



### **Installation Instructions**

ZZP Encore/Trax E85 Flex Fuel Conversion Kit



**Estimated Installation Time: 45 Minutes**

**Installation Difficulty: 2/5**

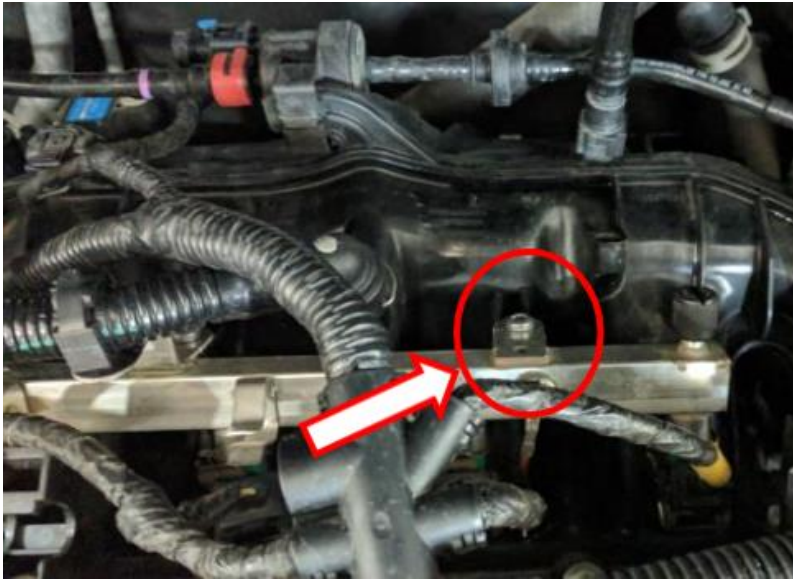
Some procedures will not be described in full detail. If you run into any installation issues or have trouble comprehending any of the procedures, please contact [customerservice@zzperformance.com](mailto:customerservice@zzperformance.com)

**Kit Contents:**

- 1 – E85 Flex Fuel Sensor**
- 1 – Sensor Bracket**
- 1 – Bracket Spacer**
- 2 – Fuel Line**
- 1 – Wiring Harness**
- 1 – M6 x 55mm Socket Cap Screws**
- 2 – M6 x 20mm Socket Cap Screw**

**Tools Needed:**

- Ratchet
- T27 Socket
- 5mm Allen/Socket Wrench
- 3/8" Fuel Line Tool
- Flat Head Screwdriver
- Pick Tool(s)
- Needle Nose Pliers
- 10mm Socket
- Paper Clip

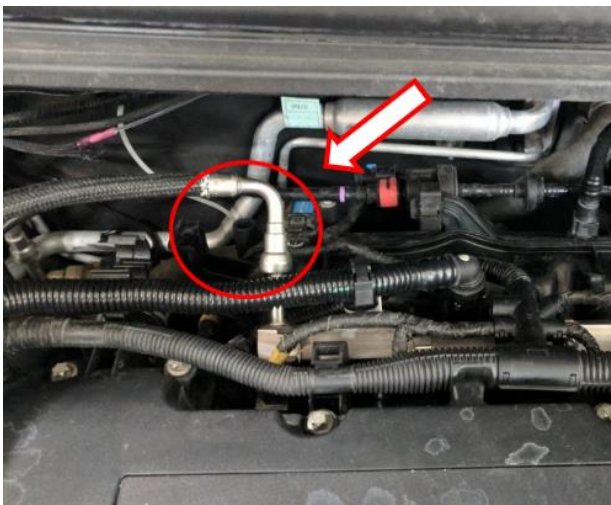


#### STEP ONE:

- **Disconnect negative battery terminal.**
- Remove fuel rail bolt on driver's side of fuel rail using a T27 socket

#### STEP TWO: Attach flex fuel sensor and bracket

- Use the 55mm bolt to attach the bracket on top of the spacer.
- Use 2 20mm bolts, washers and bracket strap to attach sensor to bracket as shown.
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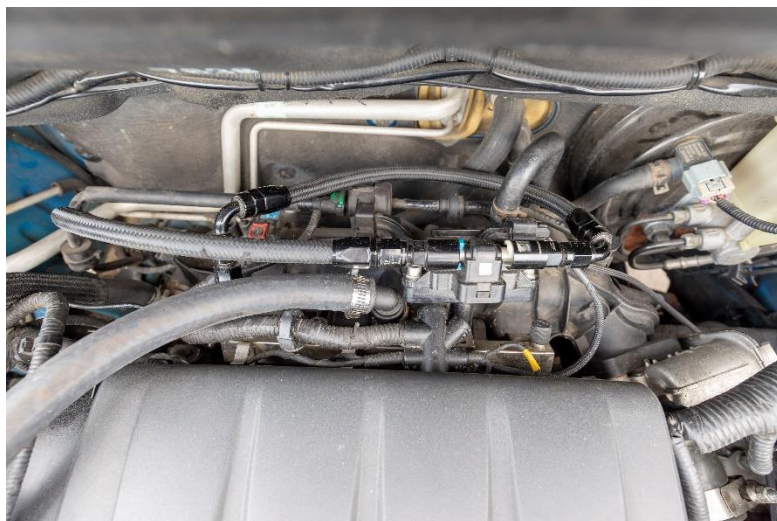


#### STEP THREE:

Disconnect fuel line from passenger side of fuel rail using fuel line tool.

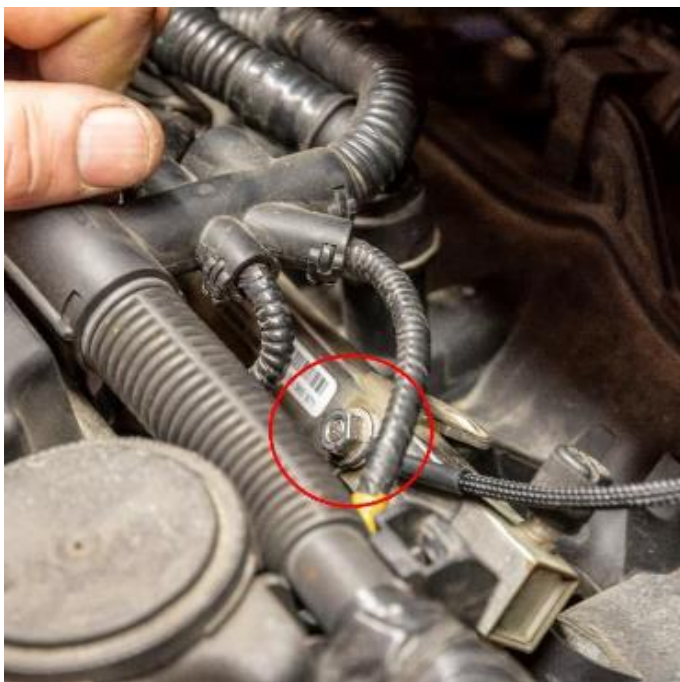
#### STEP FOUR: Connect fuel lines to E85 sensor

- Your OEM setup has a flexible fuel line that runs from near the fire wall on the passenger side to the fuel rail. It uses quick disconnects on both ends. Remove this line.
- The ZZP kit comes with two lines. The longer line with the straight will run from the factory fuel line near the firewall to the left (passenger) inlet of the flex sensor.
- The second line with the 2 90° fittings will run from the right (driver) outlet of the flex sensor back to the fuel rail.
- See photo for reference.



#### STEP FIVE:

Connect wire harness ring terminal to ground stud on fuel rail as shown.

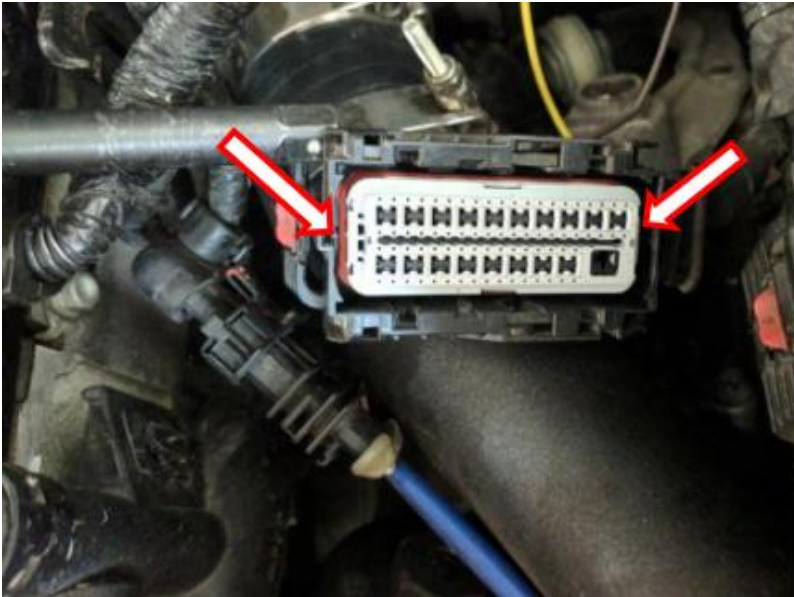


#### STEP SIX:

- Remove top-most harness connection from ECU (J3). Move small tabs upwards, then press lock release in the center of the connector.
- Move lever forward and disconnect the harness.
- Remove outer wire cover. There are two clips that hold it to the body of the harness connection.





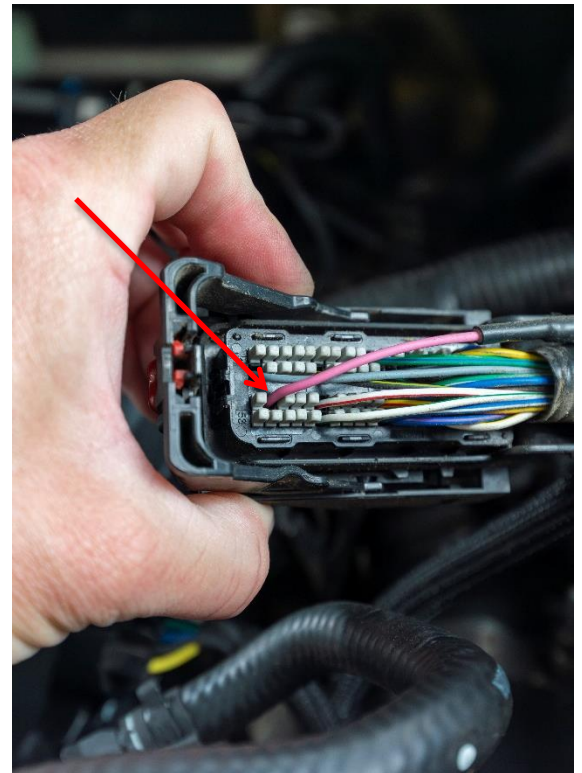


#### STEP SEVEN:

Gently pry terminal cover off with small flathead screwdriver.

#### STEP EIGHT: Pin ECU for ethanol sensor (pink wire)

- You will be using pin 34 on the J3 connector for the ethanol sensor.
- Depending on your year you will either have a grey plug you will have to pull out with needle nose pliers, or a black plug that you will have to push through the connector with a paper clip or 3/32<sup>nd</sup> drill bit.
- With the cover removed pin 34 is on the third row, second from the left as pictured.
- Make sure Pin is seated fully all the way through connector (see photo below). Check connector side to see pin is seated. Pull on wire to lock in place.



#### STEP NINE:

- Snap terminal cover back into place
- Place outer wire cover back onto J3 connector and clip into place.
- Reconnect and lock connector back onto PCM.

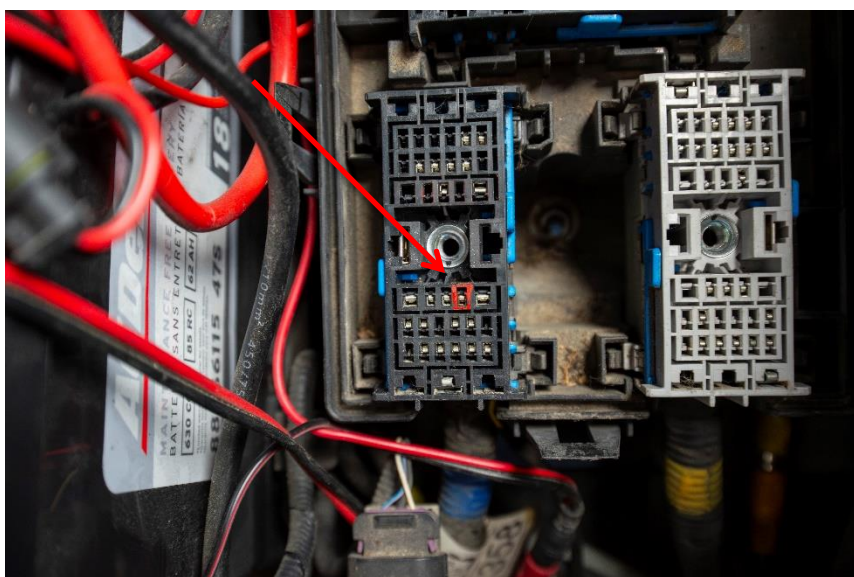
## STEP TEN: Remove fuse box top

- Use a 10mm to remove 3 connections holding the fuse box top down.
- You will also need to remove the top bolt to body and top left power cable (both 10mm).
- There are three plastic retaining clips on the side of the fuse block (bottom, left, and right), use a flat head or pick to pry away from bottom and gently lift top off.
- Take care when removing and reinstalling; it can be easy to bend pins.

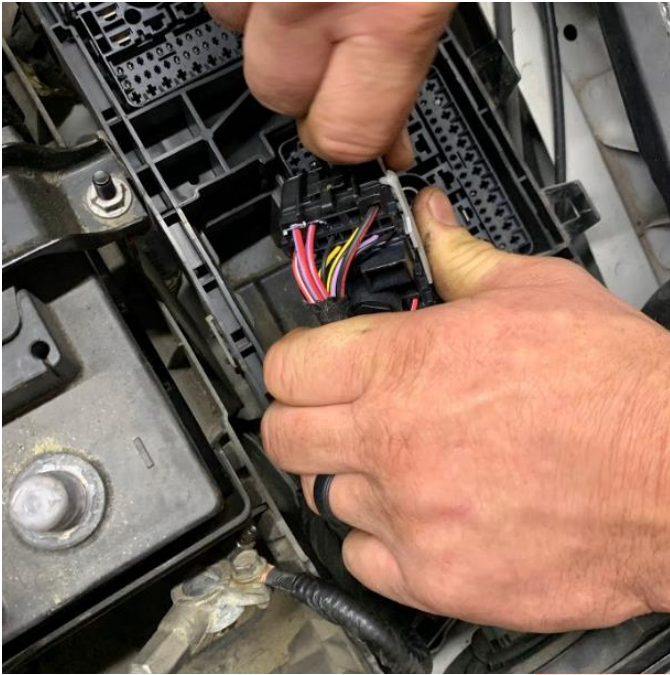


## STEP ELEVEN: Wire in power to fuse panel

- You will be using the bottom left fuse block connector like shown.
- Use a small flat head or pick to unlock the connector from the tray.
- You will want to take this connector out of its location.





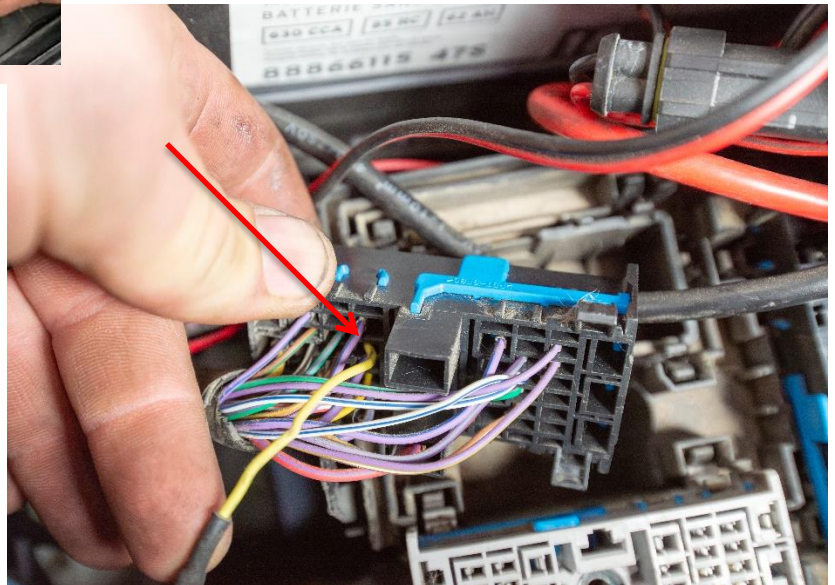


#### STEP THIRTEEN:

- Remove the blue slide clip
- The location of the yellow wire will be installed next to the light purple and blue wire (shown below).
- The location of the pin is also marked in red from the top in the photo above.

#### STEP FOURTEEN:

- Slide power wire through connector towards the "top".
- Verify power wire is seated correctly like all other wires on connector.
- Flip connector back over reinstall grey clip, and reseat into tray. Reinstall fuse box top and bolt back down.
- Reconnect power wire to fuse box.
- Reconnect negative battery terminal.



#### STEP FIFTEEN:

- Flash PCM with latest ZZP tune update to enable flex fuel option.
- Enjoy!

