

CORVETTE C6

Exhaust System Installation

2006 Corvette C6 Auto Transmission (A6) **ONLY**
With Twin 3.5 Pro-Series Tips



Tools Needed:

- 13 mm Socket
- 15 mm Socket
- 18 mm Socket
- 15 mm Open End Wrench
- 13 mm Open End Wrench
- Torque Wrench (20-100 ft.-lb.)
- Drive extensions for Ratchet
- **(MINIMUM OF 17 INCHES)**

Please be sure to review the attached instructions prior to beginning the installation process. If you have any questions about the enclosed parts, instructions or encounter a problem during installation, call CORSA Performance Technical Assistance at 800.486.0999. Do not attempt to make any modifications to parts as this will void your warranty.

BILL OF MATERIALS:

S **SPORT SYSTEM** (PN 14167) (AXLE BACK + TUNNEL KIT)

AXLE BACK (PN 14169):

- (1) Driver Side Over-the-Axle Pipe (**16CS4003**)
- (1) Passenger Side Over-the-Axle Pipe (**16CS4002**)
- (1) Driver Side Muffler Assembly (**16CS2010**)
- (1) Passenger Side Muffler Assembly (**16CS2009**)
- (1) Hardware Kit (**16CS7003**):
 - (2) Torca Clamps 2.5"
 - (1) Package Anti-Seize

SPORT TUNNEL KIT (PN 14166):

- (1) H-Pipe Assembly (**16CS4048**)
- (2) Touring Delete Pipes (**16CS4047**)
- (1) Hardware Kit (**16CS7004**):
 - (4) Torca Clamps 2.5"
 - (1) Package Anti-Seize

T **TOURING SYSTEM** (PN 14168) (AXLE BACK + TUNNEL KIT)

AXLE BACK (PN 14169):

- (1) Driver Side Over-the-Axle Pipe (**16CS4003**)
- (1) Passenger Side Over-the-Axle Pipe (**16CS4002**)
- (1) Driver Side Muffler Assembly (**16CS2010**)
- (1) Passenger Side Muffler Assembly (**16CS2009**)
- (1) Hardware Kit (**16CS7003**):
 - (2) Torca Clamps 2.5"
 - (1) Package Anti-Seize

TOURING TUNNEL KIT (PN 14159):

- (1) H-Pipe Assembly (**16CS4048**)
- (2) Tunnel Muffler Assemblies (**16CS2006**)
- (1) Hardware Kit (**16CS7004**):
 - (4) Torca Clamps 2.5"
 - (1) Package Anti-Seize

CAUTION: Prior to installation, be sure your vehicle is parked on a level surface, and the exhaust system is cool. For safety purposes and ease of installation, we urge you to take your vehicle to a qualified service center or muffler installer that employs the use of a lift.

INSTALLATION NOTE: Be sure to apply the provided anti-seize lubricant to all bolts, fasteners and clamps. A pouch is included with the hardware kit. Apply the supplied anti-seize lubricant to the threads **ONLY** of all TORCA band clamps. Failure to follow this procedure can cause the nuts to seize on clamps and potentially damage threads. **WARNING:** Be sure to thoroughly clean hands after use. Anti-seize lubricant will tarnish stainless steel parts.

All Torca clamps should be tightened using a properly calibrated Torque Wrench. Using an air impact gun will damage the clamp and reduce its ability to effectively seal the joint. It may also cause the joint to separate thereby causing damage to your exhaust system and your vehicle.



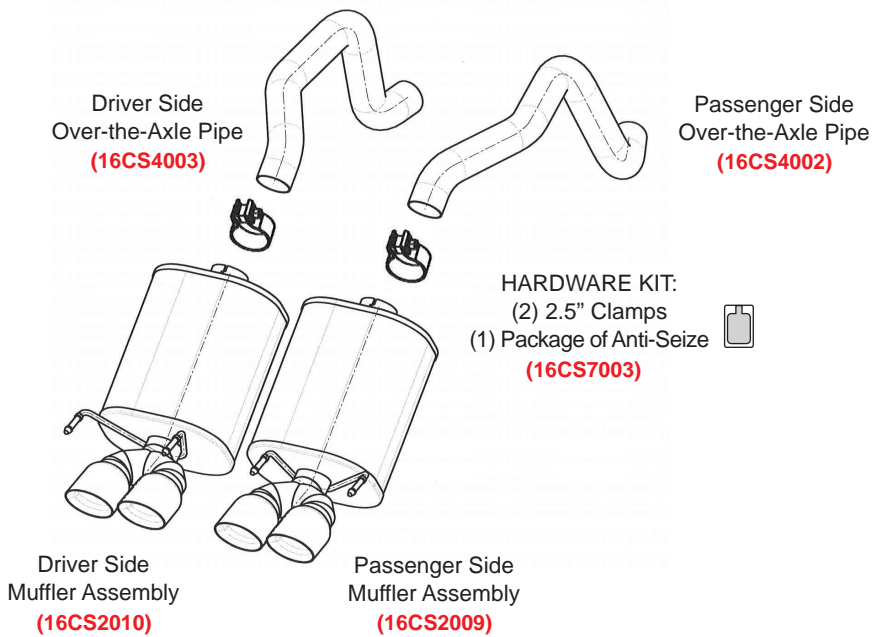
NOTE: IMPORTANT-Make sure that the small drain or weep hole in rear of muffler faces down when muffler is installed.

Please confirm that all parts are present before beginning the factory exhaust system removal and CORSA exhaust system installation.

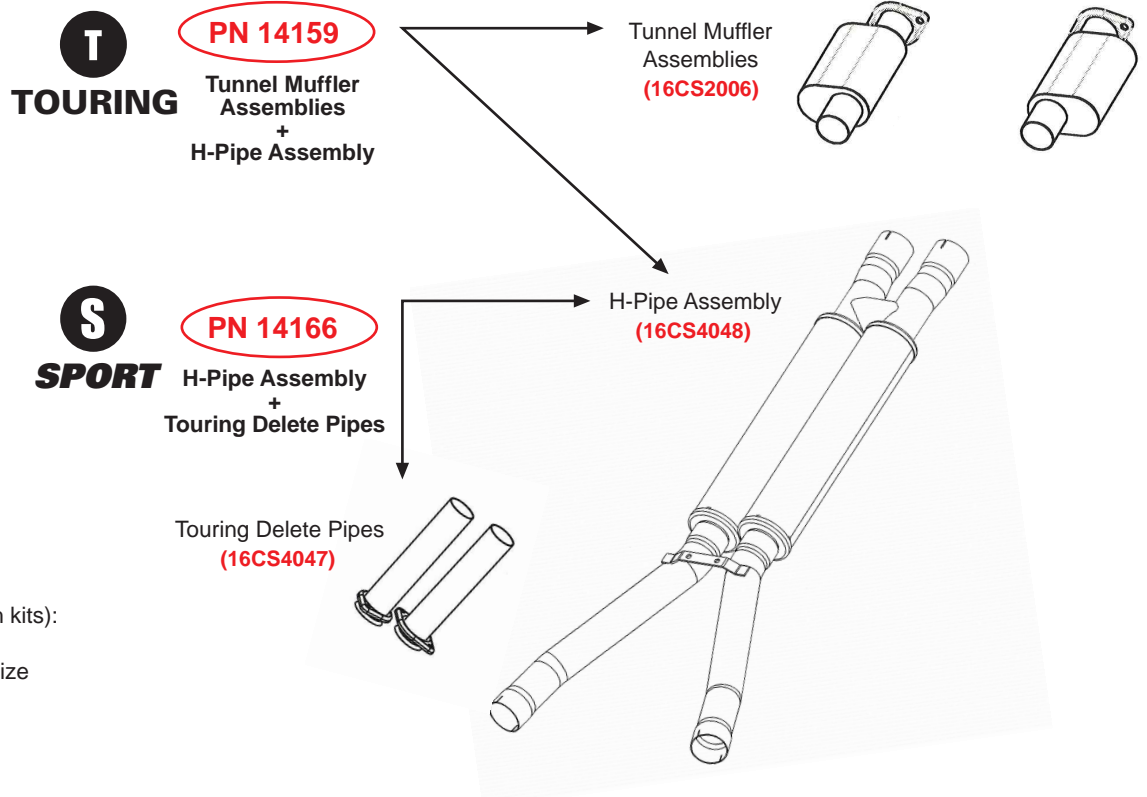


S & **T**
SPORT **TOURING**

PN 14169
Axle Back Exhaust System



TUNNEL KIT



EXHAUST REMOVAL:



Your C6 must be raised high enough to remove the one-piece stock muffler and over-axle pipe assemblies. A safe vehicle hoist is strongly recommended for this task.

NOTE: Be sure to save all nuts. These will be used to install your CORSA Performance exhaust system.

1. Using a 15 mm socket or wrench, remove the four front flange nuts (**See Fig. A**).
2. Using a 13 mm socket or wrench, remove the H-Pipe hanger nuts (**See Fig. B**).
3. Using a 15 mm socket or wrench, loosen the clamps connecting the H-Pipe to the Rear Muffler Assembly (**See Fig. C**).
4. Slide the flanges off the bolts (**See Fig. D**).
5. Remove the H-Pipe assembly.
6. Using an 18 mm socket and a 15 mm open end wrench, remove the rear stabilizer bar mounting nut (**See Fig. E**).
7. Use an 18 mm socket to remove the upper stabilizer bar mounting bolt (**See Fig. F**).
8. Swing the stabilizer bar down, away from the rear cradle.



FIG. A



FIG. B



FIG. C



FIG. D



FIG. E



FIG. F

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9. Slide the rear muffler hangers out of the rubber isolators, using soapy water to aid in removal if needed **(See Fig. G)**.
10. Carefully slide the Driver side muffler out of the vehicle **(See Fig. H)**.
11. Carefully slide the Passenger side muffler out of the vehicle **(See Fig. H)**.
12. Reinstall the stabilizer bar using the factory nuts and bolts.
Tighten the bolts and nuts to factory specifications.
[Upper Bolt = 49 ft.-lb., Lower Nut = 70 ft.-lb.]



FIG. G

S OR **T** **Tunnel Kit Installation:**
SPORT TOURING

NOTE: Be sure to save all nuts. These will be used to install your CORSA Performance exhaust system.

1. Remove all Tunnel Kit components from the shipping carton.
NOTE: There are four 2.5-inch clamps supplied.
2. Locate one of the TOURING tunnel mufflers (16CS2006) or TOURING delete pipes (16CS4047) **(See Fig. I)**.
3. Slide the flange over the flange bolts and **ONLY SNUG TIGHTEN** the nuts using a 15 mm open end wrench **(See Fig. J)**. The inlet of the muffler should be towards the center of the vehicle. **Be careful to tighten evenly so pipes point straight back.**
4. Repeat step 3 for the other tunnel muffler or delete pipe.
5. Locate the H-Pipe assembly and the four Torca clamps (16CS4048).
6. Snug fit the clamps onto the inlet and outlet ends of the H-Pipe assembly **(See Fig. K)**.



FIG. H



FIG. I



FIG. J



FIG. K

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- Slide the H-Pipe assembly onto the TOURING mufflers or TOURING delete pipes after clamps are placed over both ends. Front clamps are placed with bolts outward and rear clamps have the bolts facing towards the center of the car. **(See Fig. L & Q)**



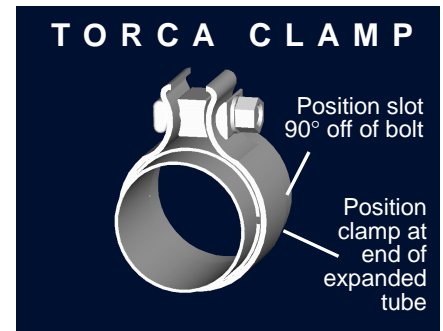
- Tighten the flange nuts to factory specifications.
- Insert each axle pipe into the corresponding H-Pipe outlet and tighten both clamps to **45 ft.-lb.**
- Using a 13 mm wrench, install the H-Pipe spring hanger nuts. Tighten to **37 ft.-lb. (See Fig. M)**. The springs must be under tension; make sure they are not hanging loose. At this point, go back and tighten flange nuts from Step 3 and tighten clamps from Step 7 to **45 ft.-lbs. Make sure clearance is equal on both sides before tightening.**
- It is **MANDATORY** that all clamps and fasteners be checked and re-tightened (if necessary) after a road test. Make sure the system has cooled prior to touching any exhaust components.



FIG. L



FIG. M



S OR **T**
SPORT TOURING CORSA Axle-Back Exhaust Installation:

- Remove all exhaust system components from the shipping carton, including clamps. **NOTE: There are two 2.5-inch clamps supplied.**
- Locate the Driver side (16CS4003) and Passenger side (16CS4002) axle pipes **(See Fig. N & O)**.
- Slide both Driver and Passenger axle pipes into position from the rear **(See Fig. P)**.
- Insert the axle pipes into the H-Pipe outlets and snug fit the clamps **(See Fig. Q)**.



FIG. N



FIG. O



FIG. P

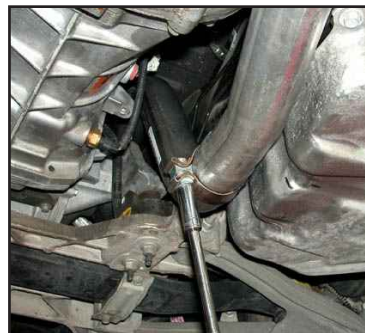


FIG. Q

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Call 800.486.0999



5. Locate the Passenger side muffler (16CS2009). Slide one Torca clamp onto muffler inlet (**See Fig. R**).
6. Slide the muffler hanger into the factory rubber isolators, using soapy water again if needed. (**See Fig. S**).
7. Carefully align the muffler inlet to the axle pipe.
8. Slide the axle pipe into the muffler inlet expansion and snug fit the Torca clamp using the 17-inch extensions and a 15 mm socket (**See Fig. T**). **NOTE: All the muffler clamps should point towards the center of the vehicle when installed.**
9. Repeat steps 6 to 8 above for the Driver side muffler (16CS2010).
10. Adjust the entire system as necessary to achieve the desired tip location and clearance to all driveline components.
11. Starting from the front of the vehicle, tighten all Torca clamps to **45 ft.-lb.**
12. It is **MANDATORY** that all clamps and fasteners be checked and re-tightened (if necessary) after a road test. Make sure the system has cooled prior to touching any exhaust components.



FIG. R



FIG. S

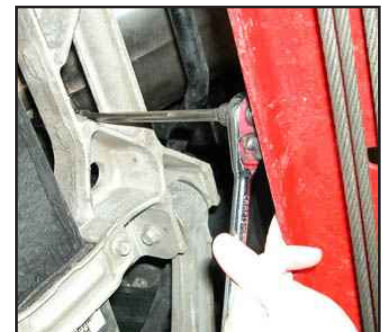


FIG. T

NOTE: During cold weather start-ups, you may experience an exhaust sound that is deeper and louder in tone than usual. This is temporary and will diminish to normal levels once your engine has reached its normal operating temperature.

NOTE: Immediately following the installation of your CORSA exhaust system, you may experience a trace of smoke after initial start-up. DO NOT be alarmed. The smoke is caused by the burning of a small amount of forming oil residue used in the manufacturing process.

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