



INSTALLATION INSTRUCTIONS

Unitronic 3" Downpipe for Golf® R® UH005-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 to remove the OEM exhaust system.

PACKING LIST:

PART NUMBER	DESCRIPTION	QUANTITY INCLUDED
UH004-EX1	Unitronic 3" Downpipe Section for 2.0 TFSI®/TSI®	1
UH004-EX2	Unitronic 3" Cat Section for 2.0 TFSI/TSI	1
UH001-EX3	Unitronic 3" to 60mm Reducer	1
UH001-EX0	Unitronic 3" V-Band Clamp	2
UH002-EX7	Unitronic 3" Seal Rings	2

RECOMMENDED TOOLS NEEDED:

- Floor Jacks or Vehicle Lift
- 22mm Oxygen Sensor wrench
- 16mm socket
- 13mm socket
- 10mm triple square socket
- Ratchet
- Locking Pliers
- 8" or 12" Pry-Bar
- PB Blaster, WD-40, Liquid Wrench, or any other penetrating oil.



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1 Secure your vehicle safely on jack stands to gain access to the underside of your vehicle and open your hood. It's recommended to disconnect the negative terminal from the battery, too.

2 From underneath the vehicle, use Penetrating Oil to soak the downpipe studs/nuts, o2 sensors, and slip clamp connection between the downpipe and cat-back sections.

NOTE: We recommend you do this first to ensure penetrating oil has ample time to penetrate through any rust or corrosion, by the time you're ready to loosen the nuts. For added ease, spray the studs/nuts multiple times throughout the initial steps.

3 Disconnect the MAF sensor connector (located at the top, passenger side of the engine cover). **(See Fig. A)**

4 Unclip the two (2) clips holding the top of the turbo inlet pipe to the engine cover/intake tubing and separate turbo inlet pipe to engine cover/intake tube. **(See Fig. B)**

NOTE: When removing the turbo inlet pipe from intake tube, ensure that you do not lose or damage the two o-rings used to seal the connection.

5 Using locking pliers, release tension from the clamp holding the air inlet from the airbox/engine cover **(See Fig. C)** and remove air inlet from airbox/engine cover to allow airbox/engine cover removal. **(See Fig. D)**

6 Remove the airbox/engine cover from the engine by pulling upwards to release it from the retaining posts. There are four (4) retaining posts located roughly at the corners of the engine cover. **(See Fig. E)**

7 Unplug the primary o2 sensor connector located near the brake master cylinder on the driver side of the engine bay and remove wire from retaining clip on firewall



FIG. A



FIG. B



FIG. C



FIG. D

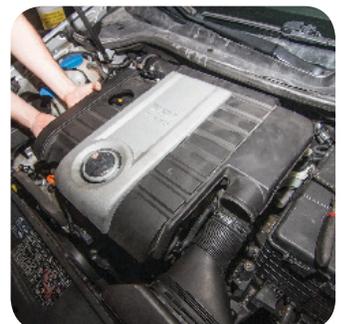


FIG. E



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8 Using a 22mm o2 sensor wrench, remove the primary (Upper) o2 sensor from the stock downpipe. **(See Fig. F)**

NOTE: Please ensure the sensor probes of the o2 sensors are not contaminated with grease, etc. Contaminating the o2 sensor may negatively influence its functionality.

9 Remove the two (2) upper downpipe flange nuts using a 16mm socket and ratchet. **(See Fig. G)**

10 Unbolt the two (2) bolts holding the subframe grommet bracket to the vehicles subframe using a 13mm socket and ratchet. **(See Fig. H)**. Using a pry bar, remove the red grommets from the downpipe hangars.

11 Unbolt the front portion of the passenger side lower plastic cover. **(See Fig. I)** using a 13mm socket and ratchet to access the o2 sensor connector. Temporarily disconnect the sensor. **(See Fig. J)**

12 Loosen the two (2) 16mm nuts on the stock slip clamp holding the downpipe and cat-back sections together using a 16mm socket and ratchet. **(See Fig. K)**



FIG. F



FIG. G



FIG. H



FIG. I



FIG. J



FIG. K



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13 Remove the catalytic converter heat shield bolts to loosen the drive shaft and downpipe and gain more access. **(See Fig. L)**

14 Loosen the three (3) 10mm triple square bolts holding the front of the driveshaft. **(See Fig. M)**

15 Loosen the three (3) 10mm triple square bolts holding the rear of the driveshaft. **(See Fig. N)**

16 Carefully remove the driveshaft from the vehicle, as it is now fully unbolted. **(See Fig. O)**

17 Removing the remaining two (2) bolts on the downpipe flange and slide out the stock downpipe. **(See Fig. P)**

18 Locate the Unitronic 3" Downpipe Section (UH004-EX1) and gasket, and re-install the Unitronic downpipe into the turbo discharge flange and secure the two (2) lower bolts. **(See Fig. Q)**

19 Re-install the driveshaft, starting with the front connection and secure the three (3) bolts using your 10mm triple square. **(See Fig. R)**

20 Slide the rear portion of the driveshaft into place and secure the three (3) bolts using your 10mm triple square. **(See Fig. S)**

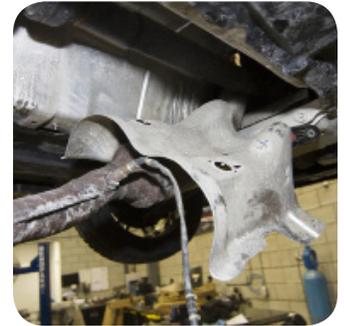


FIG. L

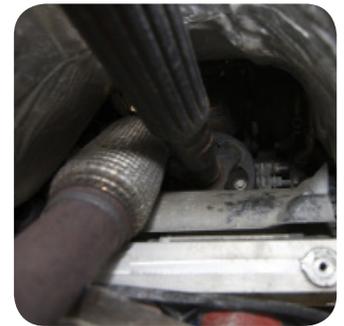


FIG. M



FIG. N

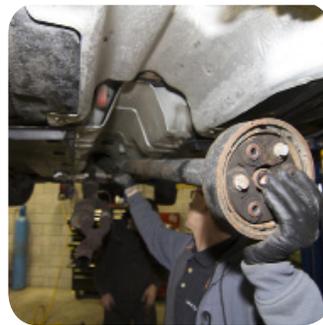


FIG. O

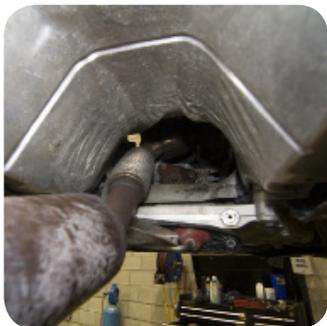


FIG. P



FIG. Q

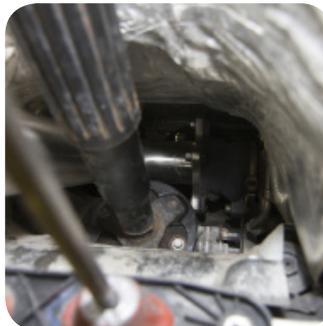


FIG. R

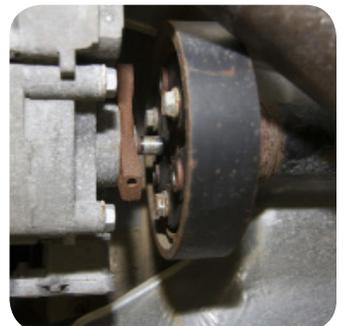


FIG. S



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21 Re-install the heat shield and ensure the driveshaft and heat shield are secured. **(See Fig. T)**

22 Next, locate the Unitronic 3" Cat Section (UH004-EX2), one 3" V-Band clamp (UH001-EX0) and one 3" Seal Ring (UH002-EX7) and align the sealing ring in the proper groove on the v-band flange and secure the clamp to make a sealed connection with the two v-band flanges making a proper seal. **(See Fig. U)**

23 Re-install the o2 sensors in their appropriate positions and ensure they are well connected.

24 Locate the Unitronic 3" to 60mm reducer (UH001-EX3), one 3" V-band clamps (UH001-EX0) and one 3" Seal Rings (UH002-EX7) and connect the cat section to the reducer. **(See Fig. V)**

25 Finally, slip your factory slip clamp into the reducer and secure the slip clamp using your 16mm socket and ratchet.

26 S the v-band clamps to 7lb-ft of torque. It's very important not to over torque the clamps. Finally, tighten the exhaust clamp in the center of the adjustable link at the same time of tightening and adjusting the v-bands. You should re-check torque specifications on the clamps after a full heat-cycle.

CONGRATULATIONS! You have successfully installed Unitronic's 3" Downpipe for Golf R!



FIG. T

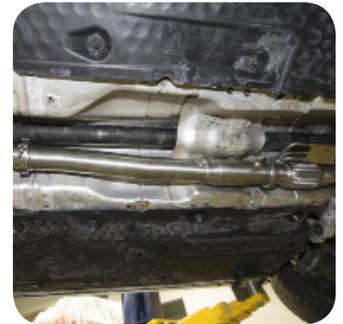


FIG. U



FIG. V