



## INSTALLATION INSTRUCTIONS

### Unitronic Turbo-Back Exhaust System for MK7.5 GTI®, Black Exhaust Tips UH048-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](http://www.getunitronic.com)

It is recommended to confirm all parts are present prior to beginning the installation.

#### PACKING LIST:

| PART NUMBER | DESCRIPTION  | QUANTITY INCLUDED |
|-------------|--|-------------------|
| UH012-EX2   | MQB Cat Section                                    | 1                 |
| UH013-EX1   | MQB Flex Section                                   | 1                 |
| UH004-EX4   | Turbo-Back Link                                    | 1                 |
| UH013-EX5   | MK7 GTI Resonator Section                          | 1                 |
| UH014-EX5   | MK7 GTI Res to Rear Muffler Section                | 1                 |
| UH020-EX6   | MK7.5 GTI Rear Muffler Section                     | 1                 |
| UH005-EX8   | MK7.5 GTI Driver Side Black Exhaust Tip Section    | 1                 |
| UH006-EX8   | MK7.5 GTI Passenger Side Black Exhaust Tip Section | 1                 |
| UH001-EX0   | 3" V-Band Clamp                                    | 5                 |
| UH002-EX7   | Sealing Ring                                       | 5                 |

#### RECOMMENDED TOOLS NEEDED:

- Oxygen Sensor Wrench
- 6mm Allen key
- 13mm socket
- 3/8" Ratchet
- 12" extension
- Torque wrench
- Pry bar (if necessary)



## INSTALLATION INSTRUCTIONS

### Unitronic Turbo-Back Exhaust System for MK7.5 GTI®, Black Exhaust Tips UH048-EXA

- 1** Place the vehicle on jack stands or vehicle hoist and open the engine compartment.
- 2** Unplug the primary Oxygen sensor near the brake fluid reservoir. (See Fig. A)
- 3** Remove the o2 sensor wiring from the firewall retaining clips. (See Fig. B)
- 4** Remove the retaining bolt from the factory v-band using a 6mm Allen key. (See Fig. C)
- 5** Using a 13mm socket, extension, and ratchet, loosen the nut holding the downpipe bracket located near the engine motor mount. (See Fig. D)
- 6** From under the vehicle, use your 13mm socket to remove the 2 nuts holding the downpipe to the engine bracket. (See Fig. E)
- 7** Loosen the two (2) 13mm bolts holding the downpipe to the engine block. (See Fig. F)
- 8** Remove the two (2) 13mm bolts holding the downpipe to the subframe. (See Fig. G)
- 9** Remove the four (4) 13mm bolts holding the chassis reinforcement bracket. (See Fig. H)
- 10** Remove the two (2) 13mm nuts from the middle exhaust sleeve clamp. (See Fig. I)



FIG. A



FIG. B



FIG. C

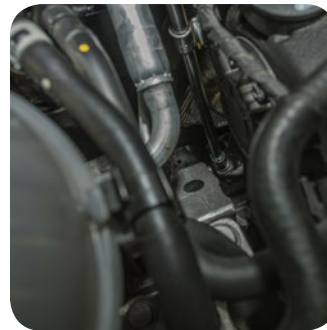


FIG. D



FIG. E



FIG. F



FIG. G



FIG. H



FIG. I



## INSTALLATION INSTRUCTIONS

### Unitronic Turbo-Back Exhaust System for MK7.5 GTI®, Black Exhaust Tips UH048-EXA

- 11** Remove the downpipe from the vehicle by rotating it to the side and sliding it out. (See Fig. J & K)
- 12** Remove the downpipe bracket. (See Fig. L)
- 13** Remove the o2 sensor from the downpipe using your o2 sensor wrench. (See Fig. M)
- 14** Remove the four (4) 13mm nuts holding the rear chassis reinforcement bracket using your 13mm socket (See Fig. N)
- 15** Remove the exhaust hanger from the rubber exhaust bushing. (See Fig. O)
- 16** Remove the 13mm bolts holding the exhaust hangers to the chassis from each side of the rear muffler. (See Fig. P)
- 17** Remove the stock cat-back portion of the exhaust system. (See Fig. Q)
- 18** Remove the exhaust hangers from the stock cat-back rear muffler. (See Fig. R)
- 19** Locate the Unitronic Cat Section (UH012-EX2) and install the primary o2 sensor into the correct mounting location. (See Fig. S)



FIG. J

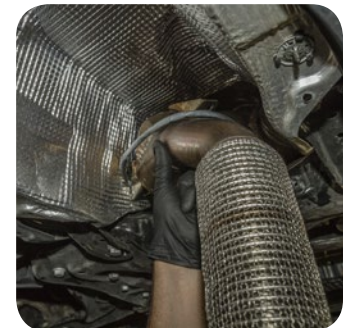


FIG. K



FIG. L

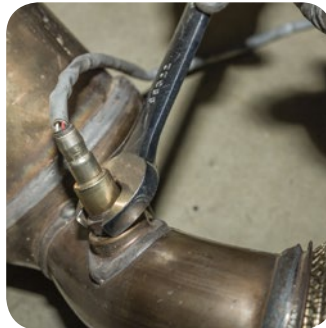


FIG. M



FIG. N

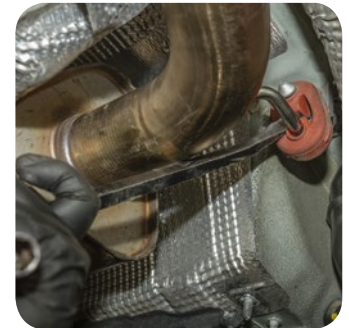


FIG. O

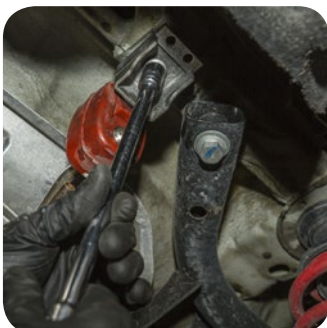


FIG. P

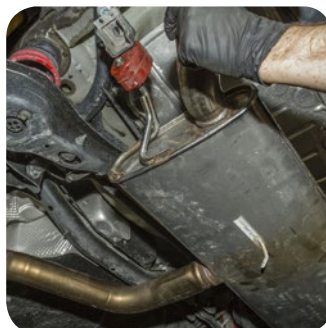


FIG. Q



FIG. R



FIG. S





## INSTALLATION INSTRUCTIONS

### Unitronic Turbo-Back Exhaust System for MK7.5 GTI®, Black Exhaust Tips UH048-EXA

- 20** Install the Cat Section by mating the upper v-band flange to the turbocharger. (See Fig. T) Be sure to align the 2 studs from the downpipe bracket into their specific slots on the downpipe. (See Fig. U)
- 21** Reinstall the two (2) 13mm nuts holding the downpipe to the engine bracket. (See Fig. V)
- 22** Retighten the two (2) 13mm nuts holding the downpipe bracket to the engine block.
- 23** Locate the Unitronic Downpipe Flex section (UH013-EX1) and Install the lower downpipe subframe bracket onto the mounting bracket of the Unitronic Flex Section. (See Fig. W)
- 24** Install the Unitronic Flex Section. (See Fig. X)
- 25** Reinstall the two (2) 13mm bolts holding the lower downpipe subframe bracket to the subframe. (See Fig. Y)
- 26** Locate one of the Unitronic V-Band Clamps (UH001-EX0) and one Sealing Ring (UH002-EX7) and insert the sealing ring into the appropriate groove on the v-band flange, mate the Cat Section and Flex Section's V-band flanges together, and affix the V-Band Clamp around the V-band flanges to secure it in position. (See Fig. Z)



FIG. T

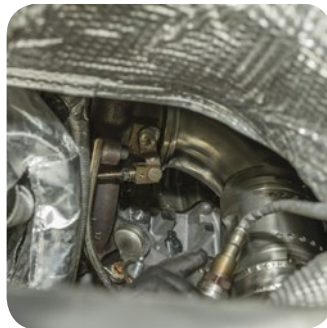


FIG. U



FIG. V



FIG. W

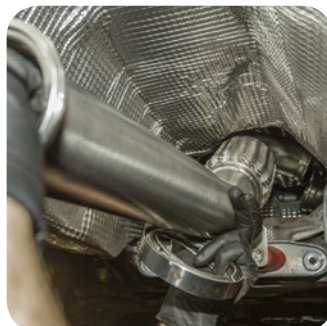


FIG. X

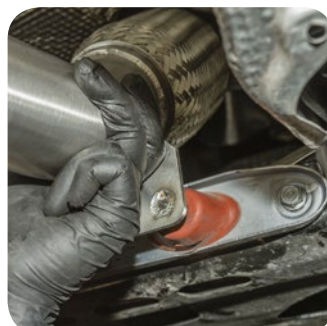


FIG. Y



FIG. Z



## INSTALLATION INSTRUCTIONS

### Unitronic Turbo-Back Exhaust System for MK7.5 GTI®, Black Exhaust Tips UH048-EXA

- 27** Locate Unitronic's Resonator Section (UH013-EX5), Resonator to Rear Muffler Section (UH014-EX5), Rear Muffler Section (UH020-EX6), remaining V-Band Clamps (UH001-EX0), and Sealing Rings (UH002-EX7). On the ground, mock up all three sections of the Unitronic Cat-Back together loosely, placing the sealing rings in the corresponding grooves in the v-band flanges prior to mating the v-band flanges together. (See Fig. AA, BB, & CC)
- 28** Install the rear muffler hangers onto the hangers of the Rear Muffler. (See Fig. DD)
- 29** Begin installing the Unitronic Cat-Back by first aligning the front cat-back hanger into the corresponding rubber exhaust hanger. (See Fig. EE)
- 30** Raise the rear portion of the cat-back and re-install the two (2) 13mm bolts holding the rear muffler hangers to the chassis. (See Fig. FF & GG)
- 31** Locate the muffler tips (UH005-EX8 / UH006-EX8). Install the tips on the muffler with the supplied clamps. Keep the clamps loose while installing the tips on the muffler and tighten them down once properly aligned.
- 32** Slightly rotate the Resonator to Rear Muffler Section of the cat-back to align the rear muffler. (See Fig. HH)



FIG. AA



FIG. BB



FIG. CC



FIG. DD

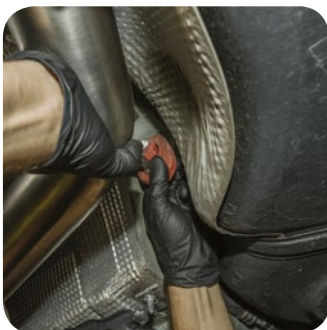


FIG. EE



FIG. FF

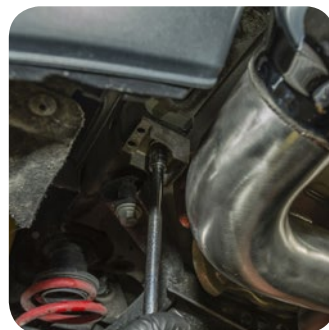


FIG. GG



FIG. HH



## INSTALLATION INSTRUCTIONS

### Unitronic Turbo-Back Exhaust System for MK7.5 GTI®, Black Exhaust Tips UH048-EXA

- 33** Locate the Unitronic Turbo-Back Link (UH004-EX4) and install it between the Downpipe Flex Section and Cat-Back Resonator Section. Be sure to install a sealing ring in the corresponding groove before affixing the v-band clamp around the v-band flanges. (See Fig. II)
- 34** Re-install the stock v-band clamp to mate the turbocharger discharge to the Unitronic Downpipe Cat Section. (See Fig. JJ)
- 35** Re-Install the primary o2 sensor wiring into the corresponding firewall retaining clips. (See Fig. KK)
- 36** Finally, check and adjust tip alignment, if necessary, and tighten all Unitronic V-Band Clamps to 7 ft-lb using a torque wrench.

**CONGRATULATIONS! You have successfully installed Unitronic's Turbo-Back Exhaust System!**



FIG. II



FIG. JJ



FIG. KK