

# Cadillac CT5V Blackwing

## AXLEBACK/CAT-BACK INSTALLATION INSTRUCTIONS

Thanks for purchasing a Stainless Works system for your 2022+ Cadillac CT5V Blackwing. Our team has worked to ensure that this product is the premium in performance, quality, and fitment. We are proud to say that this system will unleash the true character of your vehicle. We encourage you to read through the following steps, and check the included Bill of Materials before beginning. Please follow these steps to ensure that your installation goes as planned.



**2022+ Cadillac CT5V Blackwing**

**a.**

Prior to turning off the vehicle, raise the air suspension all the way up to allow easier removal and assembly of the system

**b.**

Disconnect the battery before starting to work on the exhaust system for your vehicle. Reconnect the battery when the job is completed.

**c.**

Your exhaust system can be installed by a weekend warrior, but the use of a lift is recommended for ease of installation. If using a jack, the vehicle must be placed on a hard level surface. Jack stands are required for safety.

**d.**

You will assemble the components together as specified below, but only snug the clamps as you move along from front to back. After aligning all the components in the vehicle, you will tighten all the clamps working from front to back of the vehicle.

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## DISASSEMBLY

1.  
Disconnect the battery (located in the trunk).
2.  
Remove plastic shield next to the crossmember to access crossmember bolts. You don't have to remove all of them, just enough to get the crossmember out. (5x 10mm bolts, 1x 10mm nut)
3.  
Remove crossmember (8x 13mm bolts)
4.  
Unclip both driver side and passenger side exhaust valves located directly behind the inside tip on each side.
5.  
Remove 2 nuts on the passenger flange going to the manifolds (2x 15mm nuts)
6.  
Loosen clamp on the passenger side going to the manifolds, there is a small clip that will have to be bent in order to slide it to the side. (2x 15mm nuts) (*see details*)
7.  
Remove hangers from grommet before and after the axle.
8.  
Unbolt the rear hanger bracket near the tips of the exhaust. (2x15mm nuts/side)
9.  
Remove the factory cat-back (extra hands may be needed).

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*Detail 2: Plastic to remove bolts from*



*Detail 6: Metal clip to bend in order to remove tubes*

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## AXLE-BACK INSTALLATION

**1.**  
You are going to need to cut the factory cat-back **13.5 in** from the hanger bracket on the driver side and **12in** from the passenger side (*see detail*)

**2.**  
Rehang the factory midpipe and the rear hanger brackets.

**3.**  
Reinstall crossmember and plastic.

**4.**  
Remove the valve motor from the factory mufflers (3x  $\frac{1}{8}$ " Allen bolts with 10mm nut on each)

**5.**  
Mount valve motors to Stainless Works mufflers using supplied spring and hardware.

**6.**  
Install mufflers with supplied adapters (lightly press heat shields if necessary at the passenger valve and driver muffler).

**7.**  
Once the system is oriented properly you can tighten down all clamps starting from front to back of vehicle (placing a spacer  $\frac{1}{8}$ " roughly will help keep tips separated when tightening down).

**8.**  
Reconnect the valve motor wiring harness.

## CAT-BACK INSTALLATION

**9.**  
Install driver and passenger leads to factory connection points (driver: clamp; passenger: 2-bolt flange, 4x 15mm total).

**10.**  
Reinstall rear crossmember and plastic.

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*Detail 1: Cut 13.5 inches of the driver side and 12 inches off of the passenger side.*



*Detail 5: Valve motor mounted with spring and mounting screws.*

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## ASSEMBLY FOR CAT-BACK

11.

Install Stainless Works X-Pipe (placing a spacer on the crossmember underneath the x-pipe while installing will help keep in place)

12.

Install Stainless Works muffler leads using the factory grommets. (spacers on the rear axle at the bend will help keep in place when tightening)

13.

Remove the valve motor from the factory mufflers (3x 1/8" Allen bolts with 10mm nut on each)

14.

Mount valve motors to Stainless Works mufflers using supplied spring and hardware.

15.

Install Stainless Works mufflers. The supplied adapters are for factory connect only and will not be needed here. On the driver side you may need to lightly press the heatshield in to clear the muffler and the passenger side heat shield near the valve.

16.

Once the system is oriented properly you can tighten down all clamps starting from front to back of vehicle (placing a spacer 1/8" roughly will help keep tips separated when tightening down.

17.

Reconnect the valve motor wiring harness.

18.

Reconnect the battery.

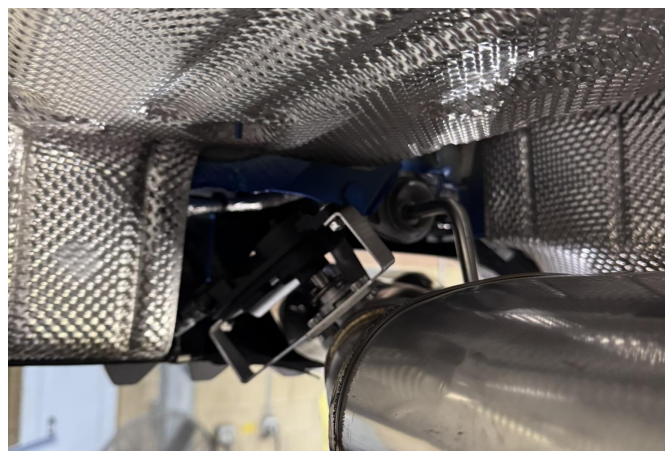
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*Detail 12: Stainless Works muffler leads to factory grommets*



*Detail 17: Passenger side valve motor installed*

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**24.**

Be sure to have adequate clearance around all wires, hoses, and lines. If anything is in contact with the exhaust system it will melt. Make sure to have at least ½" of clearance and wrap any suspect areas with DEI thermal barrier wrap.

**25.**

After double checking for clearance and making sure all lines, wires and hoses are secured, drive the vehicle for 10-20 miles and re-check all clamps and clearances. Your system may be tack welded at the joints/ clamps to reduce shifting of the system during heating and cooling cycles. Make certain to disconnect the battery before performing any welding.

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*Detail 25: Cat-back System Installed*

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