



INSTALLATION INSTRUCTIONS

Unitronic Intercooler Upgrade for MK8 GTI® / Golf R® UH023-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 the installation.

PACKING LIST:

PART NUMBER	DESCRIPTION	QUANTITY INCLUDED
UH016-IC0	Spacer kit for MK8 GTI/R Intercooler	1
UH011-IC3	MQB Intercooler Black	1

RECOMMENDED TOOLS NEEDED:

- 7mm socket
- 10mm socket
- 16mm socket
- T30 torx
- T25 torx
- 3/8 ratchet
- 3/8 extension
- Flat head screwdriver
- Hammer
- Channel lock pliers



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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** Using a T25 Torx, remove the two (2) fasteners holding the front grill in place. (See Fig. 1)
- 3** Remove the grill by pulling it towards the front of the vehicle, releasing the bottom clips. Proceed with caution when removing the grill as there are connectors for the grill lights and radar sensor.
- 4** Disconnect the radar sensor and grill lights. (See Fig. 2)
- 5** Loosen the two (2) T25 Torx fasteners for the airduct. Note: these do not come all the way out. (See Fig. 3)
- 6** Remove the two (2) T25 Torx fasteners from the radiator support. (See Fig. 3)
- 7** Remove the airduct from the engine bay.
- 8** Remove the four (4) T25 Torx from the bumper cover (See Fig. 4)
- 9** Remove the eight (8) T25 Torx from the belly pan (See Fig. 5)
- 10** Remove the nine (9) T25 Torx from the bottom of the bumper cover (See Fig. 6)
- 11** Remove the three (3) T25 Torx from the fender lining from both sides (See Fig. 7)
- 12** Carefully pull back the fender liner and remove the one (1) T25 Torx for the bumper cover. There is one on the left side and right side in the same location. (See Fig. 8)

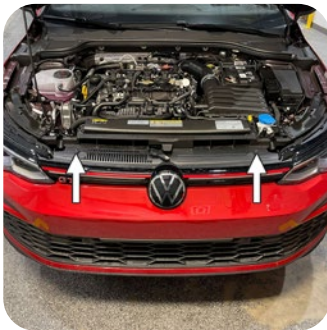


FIG. 1

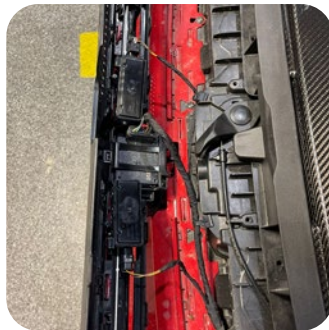


FIG. 2

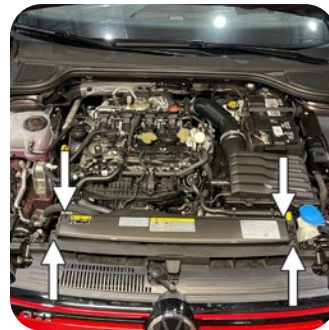


FIG. 3



FIG. 4

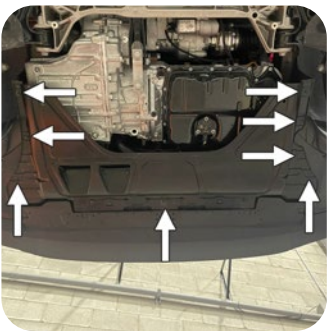


FIG. 5



FIG. 6



FIG. 7



FIG. 8



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- 13** With a friend, pull on each end of the bumper to unclip it from the headlight support. Pull slowly as there are plugs for the parking sensors and fog lights that will need to be disconnected.
- 14** Remove the bumper cover from the vehicle and carefully place aside (See Fig. 9)
- 15** Starting on the left side, remove the driver side radiator support bracket. Using a T30 Torx, remove the five (5) fasteners holding the support bracket to the body. (See Fig. 10)
- 16** You will now need to find an object to carefully place in the engine bay to hold the hood in the upward position as the hood prop bracket will need to be removed. (See Fig. 11)
- 17** You can now disconnect the headlight connectors in the engine bay and on the sides of the headlights.
- 18** With the hood safely being held in the upright position, you can remove the headlights from the vehicle. There is one (1) T30 Torx holding the headlight to the side of the vehicle and two (2) 10mm nuts that will need to be removed as well as one (1) T30 Torx on the inside. Note: repeat the same process on the left side. (See Fig. 12, 13&14)
- 19** Using a 7mm socket or flat head screwdriver, loosen both hose clamps on the intercooler charge pipe silicones and pull them back from the intercooler. (See Fig. 15)

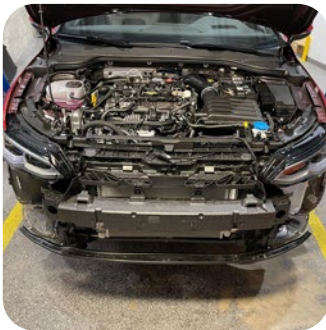


FIG. 9

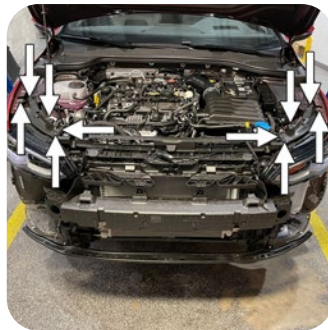


FIG. 10

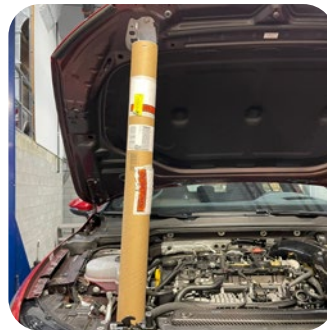


FIG. 11



FIG. 12



FIG. 13

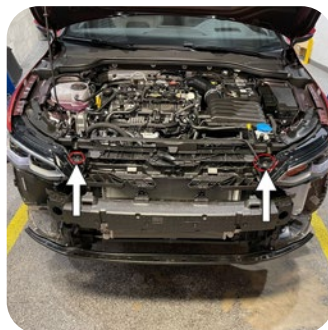


FIG. 14



FIG. 15



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- 20** Disconnect both the crash sensors on the driver and passenger side and hood pop sensor (See Fig. 16&17)
- 21** Disconnect the horn on the left and right side (See Fig. 18&19)
- 22** Disconnect the Ambient air temperature sensor found below the crash bar (See Fig. 20)
- 23** Secure the radiator support using a bucket or chair and remove the eight (8) 16mm bolts holding the crash bar to the vehicle's frame (See Fig. 21)
- 24** On the left and right side of the crash bar, there are a total of four (4) T30 Torx. Remove the four (4) T30 Torx to remove the crash bar from the front of the vehicle. (See Fig. 22)
- 25** Remove the air duct shield from the left and right side of the support. There are two clips on each side that need to be released to remove the shields. (See Fig. 23)

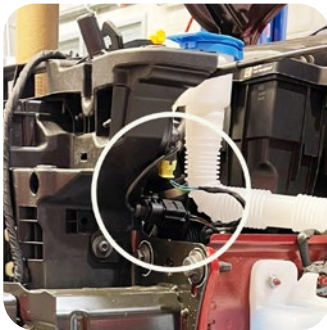


FIG. 16

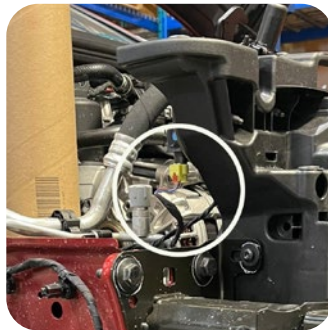


FIG. 17

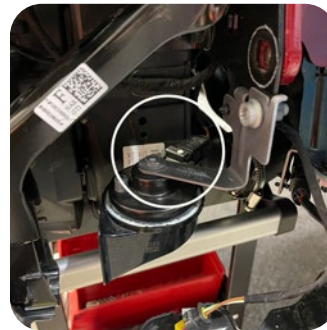


FIG. 18



FIG. 19

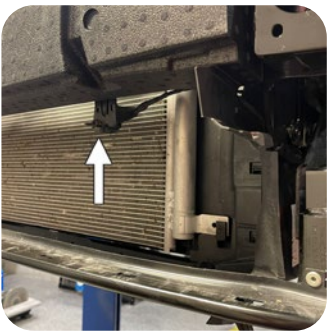


FIG. 20



FIG. 21



FIG. 22



FIG. 23



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- 26** Remove the intercooler from the radiator support by pushing down on the two tabs with a pair of pliers and lightly hitting with a hammer. (Fig. 24)
- 27** Remove the condenser by pushing on the tabs at the top of the intercooler. Once removed from the intercooler, you can carefully place it aside. (See Fig. 25)
- 28** Remove the radiator from the intercooler by pushing down on the tabs to release it. (See Fig. 26)
- 29** Using the UH016-IC0 Unitronic Spacer kit, install a spacer into each mounting bracket and install the mounting brackets onto the Unitronic Intercooler. (See Fig. 27&28)
- 30** Reinstall the Unitronic Intercooler into the radiator support by lining up the bottom tabs in the rubber grommets
- 31** Reinstall the condenser onto the front of the intercooler in the brackets.
- 32** Using the hardware kit UH005-IC0, install the set screws into the intercooler and tighten them using a 2.5mm Allen Key (See Fig. 29)
- 33** Using the two (2) T30 Torx fasteners from the spacer hardware kit (UH016-IC0) install them into the intercooler mounting brackets and tighten. The fasteners provided will create threads into the bracket to securely fasten the intercooler into the radiator support (See Fig. 30)
- 34** Follow the steps back to finalize the installation of the Unitronic Intercooler.

CONGRATULATIONS! You have successfully installed Unitronic's Intercooler!



FIG. 24



FIG. 25



FIG. 26



FIG. 27



FIG. 28



FIG. 29



FIG. 30