



# Install Instructions Billet Power Blocks (BPB)

13+ Subaru BRZ / 13-16 Scion FR-S / 13+ Toyota GT86 / 17+ Toyota 86

## B0400 Parts List

Item #	Qty	Description
B0405	1	Left and Right Side Power Blocks
O0611	4	Power Block O-Ring Seals
B0406	4	Block Standoffs
B0201	4	M8-1.25x50 Bolts for Standoffs between the head and intake manifold
B0202	6	M8-1.25x70 Bolts for Intake Manifold
W0920	6	Washers for Intake Manifold Bolts
B0255	1	Injector Control Unit Grounding Extension Bracket
B2035	1	Bolt for Injector Control Unit Extension Bracket
N0592	1	Nut for Injector Control Unit Extension Bracket
H0470	1	3/8" PCV Hose Extension - 1.75"
F0345	1	3/8" Straight Fitting for Hose
Z0108	4	8" Zip Ties



## Tools Needed:

- 10mm / 12mm / 13mm Sockets
- Ratchet
- Socket Extension
- 10mm Wrench
- Flush Cuts
- Magnet (Optional, but Recommended)

## Step by Step:

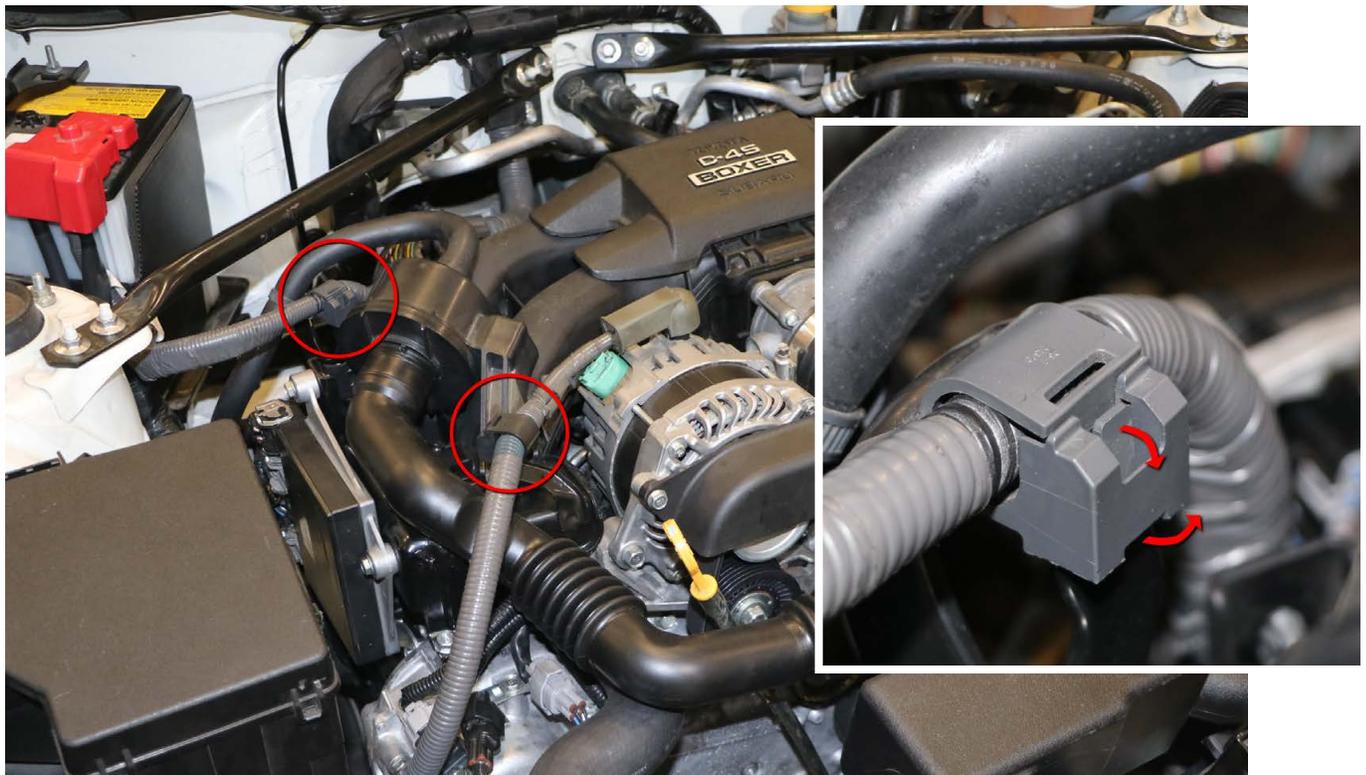
1. Using a 10mm socket or wrench, Disconnect Ground (-) on Battery.



2. Remove Driver's LH fuel rail crash guard by removing the 2 mounting bolts circled below with a 12mm socket and extension. These bolts will not be reinstalled, but we recommend storing them in case you later need to revert your vehicle back to stock. Pull guard off and set aside.



3. Remove Driver's RH fuel rail crash guard/injector control unit, located on the US passenger side of the intake manifold.
  - a. Disconnect 2 connectors on the wire harness wrapped in gray, circled below. Pull down on tab, then flip up cover.



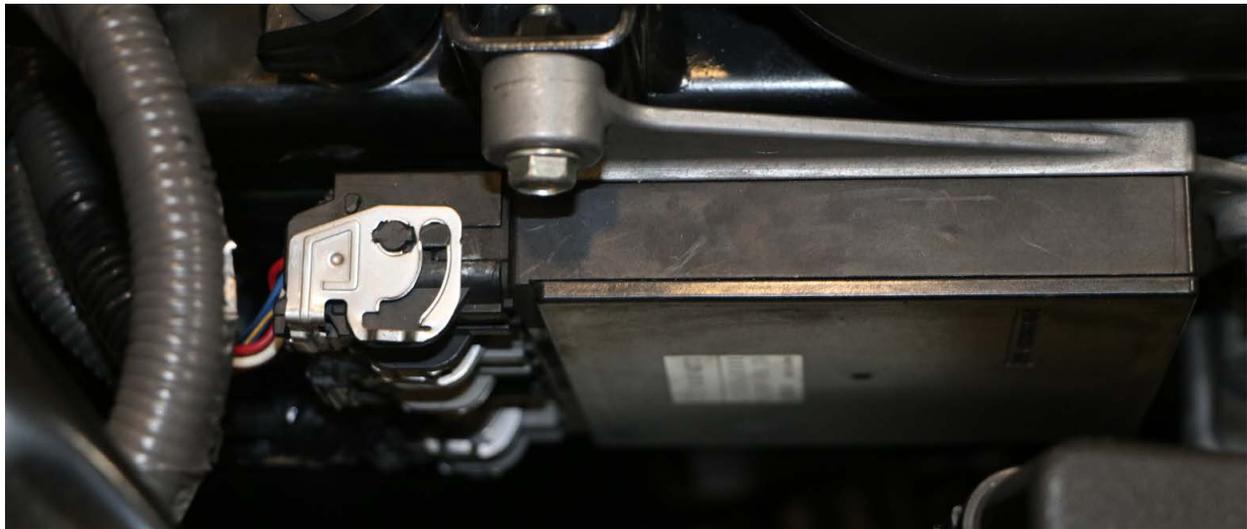
b. Using a 10mm socket, remove 2 bolts circled below from the sound generator.



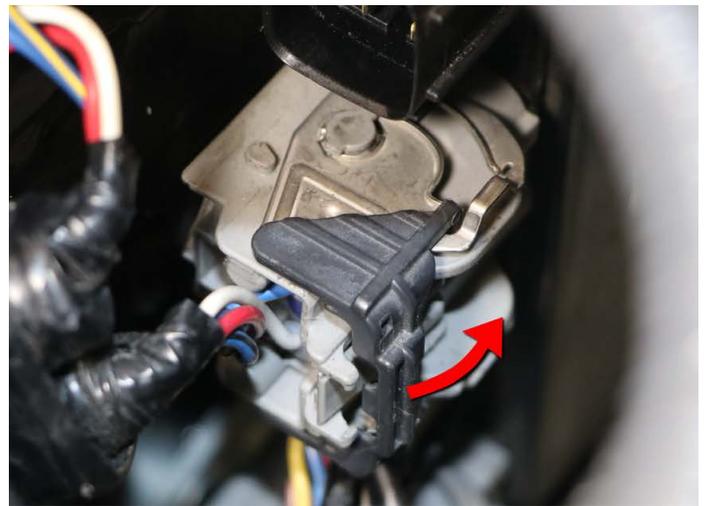
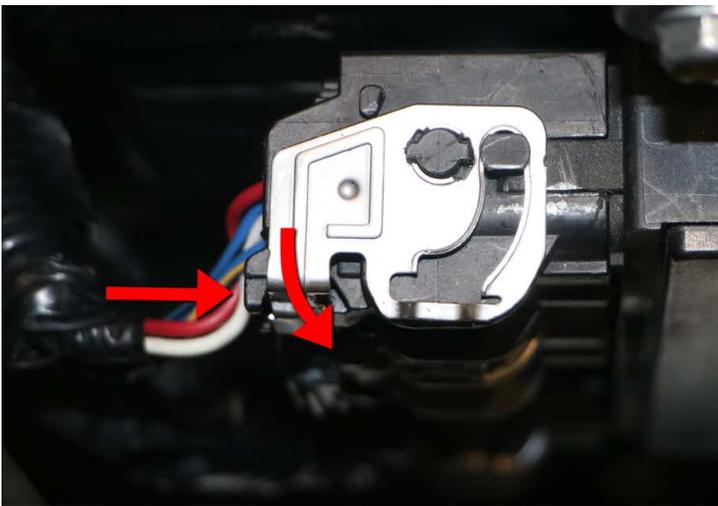
c. Pull tube off Sound Generator.



d. Locate and disconnect 4 plugs from the Injector Control Unit, pictured below. Each plug has a unique way to release.



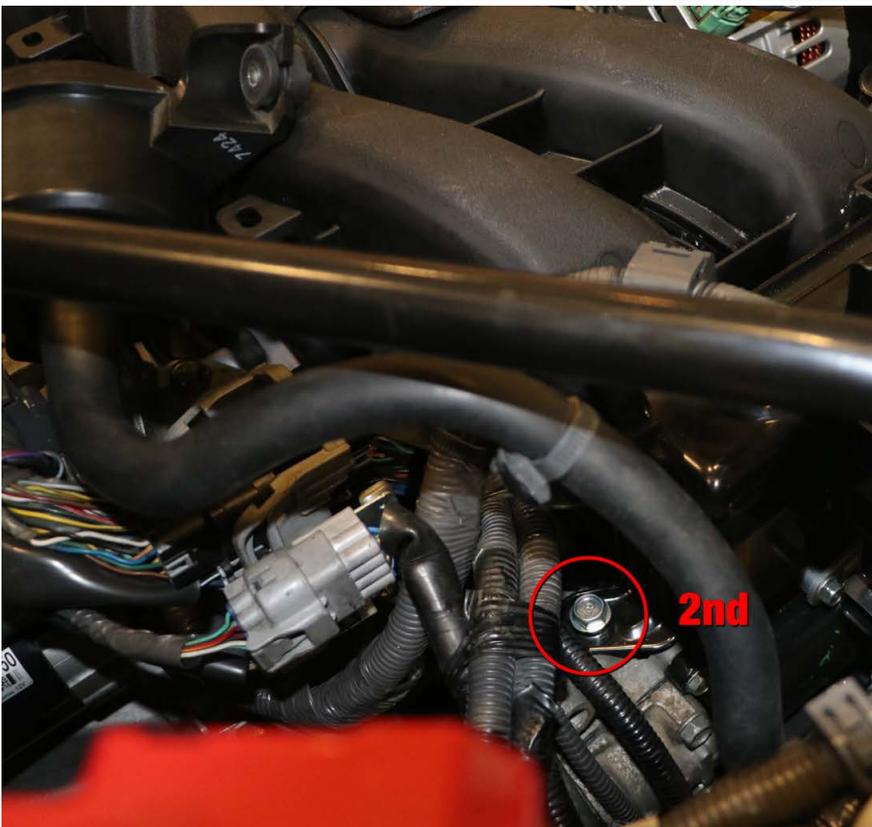
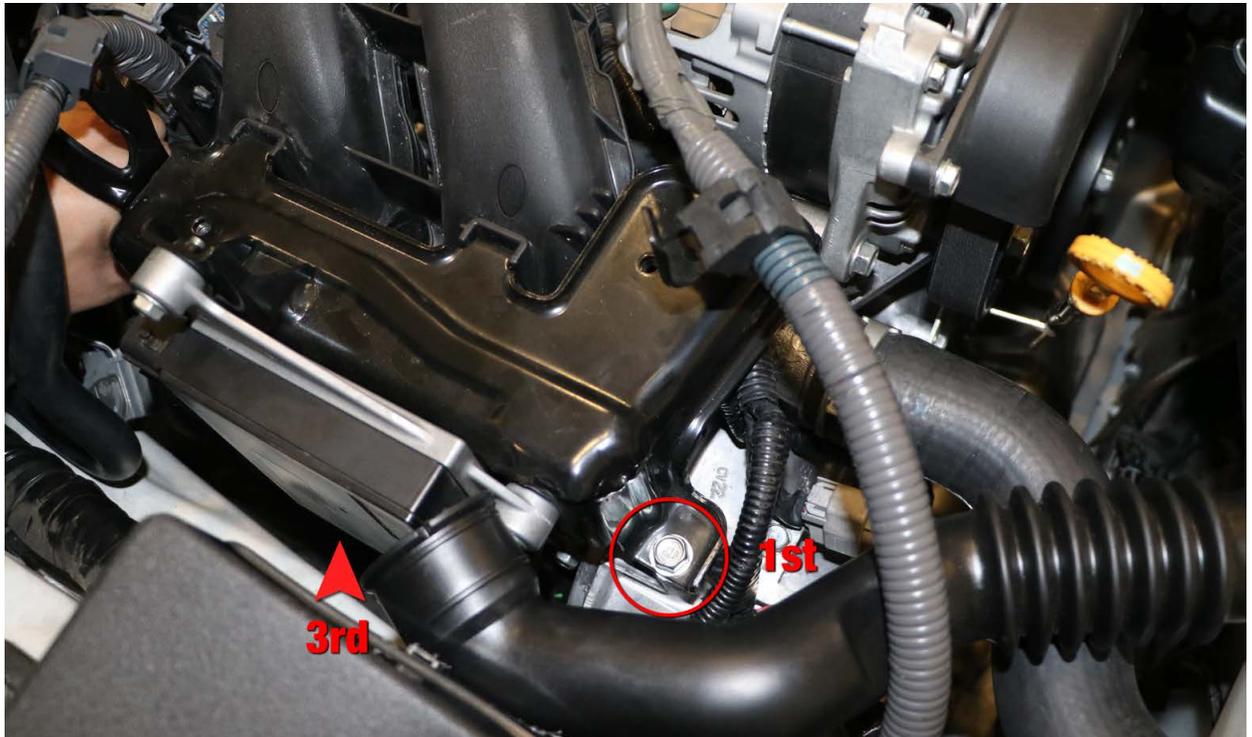
For the first plug, push in tab and rotate silver cover open. For the 2nd, rotate plastic cover open.



For the 3rd, push in tab and pull off. For the 4th, rotate plastic cover just like the 2nd plug.



e. Using a 12mm socket with extension, remove the 2 crash guard/injector control unit mounting bolts on top, and using a 10mm socket remove the bottom (3rd) bolt. This bottom bolt will be the only bolt reused, and we recommend storing the other 2 in case you need to later revert your vehicle back to stock.

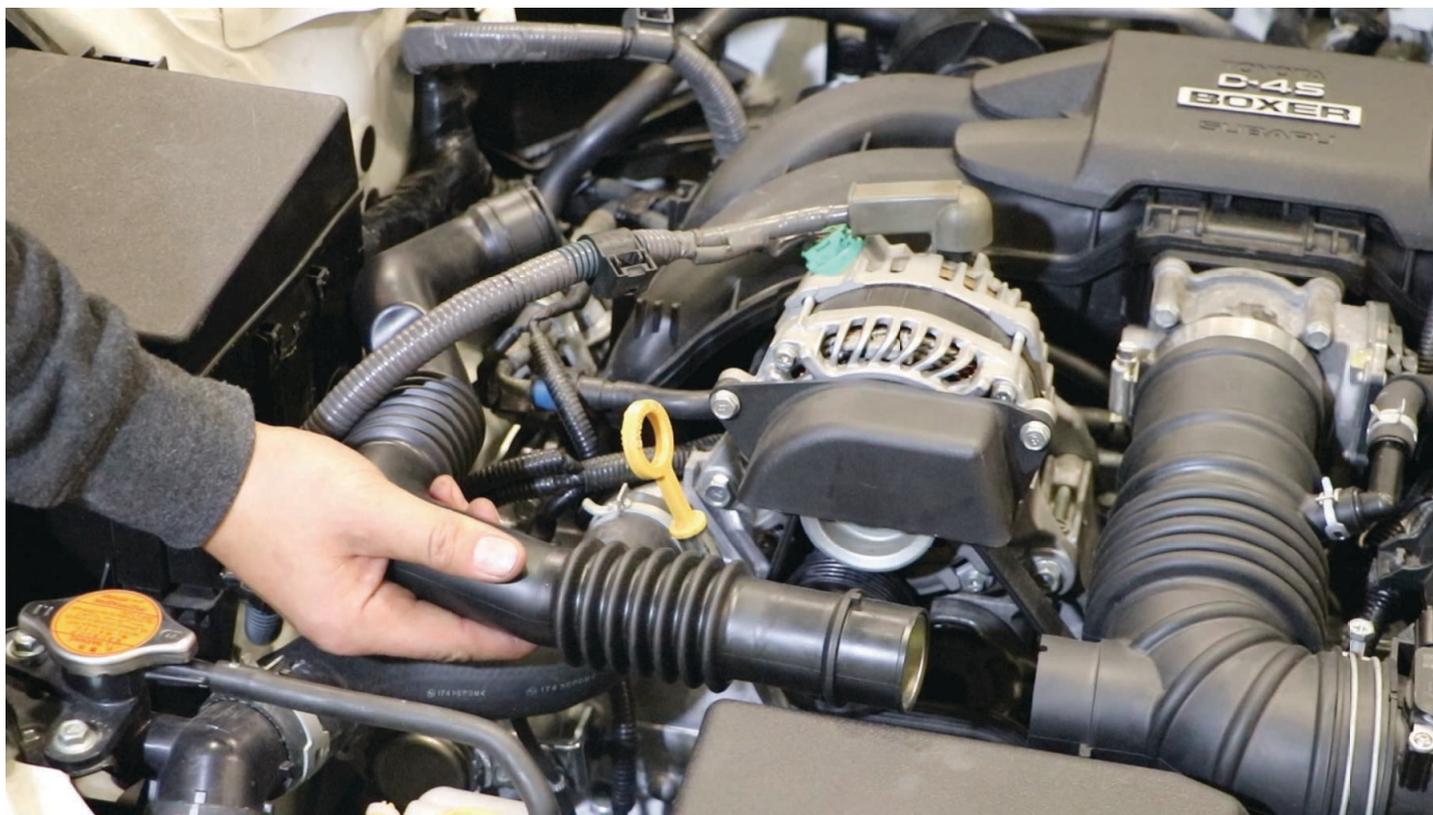


f. On the black hose by the strut brace where there is a grey plastic band, push in tabs shown and release the hose from the crash guard tab.



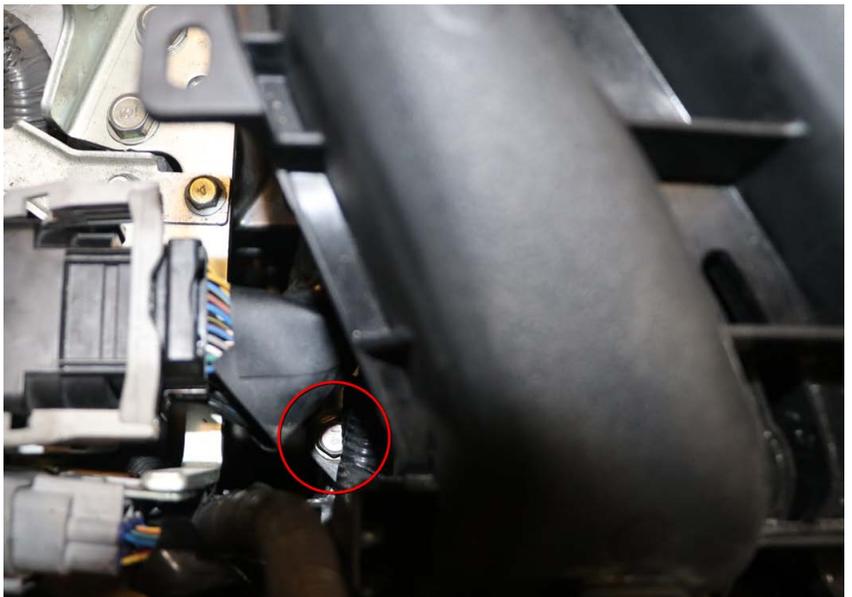
g. Pull out crash guard/injector control unit, set aside.

4. Remove Sound Generator to Intake tube.

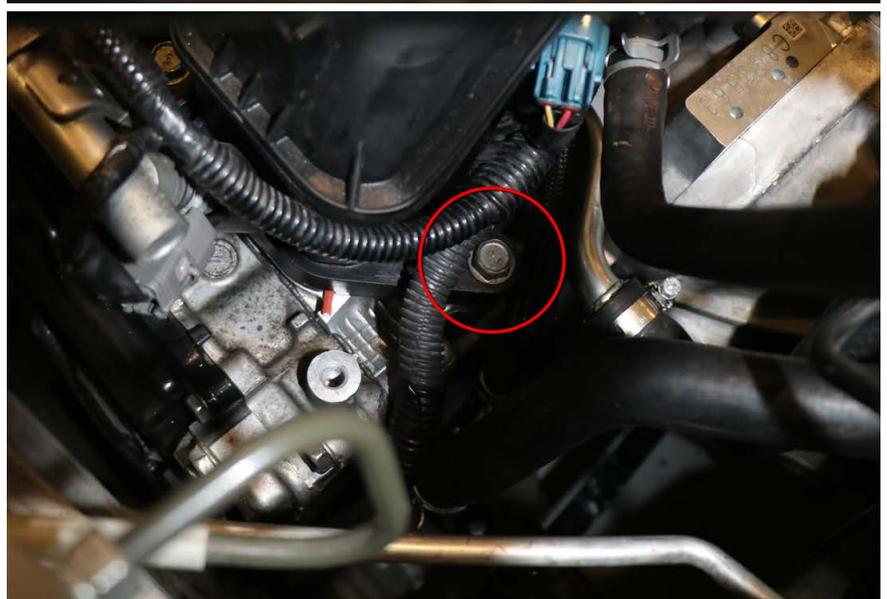
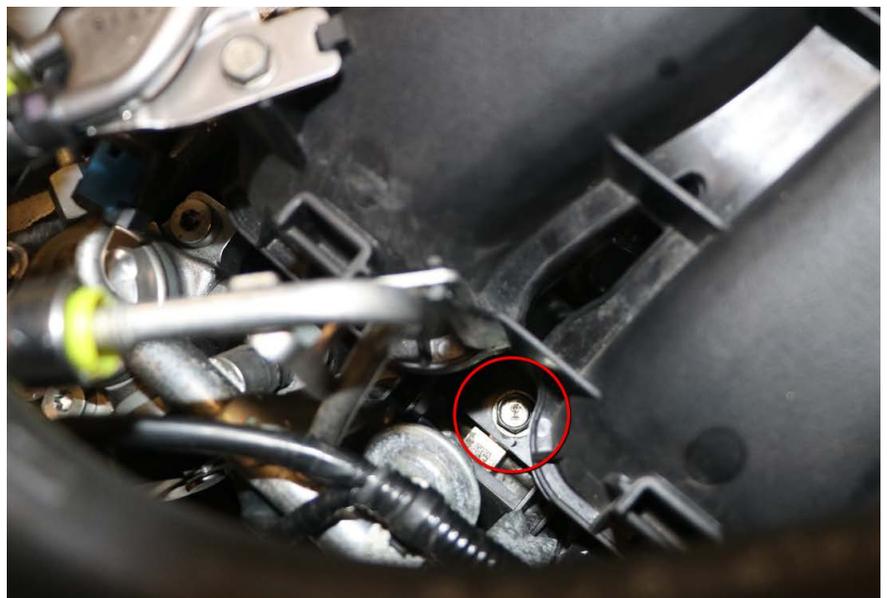
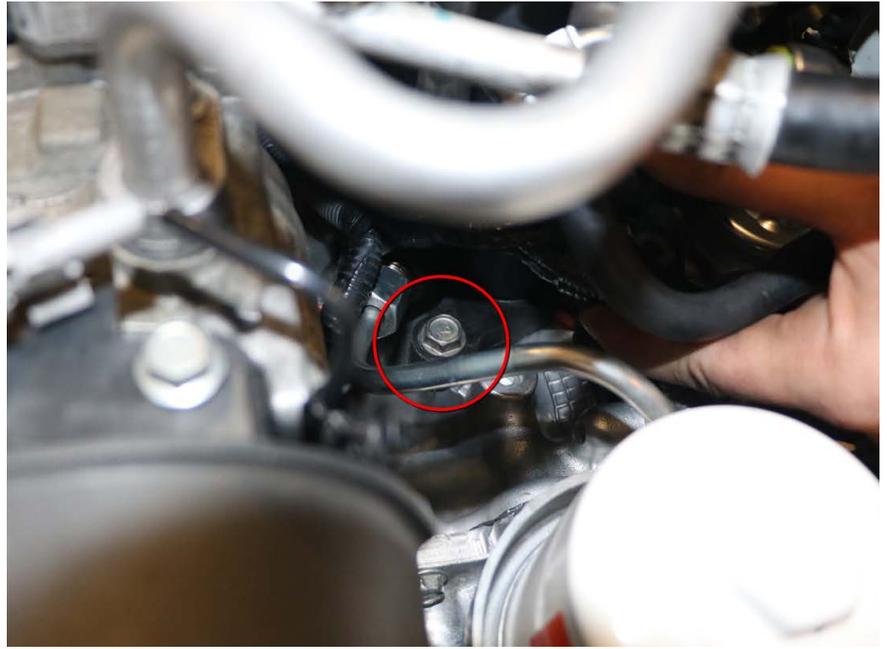


5. Using a 12mm socket with extension, remove 6 Intake Manifold bolts. Use a magnet so that you do not lose your bolts. These will not be reinstalled, but we recommend storing them in case you need to revert back to stock.

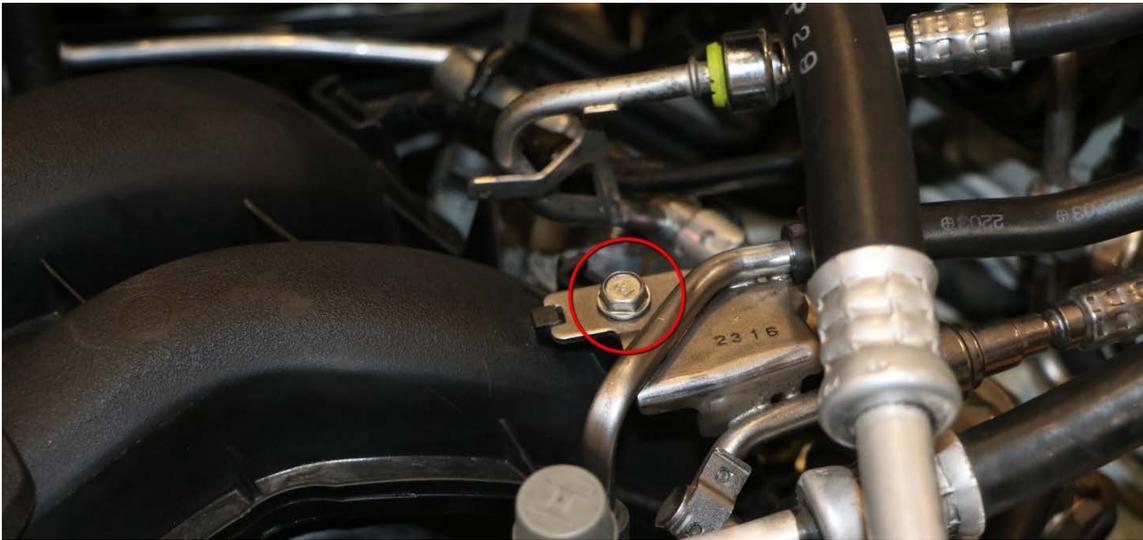
a. Remove 3 bolts circled from Driver's RH Side



**b.** Remove 3 bolts circled from Driver's LH Side



- Using a 10mm socket or wrench, remove the silver bracket on the top of the Driver's LH side of the Intake Manifold.



- Insert 4 supplied O-Rings into the grooves on the bottom of each block.



- Lift up intake manifold and slide under each corresponding block, seal side down. The stickers point toward the front of the vehicle. Do this step quickly as to not leave your cylinder heads open to contaminants.

**\*\*\*Your orange OEM Intake Manifold Gaskets are reusable if still in good condition. Inspect the gaskets to check if they need replaced while the manifold is disconnected. If so, replacement sets are available on our site or at your local Subaru dealership. If you finish your install and get CEL code P050A, this is most likely the cause.**

9. Place supplied washers on the 6 supplied 70mm bolts, and place each bolt through the intake manifold and BPB's. Using a 13mm socket, tighten all 6 bolts loosely, then go back and torque the bolts to OEM spec.
10. In the position of the 3rd bolt from step 3e, attach the supplied bracket\*\* and nut, with the OEM bolt you saved from step 3e, to the bottom of the Injector Control Unit.



**\*\*VERY IMPORTANT:** This bracket MUST be installed in order to ground the Injector Control Unit. Without it, your vehicle will not be operational.

11. Replace Driver's RH crash guard/injector control unit. Underneath the front and rear mounting tabs, place 2 supplied standoffs. Insert 2 supplied 50mm bolts thru the crash guard and standoffs into the block.
12. Place the supplied small bolt thru the bracket underneath the Injector control unit. Tighten with a 10mm socket, ratchet, and extension to the OEM torque spec.
13. Using a 12mm socket, ratchet, and extension, tighten the top 2 12mm bolts to OEM torque spec.
14. Replace the Driver's LH crash guard. Place 2 supplied standoffs underneath the front and rear mounting tabs, and insert 2 supplied 50mm bolts thru the tabs and the standoffs into the block. Tighten using a 12mm socket to OEM torque spec.



15. Locate the PCV hoses going in to the top of the intake manifold from behind it, close to the firewall. When the Intake manifold was lifted, the PCV hose going in to the top of the intake manifold from the top of the block most likely disconnected from the block. Insert the supplied straight fitting on the open end, and attach the supplied hose extension to the other end. Zip tie both ends to secure the hoses to the straight fitting, and reattach the PCV hose to the block.



16. Using a 10mm socket or wrench, replace the silver bracket on top of the Driver's LH side of the intake manifold. Refer to Step 6.
17. Plug back in all 4 Injector Control Unit Plugs. Refer to Step 3d.
18. Reattach the sound generator by replacing the 2 bolts, and tightening using a 10mm socket. Refer to Step 3b.
19. Replace Sound Generator tube. Refer to Steps 3c and 4.
20. Re-clip harness to crash guard tabs. Refer to Step 3a.
21. Reattach black hose to crash guard tab. Refer to step 3f.
22. Reconnect Battery, startup to check for any leaks, and enjoy the gains!

#### **Common Startup Issues:**

- *Rough Idle:* Grounding Bracket was not installed from Step 10.
- *CEL Code P050A:* Intake Manifold Gasket Leak, replace with New OEM gaskets available on our site or at your local Subaru Dealership. (Crawford Part #: G0406) (Subaru Part #: 14035AA610)

If you have any questions, feel free to email us at [technical@crawfordperformance.com](mailto:technical@crawfordperformance.com) or give us a call at 855-67-SUBIE (78243)

Thank you for choosing Crawford Performance!