

MID AMERICA



MOTORWORKS™

Corvette Aerodynamic Body Kits



Front to Rear



September 16-17 2022
Corvette Funfest
Corvettefunfest.com

Build The Corvette Of Your Dreams!

Your Corvette sends a clear message to other drivers about your passion for America's Sports Car. Customize that message with exterior accessories available at Mid America Motorworks. Grilles, side cove screens, rear valances and more create a sleek look that reflects your personal style!



Besides good looks, Corvette Aerodynamic Body Panels give many functional benefits to your Corvette's performance and handling. From improved downforce to brake cooling, Mid America Motorworks provides the right equipment to make your Corvette run faster and more efficient.

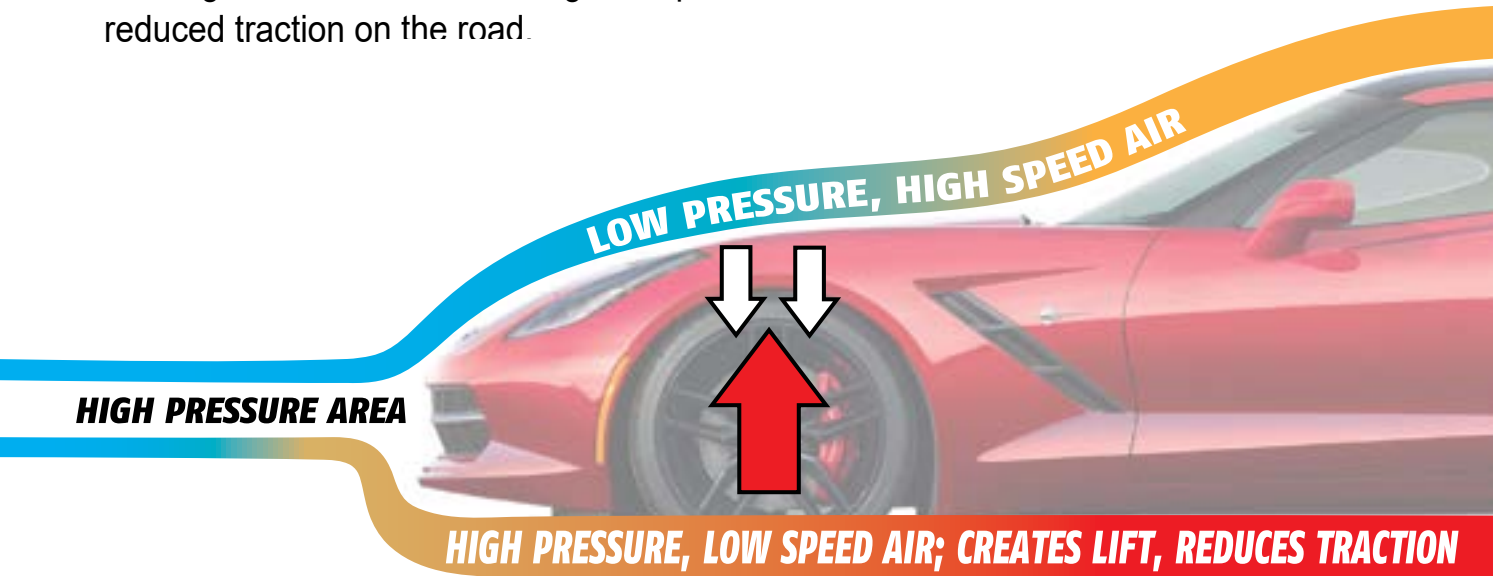


Front Splitters

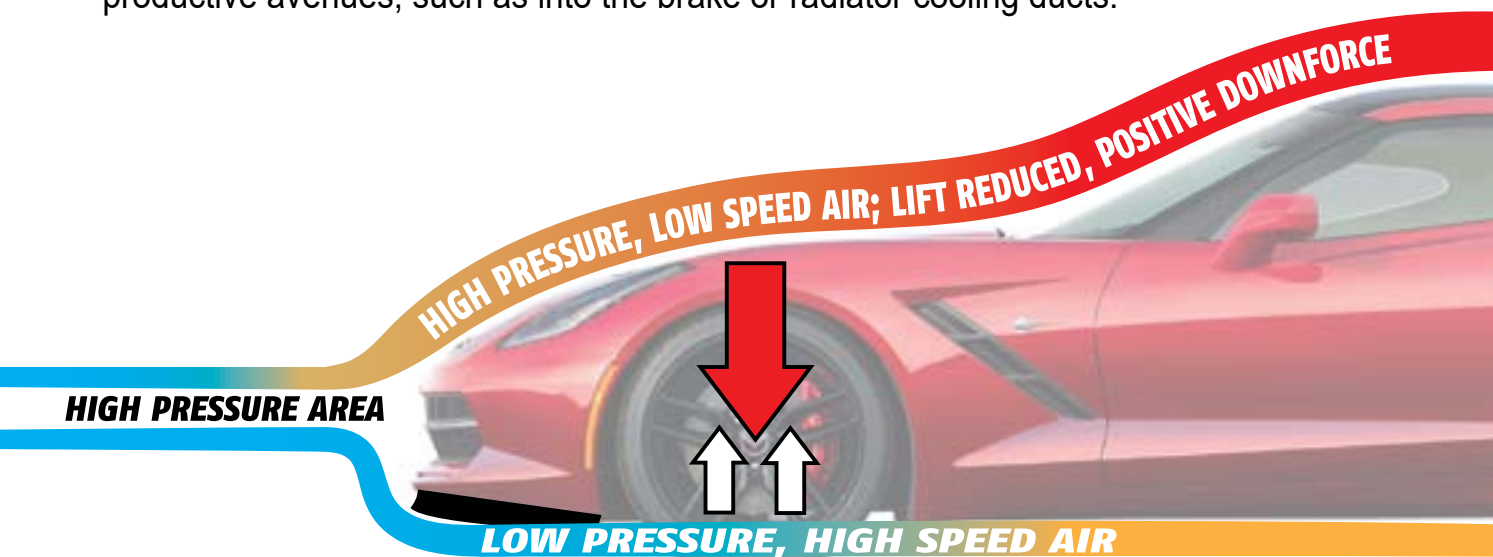
Corvette Splitters are a modification to the body of your Corvette. Attached to the bottom of the front bumper, splitters look like a flat scoop that extends out from the bottom of the car.



Without a Splitter: As your Corvette reaches high speeds, air pressure builds up at the front of the car. A lot of this high pressure creates low speed air that ends up underneath the car. With only low pressure air above the car exerting itself on top, the car experiences lift, causing the front of the car to lighten up. This results in reduced traction on the road.



With a Splitter: Splitters act like a wedge that forces the high pressure air upwards where it builds up around the bumper and migrates up and over the top of your Corvette. The low pressure creates high speed air that passes underneath your car. Combined with the high pressure air that is passing over the top of your Corvette, lift is reduced, resulting in a positive downforce. This gives your Corvette more traction as it hugs the road. A combination of a splitter with a front air dam, or openings on the front bumper, direct the extra air into productive avenues, such as into the brake or radiator cooling ducts.



Front Splitters (cont.)

Aerodynamic body upgrades, in general, are for redirecting air to carry out various functions.



Front Splitter



Front Lip Spoiler

Front splitters have a lot to offer in looks and functionality. However from a styling and aerodynamic aspect, front splitters are not the only game in town! It is actually possible to get the same performance gains with a quality front lip spoiler. Like a front splitter, a front lip spoiler attached to the front bumper of your Corvette improves downforce and aerodynamics while providing protection and styling to the front bumper. Front splitters include an under body tray that aids in rigidity and improving downforce. Front lip spoilers perform to a lesser extent, but are a cost efficient upgrade for aggressive good looks.



Wheel Deflectors

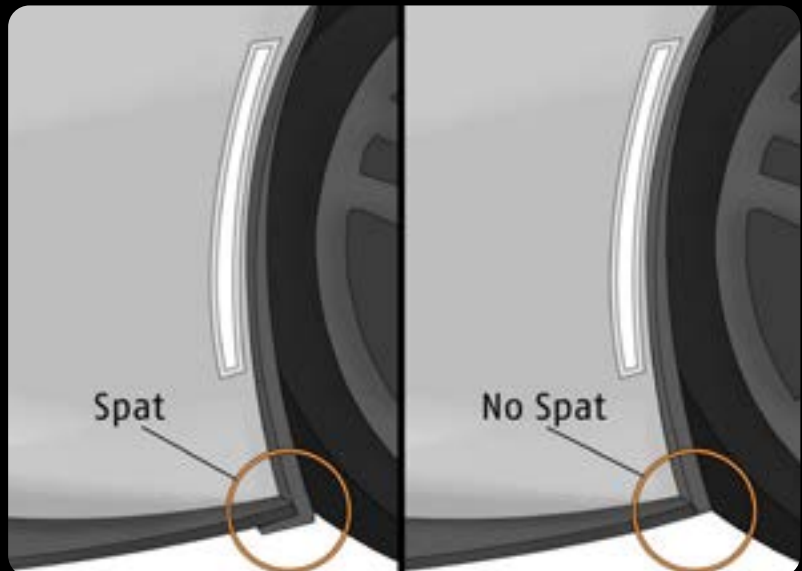
Front wheel deflectors attach to the OEM wheel well liner mounting points located inside the front fascia at the front of the wheel well opening of your Corvette. These deflectors mount at the lower attaching point where the wheel deflector meets the spoiler or splitter.



Front wheel deflectors are designed to push airflow around the rotating wheel more efficiently to reduce lift and drag. Front wheel deflectors are available in two designs. One **with spats** and one **without spats**.

Wheel deflectors **with spats** have an “L” shaped end that supports and braces the underside and the end of your spoiler or splitter.

Wheel deflectors **without spats** function the same, but the lower end does not fit under the spoiler or splitter and simply “butts against” the spoiler or splitter.



Front Canards/Winglets

Front canards are tall wings (think RPO Z07) or smaller winglets (think Z06 front splitter) attached to the front splitter or spoiler of your Corvette for the purpose of modifying the aerodynamic characteristics of your car.



Canard



Winglet

The most common use of canards is to increase front downforce on Corvettes where the balance of traction is considered to be unfavorably biased towards the rear wheels. The canards, once installed, provide additional downforce at the front of the vehicle, adjusting the balance of traction and thus improving the handling characteristics of the car.



Front Splitter with Canards

Side Skirts

Side skirts prevent lateral high pressure air from moving underneath your Corvette. The addition of side skirts also assists in re-purposing the air from behind the front wheels to create additional downforce and added vehicle stability.



Side skirts are somewhat similar in principle to splitters. As your Corvette reaches high speeds, air pressure builds up at the front of the car. A lot of this high pressure, low-speed air ends up underneath the car, and with only low pressure air above the car exerting itself on top, the car experiences lift, causing the front of the car to lighten up. This results in reduced traction on the road. Side skirts also help reduce unwanted paint damage from rocks and other road or track debris.



Side Vents

Side vents can be seen behind the front or rear wheels, allowing for airflow to exit the wheel wells which typically remains turbulent from the rotation of the wheels. These can also be used to channel out hot air from the engine bay or direct cool air to the brakes.



Rear Diffusers

A rear diffuser is a portion of the rear end shaped to create a location of increasingly larger air volume below the rear of your Corvette that reduces turbulent airflow. This allows for fast-moving, low pressure air underneath the car to accelerate and expand at the rear of the vehicle.



The diffuser helps to accelerate the air underneath the car which reduces its pressure and improves downforce.



Rear Spoilers & Wings

Spoilers and wings are different than the other handling adjustment tools for several reasons.



- The magic of a spoiler or wing is that they produce a load on the tires, which translates to increased cornering speeds.
- Stronger acceleration out of the corner without wheel-spin.
- The downforce produced by the wing increases with vehicle speed and therefore the speed of the air over the wing increases. However, this creates a concurrent increase in aerodynamic drag that slows the car's straight line speed but greatly improves cornering speeds.



Rear Wicker

The wicker, or more accurately the “wickerbill” is a small spoiler attached to the trailing end of a spoiler or wing to improve performance.



Wicker Height- These spoilers can be changed rapidly to tune the aero of a wing, with larger wickers generally giving more downforce.

Wicker Span- On wings it is common for wickers to not run the entire length of the wing. As the span (or width) is reduced, the effectiveness or downforce of the wicker will also be reduced, however the drag and turbulence created by the wicker is reduced. Because of the large impact of front end turbulence on the flow over the car and to the rear wing, a smaller/narrower wicker does sometimes produce more overall downforce than a larger one.



NACA Ducts

These air scoops are designed to have minimal impact on airflow over the top of your Corvette while still creating an inlet for airflow. They can be used in nearly any application that requires airflow to enter the engine bay for cooling. Whether that's feeding an air intake, a radiator or even cooling for a driver.



Hood Extractor

Hood extractors allow for a clean exit for the air passing through the radiator, and they also help to maintain airflow through the engine bay, increasing cooling capabilities.



Build The Corvette Of Your Dreams!

Enhance the aerodynamics of your Corvette with the stylish good looks and unrivaled performance of these styling components. Now that you've learned the basics of these components, you can shop confidently and find the right performance and look for your Corvette. All of our aerodynamic body panels are available in a factory style Carbon Flash finish, painted to match exact OE colors, or upgrade to the lightweight, aggressive looks of 100% real carbon fiber.



2005-2022 Side Skirts

2005-2013 ZR1 Style Side Skirts, Carbon Flash (Fits Base Model)	666-405	\$699.99
2006-2013 ZR1 Style Side Skirts, Carbon Flash (Fits Z06/ZR1/GS)	666-407	\$699.99
2005-2013 Zero6 Style Side Skirts, Carbon Flash (Fits Base Model)	698-769	\$829.99
2006-2013 Zero6 Style Side Skirts, Carbon Flash (Fits Z06/ZR1/GS)	698-772	\$924.99
2014-2019 Zero1 Side Skirts, Carbon Flash (Fits Stingray)	698-608	\$859.99
2015-2019 Zero1 Side Skirts, Carbon Flash (Fits Z06/GS)	698-622	\$859.99
A 2014-2019 Z06 Style Side Skirts, Carbon Flash (Fits Stingray/Z06/GS)	677-523	\$899.99
2020-2022 V3.06 No-Drill Side Skirts, Carbon Flash	688-802	\$1,399.99
2020-2022 SV7 Factory Style Side Skirts, Carbon Flash	688-803	\$1,649.99
2020-2022 V2.0 Wingless Wide Skirts, Carbon Flash	688-805	\$1,649.99

To Find Even More Online...

SEARCH Side Skirts



2005-2022 Front Splitters

2005-2013 ZR1 Style Front Splitter, Carbon Flash (Fits Base Model)	666-404	\$699.99
2006-2013 ZR1 Style Front Splitter, Carbon Flash (Fits Z06/ZR1/GS)	666-406	\$699.99
2014-2019 Stage 1 Front Splitter, Carbon Flash (Fits Stingray/Z06/GS)	698-564	\$569.99
2014-2019 Stage 2 Front Splitter, Carbon Flash (Fits Stingray/Z06/GS)	677-521	\$899.99
B 2014-2019 Stage 3 Front Splitter, Carbon Flash (Fits Stingray/Z06/GS)	630-519	\$1,096.99
2020-2022 V3.51 Z51 Style Front Splitter, Carbon Flash	688-801	\$949.99
2020-2022 SV7 Factory Style Front Splitter, Carbon Flash	688-804	\$1,649.99
2020-2022 V2.0 Wingless Front Splitter	688-806	\$1,649.99

To Find Even More Online...

SEARCH Front Splitters



Due to COVID-19 impacts on various supply chains, custom made aero components have been seeing longer than normal lead times. Please allow up to 2-10+ weeks for manufacturing and delivery. Pricing in this book is subject change due to continuous cost fluctuations for raw materials. For current pricing, view products online or call us at (800) 500-1500.



2005-2022 Rear Spoilers

2005-2013 Full Width Grand Sport Style Rear Spoiler, Unpainted	628-520	\$239.99
2006-2013 ZR1 Style Rear Spoiler, Carbon Flash (Fits Z06/ZR1/GS)	698-779	\$1,249.99
2014-2019 Z51 Style Rear Spoiler, Carbon Flash (Fits Stingray)	698-635	\$654.99
2015-2019 Stage 2 Rear Spoiler Conversion Kit (Fits Z06/GS)	698-637	\$319.99
2015-2019 Stage 3 Rear Spoiler Conversion Kit (Fits Z06/GS)	698-638	\$714.99
2020-2022 GM Z51 Rear Spoiler, Unpainted	688-800	\$799.99

To Find Even More Online...

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Rear Spoilers



Stand Out With Carbon Fiber

Carbon fiber accessories will certainly give your Corvette an aggressive, racing inspired look, but it doesn't stop there. Carbon fiber is approximately 20% stronger and stiffer than even the best fiberglass and absorbs energy at a higher rate. Carbon fiber and fiberglass share some similar attributes, but carbon fiber will always be stronger, stiffer, and lighter. Give your Corvette a whole new competitive edge.

2005-2019 Carbon Fiber Upgrades

2005-2013 Carbon Fiber Rear Diffuser	630-744	\$999.99
2005-2013 Carbon Fiber Full Width Rear Spoiler	630-742	\$809.99
2005-2013 Carbon Fiber World Challenge Vented Hood	630-740	\$1,719.99
2014-2019 Concept7 Carbon Fiber Front Splitter (Fits Stingray/Z06/GS)	607-211	\$1,495.99
2014-2019 Adjustable Carbon Fiber 3 Piece Front Splitter (Fits Stingray)	698-458	\$2,303.99
2014-2019 Concept7 Carbon Fiber Side Skirts (Fits Stingray/Z06/GS)	607-212	\$1,395.99
2014-2019 Concept7 Carbon Fiber Z51 Style Rear Spoiler (Fits Stingray)	607-206	\$1,395.99
2014-2019 Concept7 Carbon Fiber Side Cove Trim (Fits Stingray)	607-203	\$795.99
2014-2019 Carbon Fiber Rear Diffuser	630-762	\$1,584.99
2014-2019 Concept7 Carbon Fiber Hood Extractor (Fits Stingray/GS)	607-202	\$1,295.99
2015-2019 Carbon Fiber Hood Extractor (Fits Z06)	630-754	\$604.99

To Find Even More Online...

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Carbon Fiber

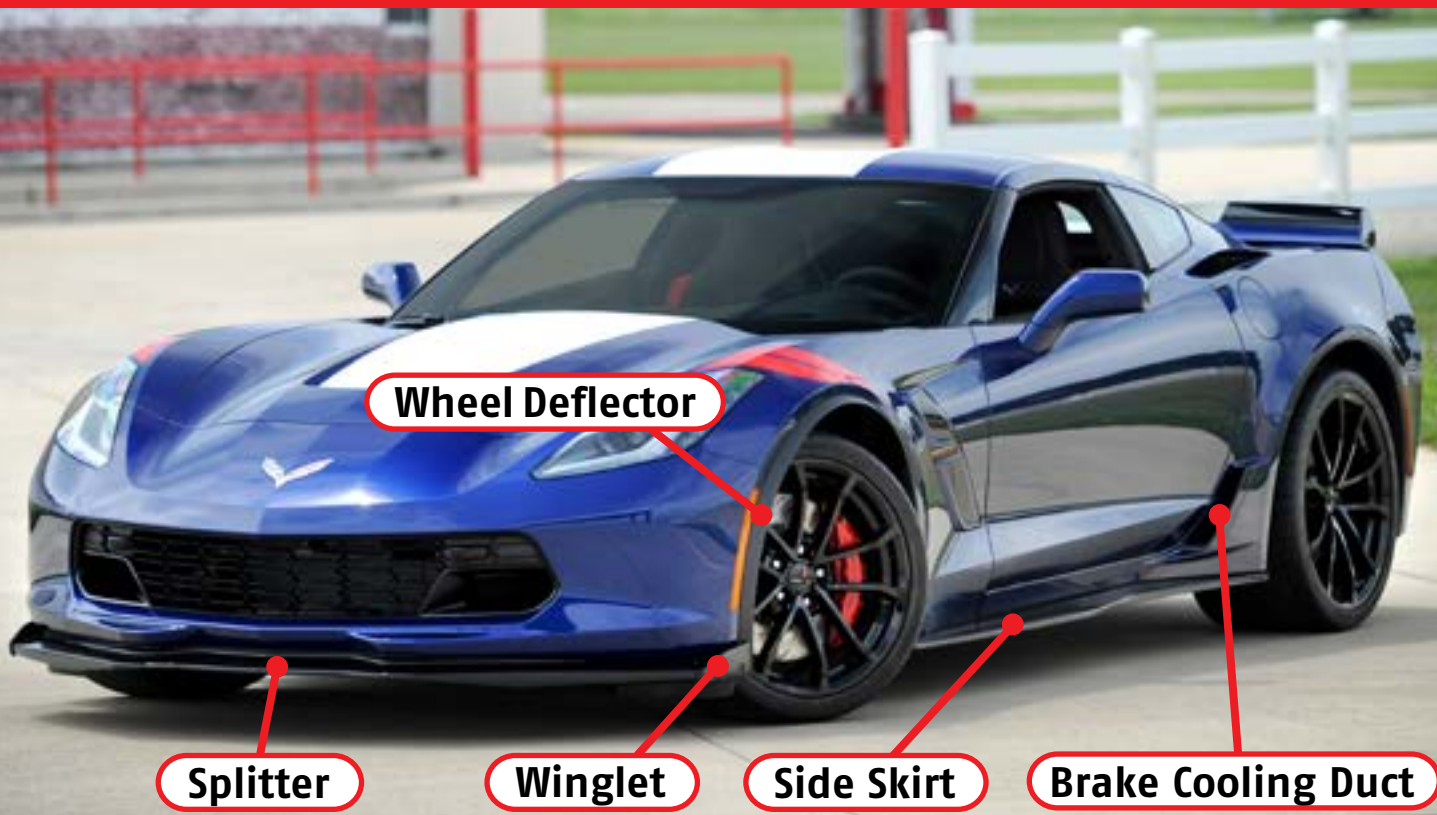


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