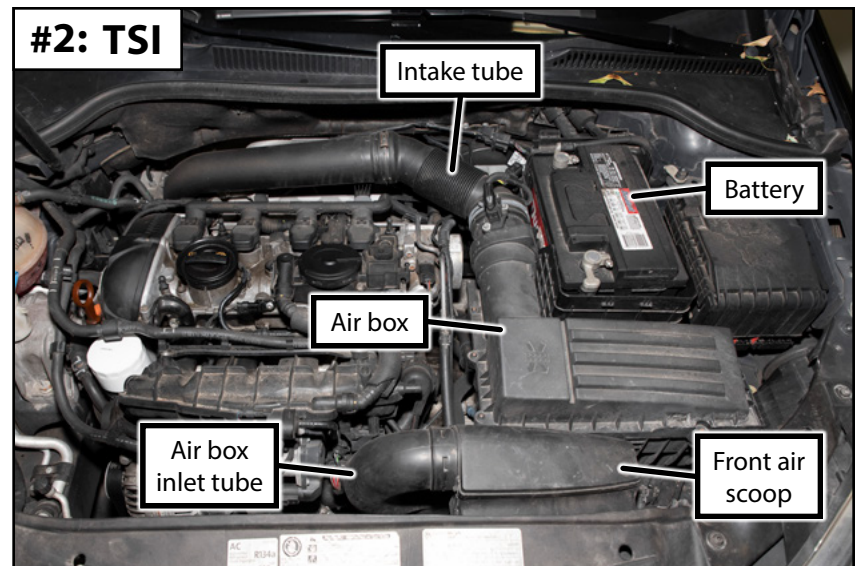
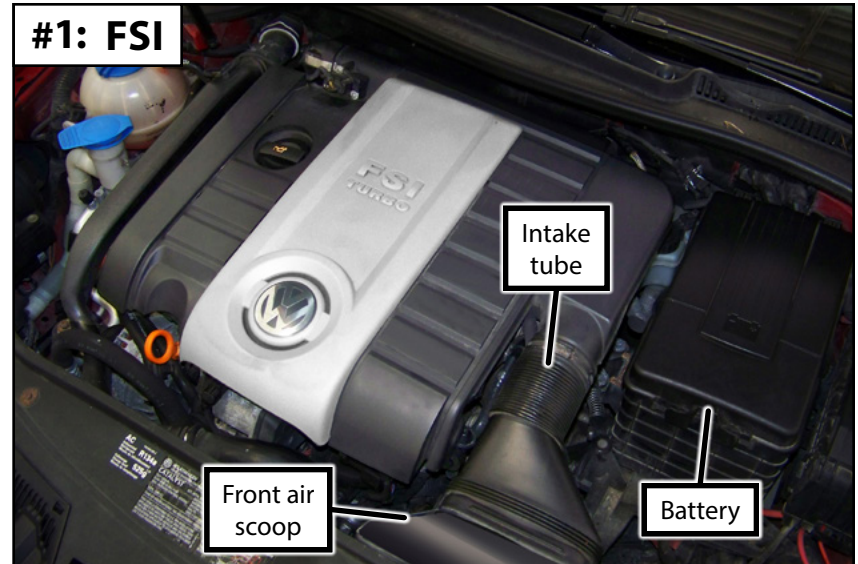
To begin this install we need to disconnect the negative battery terminal, then we'll need to remove a few nearby components to give us the room we need to work.

If your vehicle is equipped with an FSI engine (**Photo #1**) you'll only need to remove the following:

- Intake tube
- Front air scoop
- Battery
- Battery "box" (plastic trim panels surrounding the battery)

If your vehicle is equipped with a TSI engine (**Photo #2**) you'll need to remove the following:

- Intake tube
- Air box inlet tube
- Front air scoop
- Air box
- Battery
- Battery "box" (plastic trim panels surrounding the battery)

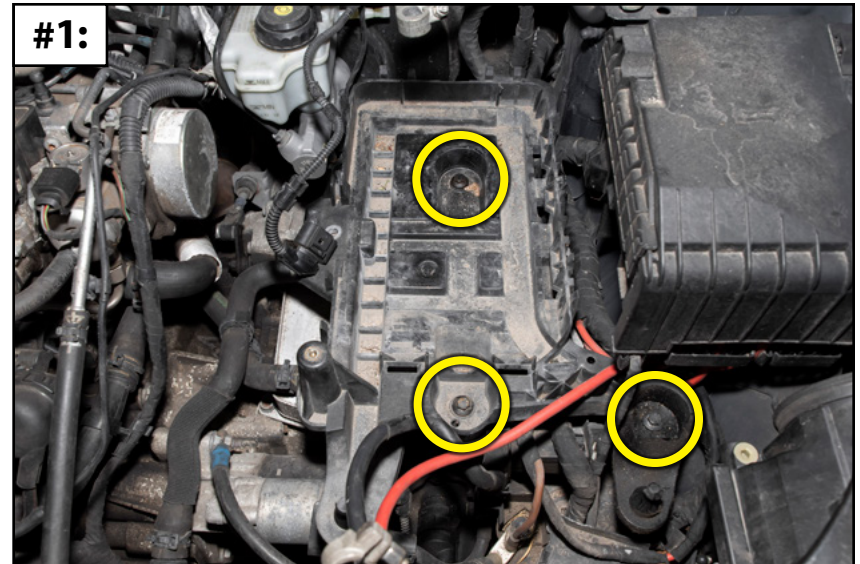


REMOVING THE BATTERY TRAY

Step 2: 10mm Socket & Ratchet

Remove the three bolts which secure the battery tray to the chassis (circled in **YELLOW** in **Photo #1**).

Rotate the battery tray slightly and guide it out of the engine bay as shown (**Photo #2**). Be careful to not snag the fuse box cables with the corner of the battery tray.

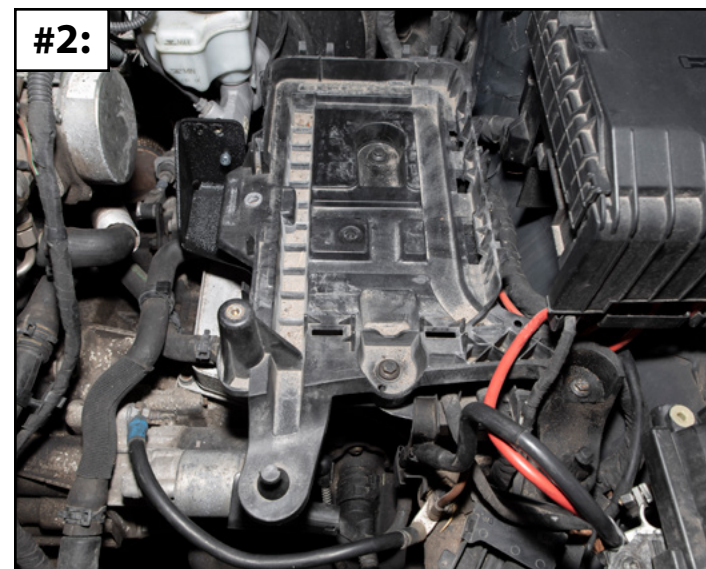
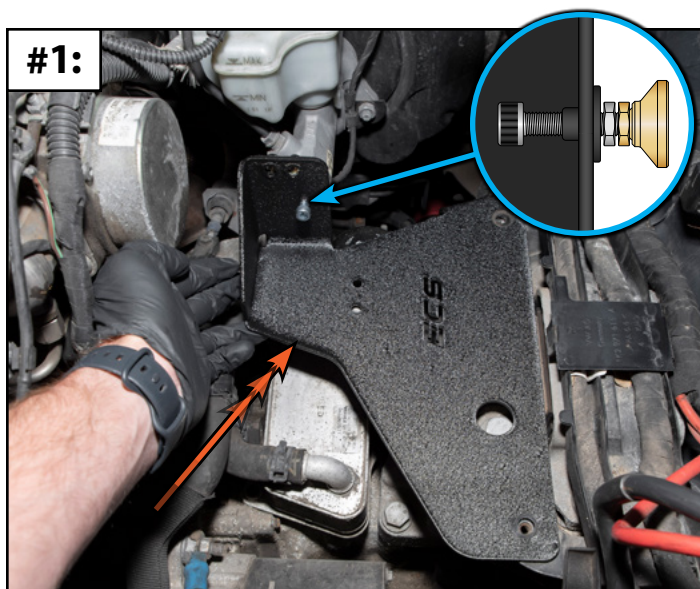


INSTALLING THE MASTER CYLINDER BRACE KIT

Step 1:

Make sure that the adjustment bolt on the new master cylinder brace is completely backed off (see the **BLUE** inset photo in **Photo #1**). Guide the new master cylinder brace into position (**Photo #1**), then install the battery tray on top of the brace using the factory hardware (circled in **YELLOW** in **Photo #2**).

Place the battery into the tray, then loosely install the supplied battery tray bracket (highlighted in **GREEN** in **Photo #3**) on top of the factory battery hold down plate. Tighten down the hardware until snug.



If you have trouble aligning the supplied battery tray bracket, please proceed to the next page for some adjustment tips.



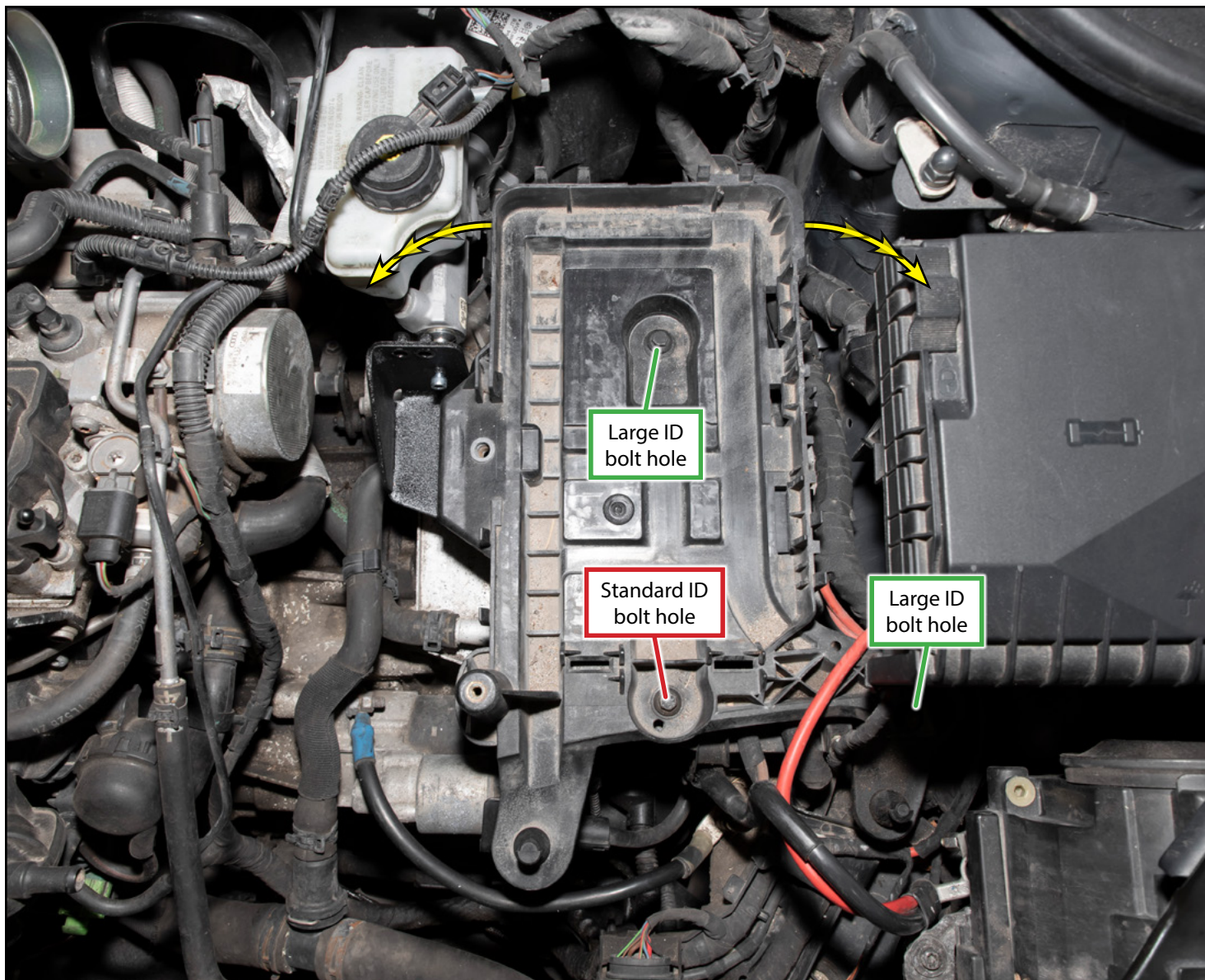
If you had no trouble aligning the supplied battery tray bracket you can skip ahead to [Page 9](#).

REMOVING THE BATTERY TRAY

Step 2:

The battery tray is secured to the chassis with three bolts. The inner diameter (ID) is larger in two of those bolt holes (**GREEN** boxes in the photo on the right). This means that if you back off all three bolts you can rotate the tray slightly side-to-side to fine-tune the fitment (**YELLOW** arrows).

Keep in mind that this will also affect how your air box aligns with the front air scoop, this is especially important if you have an aftermarket intake.

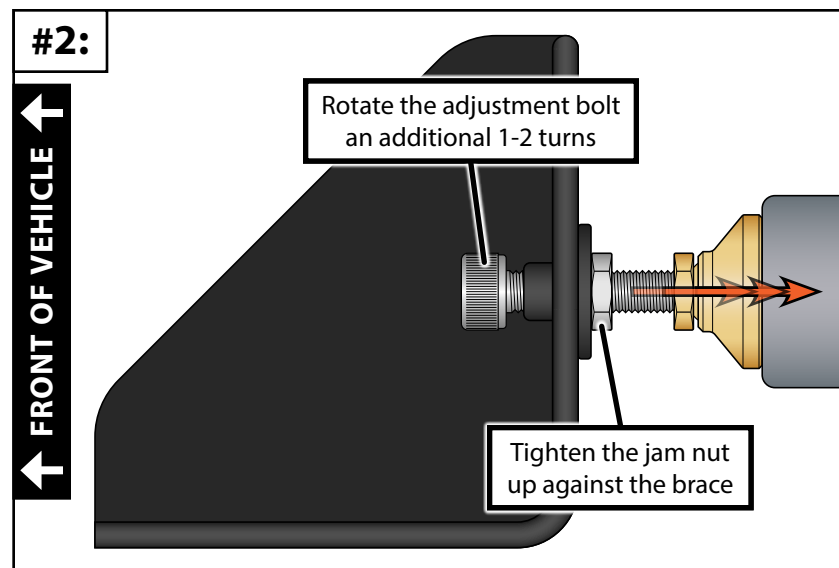
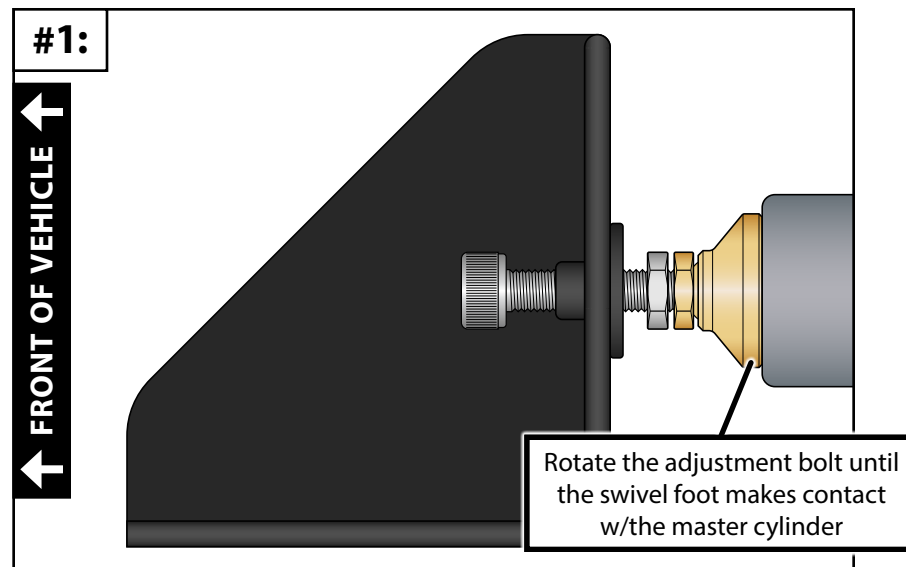


INSTALLING THE MASTER CYLINDER BRACE KIT

Step 3: 5mm Hex (Allen), 10mm Wrench

Thread in the adjustment bolt until it makes contact with the front of the brake master cylinder (**Photo #1**).

Rotate the bolt an additional 1-2 turns to place tension against the master cylinder (**Photo #2**). We don't need to apply a lot of pressure here. Tighten the jam nut up against the master cylinder brace to lock in your adjustment.



REASSEMBLY

Step 1: 5mm Hex (Allen), 10mm Wrench

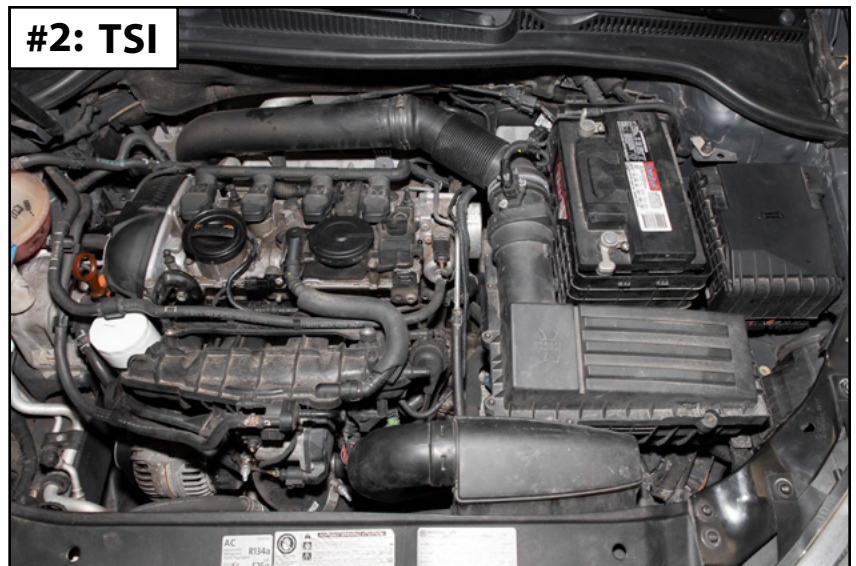
If your vehicle is equipped with an FSI engine (**Photo #1**) you'll only need to reinstall the following:

- Battery "box" (plastic trim panels surrounding the battery)
- Front air scoop
- Intake tube
- Reconnect battery cables

If your vehicle is equipped with a TSI engine (**Photo #2**) you'll need to reinstall the following:

- Battery "box" (plastic trim panels surrounding the battery)
- Air box
- Front air scoop
- Air box inlet tube
- Intake tube
- Reconnect battery cables

Congratulations, your brake master cylinder brace kit installation is now complete!



Your Brake Master Cylinder Brace Kit 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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