



## R56 JCW Downpipe Back Exhaust System

2012-10-09

Thank you for purchasing this ALTA product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation. If you have any questions, please contact our tech department prior to starting installation. We can be reached in any of the following methods:

Email [Tech@ALTAperformance.com](mailto:Tech@ALTAperformance.com)

Instant Chat off the main page of [www.ALTAperformance.com](http://www.ALTAperformance.com)

Or simply call our tech team at 503-693-1702

### GENERAL MODIFICATION NOTE

Modifications to any vehicle can change the handling and performance. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive a vehicle safely may result in serious injury or death. Do not drive a vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state or country. Consult the owner's manual, service manual, instructions accompanying these products, and local laws before purchasing and installing these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

### SPECIAL NOTES:

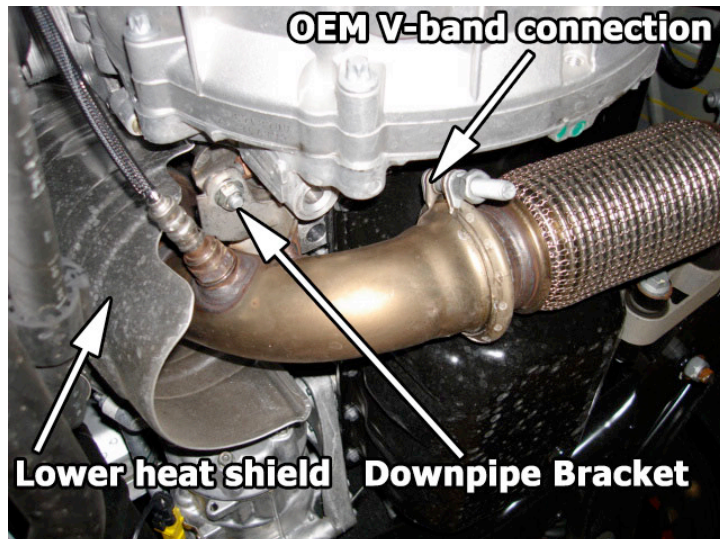
- Use of the factory service manual can be very helpful during the installation. These can be purchased at the dealership or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- Take time when aligning tip in bumper opening. Between adjusting the rear downpipe, and midsections rotation in relationship to the muffler, some length changes can also be done by adjusting the slip fit connection.

### Parts Included with the ALTA R56 JCW Downpipe Back Exhaust System:

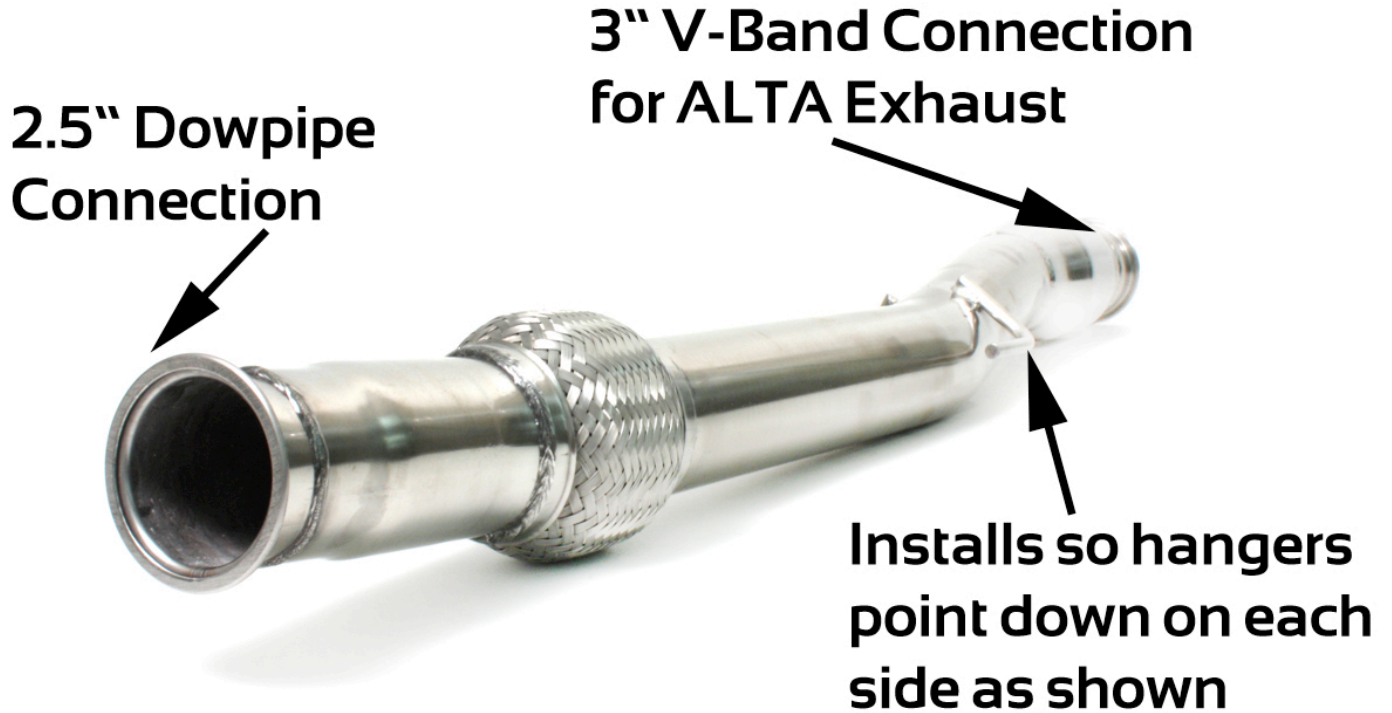
- (1) ALTA Rear Downpipe Section
- (1) ALTA Midsection with Muffler
- (1) ALTA Midsection/ S Bend
- (1) ALTA Dual Tip Muffler Section
- (1) ALTA 3" V-band clamp
- (1) ALTA 2.5" V-band clamp
- (1) ALTA 2.5" V-band gasket
- (1) 3" Slip Fit Clamp
- (2) 3/8" Collar clamps
- (1) Allen wrench
- (30) M8 Flat Washers

### Downpipe Back Exhaust System Installation:

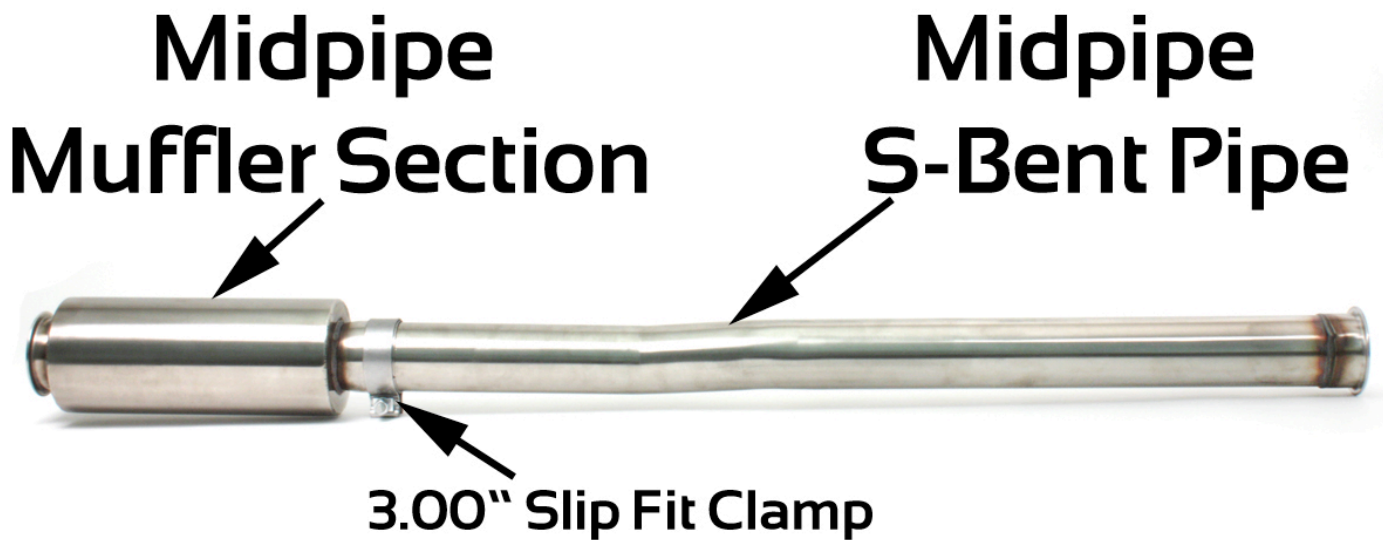
- 1) Support car on jack-stands using a suitable jack or commercial hoist to raise car. Death or injury will occur if not supported properly.
- 2) Under car, locate and remove Black Steel Chassis brace from car. (6) 10mm bolts hold this to the chassis.



- 3) Starting with front downpipe connection (OEM V-band Connection below engine) remove nut and bolt (16mm size) from clamp. Pry open clamp using large pliers and remove from OEM v-band flanges. **NOTE: Nut and bolt may be very hard to remove and may require use of a hammer to free. Use of penetrating oil will be necessary.**
- 4) Remove entire exhaust system from car making sure to remove thin gasket left behind at OEM downpipe connection. **NOTE: Using spray lube on hangers and or exhaust hanger pliers can aid in removing system from car.**



- 5) Place supplied 2.5" v-band gasket over 2.5" flange on ALTA rear downpipe section. Bend tabs inward roughly 90 degrees then remove from downpipe section. **NOTE: These tabs will keep gasket centered as you install this part onto car.**
- 6) Install ALTA rear downpipe section into hangers using picture above as a guide. **NOTE: 2.5" end of downpipe connects to OEM downpipe.**
- 7) Connect OEM downpipe and ALTA rear downpipe section together using supplied 2.5" V-band clamp. Make sure to install supplied 2.5" v-band gasket between flanges with tabs pointing toward rear of car. **NOTE: Leave clamp slightly loose to allow for some rotation to occur.**



- 8) Using above picture as a guide, install supplied 3" slip fit onto ALTA Mid pipe muffler section, then slide ALTA Midpipe/ S-Bent pipe into muffler section. Leave 3" Slip fit clamp loose at this time.
- 9) Install muffler section into rear muffler hangers and loosely install supplied collar clamps (this will be adjusted later).



- 10) Install ALTA midsection to muffler section, using supplied 3" V-band clamp. Leave clamps loose until system is fully installed.
- 11) Install supplied 3" v-band clamp to connect ALTA rear downpipe section to ALTA midpipe section. Leave clamps loose until system is fully installed.
- 12) Install black steel chassis brace back onto chassis. **NOTE: Depending on placement of slip fit/tips and rotation of ALTA exhaust, it may cause some interference with muffler section. Bending down the black steel bracket or using included M8 washers to space brace away from exhaust is also an acceptable way to fix the problem.**
- 13) Align exhaust system by rotating pieces to provide best clearance around the tunnel of the car. Some pushing and bending of OEM aluminum heat shield may be necessary. This will not hurt the heat shield at all. **NOTE: Take note how twisting of exhaust pieces effects the alignment of system and of tips in bumper opening. Take time adjusting each piece until proper alignment is had.**
- 14) Once aligned, Tighten v-band clamps to 180 in-lbs (**not ft lbs!**). Then tighten 3" slip fit clamp to roughly 25ft-lbs or until clamp is bottomed out on its self.
- 15) To ensure exhaust stays centered in bumper opening, install supplied 3/8" collars to hangers. You can use these to push system left to right by preloading the hangers in different directions.
- 16) Take car for test drive and listen for exhaust leaks. If exhaust leaks are found recheck all v-band connections. **NOTE: Its normal to have a strange burning smell from the exhaust system for the first couple of days of driving.**

Questions, Comments and Suggestions Contact: [Tech@ALTAperformance.com](mailto:Tech@ALTAperformance.com)  
Visit Our Website for Instant Chat Options at <http://www.ALTAperformance.com>  
Call Our Tech Team at 503-693-1702