



## 05-07 LGT / OXT install instructions



Rough Draft

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## FFBT parts:

- (1) Ethanol Content Analyzer Module
- (1) Ethanol Content Analyzer Sensor
- (1) Sensor Bracket
- (1) Velcro Strip
- (3) Small Stainless Steel Bolts
- (3) Small Stainless Steel Washers
- (3) Small Stainless Steel Lock Nut
- (2) Fuel Lines

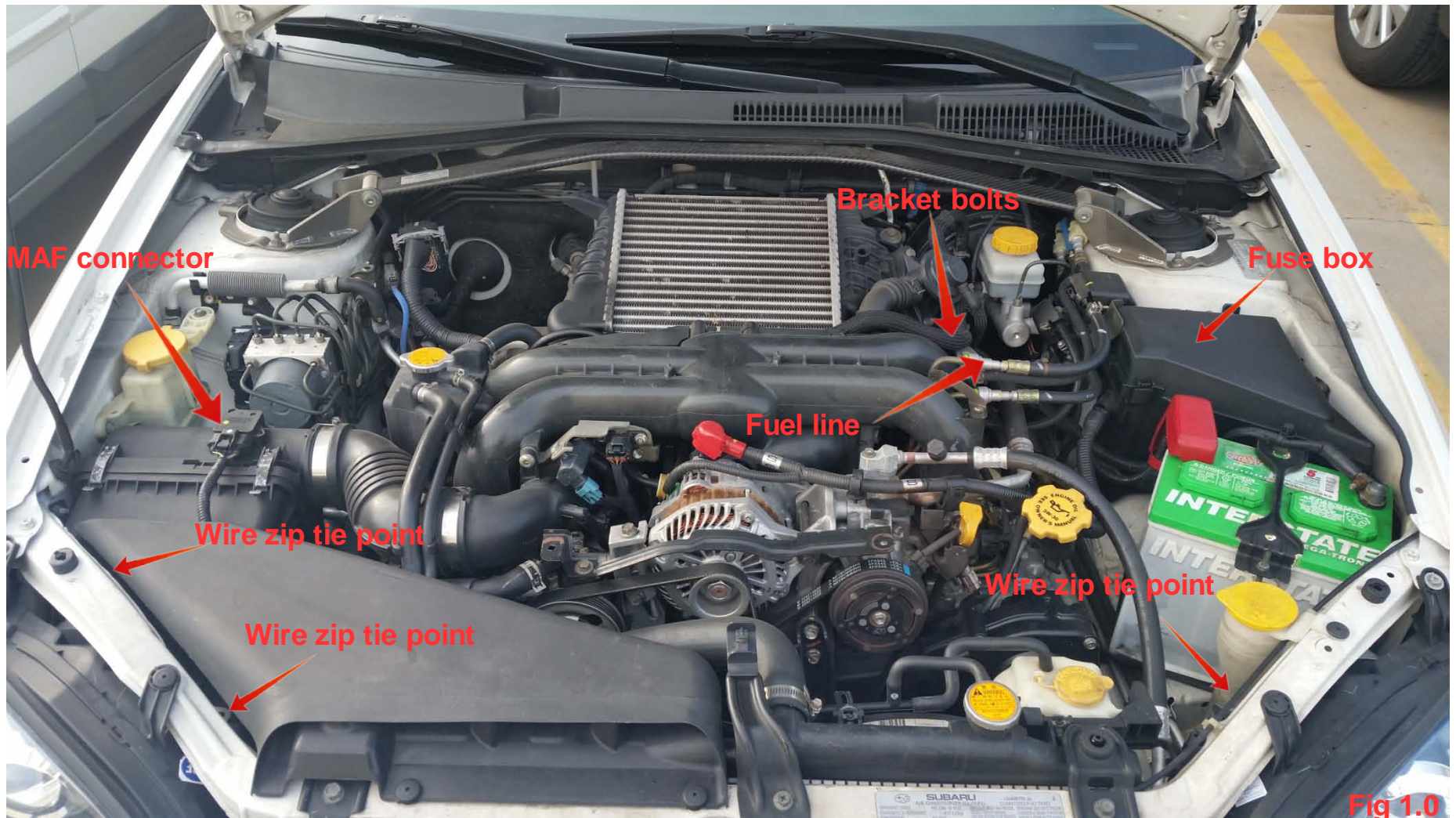
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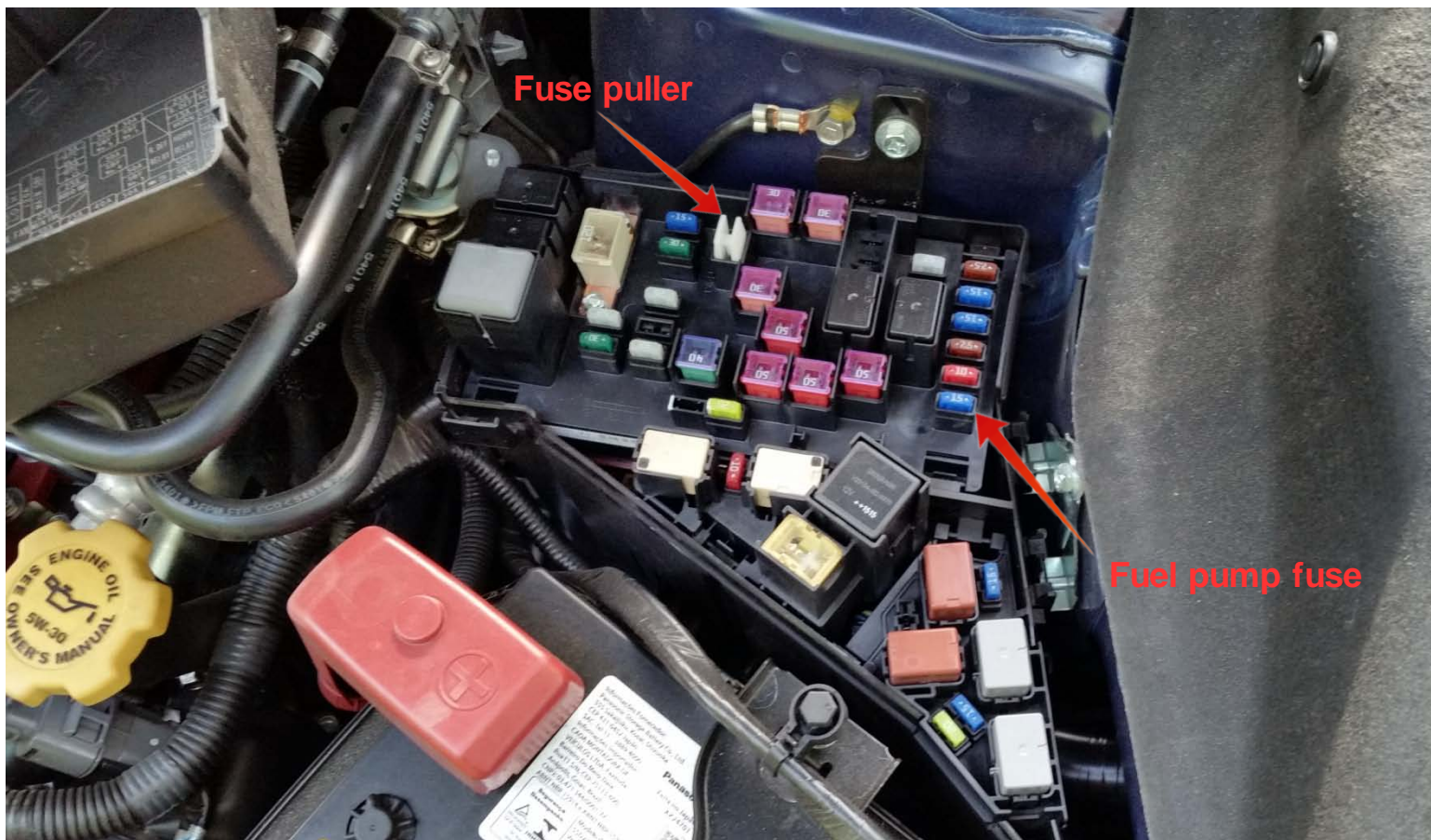
### Tools required for installation:

- (1) 14mm Wrench or Socket
- (1) 13mm Wrench or Socket
- (1) 12mm Wrench or Socket
- (1) 10mm Wrench or Socket
- (1) Phillips Head Screwdriver
- (1) 5mm Allen Wrench
- (2) Shop Towels
- (3) Zip Ties



**Fig 1.0****Working areas:**

Locate the areas you will be working with when installing the FFBT in the engine bay.



### **Fuse and fuel pressure:**

Ensure the vehicle is off and disconnect the blue 15 amp fuel pump fuse, in the main fuse box. It's labeled F/PMP on back of the box cover.

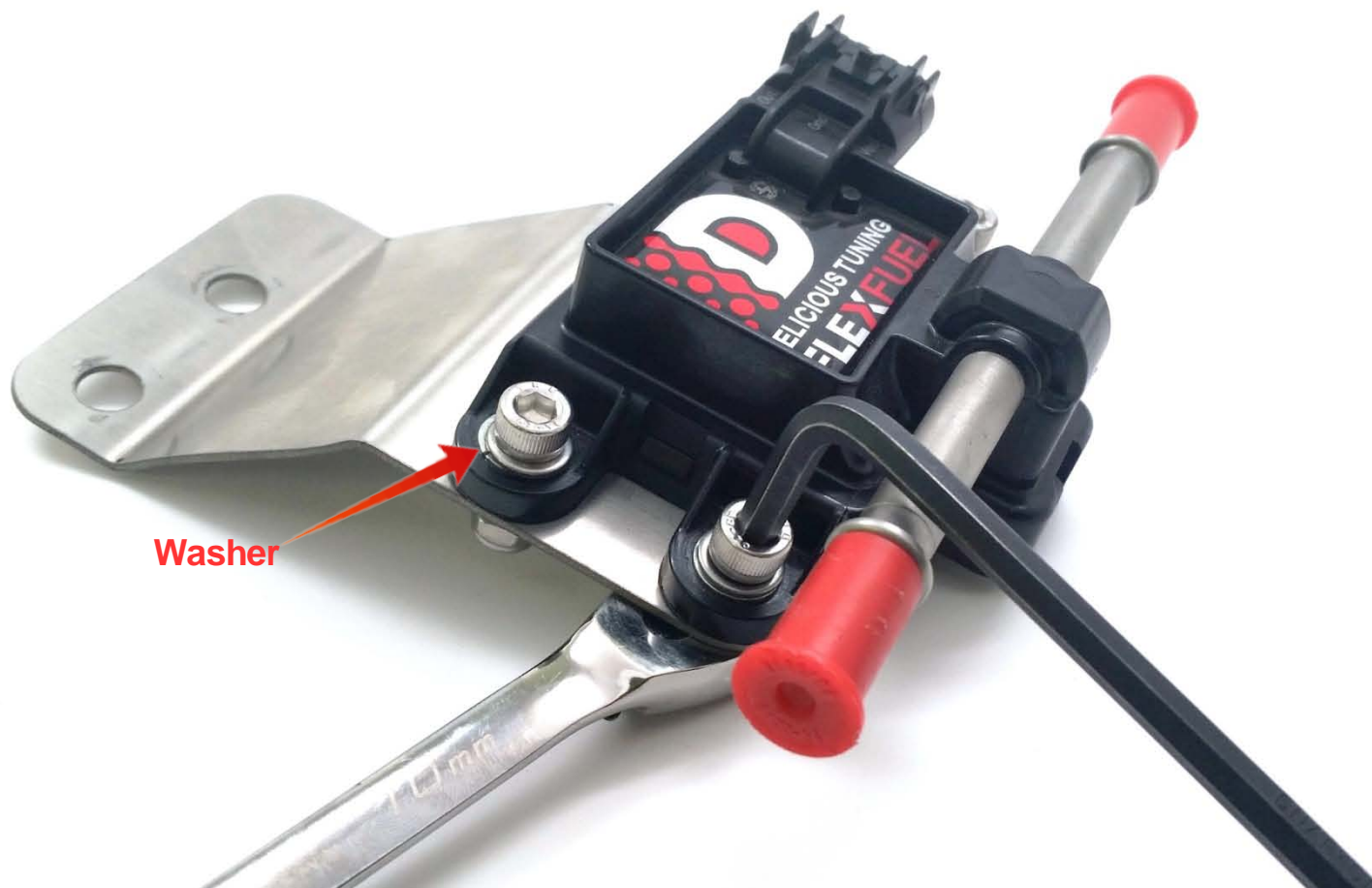
Now try starting the vehicle; it should either refuse to start or start and die once the remaining fuel is used up in the fuel lines.

If the car was running recently, let the vehicle sit for a minimum of 30 minutes to relieve fuel pressure and cool before installation.



**Fuse Box:**

Cover the fuse box, as you don't want the chance of fuel or foreign objects getting inside. Put the pulled fuel pump fuse and puller in a safe place.

**ECA sensor bracket:**

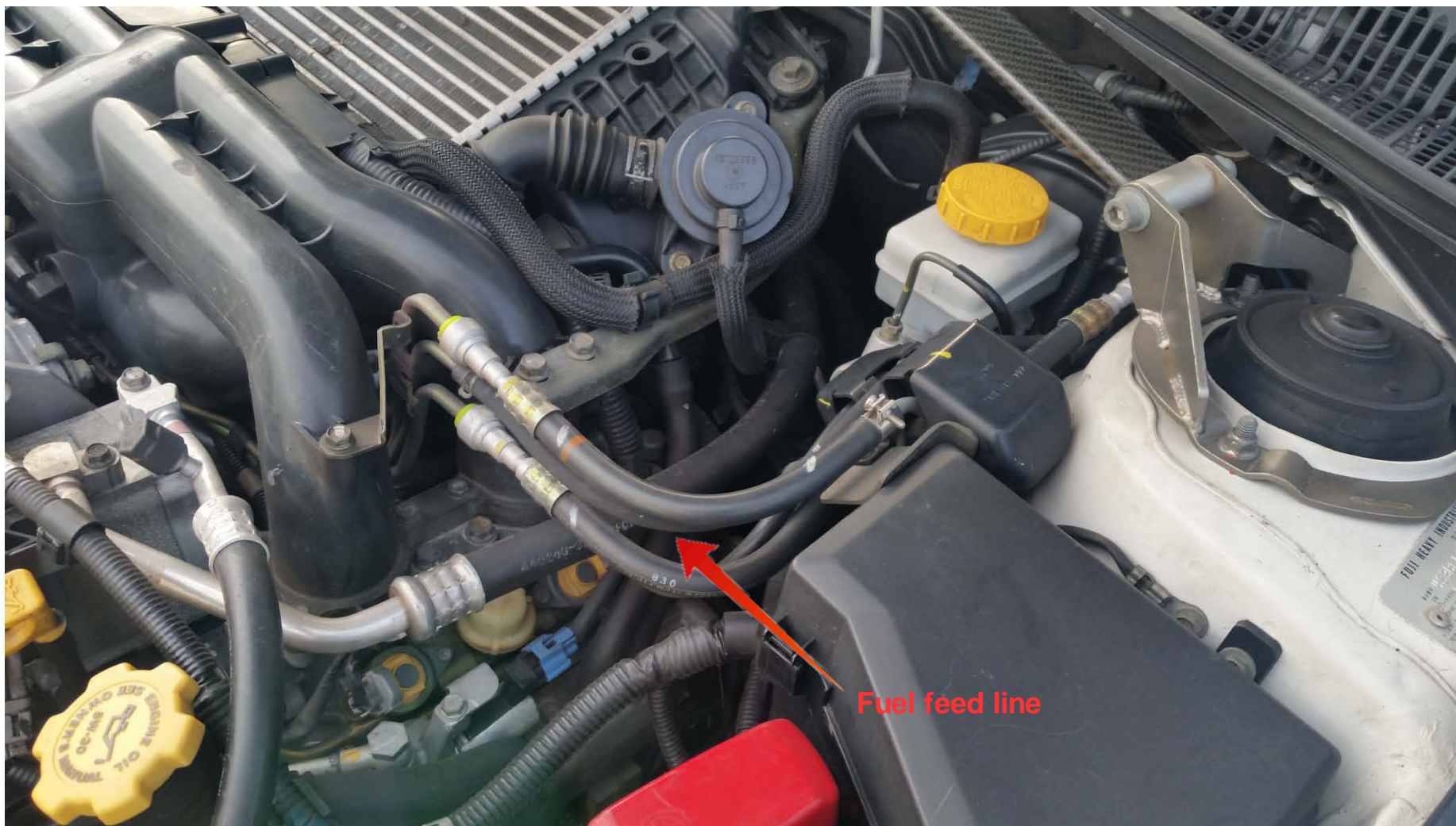
Use the supplied three bolts, locknuts and washers to attach the FlexFuel Sensor to the mounting bracket, as shown in the picture above, using a 5mm allen wrench and 10mm wrench or ratchet. Note, washers go in between the head of the bolt and top of ECA sensor holes. Tighten bolts snugly.



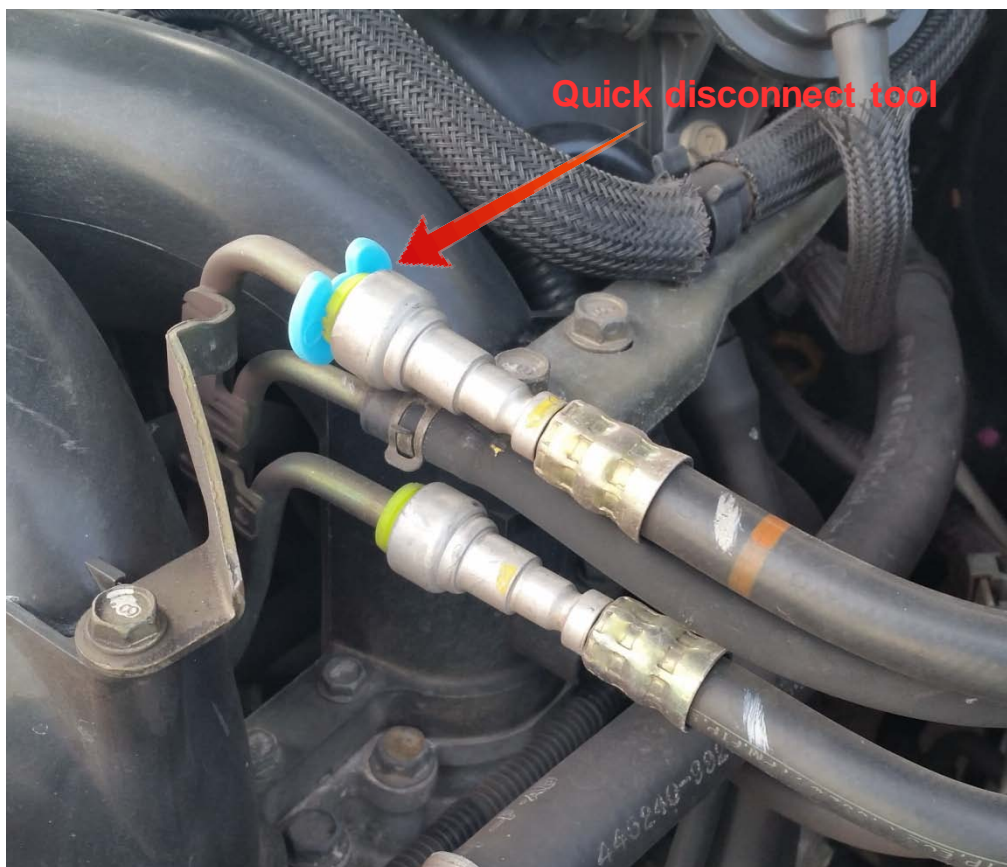
### **ECA sensor bracket assembly:**

The completed ECA sensor bracket assembly should look the same as the picture shown above. Set aside for now, as the next steps involve fuel line removal.



**Fuel lines:**

Locate the fuel feed line on the left side of the vehicle near the intake manifold. It is the upper most fuel line. This is the line that will be disconnected.



### **Fuel line disconnection:**

Disconnect the fuel line with the supplied 5/16 quick disconnect tool, by pressing the tool inside the yellow plastic fitting on the OEM connection. Now lightly press the fuel line towards the quick disconnect tool to engage the tool and pull away the line to release it from the hard line. Use a shop towel to cover the line and another under the line to catch any lost fuel. **\*\*\*Caution\*\*\*** Take great care when removing the line, as there still may be high pressure fuel in the line. If you pull slowly the pressure will release slowly and should not spray fuel.



**Bracket bolt removal:**

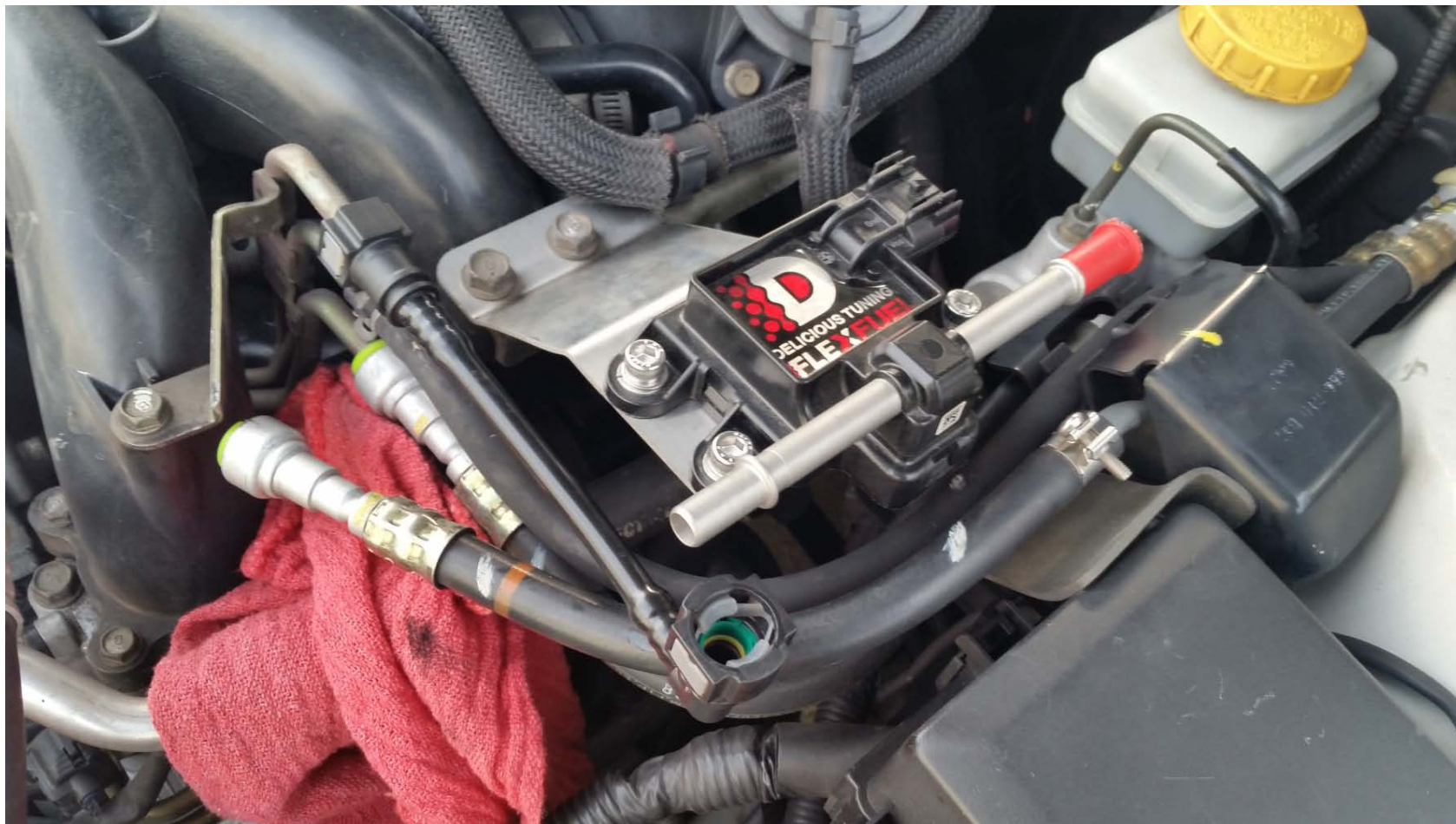
Remove the two bolts holding on the intercooler bracket with a 12mm wrench or ratchet. Set aside the bolts for storage as they will be replaced by new supplied bolts that come in the kit.





### **Bracket installation:**

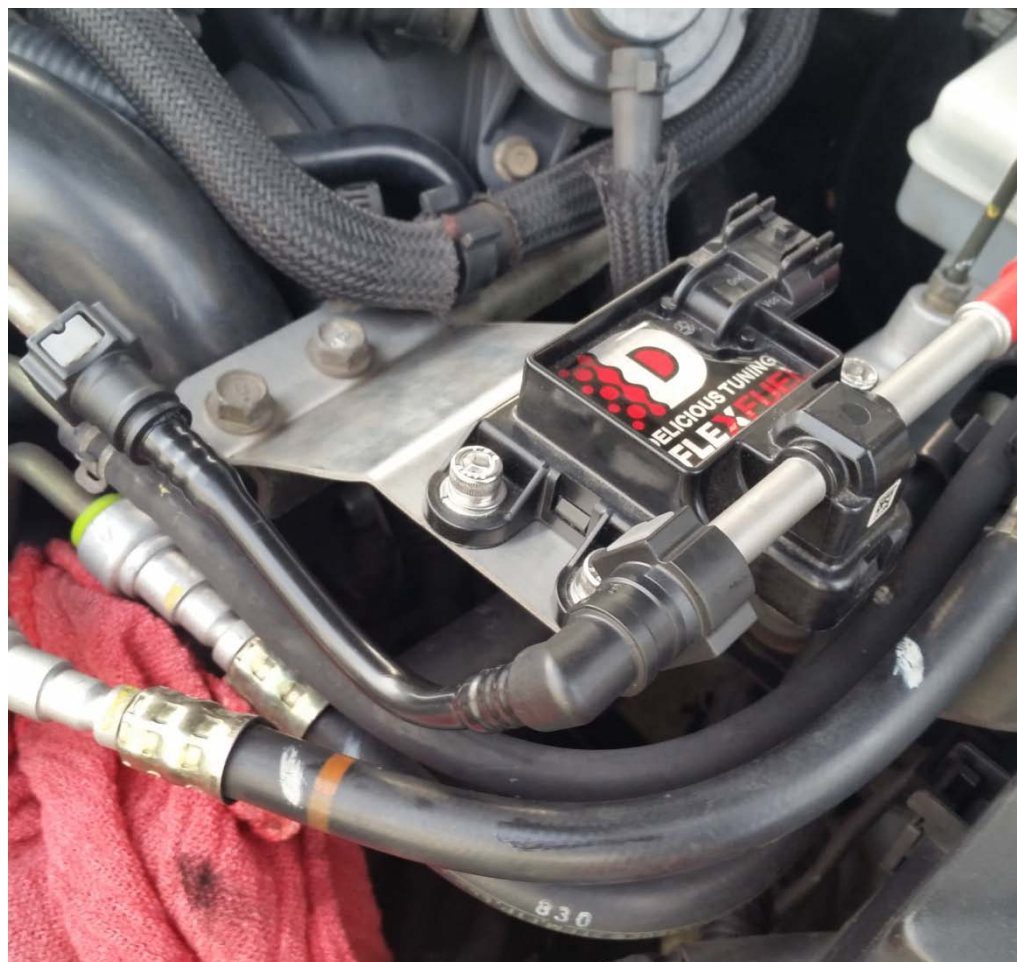
Position and align the bracket with the manifold holes, then install the OEM bolts to attach the flex fuel sensor bracket.



### **Fuel line installation:**

Remove the white protective caps from the fuel line and push the straight fuel line onto the OEM hard fuel line near the intake manifold. Push the connector on to the line until you hear an audible click. Remove the red cap on the ECA sensor.





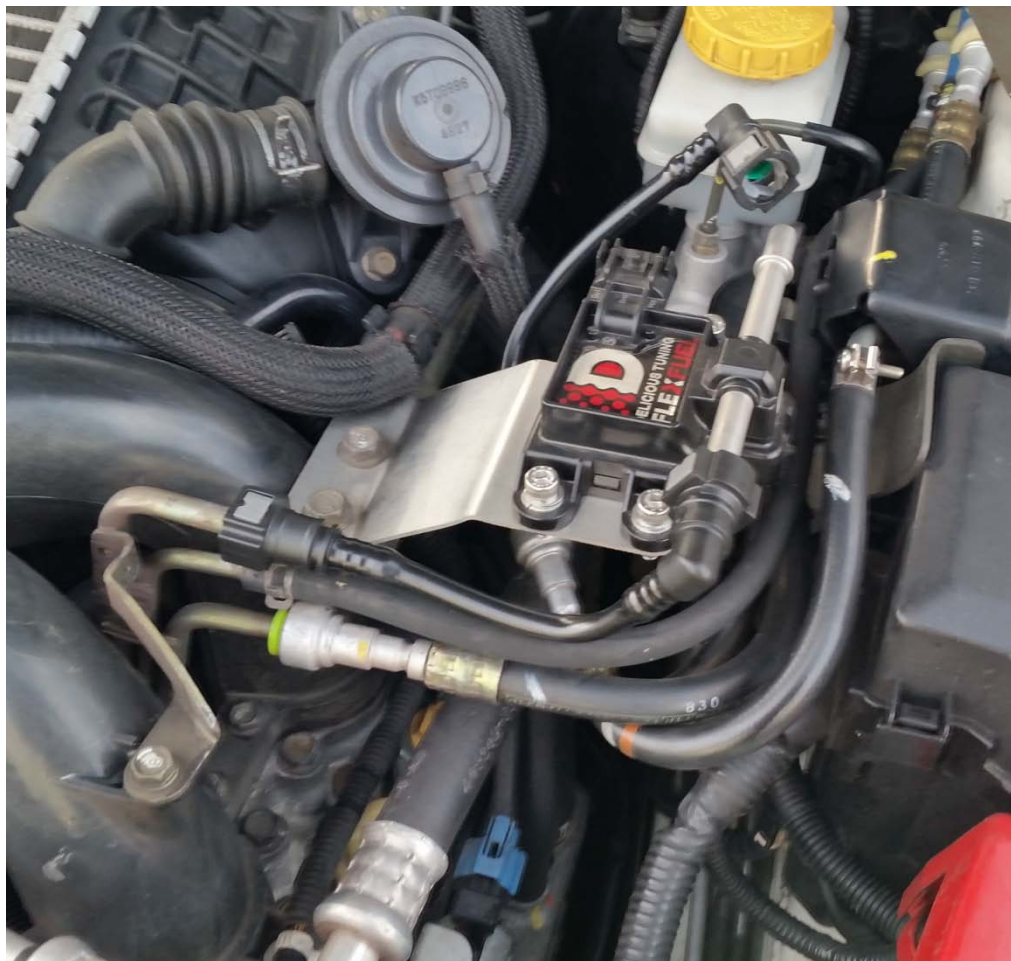
### Fuel line installation:

Carefully bend the line, as shown. **\*\*\*Caution\*\*\*** Do not bend too far and kink the line. Insert the ECA nipple into the 90 degree connector, push until you hear an audible click.



**Fuel line installation:**

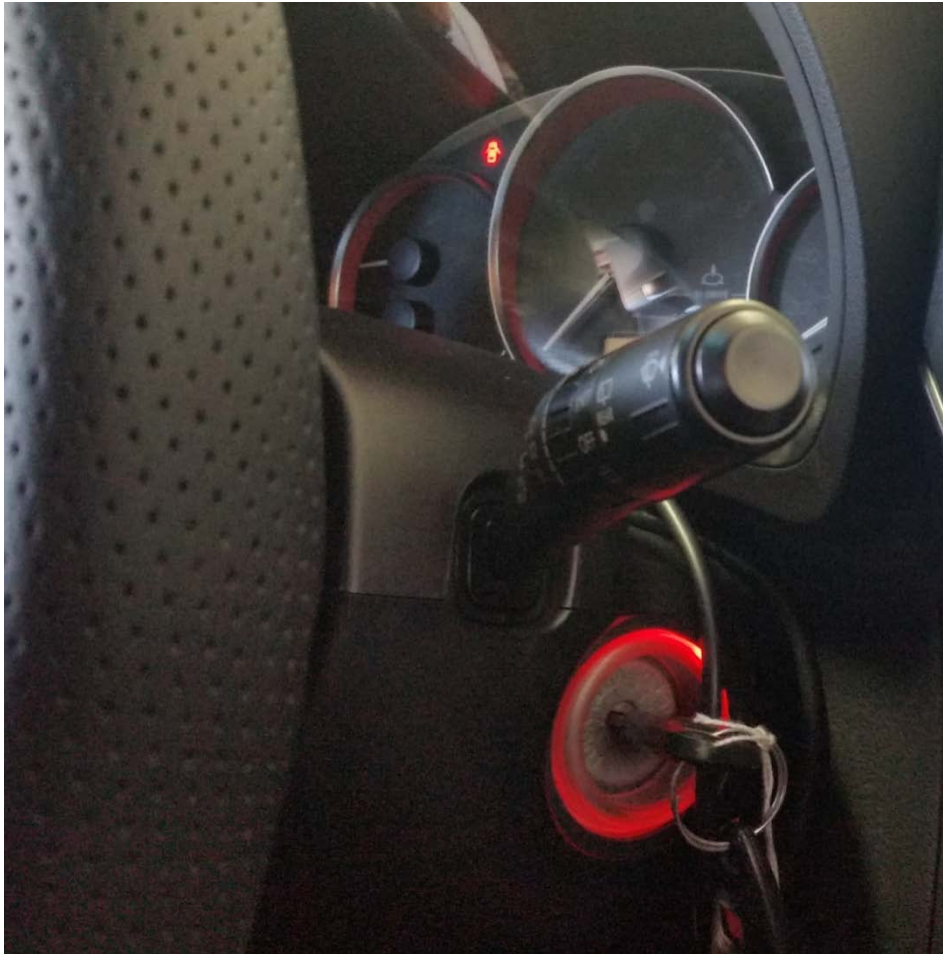
Remove the white protective caps from the fuel line and push the black straight fuel line nipple into the OEM fuel line near the intake manifold. Push the connector into the line until you hear an audible click. Remove the red cap on the other side of the ECA sensor.



### Fuel line installation:

Carefully route the line, as shown. **\*\*\*Caution\*\*\*** Do not bend too far and kink the line also be careful to not cut the line on the bracket. Insert the ECA nipple into the 90 degree connector, push until you hear an audible click.

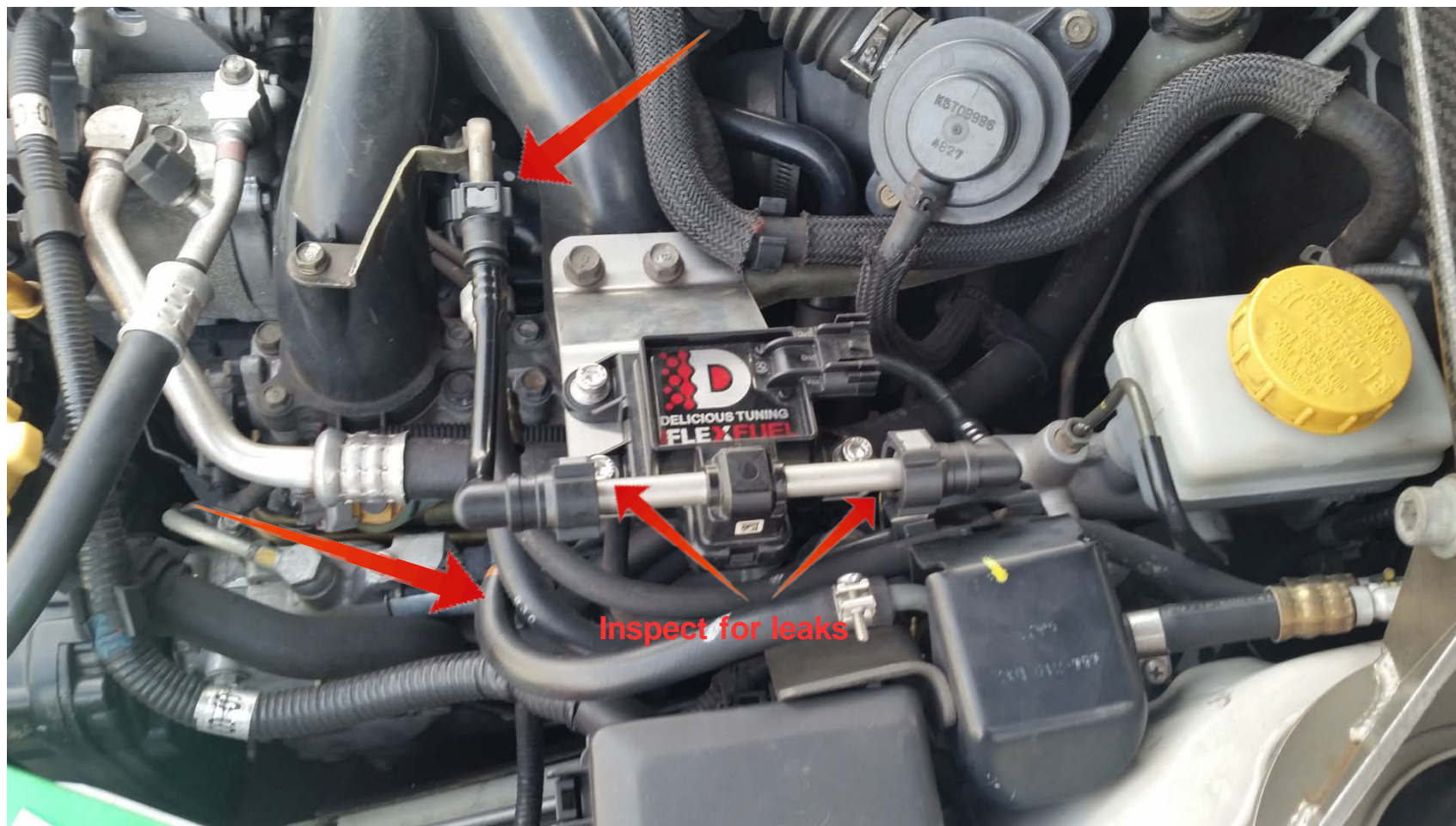




### **Priming & fuel line check:**

Prime the vehicle 10 times before starting to completely prime the fuel lines. When doing so, it is very important to check all the fuel line connections for any small leaks. To prime, turn ignition key to the ON position.





### Fuel line check after starting:

When starting the car for the first time, once again, please inspect all fuel lines for any small leaks (for a recommended 5-10 minutes) Start the vehicle.

If a leak is found please shut off the vehicle immediately and contact the distributor of the product for replacement. (At this time it is **NOT** recommended to drive the vehicle)



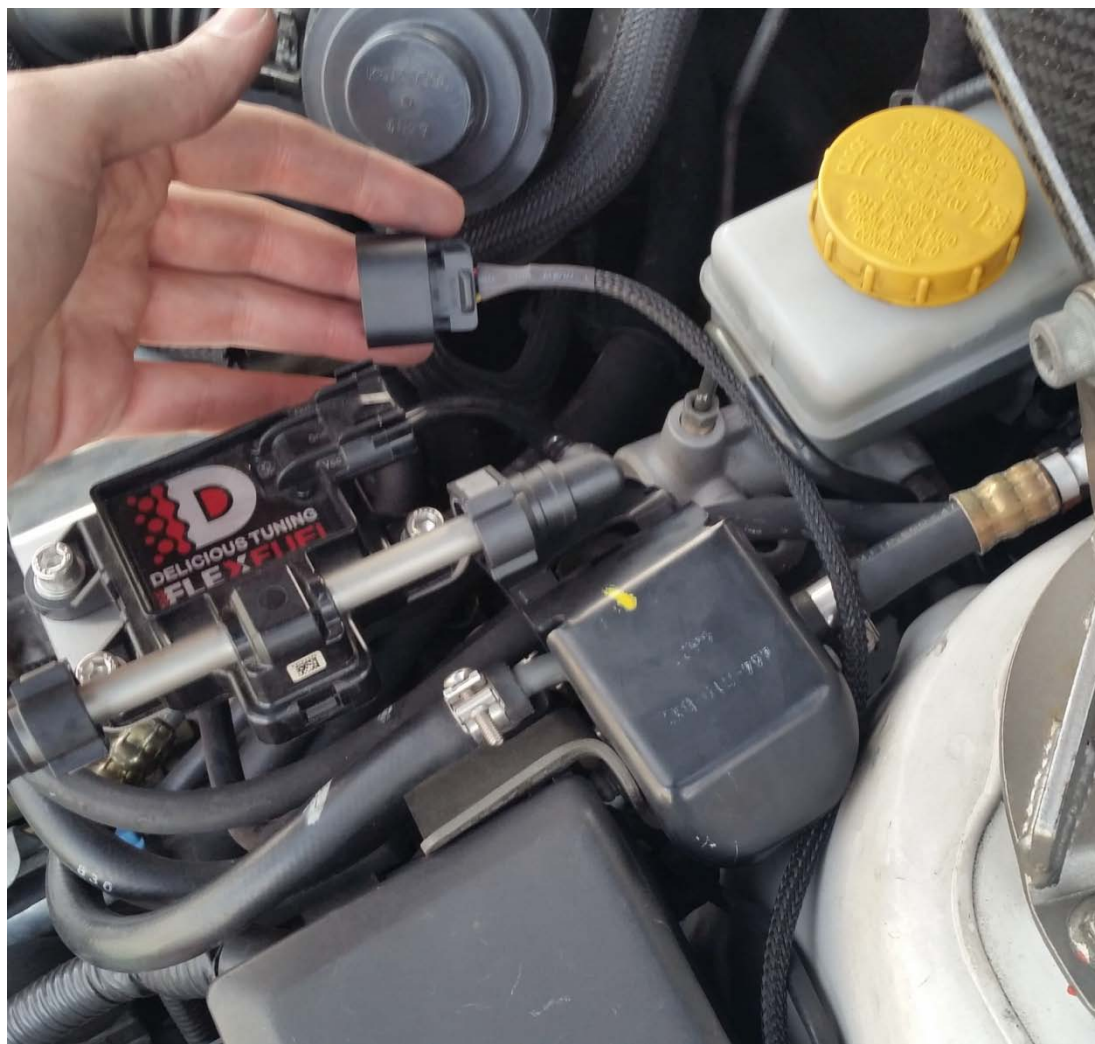
### **Attaching ECA module:**

Remove the Velcro's clear film to expose adhesive, ensure the fuse box is clean of dirt and oil. Firmly press the module down to adhere Velcro.

**Wire routing:**

Hook the long wire harness around the fuse box and route along side the right side, as shown in the pictures above.



**Wire routing:**

Route the short wire harness around the OEM fuel damper bracket and between the fuse box and strut tower. Connect the connector onto the ECA sensor until it clips on.

**Wire routing:**

Route wire harness down and between the windshield washer fluid reservoir neck, then pull through to the radiator mount, as shown in the pictures above.



**Radiator mount:**

Remove the radiator mount, with a 12mm wrench or ratchet. Run the wire harness along the foam across the radiator and reinstall the radiator mount, as shown in the pictures above. Note, make sure the anti-rotation tabs of the mount are inserted into the holes in the frame.



## Wire routing:

Remove the intake scoop by taking out the two fasteners attaching it.



**Wire routing:**

Disconnect the OEM MAF sensor connector and attached to the Flex fuel harness, attach the other side to the MAF sensor. Route the wiring harness through the retaining tabs and pull the excess through and towards the front of the vehicle. Make sure the harness does not catch anything or will not get damaged.



## Wire routing:

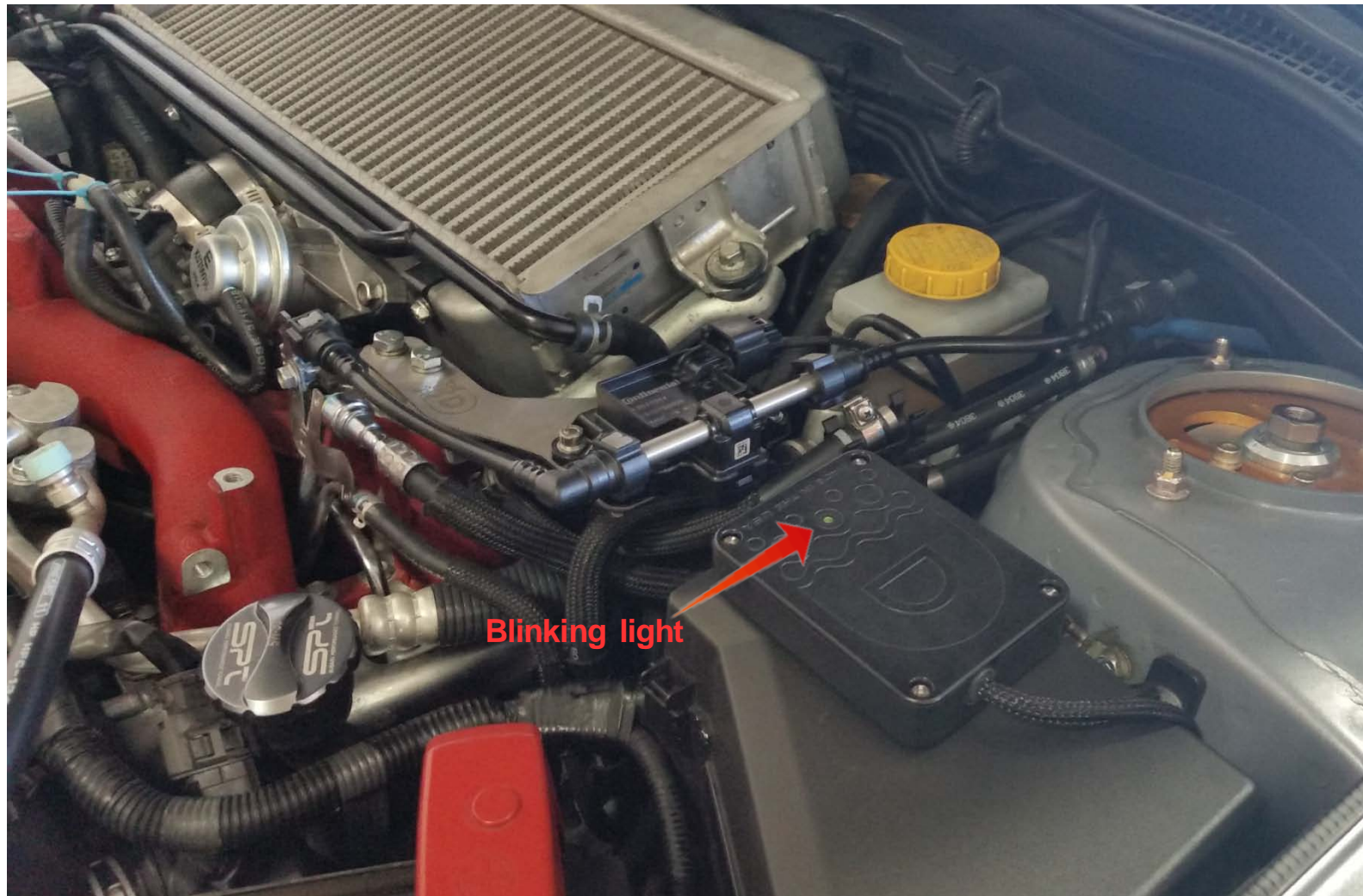
Reinstall the intake scoop.





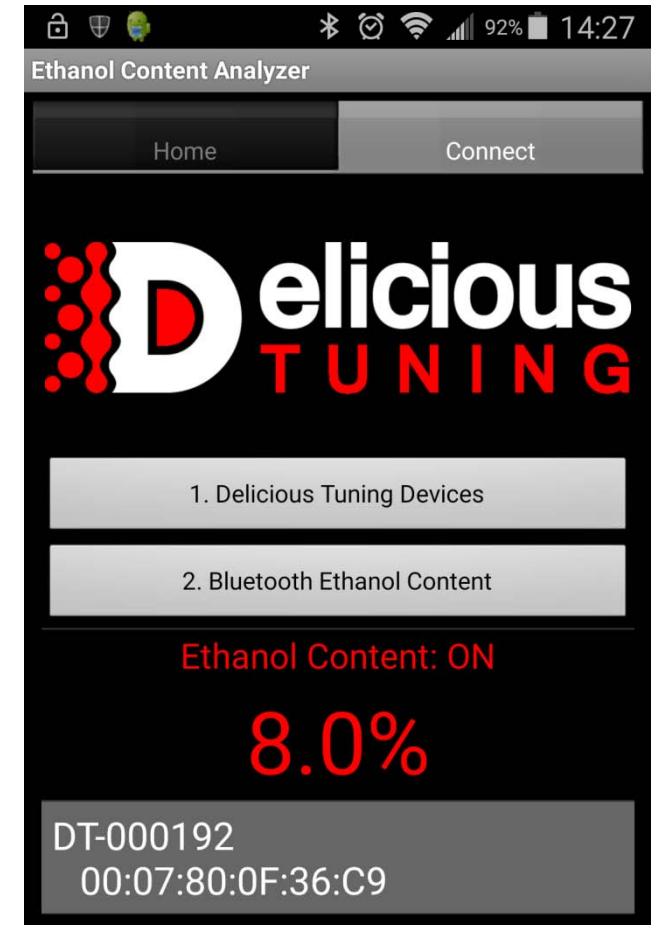
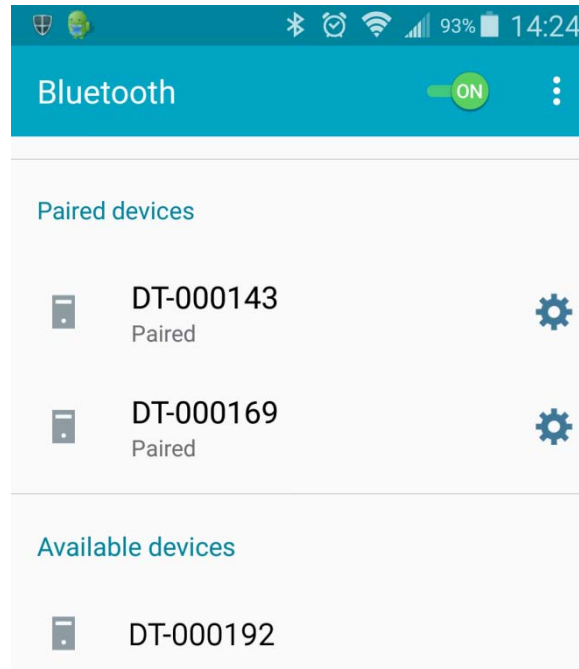
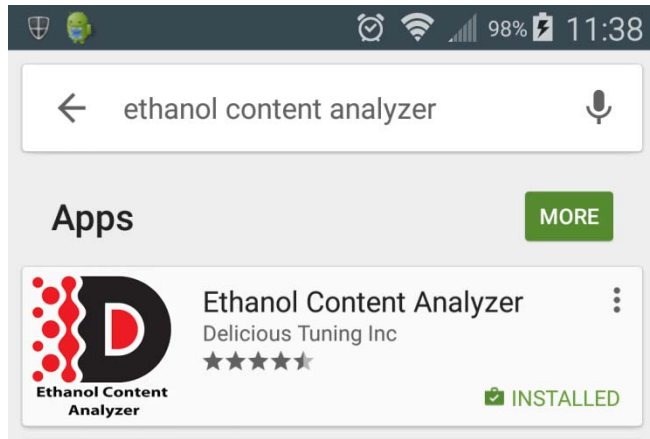
## Installation check:

Make sure nothing is loose or at risk of being snagged, caught, or rubbed around the engine bay.

**ECA module power:**

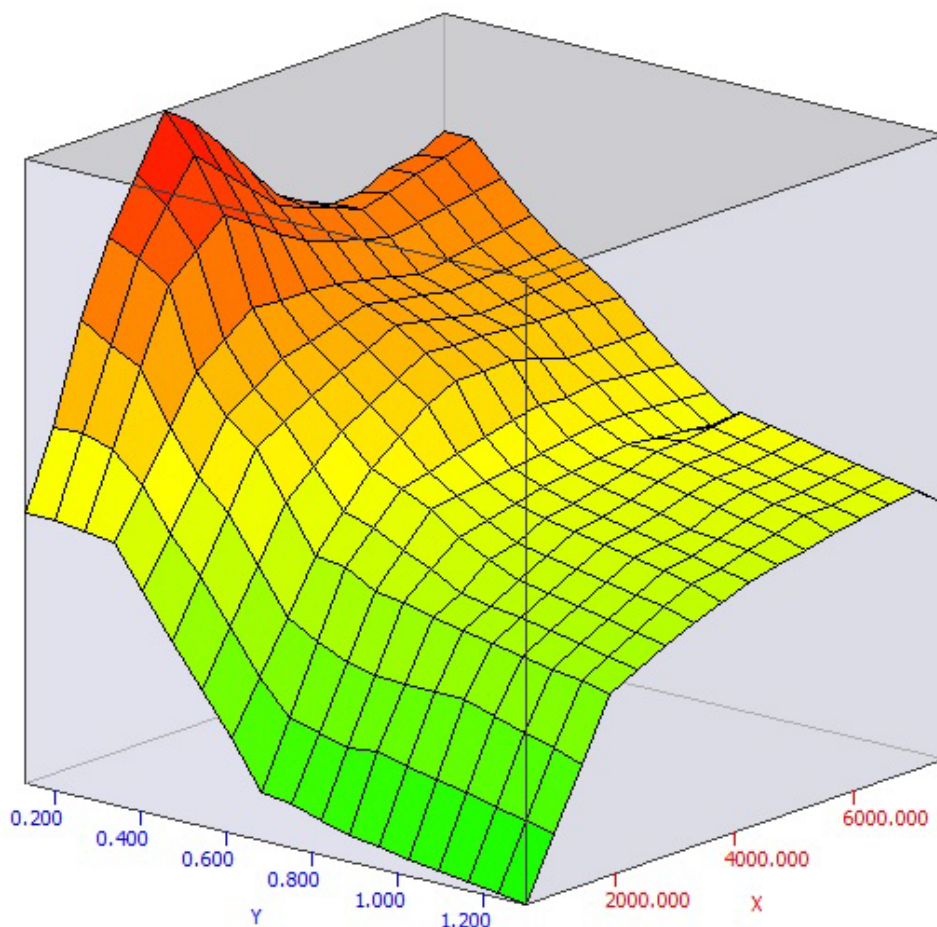
With the vehicle in the ON position verify that the green light on the ECA module has a green blinking light.





### Bluetooth app:

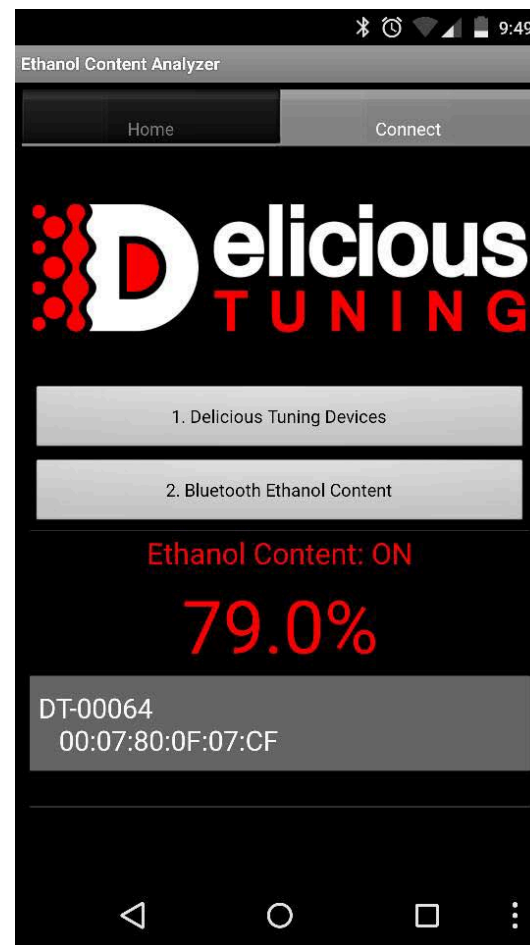
Download the Ethanol Content Analyzer app in the Google Play store. Install the app and turn on your device's Bluetooth function. With your vehicle in the ON position and modules light blinking, scan and pair your device with the module (Pass code is 0000). Now open the app and select "Connect" tab then press "Delicious Tuning Devices" Select the device that you previously paired DT-XXXX, now press "Bluetooth Ethanol Content" The percentage of ethanol should now be displayed, around 8-15% for U.S. pump gas blends.



### ECU tuning:

Before adding ethanol (E85) to the gas tank, reflash the ECU with new flex fuel mapping or have a Delicious Tuning approved dealer tune the vehicle for flex fuel mapping. Note, not tuning the vehicle and running ethanol can cause the engine to run poorly or lead to possible engine damage.





### E85 / Ethanol:

Add ethanol to your gas tank, then start the vehicle. With the Ethanol Content Analyzer app open, you should see the percentage of ethanol increase after a few minutes or after driving, with returnless fuel systems. The percentage may vary for the first several minutes of driving, as the ethanol mixes with the gasoline that was already present in the fuel system.

### **Conclusion:**

This concludes our flex fuel Bluetooth kit installation. You are now free to enjoy your new found horsepower and torque!

Any questions or issues, please contact the distributor of the kit.