



INSTALLATION INSTRUCTIONS

Unitronic Downpipe for 2.5 TFSI® DAZA UH033-EXA

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 |
|-------------|--|-------------------|
| UH035-EX2 | Downpipe for 8V/8S 2.5 TFSI EVO | 1 |
| UH011-EX3 | Driver Side Midpipe (includes gasket (1x) and nuts(3x)) | 1 |
| UH012-EX3 | Passenger Side Midpipe (includes gasket (1x) and nuts(3x)) | 1 |
| UH007-EX0 | Hardware Kit (includes M8 screws (6x) and washers (6x)) | 1 |

SUGGESTED TOOL UH013-TLA Unitronic Drive Shaft Removal Clamp for 8V/8S 2.5 TFSI: (SOLD SEPARATELY)

| PART NUMBER | DESCRIPTION | QUANTITY INCLUDED |
|-------------|--|-------------------|
| UH001-TL9 | Unitronic Drive Shaft Removal Clamp for 8V/8S 2.5 TFSI | 1 |
| UH002-TL9 | Socket Head Screw, M10 | 2 |
| UH003-TL9 | Eyebolt, M8 | 1 |

RECOMMENDED TOOLS NEEDED:

- Oxygen Sensor Wrench (22mm)
- Oxygen Sensor Wrench (22mm)
- T25 Torx
- T45 Torx
- 8mm Allen
- 10mm Female Triple Square (12 points socket)
- 10mm Triple Square
- 7mm socket
- 12mm socket
- 13mm socket
- 16mm socket
- 18mm socket
- Flat head screwdriver
- Pry bar
- Hose clamp pliers (i.e. Corbin style hose clamp)
- Sliding hammer
- Specialty driveshaft removal clamp (highly recommended), Unitronic Drive Shaft Removal Clamp
- Ross-Tech VCDS® diagnostic cable



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- 1** Unpack all components of your Unitronic Downpipe 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 a vehicle hoist and open the engine compartment.
- 3** Allow the vehicle to cool down before following the next steps (use a fan to accelerate the process).

In the engine compartment:

- 4** Remove engine cover by pulling upwards on the cover.
- 5** Remove the flexible coupler using a 7mm socket and then remove the rear intake tube using a T30 torx and a hose clamp plier (from behind the intake tube) (See Fig. A)
- 6** Unplug both Oxygen sensors located near the brake fluid reservoir. (See Fig. B)
- 7** Remove the O2 sensor harness retaining clips from the firewall and the rear intake tube support
- 8** Remove the upper and lower O2 sensors for the downpipe using an O2 sensor wrench (or 22mm key) and set them aside. (See Fig. C)
- 9** Remove the retaining fastener from the factory v-band using a T25 torx. (See Fig. D)

- 10** Using a flat head screwdriver or a pry bar, pry the v-band clamp all around the flange.
- 11** Once loose, reinstall the retaining fastener to keep the assembly loose.

Underneath the car:

- 12** Remove the plastic belly pan using a T25 torx (7x) and T45 torx (3x). (See Fig. E)
- 13** Remove both downpipe mounting fasteners using a 10mm triple square. (See Fig. F)



FIG. A



FIG. B



FIG. C



FIG. D



FIG. E



FIG. F



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- 14** Remove both fasteners securing the mount to the subframe using a 13mm socket. (See fig. F)
- 15** Remove all six (6) fasteners securing the midpipes to the downpipe using a 12mm socket. (See Fig. G)
- 16** Loosen the four (4) exhaust clamp fasteners using a 13mm socket, slide them back onto the catback and remove the midpipes. (See Fig. H)
- 17** Disconnect both exhaust valve harnesses from the muffler and unclip the harness from the driver side muffler hanger. (See Fig. I, L)
- 18** Remove the front hanger off of the catback using a 13mm socket. (See Fig. J)
- 19** Pry off the middle hanger off of the catback. (See Fig. K)
- 20** Support the catback and remove both muffler hangers using a 13mm socket. (See Fig. L, M)
- 21** Remove the catback from the vehicle. A second pair of hands is highly recommended to safely remove the catback.
- 22** Remove the four (4) heat shield retaining clips (pry off or loosen with long nose pliers) and loosen the eight (8) plastic nuts for the under-body panel using a 10mm socket. (See Fig. N)

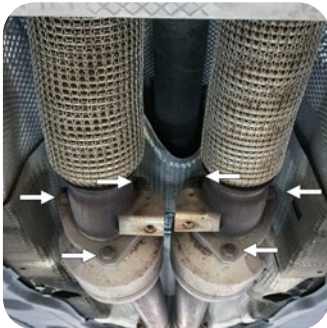


FIG. G

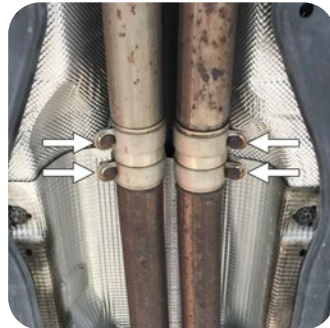


FIG. H

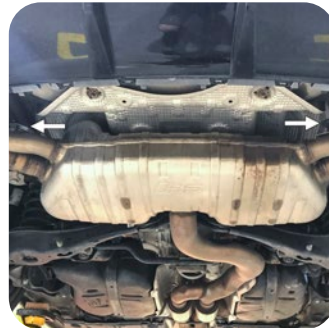


FIG. I



FIG. J

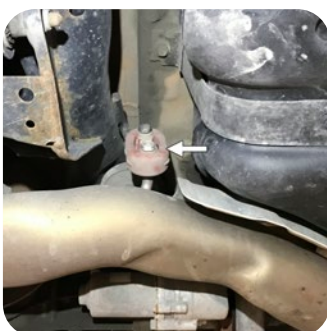


FIG. K

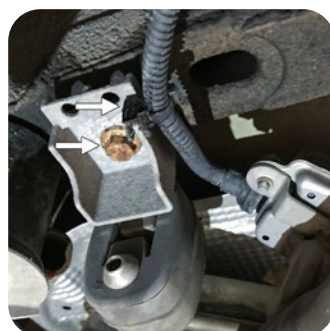


FIG. L

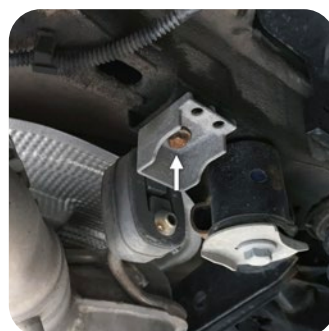


FIG. M



FIG. N



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- 23** Remove the heat shield.
- 24** Remove the three (3) fasteners securing the driveshaft to the rear differential using a 10mm triple square socket. (See Fig. O)
- 25** Install the Unitronic Driveshaft Removal Clamp (UH013-TLA. Sold separately) onto the driveshaft. Assemble the Unitronic driveshaft removal clamp around the driveshaft with both of the supplied fasteners. Using an 8mm Allen, tighten both fasteners and install the eye bolt towards the rear of the vehicle. (See Fig. P, Q, R)
- 26** Remove the four (4) fasteners securing the driveshaft bearing carrier to the chassis using a 13mm socket. (See Fig. Q)
- 27** Install slide hammer on the driveshaft removal clamp to make the driveshaft slide backwards. (See Fig. R)
- 28** Strike the slide hammer to slide the driveshaft backward until free.
- 29** Carefully remove the driveshaft out of the vehicle. A second pair of hands is highly recommended to safely remove the driveshaft. Note: The drive shaft joint should be maintained at the installed angle the entire time, making sure not to kink the joint.
- 30** Remove the driveshaft removal clamp from driveshaft.
- 31** Remove both fasteners securing the passenger axle heat shield using an 8mm Allen. (See Fig. S)



FIG. O



FIG. P



FIG. Q

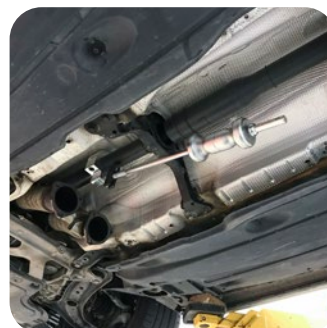


FIG. R



FIG. S



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- 32** Remove the three (3) fasteners securing the heat shield to the transfer case and the fastener for the downpipe's side mount bracket using a 13mm socket, 16mm socket and a 10mm triple square. (See Fig. T, U, V)
- 33** Remove both transmission mount fasteners using an 18mm socket. (See Fig. W)
- 34** Remove both steering rack fasteners securing it to the subframe using a 18mm socket. (See Fig. X)
- 35** Remove all six (6) fasteners securing the brackets to the subframe and chassis using a 14mm socket and an 18mm socket. (See Fig. X)
- 36** Disconnect leveling sensors on both the driver and passenger side. (See Fig. Y)
- 37** Before removing the upper subframe fastener on both driver and passenger side, mark the subframe's position on the chassis then remove both fasteners using an 18mm socket. (See Fig. Y)
- 38** Lower the subframe, remove the v-band clamp and remove the downpipe.

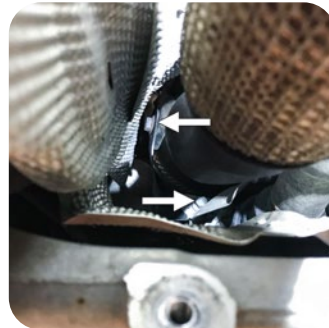


FIG. T



FIG. U



FIG. V



FIG. W



FIG. X



FIG. Y



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Underneath the car:

- 39** Reinstall the transfer case heat shield with the three (3) fasteners securing it to the transfer case (from step 32).
- 40** Slide the Unitronic downpipe into place, fasten the downpipe's side mount bracket with the transfer case heat shield bracket with the fasteners from step 32, do not tighten to allow for play when aligning the downpipe flange and the turbo flange.
- 41** Reinstall both subframe fasteners (aligned with your marks from step 37) and tighten them.
- 42** Plugin levelling sensors (from step 36).
- 43** Reinstall all mounting fasteners (from steps 33 to 35) and tighten them.

In the engine compartment:

- 44** Align the downpipe flange with the turbo flange and install the v-band clamp with the retaining bolt and tighten (from step 9).

Underneath the car:

- 45** Tighten the downpipe's side mount fastener (left loose from step 40).
- 46** Reinstall both fasteners securing the passenger axle heat shield (from step 31).
- 47** Reinstall the driveshaft by sliding it fully into the transfer case, install the three (3) fasteners to the rear differential (from step 24) and the four (4) fasteners of the bearing carrier (from step 26).
- 48** Make sure the driveshaft clamp tool was removed and all driveshaft related fasteners are tight.
- 49** Reinstall the driveshaft heat shield with its 4 retaining clips from step 22, you can use a long 10mm socket to gently hammer them back over the studs.
- 50** Push back into place the plastic underbody and screw the eight (8) plastic nuts (from step 22), be careful not to overtighten.
- 51** Reinstall the catback system and reconnect the exhaust valve harnesses (from steps 17 to 20).



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- 52** Install the Unitronic midpipes using the supplied hardware (gaskets, bolts, washers, and nuts), align flanges and tighten the fasteners. (See Fig. Z)
 - 53** Slide the exhaust clamps back over the midpipes and tighten the 4 13mm fasteners (from step 16).
 - 54** Install the downpipe's factory bottom mount onto Unitronic's downpipe and install all four (4) fasteners (from steps 13 and 14) and tighten.
 - 55** Tighten the four (4) exhaust clamp fasteners (from step 16).
 - 56** Reinstall the plastic belly pan (from step 12).
- In the engine compartment:**
- 57** Verify the v-band clamp's retaining bolt is properly tightened.
 - 58** Reinstall upper and lower O2 sensors on Unitronic's downpipe, tighten both sensors and reinstall the harness retaining clips to the firewall and reconnect them (from steps 6 to 8).
 - 59** Reinstall the rear intake tube and then the flexible coupler (from steps 5).
 - 60** Reinstall the engine cover by aligning the grommets and pressing firmly (from step 4).
 - 61** Close the engine compartment and safely remove the vehicle from the lift.
 - 62** Proceed with Readiness Tests of UDS Engine Controllers. **See next page for complete instructions.**



FIG. Z



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63 A Ross-Tech VCDS® cable or similarly capable diagnostic scan tool is required in order to proceed with the following sequence to run the following output test(s) in order to set the readiness monitors. The following procedure is outlined using the Ross-Tech VCDS cable. If you're using another diagnostic scan tool, please refer to the manufacturer for specific test procedure(s).

WARNING -- PLEASE ENSURE THE VEHICLE IS IN A SAFE SPACE AND IN PROPER WORKING CONDITION -- THE EXHAUST SYSTEM AND CATALYST MAY GET EXTREMELY HOT DURING THIS PROCESS. PLEASE PROCEED WITH CAUTION AND AT YOUR OWN RISK.

This process is all about readiness cycles, so it can sometimes take a few attempts to get it to complete with success, depending on the cycle.

=====
[Automatic test sequence] - Readiness Tests of UDS Engine Controllers
=====

All Electrical consumers off

Select [01-Engine]
-Check and clear fault codes, even if there are none

Start engine
-Select [Basic settings]
[Automatic test sequence]

Select the following [Show Measuring Data]
[Operating Instructions] - (As it says, follow instructions)
[Currently running routine] - (Current test being performed)
[Status of actuator test] - (Current status)
[Test steps still to be performed] - (This should count down to 0)
[Engine speed] - (Follow instructions, above)
[Coolant temperature] - (Should be at least 60°C)

Press [Go] for the Basic Settings [Automatic test sequence]

Press and hold brake/accelerator pedal until the test has finished

When the system has finished, you should get the message "System OK" in the [Operating instructions]

After this is finished, you can navigate to viewing the readiness status, and you should see all monitors reporting as ready, assuming there are no monitors that have failed or not completed the output tests.

CONGRATULATIONS! You have successfully installed Unitronic's Downpipe!