



**Installation Instructions**

ZZP Sonic E85 Flex Fuel Conversion Kit  
ZZ-SNC-E85FFC



**Estimated Installation Time: 30 Minutes**

**Installation Difficulty: 2/5**

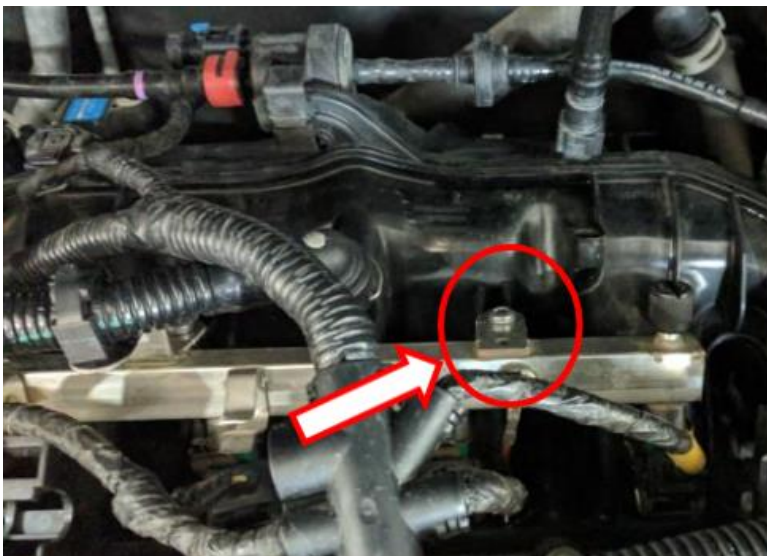
Some procedures will not be described in full detail. If you run into any installation issues or have trouble comprehending any of the procedures, please contact [customerservice@zzperformance.com](mailto:customerservice@zzperformance.com)

**Kit Contents:**

- 1 – E85 Flex Fuel Sensor
- 1 – Sensor Bracket
- 1 – Bracket Spacer
- 1 – Fuel Line
- 1 – Wiring Harness
- 1 – M6 x 55mm Socket Cap Screws
- 3 – 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

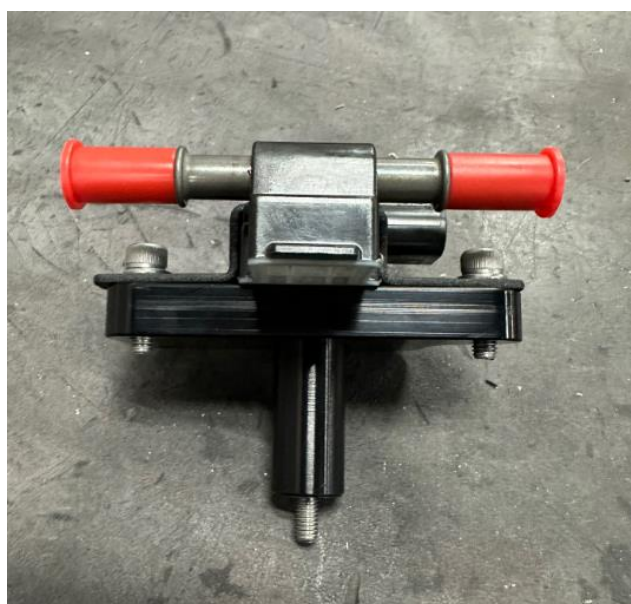


#### STEP ONE:

- 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 and washers to attach sensor to bracket as shown.



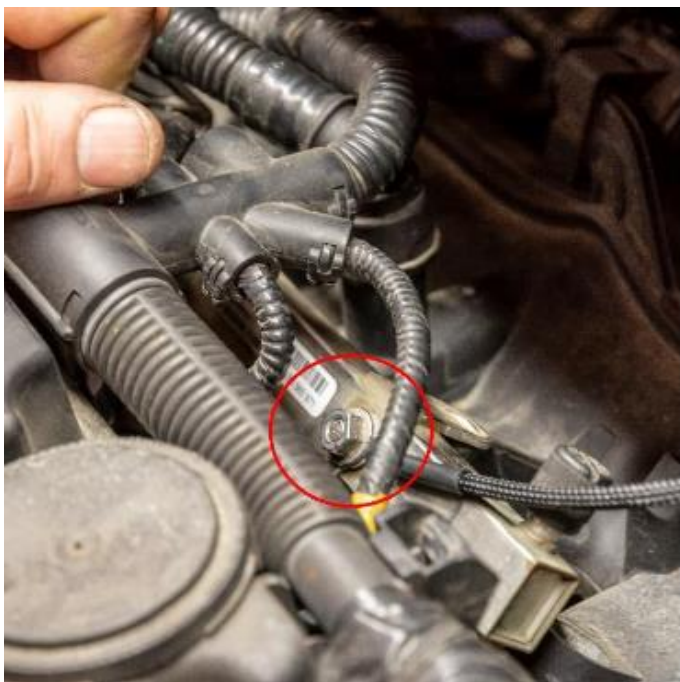
#### STEP THREE:

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

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

Original fuel line goes to sensor **IN** on passenger side, provided ZZP fuel line runs from sensor **OUT** back to fuel rail.

**Note:** The sensor in this photo is the old version. The photo shown in Step 2 is the correct sensor and it should mount like shown, with the 2 bolts closest to the front of the vehicle.



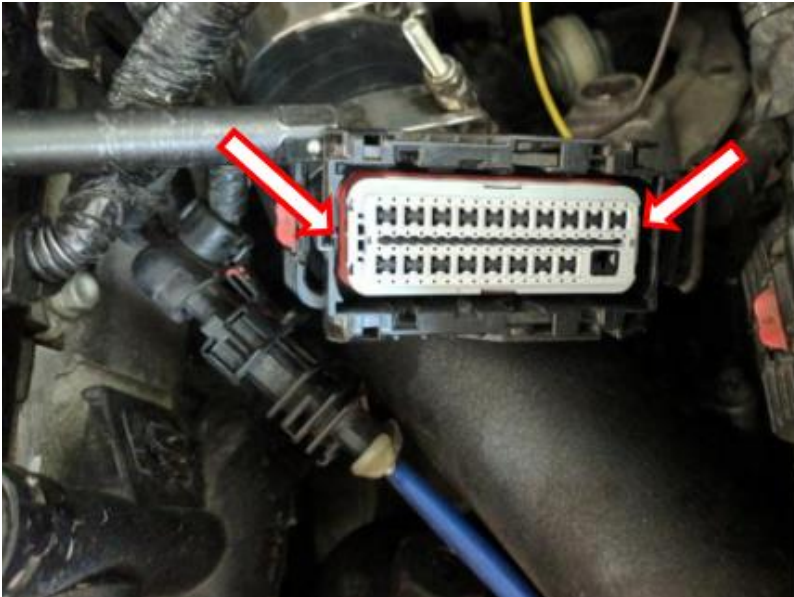
#### STEP FIVE:

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

#### STEP SIX:

- Remove top-most harness connection from ECU. 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.



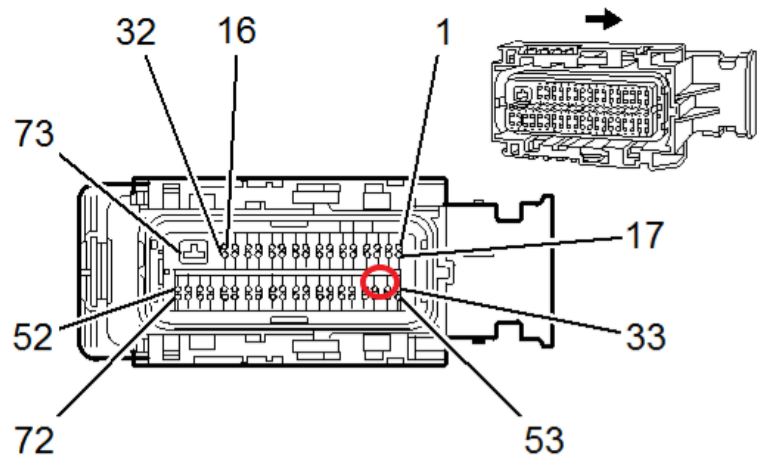


#### STEP SEVEN:

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.
- 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. 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.

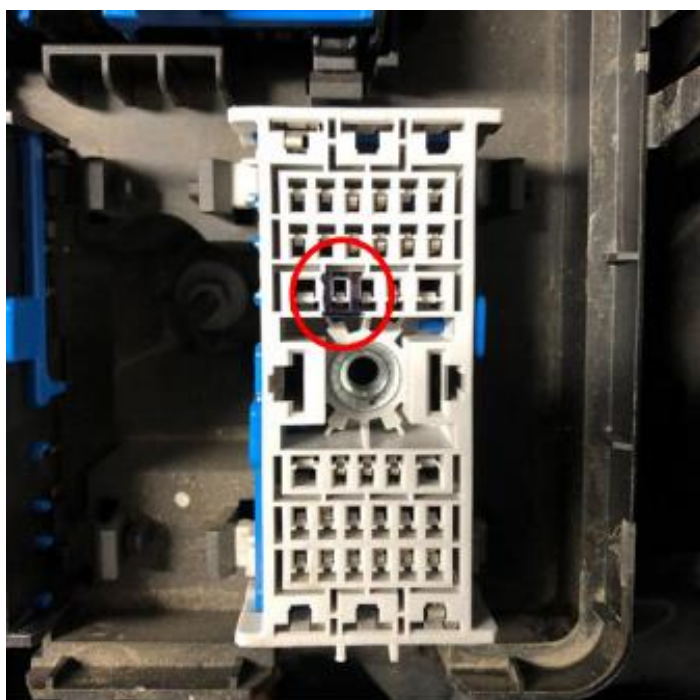
### STEP TEN: Remove fuse box top

- Use a 10mm to remove 5 connections holding the fuse box top down.
- Place power wire from top left off to the side.
- There are two plastic retaining clips on the side of the top, use a flat head to pry away from top and gently lift top off.
- Take care when removing and reinstalling; it can be easy to bend pins.



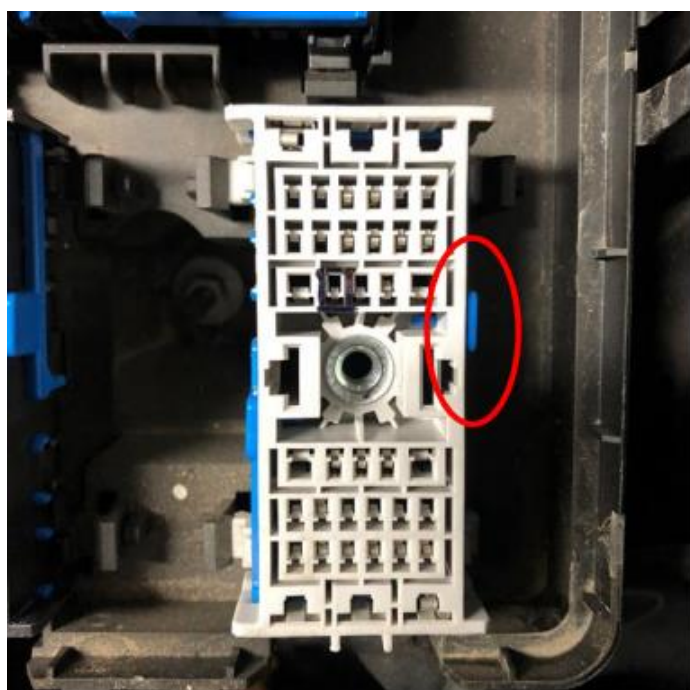
### STEP ELEVEN: Wire in power to fuse panel

- You will be using the white/grey fuse block connector.
- Use a small flat head or pick to unlock the connector from the tray.
- You will be using the pin circled for the yellow power wire.



### STEP TWELVE:

- Use flat head or pick tool to slide blue pin lock out of fuse block connector.





#### STEP THIRTEEN:

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

#### STEP FOURTEEN:

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

