



Cooper S 2.5" V2 Catback Exhaust System

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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
Instant Chat off the main page of 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.
- It is important to tighten setscrews in exhaust hangers to keep system centered in bumper.
- Take time when aligning tip in bumper opening. Between adjusting the inner hanger in height, there is also some rotation that can be done. Also by loosening the flange connection, further adjusting of the tip can be made.
- 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.

Parts Included with the ALTA V2 2.5" Exhaust System:

- (1) Front, Mid and Rear 2.5" Mini exhaust sections (3 Pieces)
- (1) SS Exhaust Tip
- (1) 2002-2003 exhaust hanger
- (1) 2004+ exhaust hanger
- (1) 10"x3" Heat Shield
- (2) 3/8" Collar clamps
- (1) 7/64" Allen wrench
- (2) ALTA V-band size 2.5"
- (1) Size 250 T-bolt clamp
 - (2) 3/8-24x2" Grade 8 hex head bolt
 - (4) 3/8" Grade 8 washers
 - (2) 3/8-24 Grade 8 nuts

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) OEM exhaust system is one piece and it needs to be supported when removing. Commercial stands will aid in supporting exhaust system.
- 3) Remove the aluminum battery heat shield from the back of the car. This can be reused later.
- 4) Remove nuts from front exhaust manifold connection. Take care not to loose gasket it will be reused.
- 5) Remove black center support plate by removing (6) 10mm bolts.
- 6) Muffler sections are held in place by a metal strap and 2 bolts. Remove the (2) bolts and strap to release each muffler.
- 7) Remove 2 center exhaust hangers from black center support plate. The hangers and plate will be used with the Alta exhaust.
- 8) Remove passenger side exhaust hanger bracket from rubber hangers. Leave rubber hangers on chassis. Drivers side can be removed, but not necessary.
- 9) Prepare Front section by installing 2 rubber hangers and center support plate, onto ALTA center section. Leave (2) bolts loose until system is installed on car.
- 10) Using supplied hardware, bolt front section to exhaust manifold and support plate to chassis in one step. NOTE: Don't fully tighten bolts to exhaust manifold and remember to install OEM gasket.
- 11) Install Midpipe to front front section using supplied 2.5" V-band clamp. Leave loose until rear muffler section is installed.

- 12) On rear muffler section, the inner hanger varies from 02-03 cars to 04+ cars. One hanger is parallel to outside hanger and the other is perpendicular. Slide correct hanger into collars welded to the exhaust, and leave loose until system is fully installed and adjusted.
- 13) Using support stands or a second person, hang rear muffler section in hanger, and connect to mid pipe using the final 2.5" V-Band clamp.
- 14) Slide Tip onto rear muffler section making sure to install t-bolt clamp around tip. Leave loose until rest of system is adjusted.
- 15) Adjust length of hanger and position until tip is even with the bumper. Take time when adjusting tip as the tip is adjustable in 4 directions. Once tips are aligned, tighten setscrews holding exhaust hanger in place.
- 16) Adjust system to desired position and snug v-band connections. Double check Tips are still aligned, and tighten all v-band connections and header bolts and nuts.
- 17) Tighten all bolts in the exhaust system making sure gaskets are in place. Re-adjust tip if necessary, by loosening hanger and or loosening rear exhaust V-band connection.
- 18) Once system is aligned correctly, install supplied locking collars behind rubber hangers. These aid in securing the exhaust to the car.
- 19) Installing the aluminum pan is optional. If you choose to leave it off, install plastic nuts on to remaining studs. If the aluminum pan is re-installed, trimming of passenger side corner, and bending is necessary in order for it to clear the exhaust system.
- 20) Before car is lowered off of stands, fire up engine, and listen for exhaust leaks. If there are any leaks, tighten bolts or tighten V-band connection.
- 21) Lower car from stand and proceed to test drive.

Questions, Comments and Suggestions Contact: Tech@ALTAperformance.com
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