

CALLAWAY CORVETTE



Without question, the Chevrolet team has sculpted the seventh-generation Corvette into the most sophisticated, most feature-packed Corvette produced to date. Direct fuel injection, continuously variable valve timing and advanced engine management control architecture are just some of the techniques applied by the folks at GM. The new technology helped Callaway engineers produce breathtaking power from the 6.2L LT1: 627 hp at 6400 rpm and 610 lb-ft of torque at 4400 rpm, with seamless transition into and out of positive manifold pressure. See dyno graph on reverse side. Fuel economy is practically unchanged from stock as active fuel management and modulated supercharger inlet valving monitor driving conditions and respond accordingly.

SC 627

New Callaway Corvette Supercharger Features:

- Triple-element intercooler system provides more conductive heat transfer than single and dual intercooled systems for more power.
- Supercharger extends through hood to provide additional, convective heat transfer capability for more power.
- Tuned-runner intake manifold significantly increases mid-range torque – up 57 lb-ft from 2013 Callaway Corvette.



The heart of the Callaway Corvette package is Callaway's third-generation supercharger design (pat. pend). Entirely new, Callaway engineers developed a supercharger housing and integrated intake manifold for improved airflow quality and increased charge air cooling capability. Intake manifold runner cross-section and length were tuned for a broad torque band while maintaining excellent peak horsepower. Eaton's 2300cc TVS rotor pack was selected for its high thermal efficiency, OEM-certified quality, and service-proven reliability. A new triple-element intercooler configuration provides significantly lower inlet charge air temperatures than possible with single and dual element designs. Because of the added volume of the new internals, the supercharger housing itself extends through the hood. Consequently, both conductive and convective heat transfer mechanisms are utilized to remove power-robbing heat from the inlet charge.

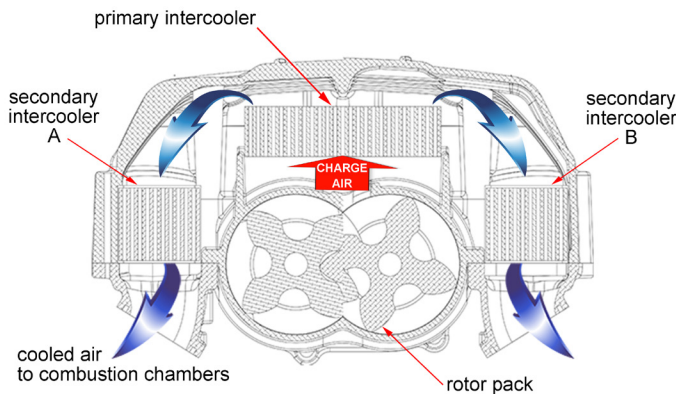
To illustrate the improved efficiency of the Callaway intercooler design, inlet air temperature increased by less than 10°F during repeated dynamometer runs, compared to increases of more than 35°F with other superchargers. That means more consistent performance at the track and dragstrip, as well as increased power on the street during summer months.

To prevent drive belt slippage, a new 10-rib pulley system has been incorporated, separate from the original equipment accessory drive. In fact, certain technical features of the supercharger are significant enough that utility and design aspects of the system are patent pending with the US Patent and Trademark Office.

Borrowing concepts from Callaway C12 race car exhaust design, the optional Callaway Sport™ exhaust system replaces the two OEM mufflers with a unitized acoustic chamber. The result is minimized exhaust gas restriction for maximum power with a deep, muscular tone. The signature Double-D exhaust tips are larger than earlier Callaway tips, now attaching directly to the chamber.

In contrast with one-off "tuner" cars, all Callaways are assembled to precise engineering specifications by our expert technicians. That's one reason why Callaway can provide the most comprehensive standard warranty among all specialty manufacturers, and an optional 5 year/100,000 mile Extended Powertrain Service Contract. It's also why organizations like NADA include Callaway as its own marque in their price guides.

Standard equipment and options are listed on the reverse side. For more information regarding the Callaway Corvette SC627 or any other Callaway cars or trucks, visit callawaycars.com or call us toll-free at 866 927 9400.



Cutaway view - Callaway Supercharger System

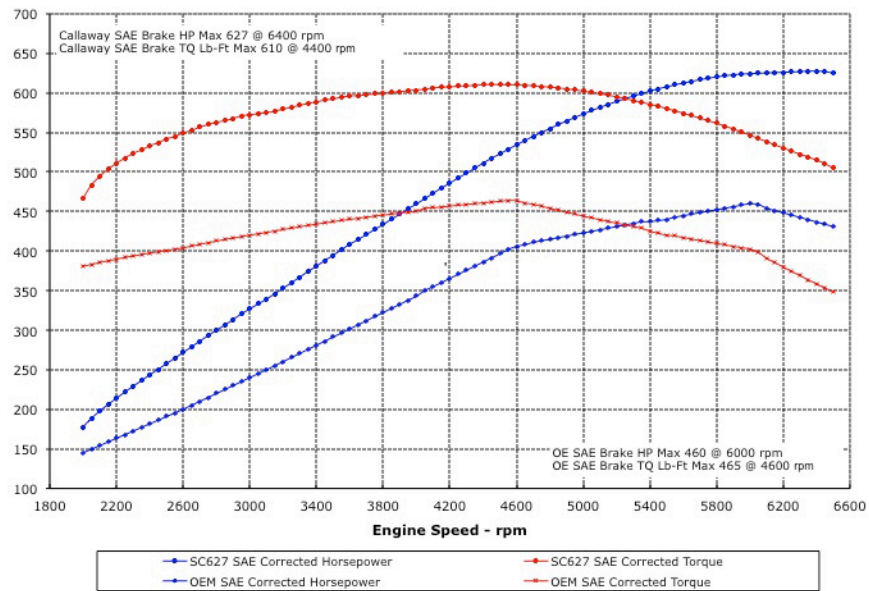
PERFORMANCE SPECIFICATIONS*	
Engine Displacement	6.2L (376 cid)
Maximum Power (SAE)	627 hp @ 6400 rpm
Maximum Torque (SAE)	610 lb-ft @ 4400 rpm
0 to 60 mph	3.4 seconds
1/4 Mile ET/Speed	11.0 seconds @ 126 mph

* with optional Callaway Sport Exhaust System



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2014 Dynamometer Test Data - Full Load Test
 6.2L Original Equipment vs. 6.2L w/Callaway SC627 Package
 SuperFlow Engine Dyno
 Callaway Advanced Technology - Printed on June 24, 2014 - COMPANY CONFIDENTIAL



STANDARD AND OPTIONAL EQUIPMENT

	STD	OPT
Callaway "GenThree" Supercharger System (pat. pend.)	•	
Triple-element Intercooler System	•	
Supercharger Surround Hood Trim Ring	•	
Callaway High Flow Intake System	•	
Callaway Door Sill Panels	•	
Callaway Exterior and Interior Badging	•	
Callaway Underhood Build Plaque with Vehicle Identification Number	•	
Callaway Key Fobs	•	
Callaway Authenticity Documentation Package	•	
Callaway 3 Year/36,000 Mile Limited Warranty (supplements GM warranties)	•	
Callaway 5 Year/100,000 Mile Powertrain Service Contract		•
"Callaway Sport" Exhaust System, with Double-D Tips		•
Callaway Nine-Spoke FlowForged Wheel Package		•
Callaway ShortThrow 7 Speed Shifter		•
Carbon Flash Callaway Emblem Package		•
Callaway Corvette Car Cover		•
National Corvette Museum Delivery		•
Callaway Factory Delivery Experience		•
Other Optional Equipment to be announced.		

