

TWO BRAND-NEW 427-CU.-IN. TURBO-JET V8s

A unique hood graces certain of the 1966 Corvettes. Under it lies 427 cubic inches in either of Corvette's two new Vest that can be ordered for 1966. The top-output engine is a 255-by version with 11.01. composition ratio, a very large four-barrel caraburetor, at very large four-barrel caraburetor, the composition of the composition of the order of the composition of the composition of the with mechanical valve lifters. With this combine, the big 427-incher puts

out in a true sports car manner.

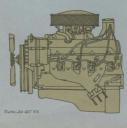
The milder version uses hydraulic
lifters, a different four-barrel carburetor and 10.25:1 compression. It develops 390 horsepower from the 427
cubic inches and gives it to you in a

hp tenjate dinear ministe are ushp trube-let 427 and 390-hp Turbelet 427, respectively. Both Visu use a 425 bore and 5.0° stroke. For more combolated rigidity, both engines commeced to the block by four both; or caps. In the 425-hp vension, the caps are held to the block by four both; or the 590-hp rating, they're secured by two. In combination with strong bearing builk-based, the carsh is clamped more firmly and given greater support in each of the few main bearings.

In the 425-hp Turbo-Jet V8, a special hardening process at all main and connecting rod bearing journals gives the crank extra fatigue resistance. In both Turbo-Jet V8s, main and connecting rod bearing material and design promote greater durability. Crankshuff journals and bearings are larger than in other Covette engines.

Cylinder heads on these 427s breathe very freely. Here's why the fuel-six very freely. Here's why the fuel-six for the fuel six for the fuel six for the fuel six fue

improved, too. Combustion chambers are modified wedge type, the fire is started from the combustion of the combustion of the combustion was thermal efficiency lindéd is increased by reducing the ratio of chamber surface to chamber volume. In other words, the products of combustion work more can the piston to push it down than to best up the surrounding walls. Finally, special intake and exhaust valve guide inserts are used for the combustion work.



located at the pushrod upper ends keep the rocker arms and pushrods in close alignment at all engine speeds.

Some more worthy items: Fiston are impact-struded on the 425-b; Turbo-det 427 for high strength. Pl. Turbo-det 427 for high strength Pl. Deboses are moved inhoard, strengthen ing the solid-dome piston and giving additional pattern in registry. Special and the solid-dome piston and giving additional pattern in registry. Special pattern and p

to engine meeds.
Under the more familiar Corvette
hand is one of two 227-cabb-inch V8s
not is not of two 227-cabb-inch V8s
or pallof. Flex off, the 200-bp engine
is now standard equipment. . . with
227-cu.-in. diplacement, a healthy
four-horred carburetor, big intake-valve
cylinder heads and 23% diameter dual
by version is specified, the carburetor
is larger, a different camebaff is used
and the compression ratio is boosted
from 10.5.1 on the 300-bp to \$11.5.1.
Bath engines use bydraulic valve lifters
for emoothness and quiet operation.
Oil requirements for the 300-bp V8 are
frequents including filter: each of the

including filter.

A new automatic choke on every engine is more responsive to engine temperature during operation. All '6¢ engines continue to use efficient over-

hort inlet and exhaust ports. Full dual xhausts are supplied with every ngine. A controlled-pressure lubricaion system with replaceable oil filter was care of oiling chares.

Coupling the output from Corvette's engines to the differential lets you get creative. For instance, 3-Speed transmission, fully synchronized in all forward gears, is now standard with the 300-hp engine. A 4-Speed with 2.52:1 ratio let gear may be ordered with the 300, 350, or 390-hp engine, a 2.20:1.



4-Speed manual transmission

1st gear 4-Speed may be specified wit

A heavy-duty 4-Speed may be ordered for highly specialized use with the 425-hp Turbo-det 427 V8. (However, the heavy-duty 4-Speed is designed for ultra durability; its high noise level makes it generally unauitable for street use.) All 4-Speeds are

fully synchronized in forward gears.

Leisure lovers, don't feel left out.

Let juice do the work for you in the

You'll find many extra-cost Options and the control of the control

				Cam &		
		High-Flow Hydraul				
	300 6 3000					
4.25 x 3.76 in.	460 (5 3600					
4.25 ± 3.76 lin.	460 (5 0000					







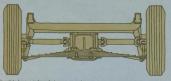
Right: Enthusiast's delight: 4-Speed box Seat belts with retractors are standard







THE BIG DISC BRAKES...
ALL-INDEPENDENT SUSPENSION...
ACCURATE STEERING AND STRONG FRAME...
ALL COUPLE YOU TO PRECISE DRIVING

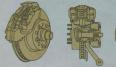


Corvette's famous independent rear suspension

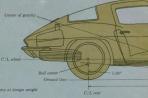
Corvette's big Sport-Master disbrakes deliver mearly unbelievable stopping power. These binders are hydraulic caliper-type units with 11.75' cast-tron disos, front and rear. In addition to natural air flow around the nal cooling fins force air between the surfaces of the disos. Resulf? Cooler brakes for fade resistance. Four caliper units, one at each wheel they will be like a pair of filers), supply the squeeze asbeste linings. Braking action occurs at the ratio of about 65% at front wheels, 35% at forant. To rear the surface parking. For parking purposes, brake mechanically on the rear wheels. A small drum is machined from the inside of each rear dise brake unit, and accommodates the parking brake such search wheels.

Corvette gives you a feeling of control through precise balance and rhythm. Key to this control is the all-independent suspension. In the front, variable-rate coil springs soak up smal shocks and bumps; over big bumps, the springs maintain taut control. Anti-dive geometry is built into the upper control arm, and a front 0.750′ dia, stabilizer bar, rubber-bushed, gives the '66 Coverte a ride equality suited to casual boulevardeering or to more ambitious countryside demands.

ambitious countryside demands.
At the rear, Corvette's sophiscare of curves and bumpe in a thorcare of curves and bumpe in a thorcare of curves and bumpe in a thormaterial country of the curve of the curves
from the curves of the curves of the curves
final drive assembly is mounted directly
to the frame to reduce unsprung weight, the
rear
Without the sort weight, the rear
Without the sort weight, the rear
when the curves of the curves of the
curves attending and smoothly
and amounts
are rainful quickly and smoothly.
Each wheel is located by three links—
a trailing arm from the frame to the
ear wheel hub, a strut red from the
ear wheel hub, a strut red from the







lower part of the differential case to the rear wheel hub and the tubular axle shaft (double universal-jointed). The trailing arm transfers acceleration and axle shaft locates the wheel laterally and allows a minimum of camber

cornering loads are handled by the of the nine-leaf variable-rate rear spring is to cushion the ride. Like the front in its stride while remaining firm to large bumps. Direct-acting, doublebags to help maintain proper action during extreme use.

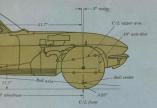
On Corvettes equipped with a (0.875" dia) front stabilizer bar is used. while a special 0.562" dia. stabilizer

Corvette's precise steering results ical-joint components. Faster steering provisions are built into the basic system as standard equipment. A telescopic steering column allows drivers to move the wheel through a range of three inches fore or aft-without getting out of the driver's seat. (The standard steering column is also adjustable with simple tools.) Further, tional ease. Standard steering ratio is 20.2:1: it can be changed to 17.6:1 Power steering comes set from the

suspension and driveline components together is the Sting Ray's frame. It has heft where it's necessary and strength without excess bulk. The five low center of gravity and allows placement of major car components

assembly is something different among American-made cars. We've already said that it's bolted to the frame. assembly from direct metal-to-metal transfer to the body from the rear suspension. Mounted to the frame in this manner, the assembly reacts with the body over bumps. Since it moves





with the body and not the wheels, the going's smoother and the engines can put their power on the ground where it belongs. And, "axle-tramp" is gone. When Positraction is specified, power flows to the rear wheel with

power flows to the rear wheel with grantest traction, especially on muddy, alipsery or other irregular surfaces where traction under one wheel such favorable. A wide range of ade ratio is available with Positraction, particularly with the 428-hp Turbo-det Val. The power team chart on page 4 with the numbers story; how they affect or out speed is allown below. This ratio chart gives approximate speed based on engine rym and rear ade ratio.

MPH X RPM, AVAILABLE AXLE RATIO (Figures are estimated without allowance for tin expansion or slippage.)



MILES PER HOUR PER 1000 ENGINE RPM IN FINAL DRIVE Figures are estimated without ellowance for ti expansion or slippage.)

	heneson or amplied	
3.08:1 - 25.6	3.36:1 - 23.1	3.55:1 - 22.5
3.70:1 - 21.3	4.11:1 - 19.2	4.56:1 - 17.0

Check the extra-cost Options and Custom Features on page 14. Some are presented in text and illustrations in this catalog.

With all of the basic mechanical 1966 Corvette Sting Ray body must take its deserved bows. The first thing most Corvette enthusiasts will notice is the new bright metal grille styling. The shape gives the '66 a rugged and handsome look. Just aft of the lefthand retractable headlight is the new nameplate. Of course, the "domed" hood signals to the knowledgeable that one of the 427-cu.-in. Turbo-Jet V8s lies beneath. On the side of every '66 Vette, a fresh new body sill molding standard wheel covers look for all the world like costly mag wheels. At the rear, backup lights are now standard. (These lights and other new standard items may not necessarily be illustrated

Of the ten exterior colors, four are brand-new. (See back cover for complete rundown of all 1966 colors and fabrics.) Enhancing all of these colors are new thinline-styled whitewall or

gold-stripe tires that can be ordered.
Other Sting Ray styling features
continue virtually unchanged: exhaust
louvers behind the front wheels cand
on the hood of Turbo-let VS models as
well to ventilate the engine compartment, retractable headilghts, amber
curved body side glass, outside rearview mirror and serodynamic lines that
remain among the sleekest in the snorts

car world.

Both Corvette models use the same underbody parts. While most enthunderbody parts, While most enthunders with the parts of fiber glass panels, it bears repeating for the latest class of afficinados. Convertible uses 31 pieces, sport coupe 35. In some areas, panels are riveted to a steel framework. In others, a strip of fiber glass is riveted to the frame-

work and body panels are bonded to the strip. Sport coupe body uses six rubber "biscuits" to cushion body from frame at attaching points; the convertible uses eight similar "biscuits." Sealing and weather stripping remain

given special attention for weathertightness; and they give an additional benefit-easy entry and exit. Wraparound bumpers, front and rear, protect the body against casual damage:



shield wipers with pushbutton washer help keep vision clear; weather-shielding makes frozen door locks almost a thing of the past and separate locked at a maximum.

About the most difficult choice to make is between convertible and sport coupe; each booster can praise his favorite's advantages. Your choices beyond that are what color, which engine and transmission, what interior and what optional equipment. The top or removable hard top. However, convertible selectees often prefer to order both; the second top at modest extra cost. The soft top stows completely out of sight when it's put down. inclemencies. Folding top is available in black, white or beige, in combination with any exterior color; hard top

matches exterior body color. Finally, Corvette's sparkling Magic-Mirror acrylic lacquer finish stands up remarkably well against the effects of weather. The paint has high resistance to fading, staining, chipping and chalking. If a body panel is damaged, the paint can be spot-finished, eliminating the necessity of repainting an entire body area.

Overall, the design concept has been fundamentally right since the Sting Ray's inception: changes have been in the nature of improvements on the basic design. Conclusion: To own and drive a 1966 Corvette is one of the most invigorating and exciting experiences in the whole of motordom.

Cornette, Look over the list on page 14, and throughout the text and illustrations con-

INSIDE: COMFORT, EXACTING INSTRUMENTATION AND LUSH APPOINTMENTS

Here's an interior that says sports car in an adventuresome way. Opening the door to a '66 reveals new lushly styled seats. Sitting in them is comfort pure and simple. Door pulls are bright metal for added luxury; crank-operated ventipanes assure easy, positive operation. Your feet will rest comfortably on molded deep-twist carpet. Interior colors for 1966 include black, red, bright blue, saddle, silver, green, blue and white/blue; all are keyed to exterior body finish. The expanded vinvl is subtly textured for extra elegance; you may order genuine leather seat trim in most colors.

In the sport coupe, a new vinylcovered foam headliner helps keep the interior quieter. Both models have a new shatter-resistant inside rearview mirror. Other posh touches: carpeted cowl side panels, padded sun visors, blended-air heater-defroster with threespeed blower, seat belt retractors, seat belt buckle-clips on the console and

DIMENSIONS (in inches)	Sport Coupe	Con- vertible
Torso		38.5
Leg	42.7	42.7
Hip	50.9	50.9
Shoulder	48.4	48.4
Entrance room	31.4	30.2















two-key locking system with an ignition switch that prevents turning to "Accessory" unintentionally,

Behind the seats, an under-the-floor storage compartment hides valuables and stores tire tools as well. The luggage compartment is completely carpeted and encompasses over 10 cubic feet in the sport coupe, unless you specify the 36-gallon fuel tank.

Every true sports car driver wants to know what's going on when he drives. So Corvette's '66 instrument panel tells you what's going on in the engine compartment and on the road in a glance. Twin large-circle instruments house the speedometer and tachometer directly in front of the odometer. Directly beneath these two instruments is a resettable trip odometer which registers mileage up to 999.9 including tenths. A small knob under the instrument panel affords

gauge, ammeter, electric coolant temperature gauge and an oil pressure gauge. On Turbo-Jet 427 V8 models, the oil pressure gauge reads to 80 pounds; on other models it reads to 60 pounds. Yellow line and red line areas on the tach correspond to engine selection. Rounding out the instruments are a cigarette lighter, headlight switch and retractor switch (a red signal blinks "Lights" if you turn on the headlights without raising them). hood release, parking brake and fourposition ignition switch. Over on the passenger's side, a built-in assist bar panel; a large locking glove box opens and the door becomes a convenient to both passenger and driver. Finally, when you order a radio the controls are located in the central console. Outside air vent pull handles are located on either side of the steering column directly below the instrument panel.

When the parking brake has been left on and the engine started, a little red light lets you know. It blinks, "Brake." Similarly, if you switch the headlights to high beam, another little red light stares brightly at you. It's

All of the wiring is color-coded for easy maintenance. Radio-equipped cars have bright metal shielding to suppress ignition noise and interference. Accessories are fused except for the headlamps and parking lights.

A diode-rectified air-cooled Delcotron generator keeps the battery charged and supplies necessary electrical energy. Fully transistorized Delcotronic ignition may be specified with 350-hp and 390-hp engines: it's required equipment on the 425-hp V8. The unit replaces conventional points with a magnetic pulse unit. A transistor amplifier builds up higher primary current; the coil delivers higher spark plug voltage at all engine speeds.

A complete list of extra-cost Options and Custom Features is cited on page 14. In ad-



HERE ARE THE KIND OF EXTRA-COST OPTIONS DEMANDED BY ENTHUSIASTS OF LUXURIOUS MOTORING

Once you select your Corvette body style, power team combination and color, you'll want to consider certain extra-cost Options and Custom Features to individualize the car to your personal taste. Some of the following have already been described in the text or illustrated.

- Four-Season air conditioning—used in conjunction with the built-in heater-defroster for year-around climate control inside your Corvette. Not available with the 425-hp Turbo-Jet 427 engine.
- Genuine leather seat trim available in all interior colors except green and white/blue.
- Inside prismatic-type day-night non-glare mirror.
- Soft-Ray tinted glass—windshield or all windows.
 All-transistor AM/FM pushbutton
- radio, including power-operated rear antenna.
- Folding soft top or removable plastic hard top for convertible.
- Power windows with controls located between the seats.
- Power brakes, including dual-circuit brake master cylinder.

- Power steering with factoryadjusted 17.6:1 overall ratio.
- Telescopic steering column with locking hub in the center of the steering wheel.
- Genuine teakwood rim steering wheel.
- Emergency road kit. Includes fire extinguisher, flares, fuses, tire inflator and repair kit, brilliantly-colored distress flag.
- Thinline whitewall tires or goldstripe tires. For specific details on tire sizes, appearance features and availability with car models, see
- your Chevrolet dealer.

 Powerglide automatic transmission.

In addition, you may specify these Options: 350-hp 327-cu.-in. V8, 390-hp Turbo-Jet 427, 4-Speed transmission.

Your dealer can supply you with these additional extra-cost Custom Feature items: compass, fire extinguisher, portable spot lamp, traffic bazard lamp switch (converts all turn signal lamps into flashers), deck lid luggage carrier, luggage hold-down straps, twin contour floor mats, tissue dispenser kit and tool kit.

FOR OFF-ROAD EVENTS, LOOK OVER THIS LIST OF SPECIAL EXTRA-COST OPTIONS

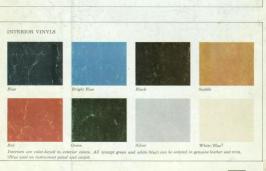
- 425-hp Turbo-Jet 427.

 Heavy-duty 4-Speed manual trans
 - mission with 425-hp Turbo-Jet V8; not recommended for normal street driving.
- Heavy-duty disc brakes (with Turbo-Jet V8s only).
 - Positraction rear axles in 3.08:1, 3.36:1, 3.55:1, 3.70:1, 4.11:1 and 4.56:1 ratios, depending on power team selected.
- Front and rear special suspension, with Turbo-Jet V8s only.

- type, 6" rims.
- Off-road side-mounted exhaust system.
 - 36-gallon fuel tank. (Portion of rear compartment area carpet is deleted in both sport coupe and convertible.)
 - Delcotronic Full-Transistor ignition replacing conventional breaker-point type (for 350-hp 327-cubic-inch and both Turbo-Jet 427 engines).

COLOR AND FABRIC SELECTOR





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