



INSTALLATION INSTRUCTIONS

Unitronic UniFLEX Hardware Kit for 2.5TFSI® EVO (w/Sensor)

UH011-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 INCLUDED
UH026-FL7	UniFlex Sensor Harness	1
UH027-FL7	UniFlex 8V RS3® & 8S TTRS® Body Harness	1
UH019-TL2	UniFlex Ethanol Device	1
UH025-AC0	Unitronic Ethanol Content Fittings w/Clamps	1

RECOMMENDED TOOLS NEEDED:

- 7mm socket
- 1/4" Ratchet
- T25 Socket
- Clamp Pliers
- 10mm socket
- Spring Clamp Pliers
- Ear Clamp (Bullnose) Pliers
- Ear Clamp Crimping Pliers
- (Optional various other pliers)



FIG. A



FIG. B



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- 1** To start the installation, first remove the engine cover by lifting up on the 4 corners of the cover. (See Fig. 1)
- 2** Using the 7mm socket and ratchet wrench, loosen the screw clamp maintaining the flex coupling to the intake box. (See Fig. 2)
- 3** Using clamp pliers, remove the diverter valve spring clamp located on the engine air intake box. (See Fig. 3)
- 4** Once the clamp is removed to the lower part of the hose disconnect the hose from the intake box. (See Fig. 4)
- 5** Now locate the front air duct located in front of the airbox and unscrew the 2X T25 screws holding it in place. (See Fig. 5)
- 6** Once the two T25 screws are removed push the air duct backwards into the airbox and tilt the front up and pull out the air duct. (See Fig. 6)
- 7** When the air duct is removed pull upwards on the airbox to release it from the rubber grommets. Rotate at an angle to get it out of the flex coupling and remove the airbox from the car. (See Fig. 7)
- 8** Right below the position of the airbox locate the wiring harness clipped into the plastic rail. (See Fig. 8)



FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 5



FIG. 6



FIG. 7



FIG. 8



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- 9** Locate the black 8 pin connector and unclip it from the plastic rail. (See Fig. 9)
- 10** Pull the tab carefully and unclip the connector. (See Fig. 10)
- 11** Locate the longer body harness (UH027-FL7) and plug it in between the OEM connector like a Y connection. (See Fig. 11)
- 12** With the body harness plugged in correctly, clip in the plastic pin into the lower bracket hole next to the larger gray connector and tuck away the other side of the connector under the headlight housing. (See Fig. 12)
- 13** Continue by routing the harness under the hood latch cable and zip tie it as shown here. (See Fig. 13)
- 14** Tuck the harness along the top of the rad support below the air duct openings and above the hood latch mechanism as shown. (See Fig. 14)
- 15** On the passenger side of the car, zip tie the harness the same way with the hood latch cables. (See Fig. 15)
- 16** Route the remaining part of the harness near the headlight housing and module as shown in this image. (See Fig. 16)



FIG. 9

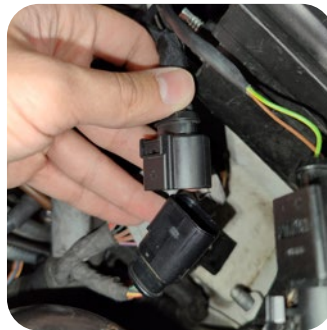


FIG. 10

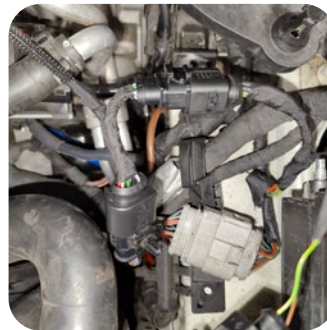


FIG. 11



FIG. 12



FIG. 13



FIG. 14



FIG. 15

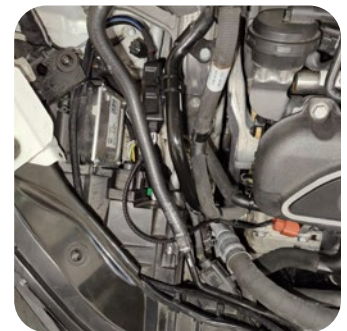


FIG. 16



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- 17** Locate the UniFLEX module. Using Velcro or double sided tape, install the UniFLEX device on the side of the passenger side headlight module.
DO NOT MOUNT THE MODULE NEAR ANY RADIANT HEAT SOURCES. (See Fig. 17)
- 18** To install the ethanol content sensor (UH025-AC0 Unitronic Ethanol Content Fittings w/Clamps). Start by locating the OEM quick connect fitting on the fuel line directly underneath the intake manifold. (See Fig. 18)
- 19** 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. 19)
- 20** Then use a 10mm socket and ¼ ratchet to loosen the nut securing the clamp holding the quick connect fitting in place. (See Fig. 20)
- 21** 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. 21)
- 22** 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. 22)

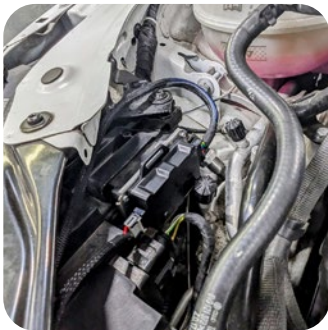


FIG. 17



FIG. 18



FIG. 19



FIG. 20



FIG. 21



FIG. 22



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23 ! Before unclipping the OEM quick connect fitting using the 2 side clips, make sure to use a container or cloth to catch the fuel that will leak out of the line!

! Make sure to use personal protective equipment to protect your eyes and skin from exposure to gasoline!

Unclip the quick connect fitting and slowly pull out the tube from the plastic housing. (See Fig. 23)

24 (WARNING: THE FUEL WILL DEPRESSURIZE AT THIS STEP. USE PPE) Using spring clip pliers loosen the spring clamp and pull out the plastic quick connect housing from the fuel line. (See Fig. 24)

25 For the left side clamp use ear clamp 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. 25)

26 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. 26)

27 Prepare the pinch clamps and the pinch clamp pliers to be used as shown in this picture once installed on the fuel line. (See Fig. 27)

28 Slip on the pinch clamp on each fuel line side and install the provided quick connect fuel fittings as shown in figure 29. Then crimp the pinch clamps using the tool shown in figure 28. (See Fig. 28)

29 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. 29)



FIG. 23



FIG. 24

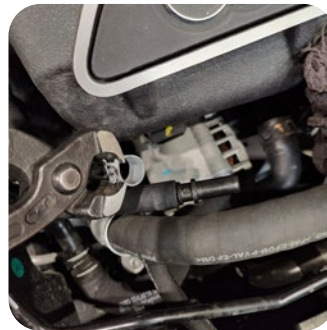


FIG. 25

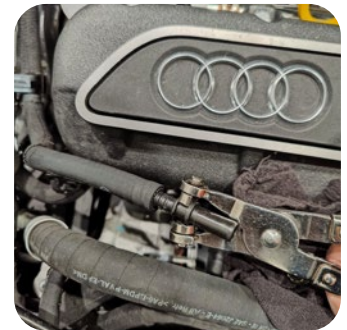


FIG. 26



FIG. 27



FIG. 28



FIG. 29



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- 30** Locate the shorter (UH026-FL7) Flex Sensor Harness and connect it to the UniFlex module on one end and to your ethanol content sensor on the other end. Zip tie the sensor harness to the protected section of the fuel line. (See Fig. 19)
- 31** Reinstall the intake system in reverse order of disassembly.

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

Download the UniE85 App Now!



FIG. 30