INSTALLATION INSTRUCTIONS

Unitronic Intercooler Upgrade Kit for 1.8/2.0 TSI® Gen2
UH001-ICA

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 to remove the OEM intercooler system.

PACKING LIST:

PART NUMBER	DESCRIPTION	QUANTITY INCLUDED
UH001-IC3	Unitronic Intercooler Core for 1.8/2.0 TSI®/TFSI®	1
UH011-IC1	Unitronic Silicone Hose Kit for 1.8/2.0 TSI Gen2	1
UH001-IC0	Unitronic Intercooler Hardware Kit	1

RECOMMENDED TOOLS NEEDED:

- T25 Torx
- T30 Torx
- Flat-head screwdriver
- 20mm socket
- 8mm socket
- 4″ extension
- Ratchet
- Jack stands and jack or vehicle hoist
- Small pick or small flat-head screwdriver

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1 Safely jack up your vehicle and secure it using jack stands to gain access to the underside of the front end.

2 Remove the two (2) T25 Torx bolts holding the air inlet to the radiator support (See Fig. 1A & Fig. 1B) and remove the air inlet with airbox snorkel.

3 Remove the four (4) bolts holding on the front grilles using your T25 Torx. (See Fig. 2) The grilles can be released by pulling towards the front to release the bottom clips. (Fig. 3)

4 Remove the three (3) T30 Torx bolts holding the bumper cover to the radiator support. (Fig. 4A & Fig. 4B)

5 Remove the four (4) T25 Torx bolts holding the fender liner to the bumper on both the passenger side and driver's side of the bumper cover. (Fig. 5A & Fig. 5B)

6 Remove the eight (8) T25 Torx bolts holding on the belly pan. (See Fig. 6A & Fig. 6B)

FIG.1A

FIG.1B

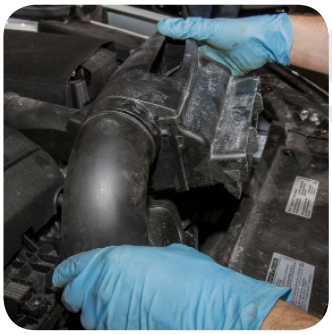
FIG. 2

FIG. 3

FIG. 4A

FIG. 4B

FIG. 5A

FIG. 5B

FIG. 6A

FIG. 6B

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7 Remove the eight (8) T25 Torx holding the lower bumper to the radiator support. (See Fig. 7A & Fig. 7B)

8 To remove the bumper, go back to the fender wells and remove the last T25 bolt holding the bumper cover to the fender on both the driver's and passenger's side (See Fig. 8A & Fig. 8B) and pull the bumper cover slowly forward to remove it from the vehicle. (See Fig. 9A & Fig. 9B & Fig. 9C) Be sure to unplug the fog lights if equipped. (See Fig. 10)

9 From under the vehicle, remove the driver's side intercooler outlet hose using your flat head screw driver to loosen the clamps on either side of the hose. (See Fig. 11A & Fig. 11B)

FIG. 7A

FIG. 7B

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FIG. 8A

FIG. 8B

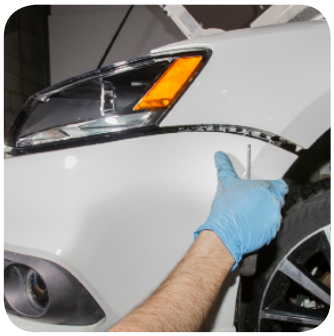
FIG. 9A

FIG. 9B

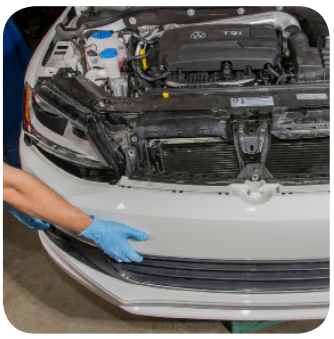
FIG. 9C

FIG. 10

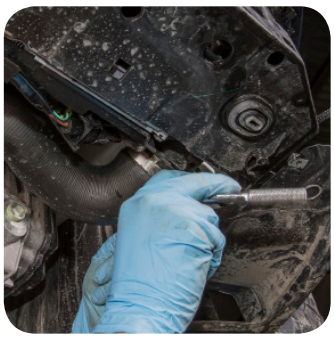
FIG. 11A

FIG. 11B

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10 Loosen the passenger side intercooler inlet hose using your flat head screw driver. (See Fig. 12)

11 Pull the clip securing the intercooler inlet hose into the pancake pipe. (See Fig. 13)

12 Pull out the inlet hose and outlet hoses from underneath the vehicle. (See Fig. 14A & 14B)

13 Remove the two (2) center 20mm nuts using a socket holding the impact beam to the upper radiator support. (See Fig. 15)

14 Unclip the ambient temp sensor from the impact beam and unclip the wire loom from the radiator support on the side (See Fig. 16A & 16B)

15 Remove the two (2) T30 Torx bolts from each side holding the impact beam to the chassis and remove the impact beam. (See Fig. 17A & 17B)

16 Remove the two (2) T30 Torx bolts holding the intercooler/radiator and A/C condenser stack. (See Fig. 18)

FIG. 12

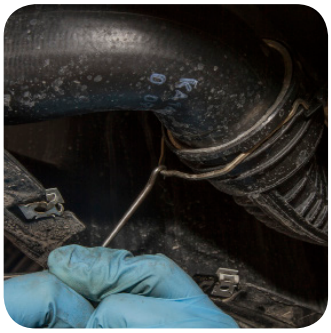
FIG. 13

FIG. 14A

FIG. 14B

FIG. 15

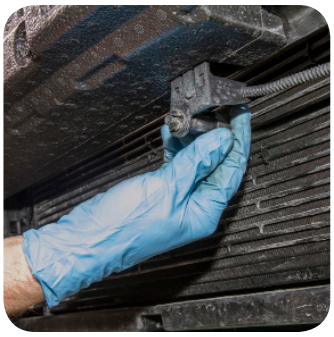
FIG. 16A

FIG. 16B

FIG. 17A

FIG. 17B

FIG. 18

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17 Remove the two (2) air guides (one on each side) by using a small flat head screw driver to unclip the three clips. (See Fig. 19A & Fig. 19B)

18 Remove the four (4) T30 Torx bolts holding the A/C condenser to the intercooler. (See Fig. 20)

19 Unclip the hood cable holder from the radiator support. (See Fig. 21)

20 Remove the cover by prying from 1 side. (See Fig. 22) And release the cable from the junction. (See Fig. 23)

21 Unplug both the passenger and driver's side head lights. (See Fig. 24)

22 Unplug the airbag sensor on both sides by pulling the red tab and pressing down to release. (See Fig. 25)

23 Unplug the radiator temp sensor. (See Fig. 26)

24 Unplug the hood latch connector/sensor. (See Fig. 27)

FIG. 19A

FIG. 19B

FIG. 20

FIG. 21

FIG. 22

FIG. 23

FIG. 24

FIG. 25

FIG. 26

FIG. 27

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25 Remove the T30 Torx holding the radiator support to the chassis. (See Fig. 28)

26 Remove the bolt behind the headlight using a T30 Torx on both sides. (see Fig. 29)

27 Slowly spread the front end apart from the intercooler. (See Fig. 30)

28 Remove the intercooler bracket on each side of the intercooler core. (See Fig. 31A & Fig. 31B)

29 Remove the four (4) T30 Torx bolts holding the radiator to the intercooler. (See Fig. 32A , 32B & 32C)

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FIG. 28

FIG. 29

FIG. 30

FIG. 31A

FIG. 31B

FIG. 32A

FIG. 32B

FIG. 32C

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30 Gently remove the intercooler from the radiator support and pull upwards while rotating to pull the intercooler out of the assembly. (See Fig. 33A, 33B, 33C & 33D)

31 Secure the A/C condenser temporarily with a zip tie to the radiator support so you have more room to work with the following steps. (See Fig. 34)

32 Locate the Unitronic Intercooler Core (UH001-IC3). Slide in the inlet endtank first so it is all the way under the radiator. It's recommended to get a friend to assist in holding the radiator while you install the intercooler. (See Fig. 35)

33 Rotate the intercooler into position. (See Fig. 36A & 36B)

34 Align the Intercooler core and radiator. (See Fig. 37)

35 Ensure the two bottom mounting tabs are aligned into the grommets on the radiator support.

36 Bolt the radiator into the intercooler using the supplied four (4) 8mm bolts in the Hardware Kit (UH001-IC0). (See Fig. 38)

FIG. 33A

FIG. 33B

FIG. 33C

FIG. 33D

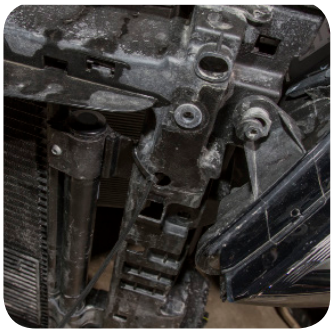
FIG. 34

FIG. 35

FIG. 36A

FIG. 36B

FIG. 37

FIG. 38

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37 Reinstall the intercooler mounting bracket on each side. (See Fig. 39A & 39B)

38 Carefully align the radiator support onto the appropriate position into the intercooler (See Fig. 40A & 40B)

39 Re-install the bolt to hold the radiator support and headlight into the chassis on both driver's and passenger sides. (See Fig. 41)

40 Affix the intercooler mounting positions into the radiator support. (See Fig. 42 & 43)

41 Remove the zip tie you used temporarily.

42 Mount the four (4) bolts on the A/C condenser into the intercooler using the supplied 8mm bolts. (See Fig. 44)

43 Plug back in both driver's and passenger's side headlights, re-connect the air back sensor, hood latch sensor, and radiator temperature sensor.

44 Re-install the hood latch cable and mount it back to the radiator support. (See Fig. 45)

45 Align the impact beam with the chassis and re-isntall the eight (8) 16mm bolts.

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FIG. 39A

FIG. 39B

FIG. 40A

FIG. 40B

FIG. 41

FIG. 42

FIG. 43

FIG. 44

FIG. 45

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46 Re-install the ambient air temp. sensor (See Fig. 46)

47 Clip in the wire loom into the mounting points on the radiator support (See Fig. 47)

48 Transfer the o-ring from your OEM intercooler inlet hose and install it on the supplied aluminum adapter from the Unitronic Intercooler Kit. (See Fig. 48A, 48B & 48C)

49 Install the Aluminum adapter into the pancake pipe and ensure that it's fully seated and clipped in place with the retaining clip. (See Fig. 49A & 49B)

50 Locate the Unitronic Intercooler Hose Kit (UH0011-IC1) and install the inlet hose between the aluminum adapter and the intercooler core's inlet. (See Fig. 50A & 50B) Secure bolt supplied clamps with your flat head screw driver.

51 Install the Intercooler Outlet hose between the intercooler core outlet and throttle body pipe. Secure bolt supplied clamps using your flat head screw driver. (See Fig.51)

FIG. 46

FIG. 47

FIG. 48A

FIG. 48B

FIG. 48C

FIG. 49A

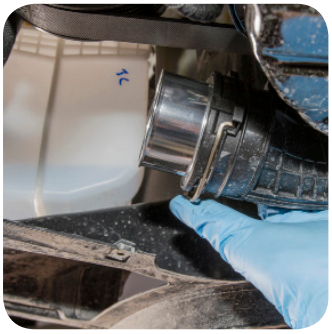
FIG. 49B

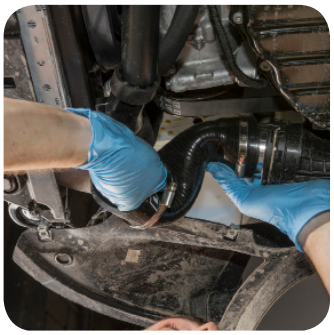
FIG. 50A

FIG. 50B

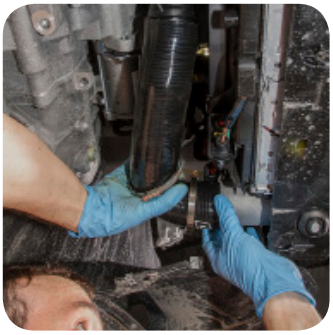
FIG. 51

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52 Next, re-install the bumper cover. Bring the bumper cover close to the vehicle to re-connect the fog lights (if equipped) (See Fig.52). Slowly re-install the bumper cover making sure to slide it in the appropriate guide rails to clip it into place. (See Fig.53A & 53B)

53 Re-install the bolt holding the bumper cover to the fender on both the driver's and passenger's side. (See Fig.54)

54 Re-install the three (3) bolts holding the bumper cover to the radiator support. (See Fig.55)

55 Re-install the eight (8) bolts holding the lower portion of the bumper cover to the radiator support. (See Fig.56)

56 Re-install the belly pan with the eight (8) original T25 Torx bolts. (See Fig.57)

57 Finally, re-install the four (4) T25 Torx bolts to affix the fender liner to the bumper cover.

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FIG. 52

FIG. 53A

FIG. 53B

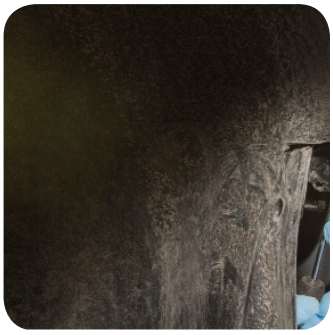
FIG. 54

FIG. 55

FIG. 56

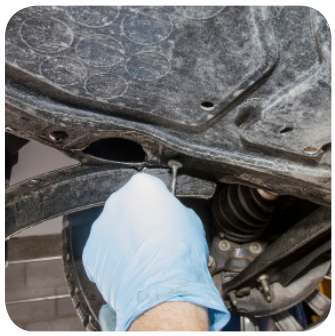
FIG. 57