

## Callaway C16 Series Defined



**Powerfully Engineered Automobiles...30 years in the building.**

- **The Callaway C16 is Callaway's 16th and latest automobile.**
- **A bespoke automobile, built to order, by what the Press has called "the best specialist engineers in the business".**
- **The car is seriously fast, beautiful, and exclusive.**
- **Backed by a company whose reputation for quality and owner satisfaction extends more than thirty years.**

**What follows is a detailed look at how to configure a Callaway C16.**

We believe a Callaway C16 represents everything we know about how to make a great road car. We suggest that there is one configuration that makes this statement. Therefore, we offer the automobile in one configuration - fully, and correctly done. In other words, when an potential owner asks us, personally, how would we build a car for ourselves, here is the answer:

Choose a  
configuration:  
Coupe, Convertible,  
or Speedster  
Manual 6 speed  
gearbox (preferred) -  
Standard  
Automatic 6 speed  
paddle shift -  
Optional  
Supercharged to the  
650 bhp level -  
Standard  
Equipped with the  
Callaway C16 body,  
in your color choice  
The complete  
'Deutschleder'  
interior, again, in  
your leather choice -  
Standard  
The Callaway  
Eibach Multi-Pro  
Suspension -  
Standard  
The Le Mans Brakes  
- Standard  
The Callaway Short  
Throw Shifter -  
Standard w/manual  
trans.  
The  
Callaway /Dymag  
CMA wheels, 19 x  
10 front, 20 x 12  
rear - Standard

Michelin Pilot Sport  
PS2 tires - Standard

Once you have selected the above configuration, there are really only two options, if you take our suggestions:

Callaway Sport Seats (a snug, but great, seat for the best car control)  
Callaway Carbon Ceramic brakes save another 10 lbs per corner of unsprung weight

- Callaway C16s are either Cabrio (Convertible) or Coupe or Speedster, 6 speed manual. Alternatively, you can specify the paddle-shift automatic transmission for an additional \$1200
- The Callaway C16 is a direct competitor for the Porsche GT3, the Lamborghini Murcielago, the Ferrari 599 GTB.
- It is both faster and more capable than its competitors, at less cost.
- The easy way to make this decision is to visit our factories and test drive the Callaway C16.
- Additionally, a Callaway Corvette is part of the Corvette Advanced Driving School at Spring Mountain Motorsports Ranch in Pahrump, Nevada near Las Vegas. Check out [racespringmountain.com](http://racespringmountain.com): Super instruction, great facility, and a fully equipped Callaway Corvette in the school
- New Callaway C16s are ordered by calling Callaway directly. In California 949 294 0100

Whichever model you choose, you will be getting an exclusive, beautiful, and enormously capable 200+ mph automobile that is dependable, gets 30+ mpg at 70 mph, and has the best warranty in the business.

*"... 3.3 second 0-60; 10.9 second quarter mile;  
206 mph top speed; EPA rating of 18 mpg city and  
28 mpg highway. Is this the perfect sports car?  
We say: "yes".*

-ign.com [more](#)

### Callaway C16 Body - Standard Equipment on C16

The Callaway C16 Body replaces every panel of the standard C6 body with the exception of the roof panel and the rear hatch. The Callaway approach uses the standard attachment points as its datum, preserving the standard cut lines of door, hood, and rear hatch openings. The panels are made of high grade glass fiber with a class A gel-coat painting surface. They are designed to be refinished with either the standard GM top coat materials or any of the Callaway specified paint colors.

Re-used from the standard car are the headlight projectors, the turn indicators, the side lights and one set of the tail lights.

New headlight lenses and inner reflectors are supplied.

Door handles and door handle cutouts are eliminated and a unique keyless entry system, the D Spot, is introduced. The GM fob is retained. However, the door pops open when you pass your hand over a particular area of the rear fender, just behind the

door. A fail-safe mode is also retained in case of a flat battery.

A Soft flannel car cover is included - custom fitted to the C16 shape.

### **650 bhp Supercharged 6.2 liter V8 Engine - Standard Equipment on C16**

C16 Engine Package - 650 Supercharged bhp and 600 lb-ft torque (SAE)

- Roots-type Eaton TVS supercharger, intercooled, with polished housing
- Upgraded fuel system with high flow injectors
- Callaway Honker high flow air inlet system
- Callaway Double-D exhaust system
- Callaway body-color injector covers

The Callaway C16 is powered by the Corvette's 6.2L LS3 engine, enhanced by Callaway's Magna Charger supercharger system. The Roots-style TVS supercharger provides substantial power increase (220 bhp), while internals manufactured by Eaton, the world's leading OEM supercharger supplier, ensure bulletproof reliability. Callaway's electronic engine management calibration provides perfect street manners, eliminating engine-damaging detonation and maintaining excellent fuel economy. Magna Charger's unique intercooler design, built into the manifold base, significantly lowers charge air temperature to increase power (patent pending). During low-load cruising conditions, the supercharger's internal bypass allows the rotors to spin freely, reducing parasitic drag to less than one-third of one horsepower.



- Callaway-proprietary forged pistons, manufactured by Mahle
- Extra-long Oliver forged connecting rods
- Callaway-proprietary severe-service stainless steel intake and exhaust valves
- Callaway-proprietary valve springs, titanium spring retainers, chrome moly pushrods
- Callaway-proprietary hydraulic roller camshaft with high-ratio roller rocker arms

- Increased volume engine oil pump
- Cylinder block preparation, including honing for new pistons and file-fit rings
- Advanced valve seat machining and expert cylinder head setup assembly

650 bhp elevates the C16 to another level of performance. No off-the-shelf "tuner" parts here, this package has been developed by Callaway engineers applying our established high power, sophisticated approach, extended durability combination. To accommodate the TVS supercharger's elevated manifold pressure, engine internals have to be upgraded. High strength forged pistons, built for Callaway by Mahle, replace GM's cast pistons. The LS3 cylinder bores are honed in Callaway's state-of-the-art engine shop to precise piston-to-wall clearance specifications. Callaway-proprietary piston rings are file-fit for accurate end gap and perfect sealing. Oliver forged connecting rods replace the LS3's powdered metal rods, and are longer than stock for improved combustion and more power. The proprietary camshaft profile is specifically designed for this supercharged application, with abundant mid-range torque and excellent high RPM power and without the radical idle and poor low-end torque of other cams. Callaway-proprietary valve springs eliminate valve float and spring breakage at high RPM while avoiding excessive spring pressures that can sap power and reduce service life. A high volume oil pump ensures proper lubrication under the most severe conditions.

[101.60.0052](#) CALLAWAY 650 HP ENGINE PACKAGE  
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#### **Callaway Le Mans Brake Package - Standard Equipment on C16**

*"Brake hard—repeatedly—and you get carrier-landing deceleration accompanied by whiff of pad, but not one iota of fade or pedal softness. "*

-Doug Kott,Road & Track, May '07

Front/rear: Callaway 6-piston (front) and 4-piston (rear) calipers with 380 x 32 mm diameter rotors (front) and 355 x 32 (rear)

Extreme performance needs extreme braking ability. In keeping with enviable acceleration and top speed, braking ability is enhanced with the same package that the Callaway cars use at Le Mans. Only the brake pad material spec differs for road use.



[130.60.6902](#) CALLAWAY LE MANS BRAKE PACKAGE  
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#### **Callaway/Eibach Multi-Pro Suspension Package - Standard Equipment on C16**

*"On the road, the C16 immediately feels even tighter, stronger and faster than a Z06 Corvette. It's everything buyers love about that car and more. While roll, dive and squat are mighty hard to sense in a standard Vette, they're almost entirely absent in a Callaway"*

-Mark Vaughn, AutoWeek, March 16, 2007

*"Seriously good Eibach aluminum-body shocks, separately adjustable for both jounce and rebound control, probably make the biggest difference....The suspension gives the C16 a positively planted, though not overly firm, ride, and the shocks keep the contact patches stuck to the pavement even through mid-corner bumps that would momentarily unsettle a stock Corvette."*

-Doug Kott, Road & Track, May '07

Callaway/Eibach Multi-Pro coil-over suspension with double adjustable dampers, external reservoir with 10-position compression control; companion helper and tender springs supplementing composite leaf springs; front and rear Callaway anti-roll bars, tubular steel.

Callaway and Eibach have jointly developed the ultimate suspension upgrade for the C5/C6 platform. Our primary objective was: Give the driver a tool to transform the ride of the automobile to his/her taste.

The elements that are now adjustable with the Callaway Eibach system are: ride height, pitch attitude, cross-weighting of the entire car, and of course ride frequency in both rebound and compression. With all these adjustment options we look to satisfy the driver who will tailor his ride and handling to their local conditions whether that be road or track, high speed or around town, autocross or cross country. Of course, we have good starting point suggestions for each of those uses. Once in place, you are encouraged to experiment.



120.60.6312 CALLAWAY/EIBACH MULTI-PRO SUSPENSION PACKAGE  
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#### **Dymag CMA Wheel & Tire Package - Standard Equipment on C16**

*"...the wheels themselves, which are featherweight works of art. Manufactured by U. K.-based Dymag with Callaway's input, they utilize forged center sections of magnesium alloy, bolted to carbon-fiber rims."*

-Doug Kott, Road & Track, May '07

The Dymag CMA (Carbon/Magnesium/Aluminum) Wheels are a remarkable piece of technology. A full carbon fiber rim joined mechanically to a magnesium/aluminum alloy spider makes this combination the lightest road wheel available. For example, the 20" diameter x 12" wide wheels weighs 18.2 lbs. This unsprung weight is approximately 60% of the equivalent aluminum wheel. Accommodates GM tire pressure warning system transmitter.

Front: 19 x 10 Callaway/Dymag CMA wheels, 285/30ZR19  
Michelin Pilot Sport PS2 maximum performance tires  
Rear: 20 x 12 Callaway/Dymag CMA wheels, 325/25ZR20  
Michelin Pilot Sport PS2 maximum performance tires



140.67.7550 CALLAWAY DYMAG WHEEL/TIRE PACKAGE  
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#### Deutschleder Interior Package- Standard Equipment on C16

*"...and the craftsmanship of the stitching and fitment wouldn't look out of place on a Maybach ."*

-Jason Kavanagh, Edmunds InsideLine, March 07

*"The smell alone is worth about \$30,000!"*

-Doug Kott, Road & Track, May '07

The interiors are a work of art.

Done to Callaway standards by the world's best trimmers, the C16 interiors are full German leather appointments for the look, feel and smell of a car crafted to the highest standards. The client chooses the color palette to complement or contrast the exterior color. Detail embellishment may be specified at this point.





160.60.8700 DEUTSCHLEDER INTERIOR PACKAGE  
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#### **SportSeats Package - Optional Equipment on C16**

*"Our car had the optional sport seat, awkward to get into but one of the most comfortable and secure buckets we've ever sat in."*

-Mark Vaughn, Autoweek,  
March 16, 2007





Single shell sport seat for road use  
Choice of matching interior leather, blind embossed  
with or without Alcantara accents  
6 way, power adjustable

160.60.8850 SPORTSEAT PACKAGE  
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**Matched Luggage -Optional Equipment on C16**



Matched travel luggage is generally specified using the same hides as the interior. Luggage is marked with the VIN. The design of the 5 piece set is customized so that all pieces fit the available boot space in a nested fashion.

The luggage is supplied by Schedoni, S.r.L.  
Supplier to Ferrari, Maserati, Bentley and Maybach.

180.61.9550 SCHEDONI LUGGAGE PACKAGE  
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**Contact 860 434 9002 in Connecticut or 949 294 0100 in California**

In 20 years of selecting, developing and manufacturing a highly specialized set of components for Corvette platforms, we have come to appreciate what works, what doesn't, what's a liability down the road, and what gives lasting satisfaction. That knowledge is condensed into a series of coordinated modifications, manufactured from the best materials, and offered to the enthusiast in packages that treat the car as a well-tuned, systems-engineered entity.

That is how we make Powerfully Engineered Automobiles.



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