



INSTALLATION INSTRUCTIONS

Unitronic UniFLEX Hardware Kit for 2.0TSI® EA888 EVO4 & 8Y RS3® (w/ Sensor) UH013-FLA

Unitronic recommends that you read through the entire installation instructions prior to beginning the installation to familiarize yourself with the included components, tools required, and procedures involved with the installation.

DISCLAIMER: Unitronic recommends that a Unitronic Authorized Dealer or other qualified and trained professional should perform the installation of this product.

Unitronic Installation Instructions are also available in digital format, if you prefer. Please visit the corresponding product page for a link to download the digital Installation Instructions.
www.getunitronic.com

It is recommended to confirm all parts are present prior to beginning the installation.

PACKING LIST:

Part Number	Description	Quantity
UH019-TL2	UniFlex Ethanol Device	1
UH026-FL7	UniFlex Sensor Harness (30cm)	1
UH028-FL7	UniFlex B9/8Y/MK8 Body Harness	1
UH022-AC0	Unitronic Ethanol Content Sensor w/Fittings	1
UH003-TL0	UniFlex Bracket (Strongly recommended)	1

RECOMMENDED TOOL NEEDED:

¼ ratchet	2.5 mm Allen socket
Pick Tool	Ear Clamp Crimping Tool
10mm socket	Spring Clamp Pliers
13mm socket	Bullnose Pliers

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QUESTIONS OR CONCERNS? CALL US TOLL-FREE AT 1.866.341.2447 OR EMAIL US AT INFO@GETUNITRONIC.COM

1. Open the hood and remove the weather stripping from the passenger side of the plastic cowl along the firewall. (See Fig. 1)



(Fig. 1)

2. On the leftmost edge lift the plastic/rubber cover to allow the cowl to be lifted upwards. (See Fig. 2)



(Fig. 2)

3. Slowly lift the cowl upwards while unclipping the top edge from the windshield.
(See Fig. 3)



(Fig. 3)

4. Carefully maneuver the plastic cowl free and pull it away from the center of the car so it separates from the driver's side plastic cowl. Once it is free, remove it from the car.
(See Fig. 4)



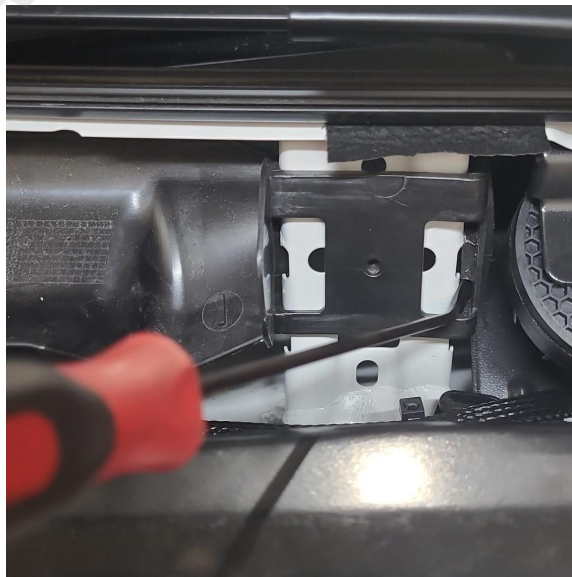
(Fig. 4)

5. Removing the plastic windshield cowl from the passenger's side reveals a plastic cover underneath that is held in with pins on the left side and a plastic clip on the center sheet metal bracket. (See Fig. 5)



(Fig. 5)

6. Using a pick tool, pry the plastic clip and pull the cover off the center sheet metal bracket. (See Fig. 6)



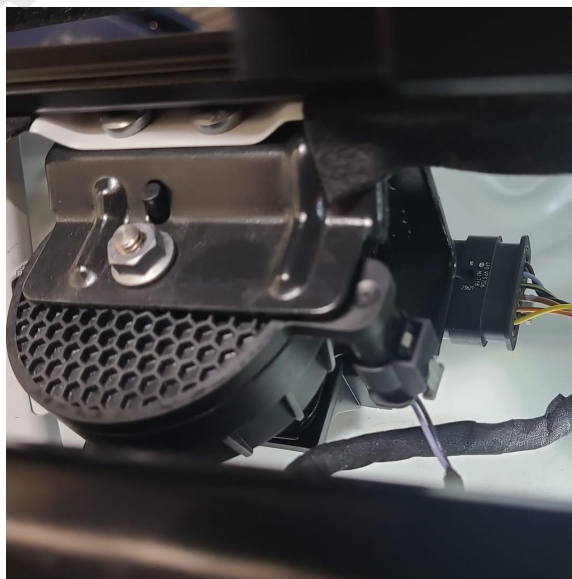
(Fig. 6)

7. Now on the left side pull the plastic cover towards the center of the engine bay to slide it out of the holes on the body and remove it from the car. (See Fig. 7)



(Fig. 7)

8. Towards the middle of the engine bay, behind the firewall, locate the soundaktor and its control module located right under the soundaktor. Using a pick tool, pull out the gray locking tab on the 6 pin module connector and disconnect it from the module. (See Fig. 8)



(Fig. 8)

9. Locate your (UH028-FL7) UniFLEX Body Harness and connect it between the soundaktor module and the OEM wiring harness. Remember to fully seat the connectors and lock the gray locking tabs back in place. (See Fig. 9)



(Fig. 9)

10. We recommend routing the wiring harness along the OEM one and using cable ties to secure it along the way towards the left side where the OEM wiring harness passes through the firewall. (See Fig.10)



(Fig. 10)

11. On the left side strut tower locate the 10mm nut fastening the firewall to the body and remove it using the 10mm socket and 1/4" wrench. (See Fig.11)



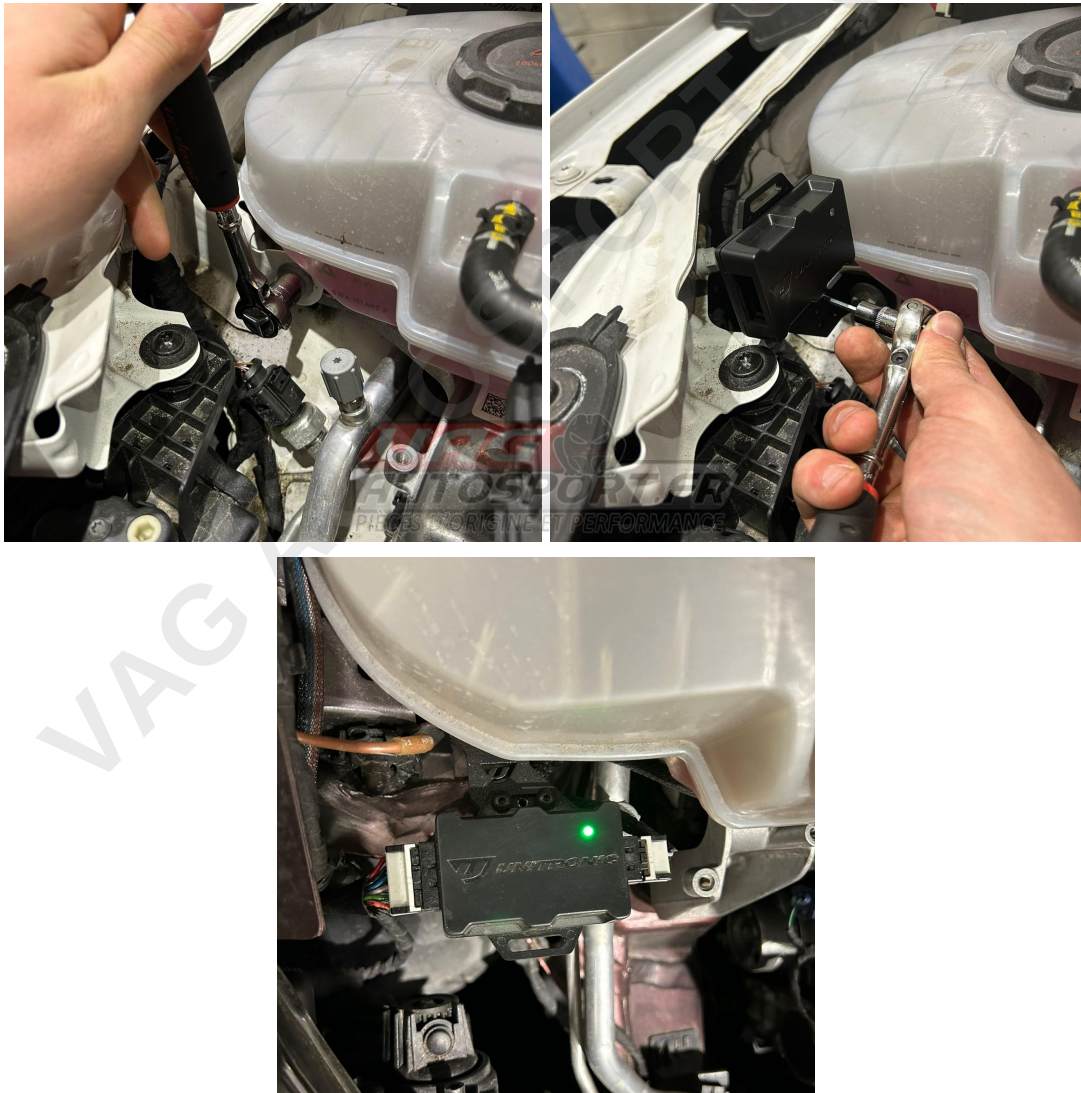
(Fig. 11)

12. Once loose, lift the firewall sheet metal upwards and pass the UniFLEX Wiring harness as shown in the picture, **making sure it is only touching the rubber seal and not getting pressed by the metal bracket.** (See Fig.12)



(Fig. 12)

13. Route the wiring harness into the engine bay above the coolant tank following the OEM harness and using cable ties along the way to hold it in place. Reinstall the 10mm nut securing the firewall sheet metal to the strut tower and tighten.
14. If you've purchased a UniFLEX bracket (UH003-TL0), mount the bracket to the engine mount bracket immediately in front of the coolant bottle by removing the 13mm bolt (See Fig. 14A). Once removed, mount the bracket and re-affix the 13mm bolt in place. Using the supplied hardware, mount the UniFlex Ethanol Device (UH019-TL2) onto the bracket. NOTE: There are several different ways you can mount the UniFLEX bracket depending on what other accessories you have installed. (See Fig 14B & 14C)



(Fig. 14A, 14B, 14C)

DO NOT MOUNT THE MODULE NEAR OR ON ANY RADIANT HEAT SOURCES

Ethanol Sensor Installation Steps for 2.0TSI EA888 EVO4

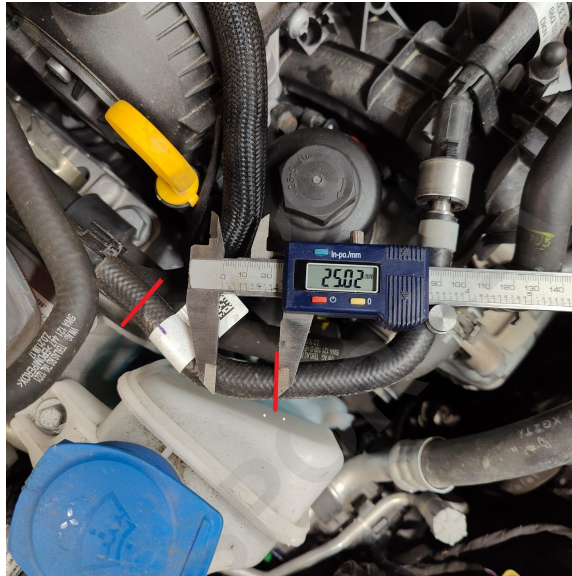
**FOR THE ETHANOL SENSOR INSTALLATION STEPS ON 8Y RS3 (2.5TFSI)
REFER TO THE SECTION AT THE END OF THIS GUIDE**

15. **(WARNING THE FOLLOWING STEP WILL SPILL SOME FUEL. USE PERSONAL PROTECTIVE EQUIPMENT AND A CONTAINER OR RAG TO CONTAIN THE FUEL)** Now locate your UH022-AC0 Unitronic Ethanol Content Sensor w/Fittings and prepare a sharp razor blade or rubber hose cutting tool.
16. Locate the fuel quick connect fitting right above the intake manifold, cover it with a towel and slowly disconnect it. Collect the fuel in a container or towel to prevent leaks in the engine bay. (See Fig.16)



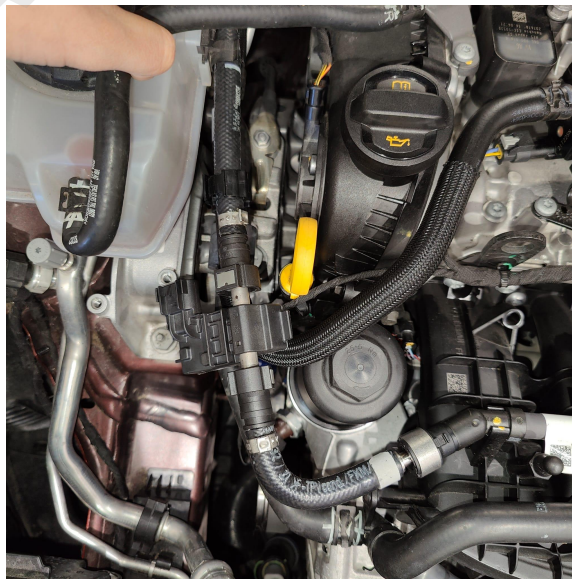
(Fig. 16)

17. On the fuel line, measure approximately 1 inch (25mm) from the first bend and cut the fuel line at the measured distance between the first and second bends. Similarly measure 1 inch (25mm) from the same first bend towards the coolant expansion tank and cut the line there. Remove the section containing the first bend. (See Fig. 17)



(Fig. 17)

18. On each end of the cut fuel line, position the ear clamps then insert the quick connect fuel fittings included in the hardware kit. Fasten the ear clamps using ear clamp pliers and then clip in the ethanol content sensor. (See Fig. 18)



(Fig. 18)

19. Take the (UH026-FL7) UniFLEX Sensor Harness (30cm) and connect it to the UniFLEX device. Route the harness securing it with cable ties if required. Connect the opposite end of the harness to the Ethanol Content Sensor installed on your car as shown here.
(See Fig. 19)



(Fig. 19)

20. Reinstall the engine bay plastics in reverse order of removal.

CONGRATULATIONS! You have successfully installed Unitronic's UNIFLEX device and Ethanol Content Sensor kit!

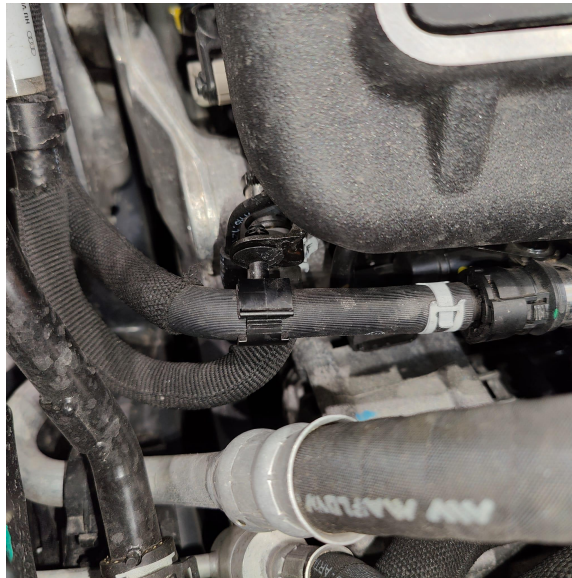
Ethanol Sensor Installation Steps for 8Y RS3

21. To install the ethanol content sensor (UH022-AC0 Unitronic Ethanol Content Sensor w/Fittings). Start by locating the OEM quick connect fitting on the fuel line directly underneath the intake manifold. (See Fig. 21)



(Fig. 21)

22. Using a pick tool, unclip the teeth on the plastic retaining clip holding the fuel line on the left side of the intake manifold. (See Fig. 22)



(Fig. 22)

23. Then, use a 10mm socket and $\frac{1}{4}$ ratchet to loosen the nut securing the clamp holding the quick connect fitting in place. (See Fig. 23)



(Fig. 23)

24. Once the clamp is loose remove it from the stud on the bracket, spread the two tabs apart and remove it from the plastic fuel fitting. (See Fig. 24)



(Fig. 24)

25. At this step the fuel line is now free from its retaining brackets and it is easier to remove the spring clamps and plastic fittings from the fuel line. (See Fig. 25)



(Fig. 25)

26. **(WARNING THE FOLLOWING STEP WILL SPILL SOME FUEL. USE PERSONAL PROTECTIVE EQUIPMENT AND A CONTAINER OR RAG TO CONTAIN THE FUEL)**
Unclip the quick connect fitting and slowly pull out the tube from the plastic housing.
(See Fig. 26)



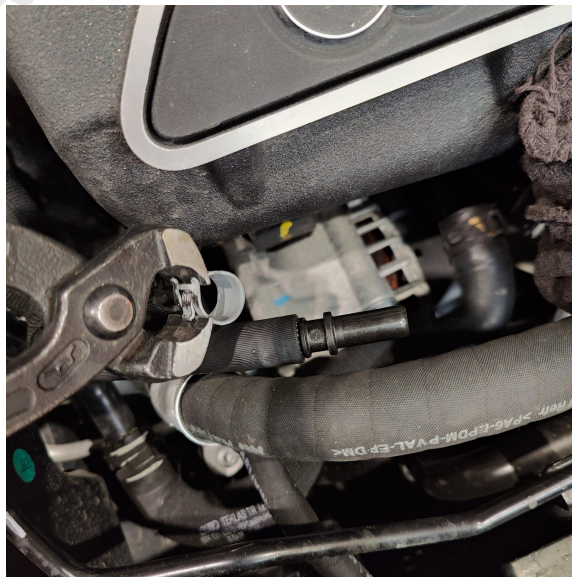
(Fig. 26)

27. **(WARNING: THE FUEL WILL DEPRESSURIZE AT THIS STEP. USE PPE)** Using spring clamp pliers loosen the spring clamp and pull out the plastic quick connect housing from the fuel line. (See Fig. 27)



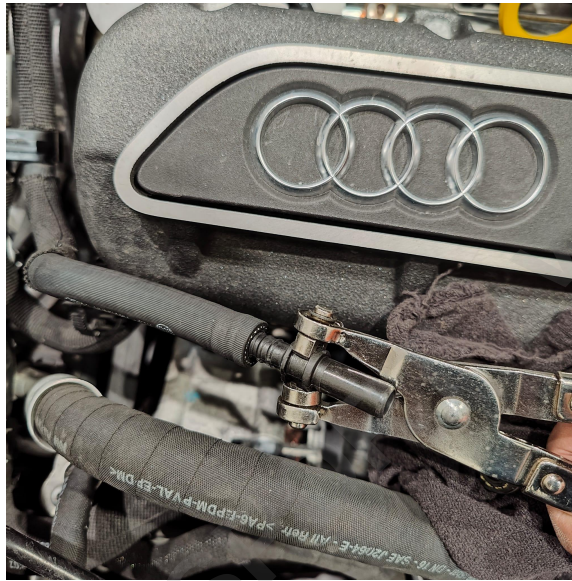
(Fig. 27)

28. For the left side clamp use Bullnose pliers as shown to release the spring clamp and remove it from the line first as the tabs are small and hard to reach. (See Fig. 28)



(Fig. 28)

29. Using the spring clamp pliers as shown in this image, grasp the barb fitting in the middle section to ease pulling it out of the fuel line. (See Fig. 29)



(Fig. 29)

30. Prepare the ear clamps and the ear clamp crimping tool to be used as shown in this picture once installed on the fuel line. (See Fig. 30)



(Fig. 30)

31. Slip on the ear clamp on each fuel line side and install the provided quick connect fuel fittings as shown in figure 29. Then crimp the ear clamps using the tool shown in figure 30. (See Fig. 31)



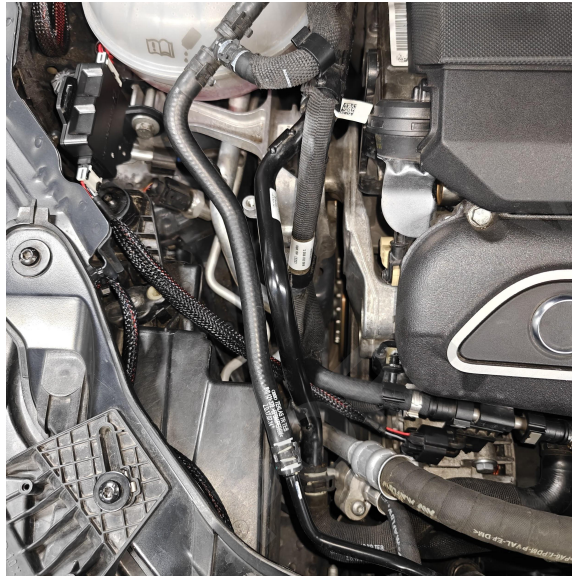
(Fig. 31)

32. Plug in your ethanol content sensor provided in the kit, reattach the clip holding the fuel line on the left side. We also suggest adding a tie wrap on the right side fuel line to the sensor directly behind it to limit fuel line vibration and movement. (See Fig. 32)



(Fig. 32)

33. Locate the shorter (UH026-FL7) Flex Sensor Harness (30cm) and connect it to the UniFlex module on one end and to your ethanol content sensor on the other end. Use tie wraps to fasten the harness if required. (See Fig. 33)



(Fig. 33)

34. Reinstall the engine bay plastics in reverse order of removal.

CONGRATULATIONS! You have successfully installed Unitronic's UNIFLEX device and Ethanol Content Sensor kit!

Download the UniE85 App Now!

