



INSTALLATION INSTRUCTIONS

Unitronic Intercooler Upgrade Kit for SQ5® 3.0 TFSI® MLB Evo UH019-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
UH017-IC3	Unitronic Intercooler	1
UH011-IC0	Hardware Kit (M6 bolts (4x) and washers (4x))	1
UH015-IC0	Hardware Kit (brackets (2x) and bolts (4x))	1

RECOMMENDED TOOLS NEEDED:

- 1/4" or 3/8" ratchet
- T25 Torx
- T30 Torx
- 4mm Allen
- 7mm socket
- 10mm socket
- 3/8" socket
- Flat head screwdriver
- Small pry bar
- Plastic pry bar (optional for trim removal)
- Drill
- 1/8 drill bit (7/32 maximum drill size)



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- 1** Unpack all components of your Unitronic Intercooler System, lay them out on the table, and ensure that you have all the pieces as listed in the packing list above.
- 2** Place the vehicle securely on jack stands or on a lift, remove the front wheels and open the engine compartment.
In the engine compartment:
- 3** Remove the hood latch by pushing the tab in on the top of the latch and pulling upwards on the latch to remove it. (Fig. 1)
- 4** Remove the radiator shroud by pulling up starting on either side to unclip it from the grill, gently make your way to the other side, then pull it out of the support by pulling forward on the shroud. (Fig. 2, 3)
- 5** Mark the position then, remove the two (2) T25 fasteners holding the top of the front bumper cover to the bumper support. (Fig. 4, 5)
- Underneath the car:**
- 6** Remove the twelve (12) T25 fasteners holding the underbelly pan and note how it is attached to surrounding panels. (Fig. 6)
- 7** Remove the four (4) T30 fasteners holding the front bumper cover, the four (4) T25 fasteners holding the wheel spoiler and the bottom of the fender trim. Some models may have a T20 fastener and a small steel clip holding the bottom of the fender trim. (Fig. 7)

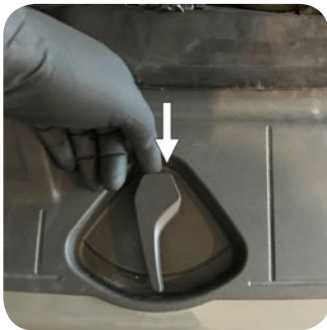


FIG. 1



FIG. 2

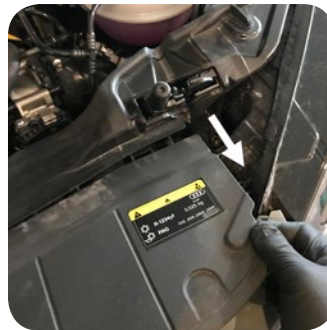


FIG. 3

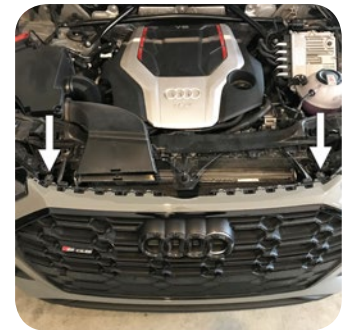


FIG. 4



FIG. 5



FIG. 6

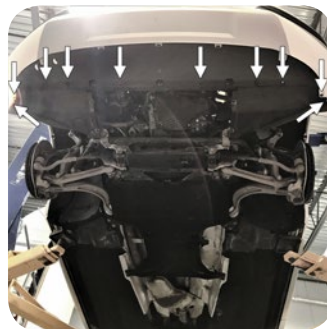


FIG. 7



INSTALLATION INSTRUCTIONS

Unitronic Intercooler Upgrade Kit for SQ5® 3.0 TFSI® MLB Evo
UH019-ICA

In the wheel housing:

- 8** Remove the six (6) T25 fasteners, the three (3) 10mm plastic nuts, the one (1) plastic pin at the top and the one (1) T30 fastener holding the front wheel housing liner and bottom wheel spoiler. (Fig. 8)
- 9** Carefully maneuver the liner out of the studs and fold it back behind the disc brake.
- 10** Unclip headlight drain from wheel spoiler then, remove the wheel spoiler and set aside.
- 11** Remove the plastic pushpin clip and the one (1) T25 fastener holding the fender and bumper cover. (Fig. 9)

To remove the fender trim:

Note: Clips may differ between models and model years, do not use excessive force and pay attention to prevent breaking clips and damaging trims.

- 12** Locate bottom clips of the fender trim, identify how it is attached to the bumper by comparing to figures 10 & 11.
- 13** For clips like figure 10, carefully pull the bottom of the fender trim away from the bumper cover to release the first bottom clip then slide towards the rear to release the second bottom clip. (Fig. 10)
- 14** For clips like figure 11, inside the wheel housing release the bottom clip by pressing up on the tab of the clip using a small pry bar or flat screwdriver and push out of the hole to release the bottom of the trim from the bumper cover. (Fig. 11)
- 15** Inside the wheel housing, locate and release the four (4) clips one by one by pressing on the tab of the clip using a small pry bar or flat screwdriver then pull trim away from the bumper cover to release. (Fig. 12, 13)



FIG. 8



FIG. 9



FIG. 10



FIG. 11

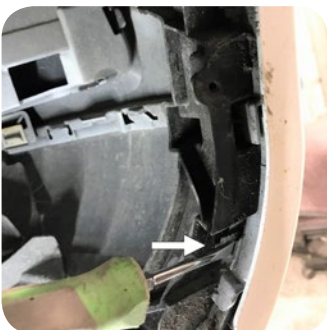


FIG. 12

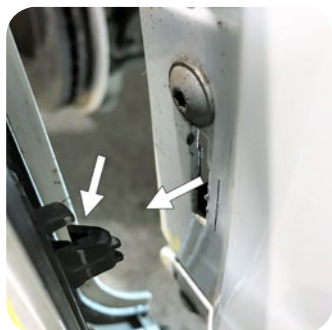


FIG. 13



INSTALLATION INSTRUCTIONS

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UH019-ICA

16 To release the trim from the fender, locate the pins, release one by one by gently pulling on trim to release. Releasing two (2) to three (3) pins is sufficient. (Fig. 14)

17 Repeat steps 8 to 16 on the other side.

To remove the bumper:

Note: Apply masking tape on the fender above the bumper cover joint to prevent damage to paint.

18 Pull bumper cover away from the side of the front fender. Repeat on the other side. (Fig. 15)

19 Locate and disconnect the electrical connectors in the front side of left wheel housing. (Fig. 16)

20 Pull and lift the bumper cover away from the front of the car.

To remove the intercooler:

21 Loosen the two (2) hose clamps of the intercooler and pull off the hose on each side. (Fig. 17)

22 Remove the air temperature sensor with its bracket from the crash beam and set aside. (Fig. 18)

23 Remove the plastic air guide that runs up and down by pushing in the two tabs where the air guide connects to the radiator support, pull it forward then gently manipulate the air guide out of the car and set aside. Repeat on the other side. (Fig. 19)

24 Squeeze the top and bottom of the release clips holding the intercooler, pull the top of the intercooler forward to release the intercooler. Repeat on the other side. (Fig. 20)



FIG. 14



FIG. 15



FIG. 16



FIG. 17



FIG. 18



FIG. 19

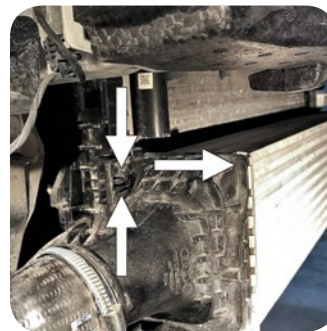


FIG. 20



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25 Lift the intercooler to remove from the support and remove from the vehicle.

To install Unitronic intercooler:

26 Maneuver the Unitronic intercooler behind the crash beam, then seat and align the lower tabs in the factory support tabs.

27 Reinstall both plastic air guides and the outside air temperature sensor.

28 Reinstall the hoses to the intercooler and do not tighten the clamps yet. (Fig. 21)

29 Install the two (2) brackets on the intercooler with the four (4) M6 fasteners and washers provided. Hand tight prior to alignment. (Fig. 22)

30 Move the intercooler away from the crash beam to have 20mm (3/4in) of spacing between both, then adjust the bracket to seat properly on the crash beam and tighten the two (2) M6 fasteners to the intercooler.

31 Verify spacing of the intercooler and its alignment in the bottom tab, hold in place, and mark the two (2) holes on the crash beam on one side. (Fig. 23)

32 Drill one (1) pilot hole using 1/8 drill bit, you can also use the self-drilling screw provided and install one (1) screw to start.

33 Move to the other side, verify spacing of the intercooler and its alignment in the bottom tab.

34 Adjust the bracket to seat properly on the crash beam and tighten the two (2) M6 fasteners to the intercooler and mark the holes.

35 Drill one (1) pilot hole using 1/8 drill bit, you can also use the self-drilling screw provided and install one (1) screw.

36 Verify spacing and alignment prior to drilling the remaining 2 holes, adjust if required, then drill and install the two (2) fasteners. (Fig. 24)

37 Tighten the intercooler hose clamp on each side.

To reinstall the bumper and surrounding parts:

38 Reconnect the electrical connectors in the front side of left wheel housing. (Fig. 16)



FIG. 21

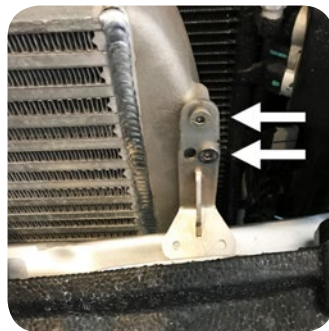


FIG. 22

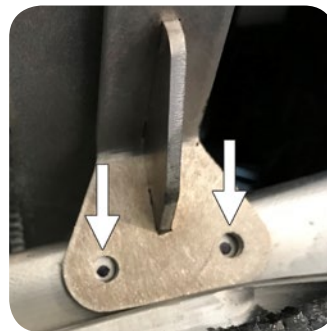


FIG. 23



FIG. 24



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- 39** Reinstall bumper cover and make sure the tabs on the top of the bumper slide into the slots on the top of the bumper support.
- 40** Snap bumper cover in the side of the front fenders.
- 41** Align and reinstall the two (2) T25 fasteners holding the bumper cover to the bumper support. (Fig. 5)
- 42** Reinstall the radiator shroud by sliding it into the support. Carefully align all the tabs and push down, it should clip into place with very little force.
- 43** Reinstall the hood latch by aligning it in the center and pushing down, you should hear it click back into place.
- 44** Reinstall the plastic pushpin clip and the (1) T25 fastener holding the fender and bumper cover. (Fig. 9)
- 45** Reinstall the fender trim by pressing the clips back in the fender and bumper cover
- 46** Reinstall the bottom wheel spoiler and clip the headlight drain back in place.
- 47** Unfold the wheel housing liner, push back into place.
- 48** Reinstall the (1) T30 fastener holding the bottom wheel spoiler then, the six (6) T25 fasteners, the three (3) 10mm plastic nuts and the (1) plastic pin at the top holding the front wheel housing liner. (Fig. 8)
- 49** Repeat steps 44 to 48 on the other side
- 50** Reinstall the four (4) T25 fasteners holding the wheel spoiler and the bottom of the fender trim. Reinstall the two (2) steel clips and two (2) T20 fasteners if equipped. (Fig. 7)
- 51** Reinstall the four (4) T30 fasteners that hold the front bumper cover. (Fig. 7)
- 52** Reinstall the twelve (12) T25 fasteners holding the underbelly pan and make sure surrounding panels are back into original position. (Fig. 6)
- 53** Reinstall the front wheels (torque 88lb-ft or 120Nm), close the engine compartment and remove the vehicle securely from the jack stands or from lift.

CONGRATULATIONS! You have successfully installed Unitronic's Intercooler Upgrade Kit!