



Installation Instructions

ARK Exhaust System

DT-S Cat-Back with optional Test Pipe

(SM0802-0111D, 0211D; HC0802-0211)

for

Kia Optima (2.4L I4 Theta II and 2.0L I4 Turbo Theta II)

www.arkperformanceusa.com

Congratulations on purchasing an ARK Performance premium exhaust system! Please read and understand the installation instructions before beginning work on the installation of your new ARK Performance exhaust system. If you do not fully understand the instructions, please give us a call at 909-947-1275 or email us at info@ARKPerformanceusa.com

We recommend that this exhaust system be **installed by someone qualified for this work or by a certified mechanic** with access to the appropriate hand or power tools. It is also recommended that a lift or hoist be used during the installation. By installing this ARK Performance exhaust system, you indicate that you have read the installation instructions and you agree with the terms and conditions stated.

It is your responsibility to **follow the installation instructions provided** for this ARK Performance exhaust system and exercise all necessary safety precautions. ARK Performance assumes no responsibility for damages occurring from improper installation, operation, maintenance, or from incompatibility with other manufacturer's products.

Important Information:

Exclusion of Certain Liability

1. The manufacturer, importer, and dealer of ARK Performance products hold no responsibility for any incidental damage such as personal injury or any other damages due to improper installation or operation of an ARK Performance exhaust system. When installing an ARK Performance exhaust system, make sure the exhaust system does not touch other parts of the vehicle that are sensitive to high temperature.
2. ARK Performance will not warranty any damages caused by improper installation, use, and maintenance of the ARK Performance exhaust system. The warranty is limited to defects that are recognized by our technical department, this excludes items subject to normal wear such as the flange gaskets. This warranty is void in the case of an accident, modification, improper use, or competition use.
3. Do not install any ARK Performance exhaust system on a vehicle model for which it was not intended for.
4. The exhaust system will be very hot during and immediately after operation of the vehicle, please be careful not to burn yourself on the exhaust system or parts which are in direct contact with it. Also please protect other people, especially children, from any injuries due to the hot exhaust system.
5. Technical specifications of ARK Performance exhaust systems and related products are subject to change without notice.
6. Before removing the original exhaust system from your vehicle, please compare the parts that you received with the list of materials provided in the installation instructions. If anything is missing, contact ARK Performance before beginning installation.
7. The instructions for installation should serve as a guideline only, actual installation of the exhaust system may not correspond with the pictures entirely.
8. The process of uninstalling the original exhaust system may vary depending on the existing exhaust system so please follow the original exhaust system manufacturer's instructions for removal.

Trademarks

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ARK Performance website

Information about ARK Performance exhaust systems and related products is available on the ARK Performance website at: <http://www.arkperformanceusa.com/>

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Contents

- Rear Section Muffler— 2
- Y-Pipe—1
- Resonator Pipe—1
- Flange Gasket—full set
- Bolts & Nuts—full set
- **Optional Parts (HC0802-0211):**
 - Test Pipe (resonator and high flow catalytic converter)—1
 - Flange Gaskets—full set
 - Bolts & Nuts—full set

Tools Required

- Socket Wrench/Wrench:
 - 10 mm
 - 12 mm
 - 13 mm
 - 16 mm (5/8 in)
 - 19 mm
- Socket Wrench Extension
- Lubricant (WD-40)
- **Optional Tools:**
 - 22 mm Wrench

Warning

- Before removing the original exhaust system, be sure to give sufficient time for the exhaust piping and surrounding parts to cool down. They can be extremely hot!
- If any items in the package are missing please contact your authorized dealer before installation.
- We advise you to have an experienced person or certified mechanic install the exhaust system.
- Loosely fasten all nuts and bolts until everything is installed, then tighten them down to the proper torque specs as you align the exhaust system.
- These instructions are specific for the 2011-ON Kia Optima [2.4L I4 Theta II and 2.0L I4 Turbo Theta II]. However, please be sure to specify the exact year and model when purchasing the exhaust system.

Removal of OEM exhaust system (2.0T model shown)

Optional part:



1. Unbolt the catalytic converter using a 19 mm socket wrench (Figure 1)

2. The rubber insulator and metal hanger in the picture DO NOT need to be removed (Figure 1)



3. Unbolt the O2 Sensor with a 22 mm open ended wrench (Figure 2)



4. It is not required, but it is recommended to remove the cross brace first before removing the catalytic converter using a 10 mm socket wrench (Figure 3)

5. Unbolt the catalytic converter pipe from the resonator pipe using a 19 mm socket wrench (Figure 3)



6. Spray the rubber insulators and metal hangers on the catalytic converter pipe with a lubricant and remove the pipe from the vehicle (Figure 4)

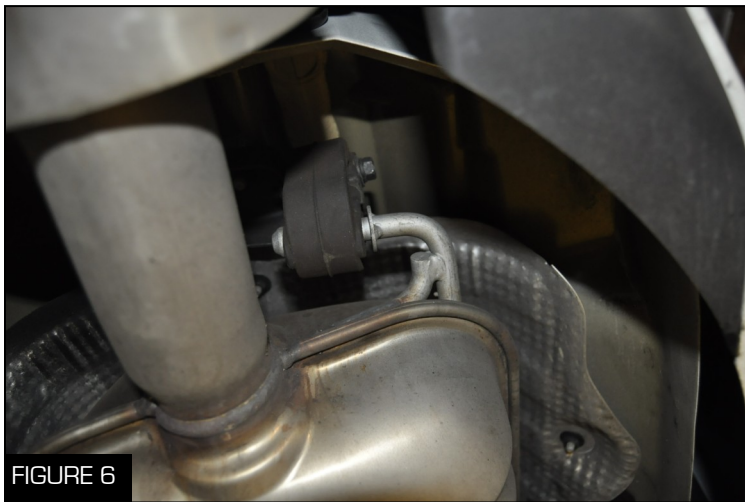
Removal of OEM exhaust system (2.0T model shown)



7. Unbolt the resonator pipe from the driver side muffler using a 19 mm socket wrench (Figure 5)



10. Unbolt the rubber insulator for the resonator pipe using a 12 mm socket wrench and remove the resonator pipe and passenger side muffler (Figure 7)



8. Unbolt the two rubber insulators for the mufflers using a 12 mm socket wrench (Figure 6)

9. Remove the driver side muffler from the vehicle (Figure 6)

Installation of ARK Performance DT-S exhaust system

Optional part:



FIGURE 8

1. Spray the rubber insulators on the test pipe with a lubricant and slide the metal hangers into the insulators (Figure 8)

2. Bolt the test pipe to the vehicle with the OEM gaskets and nuts, using a 19 mm socket wrench (Figure 8)



FIGURE 9

3. Bolt the resonator pipe to the OEM catalytic converter or ARK test pipe using the OEM gasket and nuts using a 19 mm socket wrench or supplied gasket, nuts, and bolts using two 16 mm socket wrenches (Figure 9)



FIGURE 10

4. Bolt the Y-pipe to the resonator pipe (this can be done off the vehicle) with the supplied gasket, nuts, and bolts using two 16 mm socket wrenches (Figure 10)

5. Spray the rubber insulator and metal hanger with a lubricant and slide the hanger into the insulator for the Y-pipe (Figure 10)

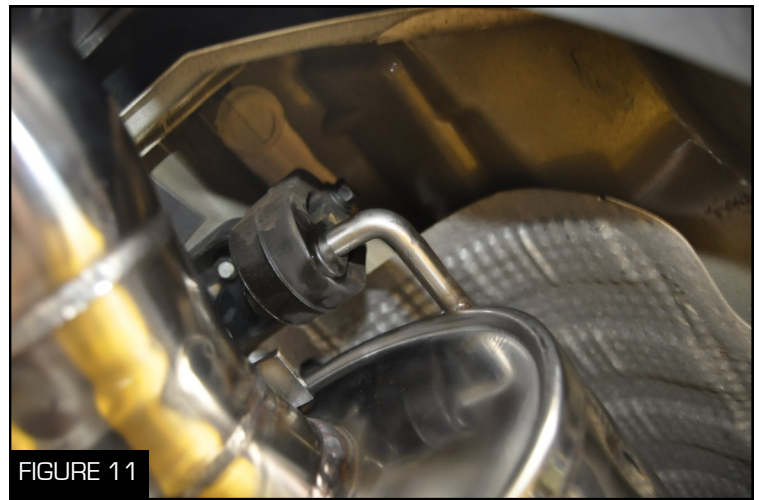


FIGURE 11

6. Put the OEM rubber insulators on to the mufflers and bolt the insulator to the vehicle using a 12 mm socket wrench (Figure 11)



Installation of ARK Performance DT-S exhaust system



FIGURE 12

7. Bolt the mufflers to the Y-pipe with the supplied gaskets, nuts, and bolts using two 16 mm socket wrenches (Figure 12)



FIGURE 13

(Passenger side shown)

8. Loosen the bolt between the two brackets with both 12 and 13 mm socket wrenches (Figure 13).

9. Remove the OEM nut facing the inside of the vehicle and bolt the bracket to it using a 12 mm socket wrench (Figure 13)



FIGURE 14

10. While one person holds the tips in place, the other person should tighten down each nut and bolt to the proper torque specs (Figure 14)

First Operation

Before starting the vehicle, be sure that no part of the exhaust system is touching a heat sensitive area or an area that will cause a rattle and vibration.

It is normal to have white smoke come from the exhaust system upon first start up and operation.

Be sure to check that there are no exhaust leaks, this can be done by revving the motor in neutral to 2,000-2,500 rpm and listen to the piping for any leaks.

Maintenance

Please do not use any acidic chemicals or abrasive materials when cleaning your ARK Performance exhaust system.

We recommended that you **ONLY** use water and/or automotive soap when cleaning either the Burnt or Tecno tips.

It is recommended to check the nuts and bolts periodically to make sure they have not come loose, re-tighten them if necessary.

