

ALTA

MINI PERFORMANCE

R56 Cooper S 3" Downpipe System

07/08/10

Thank you for purchasing the ALTA Performance downpipe. Installation of this kit should only be performed by persons experienced in the installation and proper operation of MINI Cooper Exhaust systems. This system is designed to use with the ALTA 3" Catback R56 exhaust. This system may be adaptable to other systems, please consult your dealer for further info.

WARNING: This part is designed, manufactured, and sold solely for use on off-road and racing vehicles not controlled by federal and or local emissions laws. It is not intended for use on vehicles that operate on public streets and highways. Use of this part on emissions controlled vehicles may be in violation of federal or local law! ASMC, LTD. is not responsible for any damages as a result of misuse of this part. Check your local laws prior to use or installation.

Due to widely varying ECU's, operating parameters with-in these ECU's, and atmospheric conditions, we can not guarantee that the ALTA downpipe will operate in a "Check Engine Light" free state. Early 2007 R56's with "NO" ECU update from their dealer should have no problems. Any 07+ R56 with ECU update from dealer WILL throw a PO420 code. If your ALTA downpipe causes a "Check Engine Light", please contact us with the actual "Check Engine Light" code and we will send you a potential fix. This fix is also not guaranteed to work. Please contact us with any questions or concerns.

SPECIAL NOTES:

- Use of the factory service manual can be very helpful during the installation. These can be purchased at the dealership or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- It is important to tighten set screws in exhaust hanger clamps to keep system centered in bumper.
- Take time when aligning both front and rear downpipe sections. Adjusting the downpipe sections can affect the rotation and relationship to the catback exhaust, the muffler, some length changes can also be done by adjusting the slip fit connection.
- Take time locating all heat shield bolts, these are tricky!

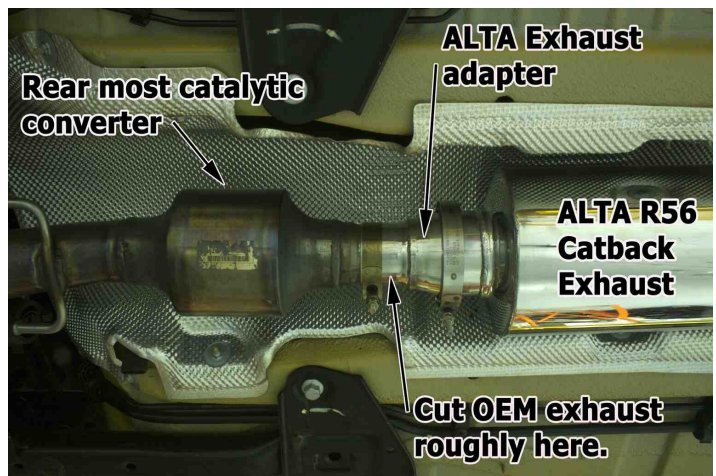
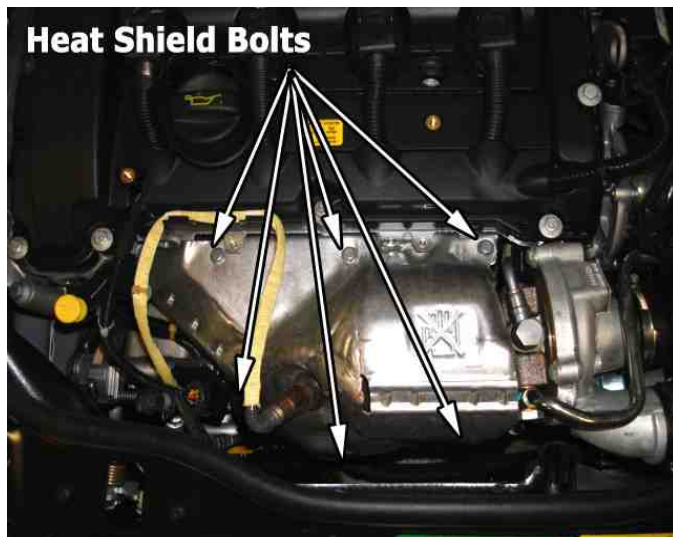
Parts Included with the ALTA R56 Downpipe System:

- (1) 2007 Mini Turbo Downpipe Front Section
- (1) 2007 Mini Turbo Downpipe rear section
- (1) ALTA 3" V-band clamp
- (1) O2 sensor bung plug
- (1) Polish packet

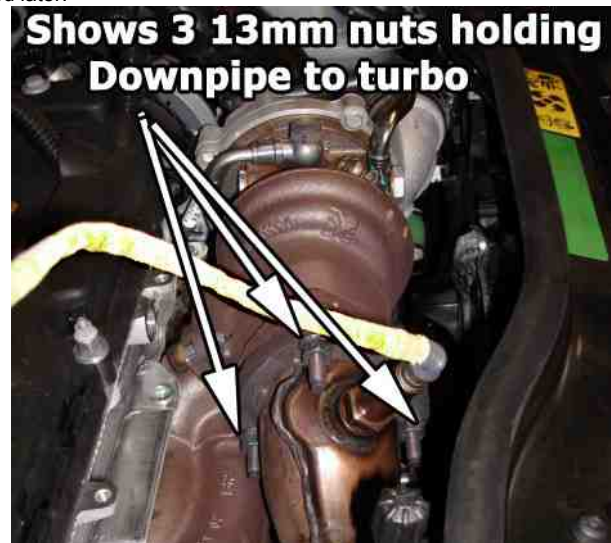
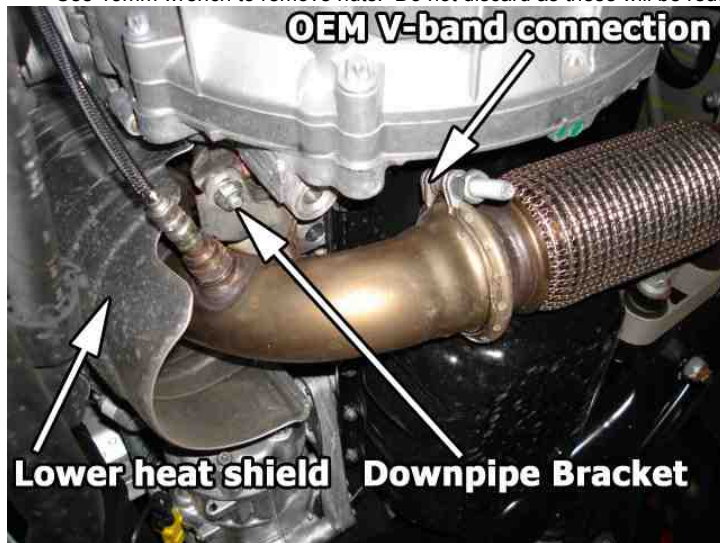
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Exhaust System Installation:

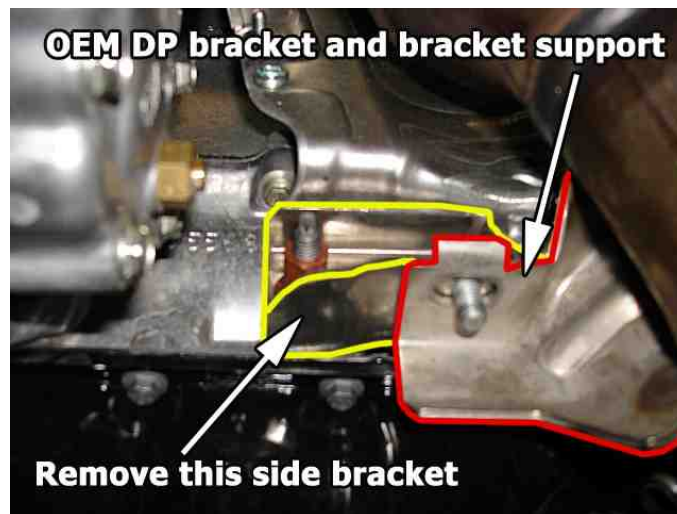
- 1) Support car on jack-stands using a suitable jack or commercial hoist to raise car. Death or injury will occur if not supported properly.
- 2) Open hood and locate the turbocharger assembly and turbo heat shield (Heat shield has a hand embossed on it.)
- 3) Using a proper O2 sensor wrench, remove factory front O2 sensor from manifold. Take great care in not destroying wires coming from sensor. This sensor is a wideband O2 sensor, which can be damaged very easy! Unclip yellow wire from harness holder to free up some slack in wire.
- 4) Locate and remove (6) 10mm head bolts that secure heat shield to Manifold, engine and lower heat shield. Once these are removed, remove upper heat shield.



- 5) Locate and remove secondary O2 sensor using proper O2 sensor wrench. Again take care in not destroying wires coming out of O2 sensor.
- 6) Locate and remove lower heat shield for cat, which is held on by (4) 10mm Headed bolts. This heat shield comes out bottom of car easiest.
- 7) With heat shields removed, locate 3 studs coming off of turbo, and spray down with penetrating lube. This will make for easy removal of bolt. Use 13mm wrench to remove nuts. Do not discard as these will be reused later.



- 8) Below car, loosen V-Band clamp securing upper and lower sections of the downpipes. Remove nut completely from V-band and spread open to release both halves.
- 9) Loosen and remove mounting supports for upper section of downpipe. There are 13mm bolts holding brackets to the engine and to the downpipe. Remove front downpipe from vehicle.



- 10) Under vehicle, remove ALTA catback exhaust adapter from rear downpipe and catback exhaust.
- 11) Spray lube on metal hangers where they pass through rubber hangers. These are very tight, and it helps to have an exhaust hanger removal tool to make the job go easier.
- 12) Install ALTA upper section into the engine bay from the bottom. (Be sure to install OEM gasket between turbo and ALTA downpipe). Install OEM nuts to downpipe and tighten with fingers. Final torqueing will be done later.



- 13) Install drivers side lower support brackets removed previously to secure ALTA downpipe to the engine. When installing bracket, it is important that there is no gap between bracket and downpipe. Loosen longer nut to allow bracket to meet downpipe, then tighten both nuts to 20ft-lbs.
- 14) Tighten (3) nuts at turbo to 20ft-lbs.
- 15) Install rear ALTA downpipe into rubber hangers. Secure upper and lower sections of the ALTA downpipes using supplied v-band clamp. (DO NOT TIGHTEN AT THIS TIME!)



- 16) Then connect ALTA downpipes to catback exhaust using V-band clamp that came with catback. (DO NOT TIGHTEN AT THIS TIME!)
- 17) Make sure all areas of exhaust system are clear of heatshields and body of vehicle. Finally tighten V-band clamps to 70in-lbs (**not ft lbs**)!
- 18) Reinstall lower heatshield using OEM bolts removed earlier. Then install upper turbo heatshield using same OEM bolts removed earlier.
- 19) Now install both O2 sensors using anti-seize compound on the threads, and O2 sensor wrenches. Make sure to connect O2 harness back onto harness stay on A/C compressor.
- 20) Fire up the car and check for exhaust leaks. If leaks are found, check tightness of all V-band connections.
- 21) Lower car from the jack stands and test drive vehicle.

Special Notes:

- Some slight bending of aluminum heat shield above exhaust may be necessary in order to clear exhaust. Once installed, wiggle the tips to see if the exhaust hits the heat shield. Simply push heat shield away from area hitting.
- Take time in adjusting system pieces as this will pay off with perfect tip to bumper alignment.

PARTS TO GO WITH YOUR R56 Downpipe System:

- **ALTA R56 intake system**
- **ALTA R56 Front Mounted Intercooler**
- **ALTA PWI-2 Water injection system**

For questions & comments please contact
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AIM contact ALTAPERRINSALES