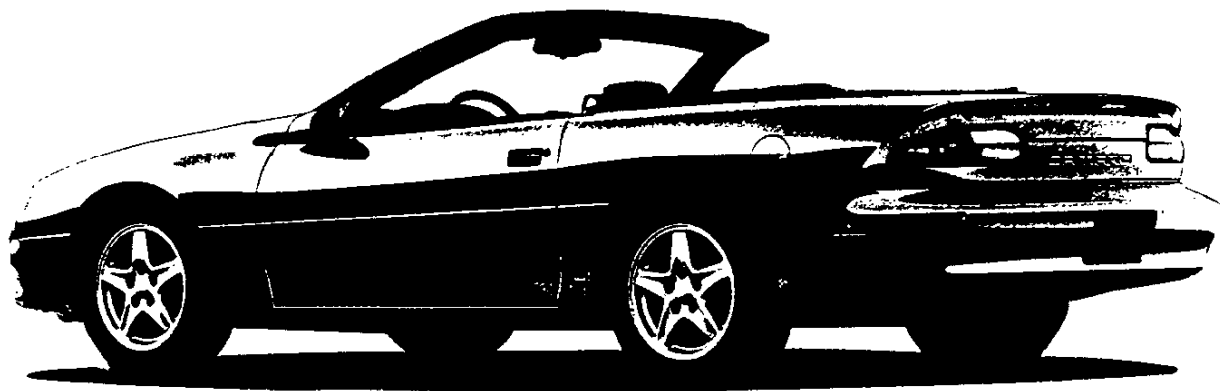


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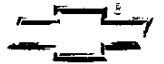
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1999 PRODUCT INFORMATION GUIDE





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For Release: August 1, 1998

CAMARO PRESERVES ITS MUSCLE CAR HERITAGE

DETROIT — After two years of refinements — including interior and safety revisions for 1997 and major exterior appearance, engine and chassis modifications for 1998 — Camaro enters 1999 as the embodiment of its performance heritage.

"After reengineering this car specifically for the sport coupe market, we have a vehicle that not only looks like a muscle car should, but performs like one too," said Dick Almond, Camaro brand manager. "Camaro has proven itself as an honest sports car that's performance-oriented, yet more affordable than many exotic sports cars. In other words, it has stayed true to its 'pony car' roots."

For more than 30 years, Camaro has remained a performance icon. For 1999, performance, comfort/convenience and safety enhancements help refine Camaro's "honest" muscle car image.

For example, Acceleration Slip Regulation (Traction Control) is now available on all models. The system works in tandem with the four-wheel antilock brake system to provide greater driver control and improved traction on slippery surfaces. In addition, the V8 system is calibrated to allow for some wheel slip during acceleration when beneficial to driving conditions.

More new for '99 enhancements appear under the hood:

- Electronic Throttle Control is now standard on V6 Coupe and Convertible models equipped with a V6 engine and provides precise engine response to driver input.
- A new engine oil-life monitor tracks engine rpm, coolant temperature and driving time to prompt the driver when the oil needs to be changed.
- A Zexel Torsen® differential is now utilized in the limited-slip rear axle that is standard on Z28 models and included with (Y87) Performance Package on Camaro Coupe and Convertible.

These performance enhancements help keep Camaro at the head of the pack. Camaro's standard 3800 V6 — available with either a five-speed manual transmission or an optional four-speed electronically controlled automatic — provides 200 horsepower, compared with Ford Mustang's standard 150 horsepower 3.8-liter V6. And, though the 3800 is a V6, it's only 25 horsepower shy of the Mustang GT's standard V8 engine.

Standard on Z28 is the impressive 5.7 Liter LS1 V8 engine — a modified version of the Corvette powerplant. It provides an incredible 305 horsepower — significantly more than Mustang GT's standard 225 horsepower 4.6-liter V8. And, holding tightly to its performance roots, Camaro once again offers an optional SS Performance/Appearance Package that provides even more horsepower and torque. Camaro SS was first introduced in 1967 — Camaro's very first year.

Camaro owners benefit in '99 from a larger 16.8 gallon, non-metallic fuel tank that helps increase driving distances between fill-ups.

The Monsoon premium audio system, previously standard only on Z28 Coupe, is now available on all models. This system provides such features as automatic tone control, speed-compensated volume, music search, eight speakers and a 200-watt amplifier.

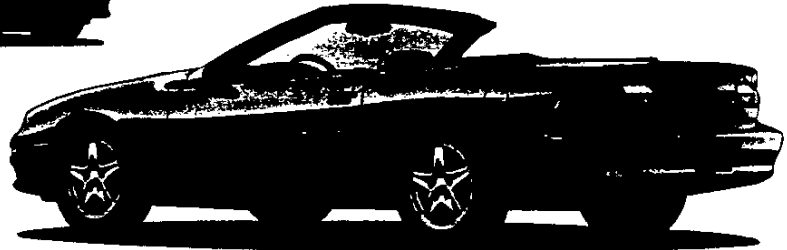
With an impressive list of standard features, sports car styling and outstanding performance, and the Monsoon audio system now available on Camaro Convertible, the 1999 Camaro "rocks" inside and out.

###

1999 CHEVROLET CAMARO



Camaro Coupe



Camaro Convertible

CAMARO AND THE MARKETPLACE

Camaro brings more than 30 years of muscle-car heritage to the sport coupe market. For 1999, Camaro continues the pony car tradition of affordable high performance with a V8 engine and rear-wheel-drive configuration — a true muscle car characteristic, unavailable in the imports. And, unlike many of its competitors, Camaro and Camaro Z28 provide both coupe and convertible model choices for a wide appeal. As a result, sales volume for the 1997 model year reached a healthy 58,152 units. Camaro's clean styling, outstanding performance and racing heritage find favor with youthful-minded consumers who truly love to drive.

CAMARO COMPETITORS

- Chrysler Sebring
- Ford Mustang and Mustang GT
- Honda Prelude
- Mitsubishi Eclipse
- Toyota Celica GT

Z28 COMPETITORS

- Ford Mustang GT and Mustang Cobra
- Mitsubishi Eclipse GSX
- Mitsubishi 3000GT
- Toyota Celica GT
- Toyota Supra

NEW FOR 1999

SAFETY AND SECURITY

- Acceleration Slip Regulation (Traction Control), now available on Coupe and Convertible, helps provide traction on most slippery surfaces (Pages 3, 12).

INTERIOR

- The Monsoon premium audio system with cassette player, previously standard only on Z28 coupe, is now standard on Z28 Convertible and optional on all other Camaro models for added driving enjoyment (Page 5).

EXTERIOR/ STRUCTURAL FEATURES

- The new, 16.8 gallon (approx.), non-metallic fuel tank helps increase driving distances between fill-ups (Page 6).
- Three new exterior colors are available for 1999: Hugger Orange, Light Pewter Metallic and Bright Blue Metallic (Page 7).

ENGINE

- Electronic Throttle Control, now standard on Coupe and Convertible with 3800 V6, provides precise engine responses to driver input (Page 8).
- The new engine oil-life monitor prompts the driver when the oil needs to be changed (Page 8).
- A Zexel Torsen differential, standard on Z28 models and included with (Y87) Performance Package on Camaro Coupe and Convertible, is now featured in the limited-slip rear axle (Page 13).

1999 CHEVROLET CAMARO



DEMOGRAPHICS	Overall Target	Convertible	Z28
Median Age	35 years	46 years	40 years
Median Household Income	\$55,000	\$75,000	\$75,000
College Graduate	36%	58%	43%
Principal Driver — Female	50%	50%	25%

1998 AWARDS

- *Consumer Digest* — “Best Buy” recommendation, sport coupes/sedans.
- *Ward’s Auto World* — “Best engines of 1998,” award for new LS1 5.7-liter V8 engine.

MODELS AND TRIM LEVELS

CAMARO COUPE

Camaro Coupe offers a long list of standard features including:

Interior

- Next Generation driver and front-passenger air bags*
- Air conditioning with CFC-free refrigerant
- Tilt-Wheel™ steering column
- Electronically-tuned AM/FM stereo with cassette player
- Day/night interior mirror with dual reading lamps
- Center console with integral armrest and storage compartment
- Full-folding rear seatback
- Scotchgard™ protection
- Carpeted front floor mats
- Change Oil Soon indicator
- Engine Oil-Life Monitor
- Gauge package with 125 mph speedometer, tachometer and digital odometer
- PASS-Key II theft-deterrent system

Exterior

- Daytime Running Lamps with automatic exterior lamp control
- Dual, body-color, outside rearview mirrors (LH remote, RH manual)
- 16" bolt-on wheel covers

Functional

- 3800 V6 Series II engine with 200 horsepower
- Five-speed manual transmission
- Four-wheel disc brakes with antilock system (ABS)
- Retained Accessory Power (RAP)
- Power rack-and-pinion steering
- Stainless-steel exhaust
- Ride and Handling Suspension
- P215/60R-16 touring tires.†

*Always use safety belts and proper child restraints, even with Next Generation air bags. See the owner’s manual for more safety information.

†Vehicle speed may be limited by speed rating of tires.

CAMARO CONVERTIBLE

Camaro Convertible adds:

Exterior

- Power convertible top with a three-piece hard tonneau cover

Functional

- Electric rear-window defogger.

CAMARO Z28 COUPE

Camaro Z28 Coupe adds:

Interior

- Monsoon premium sound system with cassette player
- 155 mph speedometer

Exterior

- Special black roof treatment and dual black outside rear view mirrors
- Dual outlet exhaust
- 16" aluminum wheels

Functional

- 5.7 Liter LS1 V8 engine with 305 horsepower
- Electronically controlled four-speed automatic overdrive transmission (six-speed manual is a no-cost option)
- P235/55R-16 touring tires*
- Performance Handling Suspension
- Limited slip rear axle.

*Vehicle speed may be limited by speed rating of tires.

1999 CHEVROLET CAMARO



CAMARO Z28 CONVERTIBLE

Camaro Z28 Convertible has the features of Camaro Z28 Coupe, plus:

Interior

- Power window with driver's Express-Down
- 6-way power driver seat
- Power door locks
- Carpeted rear floor mats
- Leather-wrapped steering wheel, transmission shifter and parking brake release handle

Exterior

- Foglamps
- Dual, power, body-color outside rearview mirrors
- Theft-deterrent alarm system
- Body-color body-side moldings
- Power convertible top with three-piece hard tonneau cover

Functional

- Electric rear-window defogger
- Electronic Speed Control
- Remote trunk release
- Remote Keyless Entry system
- Theft-deterrent alarm system.

CAMARO POLICE PACKAGE

The B4C Police Package includes:

Interior

- 155 mph speedometer

Exterior

- 16" aluminum wheels

Functional

- 5.7 Liter LS1 V8 engine with 305 horsepower
- Six-speed manual or electronically controlled four-speed automatic overdrive transmission
- Performance Handling Suspension
- P245/50ZR-16 speed-rated all-season performance tires*
- 3.23:1 limited-slip rear axle ratio (automatic transmission)
- 3.42:1 limited-slip rear axle ratio (manual transmission)
- Power steering oil cooler

*Vehicle speed may be limited based on speed rating of tires.

SAFETY AND SECURITY

With a long history of setting automotive safety milestones, GM is a world leader in automotive safety research, development and testing. The 1999 Camaro exemplifies that dedication, with comprehensive crash avoidance and occupant protection features. Camaro owners not only get genuine sports car performance, but additional peace of mind as well.

CRASH AVOIDANCE FEATURES

- **DAYTIME RUNNING LAMPS (DRL)** operate automatically when the ignition is in the "On" position and the parking brake is disengaged, increasing visibility to other drivers during daylight hours.
- **AUTOMATIC EXTERIOR LAMP CONTROL** works with Daytime Running Lamps and automatically activates the headlamps and all other exterior lamps to full intensity when light-sensitive sensors detect darkness for more than 20 seconds. The exterior lamps will shut off when the ignition is turned off.
- **4-WHEEL ANTILOCK BRAKE SYSTEM (ABS)**, standard on Camaro, automatically adjusts brake pressure to the front and rear wheels during hard braking situations, reducing wheel lockup and helping the driver maintain steering control.

NEW **OPTIONAL ACCELERATION SLIP REGULATION** (Traction control), now available on all models, decreases rear tire spin on most slippery surfaces, optimizing traction and stability under changing road and vehicle load conditions.

- **CLUTCH/STARTER SAFETY SWITCH**, on Camaro models equipped with manual transmissions, requires drivers to depress the clutch pedal to activate the ignition.
- **BRAKE/TRANSMISSION SHIFT INTERLOCK**, standard on Camaro models equipped with automatic transmissions, requires drivers to depress the brake pedal to shift the transmission out of Park.
- **SECOND-GEAR-START FEATURE**, included on Camaro Coupe and Convertible equipped with the optional automatic transmission, provides an extra measure of control in low-traction driving conditions.



OCCUPANT PROTECTION FEATURES

- **NEXT GENERATION DRIVER AND FRONT-PASSENGER AIR BAGS*** inflate with reduced speed and deployment force, helping to reduce the risk of deployment injury. However, even with Next Generation air bags, never place a rear-facing infant restraint in the front seat of any vehicle with an active air bag.
- **THREE-POINT SAFETY BELT SYSTEM** helps restrain passengers by distributing forces to help minimize injury.
- **FRONT-SEAT SAFETY BELT GUIDE LOOPS** make wearing safety belts more comfortable.
- **REINFORCED STEEL SAFETY-CAGE CONSTRUCTION** surrounds occupants with a cocoon-like system of structural components. This structure consists of reinforced roof rails, door pillars and beams, which are designed to help reduce intrusion into the passenger compartment.
- **FRONT AND REAR CRUSH ZONES** are designed to deform in a controlled manner in the event of a collision, to absorb impact energy in order to reduce intrusion into the passenger compartment.
- **BODY REINFORCEMENTS AND ENERGY-ABSORBING FOAM PADS IN THE DOORS** meet dynamic side-impact protection requirements. Convertible models feature foam attached to the rear-quarter trim panel and additional bracing added to wheelhouse areas.
- **ENERGY-ABSORBING STEERING COLUMN** and instrument panel are designed to help absorb collision impact energy, in order to help reduce injury to the driver's body.
- **REMOTE HOOD RELEASE** is standard on all Camaro models and helps prevent unauthorized access to the engine compartment from outside the vehicle.
- **LASER-ETCHED VEHICLE IDENTIFICATION NUMBER (VIN) plate** makes forgery more difficult than with stamped VIN plates.

*Always use safety belts and proper child restraints, even with Next Generation air bags. See owner's manual for more safety information.

SECURITY

- **PASS-KEY II THEFT-DETERRENT SYSTEM** temporarily disables the starter and fuel injectors if an incorrect ignition key is used to start the vehicle.

INTERIOR FEATURES

COMFORT/CONVENIENCE FEATURES

Standard features:

- **NEW ENGINE OIL-LIFE MONITOR** tracks engine rpm, coolant temperature and driving time, then uses an algorithm to predict the condition of the oil. When the system predicts that the oil needs to be serviced, it illuminates a light on the instrument panel, prompting the driver to change the oil.
- **CAMARO INSTRUMENT PANEL GAUGES AND WARNING LIGHTS** include:
 - 125 mph speedometer
 - 155 mph speedometer (Z28 models)
 - Odometer and trip odometer
 - Tachometer
 - Voltmeter
 - Engine oil pressure
 - Engine coolant temperature
 - Engine oil-life monitor
 - Liquid crystal display odometer and trip odometer
 - Fuel level
 - Low engine coolant-level indicator (Z28 only)
 - Low engine oil-level indicator
 - Low Traction ("Low Trac") indicator when ABS or Traction Control systems are active
 - Change Oil Soon indicator
 - ABS-inoperable warning light
 - ASR-off warning light.
- **FLOODLIGHT ILLUMINATION**, located above the door controls and switches, makes after-dark operation easy.
- **TILT-WHEEL™ STEERING COLUMN** allows the driver to articulate the wheel to the most comfortable, individualized driving position.
- **PADDED SUNVISORS** have covered vanity mirrors as well as elastic straps to hold maps or papers.
- **FULL-FOLDING REAR SEAT** increases cargo capacity and allows for flexible cargo carrying capability.
- **ROTARY HEATER/VENTILATION/AIR CONDITIONING CONTROLS** with high contrast graphics are backlit and have a tactile design for easy operation.

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- **SCOTCHGARD™ PROTECTION** helps protect cloth seating surfaces, carpeting and door trim panels from stains, and makes cleanups easy.
- **CENTER CONSOLE** with handy storage compartments, two front and rear cup holders, cassette/CD storage and an auxiliary power outlet provides added convenience.
- **DOOR MAP COMPARTMENTS AND A LOCKING GLOVE BOX** provide additional storage and security for personal items locked within.
- **INTERMITTENT WINDSHIELD WIPERS** allow the driver to match wiper speed to weather conditions.
- **THEATRE LIGHTING** gradually dims the interior lights after the doors are closed, providing additional time for the driver to get settled in before the lights go out.
- **LOW OIL-LEVEL INDICATOR** alerts the driver to check/add oil when the level is low, helping to prevent engine damage.
- **LOW COOLANT-LEVEL INDICATOR** (on Z28 models) helps avoid engine damage by alerting the driver when coolant level is insufficient.
- **CLOSEOUT PANEL** for the cargo area conceals personal belongings and reduces interior noise.
- **AIR CONDITIONING** with CFC-free refrigerant provides added driving comfort.
- **RETAINED ACCESSORY POWER (RAP)** allows certain features like a convertible top, power windows and audio system to remain operable for up to ten minutes after the ignition is turned off. This system is deactivated if either door is opened before the ten minutes expires.

Optional features:

- **REMOTE KEYLESS ENTRY SYSTEM**, with interior lighting feature and theft-deterrent alarm system, allows the driver to lock/unlock the doors and hatch, turn on interior lights or arm the alarm system using a key-ring transmitter from up to 30 feet away. The theft-deterrent alarm system adds to the standard PASS-Key protection by utilizing a shock sensor and door jamb switch sensors to detect vehicle break-in.
- **POWER WINDOWS WITH DRIVER'S EXPRESS-DOWN** feature lowers the driver window with a single touch of the switch.
- **POWER OUTSIDE REARVIEW MIRRORS** make mirror adjustments simple with an easy-to-reach switch.

SOUND SYSTEMS

Camaro includes the following sound systems choices:

- **ELECTRONICALLY TUNED AM/FM STEREO WITH CASSETTE PLAYER**, seek-scan, digital clock and extended-range speakers (standard on Camaro Coupe and Convertible).
- **MONSOON PREMIUM SOUND SYSTEM WITH ELECTRONICALLY TUNED AM/FM STEREO AND CASSETTE PLAYER**, seek-scan, digital clock, automatic tone control, speed-compensated volume, Dolby Noise Reduction, Music Search, TheftLock security feature, eight speakers and 200-watt amplifier (standard on Camaro Z28 models, optional on Coupe and Convertible).



MONSOON PREMIUM SOUND SYSTEM WITH ELECTRONICALLY TUNED AM/FM STEREO AND CD PLAYER, seek-scan, digital clock, automatic tone control, speed-compensated volume, Dolby Noise Reduction, Music Search, TheftLock security feature, eight speakers and 200-watt amplifier (optional on all Camaro models).

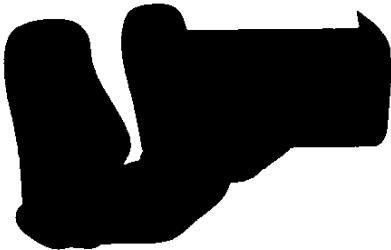
- **REMOTE COMPACT DISC CHANGER WITH 12-DISC MAGAZINE** located in the left rear of the cargo area and controls built into the radio for easy operation and convenience — optional on all models.

Uplevel cassette and compact disc player systems feature:

- **SPEED-COMPENSATED VOLUME** automatically regulates the volume of the audio to help overcome road noise, so the volume level adjusts to the vehicle's speed.
- **AUTOMATIC TONE CONTROL** allows the listener to choose preset bass and treble settings designed for classical, news, rock, pop, country/western and jazz stations.



SEATS



All models feature:

- Standard reclining cloth bucket seats
- Optional bucket seats with leather seating surfaces.

Other seating features:

- Camaro front bucket seats provide manual four-way seat-adjusters. A power six-way driver-seat-adjuster is standard on Z28 Convertible and optional on all other models.
- All Camaro models feature a full-folding rear seat that expands the cargo compartment to accommodate larger items.

INTERIOR COLORS

Cloth colors:

- Dark Gray
- Neutral
- Red Accent (in cloth for door trim and seat inserts only).

Leather seating surface colors:

- White
- Dark Gray
- Neutral.

**EXTERIOR /
STRUCTURAL FEATURES**

EXTERIOR FEATURES

Camaro standard exterior features:

- **BODY-COLOR DOOR HANDLES** create a more flowing exterior appearance.
- **AGGRESSIVE FRONT-END DESIGN** features composite headlamps with reflector optics for optimal nighttime visibility.
- **DUAL SPORT MIRRORS** include a left-hand remote for added convenience.



16.8 GALLON (APPROX.), NON-METALLIC FUEL TANK, designed to help increase driving distances between fill-ups and helps Camaro meet the Enhanced Evaporative Emission standard.

- **STAINLESS-STEEL EXHAUST SYSTEM** includes pipes, catalytic converter and muffler, resists corrosion and reduces long-term cost of ownership. (Z28 model features dual outlets.)
- **CORROSION PROTECTION** has been incorporated throughout the vehicle. The roof, doors, hatch and spoiler assembly are constructed from sheet-molded compound (SMC) and the fenders and fascias are made of a composite material — neither of which will ever rust. All other exterior panels are two-side galvanized steel.
- **POWER CONVERTIBLE TOP** is easily operated by releasing the front latches and pushing the convertible top switch located on the center console. The top folds down flush with the rear deck. The top also includes a full headliner with glass rear window, electric rear-window defogger and a three-piece hard tonneau cover that gives a finished appearance while the top is down.

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Camaro optional features:

- **SPORT APPEARANCE PACKAGE**, available on all models except SS, includes front fascia extension, rocker moldings, rear spoiler extension and 16" 5-spoke aluminum wheels.*
- **SS PERFORMANCE/APPEARANCE PACKAGE** features:
 - 5.7 Liter LS1 V8 engine with increased horsepower and torque
 - Forced-air induction hood
 - Dual 2 3/4" exhaust outlets
 - SS badging
 - Special 17" 5-spoke aluminum wheels
 - Goodyear Eagle F1 high performance tires
 - High Performance Ride and Handling Package
 - Unique rear spoiler.
- **TRANSPARENT REMOVABLE ROOF PANELS (T-TOPS)** are available on all Coupes. T-Tops are a lower cost alternative to convertibles for people who love open-air driving. Camaro T-Tops have a rich, dark, translucent tint for security. T-Tops include removable sunshades, security locks and locked T-Top storage in the rear cargo area.

*16" 5-spoke aluminum wheels included with Sport Appearance Package on Coupe and Convertible only.

STRUCTURAL FEATURES

All Camaro models share a body structure that includes a fully unitized steel frame (unibody), steel-reinforced composite body panels and honeycomb-constructed front and rear bumpers for added strength and durability. Additional structural features:

- **EXTENSIVE ANTI-CORROSION MEASURES** include the use of composites, two-side galvanized steel and electrodeposition primer (ELPO). Camaro makes extensive use of dent-resistant, rust-proof body panels.
 - The roof, doors, hatch and spoiler are made of sheet-molded compound (SMC), a material comprised of finely ground glass in a polyester resin.
 - Reaction Injection Molded (RIM) process — reinforced with mica — is used for front fenders and fascia.
 - Rust-resistant, two-side galvanized steel is used for the rear-quarter panels and hood.

EXTERIOR PAINT

Standard basecoat/clearcoat paint on Camaro resists fading and provides a high gloss shine for long-lasting exterior beauty. The clearcoat system is formulated to reduce the effects of acid rain and other environmental damage. Clearcoat finish is used with all colors.

PAINT COLORS

NEW Paint Colors For '99:

- Hugger Orange
- Light Pewter Metallic
- Bright Blue Metallic.

Other Colors:

- Black
- Bright Red
- Mystic Teal Metallic
- Arctic White
- Sport Gold Metallic
- Navy Blue Metallic
- Bright Green Metallic.

DESIGN AND MANUFACTURING

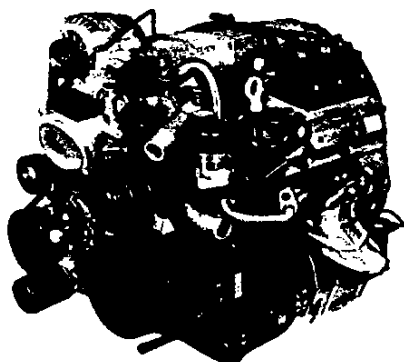
All Camaro models are manufactured at the General Motors assembly plant in Ste. Therese, Quebec, Canada. Originally constructed in 1965, the plant was completely refitted to produce the fourth-generation Camaro in 1993. Camaro benefits from this new precision tooling and a highly skilled work force. The plant uses the following assembly strategies and procedures to help assure the highest quality product possible:

- **EMPLOYEES ARE ORGANIZED INTO TEAMS**, and each department functions as a separate business unit committed to making its particular operation defect-free.



- **STREAMLINED CAMARO ENGINE DESIGNS AND PROCEDURES HELP SIMPLIFY THE MANUFACTURING PROCESS.** A team of engineers and manufacturing employees looked for ways to maximize the commonalities between the engines. Their teamwork resulted in the use of a common air conditioning compressor and air cleaner, a similar accessory drive (with shared connections and attachments) and identical main and rod bearing fits. These changes improved the engine and vehicle assembly process, as well as serviceability.
- **STATE-OF-THE-ART WATERBORNE PAINT SYSTEM** produces a bright color palette of paint that has a high level of fade-and-weather resistance.
- **PREPARATION FOR PAINTING** includes thoroughly cleaning the Camaro body with ostrich feathers to remove all dust particles. After experimenting with a number of different materials, both synthetic and organic, designers found that ostrich feathers were best suited for providing a smooth, clean surface for the paint application.

ENGINES



3800 SERIES II V6 ENGINE (L36)

A 3800 V6 SFI is standard on Camaro Coupe and Convertible models. The 3800 V6 is available with either a five-speed manual transmission or an optional four-speed electronically controlled automatic transmission. This powerful standard engine is designed to offer outstanding performance and good fuel economy.

Power ratings for the 3800 V6 engine are:

- **200 HORSEPOWER** at 5200 rpm
- **225 L.B.-FT. OF TORQUE** at 4000 rpm.

3800 V6 engine technical features:

- **NEW ELECTRONIC THROTTLE CONTROL**, new for 1999, provides precise engine responses to driver input.
- **NEW CHANGE OIL SOON INDICATOR** illuminates when it's time to change the engine oil. This system also is sensitive to driving habits and conditions. Therefore, the light may come on as early as 2,000 miles or sooner in harsh driving conditions.
- **PROVEN OVERHEAD VALVE (OHV) DESIGN** provides plenty of low-speed and mid-range torque for maneuvering in heavy traffic situations.
- **HIGH-PERFORMANCE PUSHROD VALVETRAIN** allows the 3800 engine to rev to an impressive 6000 rpm.
- **FEWER PARTS THAN AN OVERHEAD CAM ENGINE** with lightweight valves, valve springs and spring caps, contribute to increased mechanical stiffness and allow for high maximum rpm capacity and impressive horsepower.
- **BROAD TORQUE BAND FOR POWERFUL ACCELERATION** is especially useful during stop-and-go driving.
- **SEQUENTIAL FUEL INJECTION (SFI)** delivers exact amounts of fuel through injectors at each cylinder, providing optimal fuel efficiency, quick start-ups in all weather conditions and smooth acceleration (page 10).
- **ON-BOARD DIAGNOSTICS SECOND GENERATION (OBD II)** is combined with the Powertrain Control Module (PCM) to monitor fuel delivery, ignition timing and the emissions system, detecting deterioration or malfunction.
- **DUAL ELECTRONIC SPARK CONTROL (ESC)** sensors detect "knock" in all cylinders and drive the PCM coolant and instrument panel gauges for greater precision.
- **SYMMETRICAL PORTS AND COMBUSTION CHAMBERS** provide uniform combustion in all cylinders for smooth engine performance.
- **GLASS-REINFORCED NYLON COMPOSITE INTAKE MANIFOLD AND AIR INDUCTION SYSTEM** provides a linear acceleration curve for even performance throughout the engine rpm range.

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- **DIRECT ACCESSORY MOUNTING** of the power steering pump, alternator bracket and other brackets and tensioners help keep engine noise and vibration to a minimum.
- **TUNED-FOR-PERFORMANCE THROTTLE BODY** features a large inlet and progressive cam and cable linkages for enhanced engine airflow and performance.
- **LAMINATED OIL PAN** is designed with a special gasket, integrated baffle and rear crankshaft seal carrier to reduce noise and reduce the chance of oil leaks.
- **FUEL SYSTEM** helps keep fuel fumes in the tank, not in the atmosphere, with the help of the Enhanced Evaporative Emissions System.
- **QUIET EXHAUST SYSTEM**, thanks to high silicon molybdenum cast nodular iron manifolds, insulated cross-over pipe and dual wall take-down pipe.
- **PLATINUM-TIP SPARK PLUGS** (first scheduled maintenance at up to 100,000 miles*) provide dependable service and performance.
- **LONG-LIFE ENGINE COOLANT** (first scheduled replacement at up to five years or 150,000 miles*) helps make maintenance easy.

*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.

5.7 LITER V8 SFI ENGINE LS1

Camaro features the acclaimed technology of the 5.7 LS1 Liter V8 engine — named among the "Best engines of 1998," by *Ward's Auto World*. Standard on Camaro Z28 Coupe and Z28 Convertible, the LS1 takes Camaro to an exciting level of power and performance.

One of the major engineering goals in adapting the LS1 engine for use in Camaro was to keep many of the performance characteristics of the Corvette application. However, it was necessary to make some modifications to the engine in response to take advantage of the space under the Camaro hood.

Power ratings for the LS1 V8 engine are:

- **305 HORSEPOWER** at 5200 rpm
- **335 LB.-FT. OF TORQUE** at 4000 rpm.

LS1 V8 engine technical features:

- **ALUMINUM ENGINE BLOCK** is both strong and lightweight.
- **"DEEP-SKIRT" ENGINE BLOCK** extends down past the bearing caps, where two bolts tie the bearing caps directly to the engine block from the side. By helping to improve structural integrity, this design helps give the engine outstanding durability and reduces noise and vibration.
- **REPLICATED CYLINDER HEAD PORTS** optimize airflow in the engine, contributing to overall performance.
- **COMPOSITE INTAKE MANIFOLD** helps increase airflow and is lighter-weight than aluminum for enhanced engine performance.
- **LINEAR THROTTLE CAMSHAFT** delivers excellent driveability.
- **LIGHTWEIGHT PISTONS AND CONNECTING RODS** allow engineers to tune the engine for high rpm, achieving excellent power from the 5.7 Liter displacement.
- **IN-LINE VALVES, ROCKER ARMS AND PUSHRODS** assist in reducing stress and friction. This also boosts overall fuel economy and durability.
- **SEQUENTIAL FUEL INJECTION** aids combustion efficiency by optimizing fuel distribution.
- **INDIVIDUAL IGNITION COILS** for each cylinder provide high energy ignition for added combustion, low emissions and enhanced durability.
- **AIR CONDITIONING COMPRESSOR IS MOUNTED ON THE LOWER RIGHT SIDE OF THE ENGINE** for efficient packaging and noise reduction.
- **LOW, LEFT SIDE-MOUNTED ALTERNATOR** reduces noise and improves belt life.
- **SPECIFIC CONTOUR DIE-CAST ALUMINUM OIL PAN** contributes to the structural rigidity of the engine and improved sealing.
- **OIL-LEVEL SENSOR** alerts the driver to a low engine-oil condition when as little as one additional quart is needed, instead of when the crankcase is virtually dry and engine damage is imminent.
- **POWERTRAIN CONTROL MODULE (PCM)** is a sophisticated computer that controls the operation and efficiency of both the engine and transmission for optimal performance.
- **FUEL SYSTEM** helps keep fuel fumes in the tank, rather than the atmosphere, with the help of the Enhanced Evaporative Emissions System.



- **FUEL LINE SYSTEM** prevents hot fuel from being returned to the fuel tank. Cooler fuel in the tank helps to improve hydrocarbon emissions.
- **PLATINUM-TIP SPARK PLUGS** (first scheduled maintenance at up to 100,000 miles*) provide dependable service and performance.
- **EXTENDED-LIFE ENGINE COOLANT** increases maintenance intervals with its first scheduled replacement at up to five years or 150,000 miles.*

*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.

TRANSMISSIONS

FIVE-SPEED MANUAL TRANSMISSION

A five-speed manual transmission is standard on Camaro Coupe and Convertible equipped with the 3800 V6 engine.

Five-speed manual transmission features:

- **WIDE RANGE OF GEAR RATIOS** (from 3.75:1 in first gear to 0.72:1 in fifth) allows the driver to select the best gear for any driving situation. The fifth gear overdrive reduces engine rpm at cruising speed, thereby helping to increase fuel economy and reduce wear.
- **HEAVY-DUTY HYDRAULIC TRANSMISSION MOUNT, A TWO-PIECE DRIVESHAFT, A TUNED TAILSHAFT DAMPER AND A STRUCTURAL BELLHOUSING WITH ADDITIONAL BRACING** help reduce noise and vibration.
- **MANUAL CLUTCH SYSTEM** with concentric slave cylinder and over-center spring design delivers a consistent level of feedback throughout the pedal's range of motion and gives better leverage at the pedal than previous systems, improving clutch pedal effort.

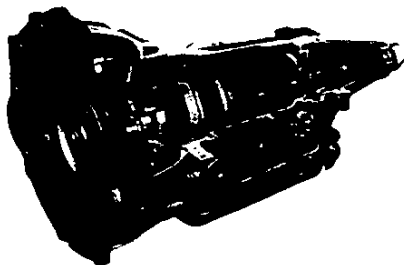
SIX-SPEED MANUAL TRANSMISSION

A six-speed manual transmission is optional on Camaro Z28 models equipped with the LS1 V8 engine.

Six-speed manual transmission features include:

- **2.66:1 RATIO IN FIRST GEAR** provides high torque multiplication for quick initial acceleration.
- **TWO OVERDRIVE GEARS** (0.74:1 in fifth gear and 0.50:1 in sixth gear) produce quiet, economical highway cruising.
- **3.42:1 REAR-AXLE RATIO** offers a balance of performance and fuel economy.
- **MANUAL CLUTCH SYSTEM** with concentric slave cylinder and over-center spring design delivers a consistent level of feedback throughout the pedal's range of motion and gives better leverage at the pedal than previous systems, improving clutch pedal effort.
- **COMPUTER-AIDED GEAR SELECTION (CAGS)** system (sometimes called "skip shift") helps optimize fuel economy during normal driving conditions by directing the shifter from first gear to fourth gear under light acceleration from a dead stop. Rapid acceleration automatically cancels the CAGS function.
- **SKIP SHIFT TELLTALE LAMP** on the instrument panel illuminates when the transmission is in the CAGS mode.
- **SINGLE-RAIL INTERNAL SHIFT LINKAGE**, designed for impressive shift feel and durability.
- **FULLY SYNCHRONIZED REVERSE GEAR** for shifting ease.
- **NEEDLE BEARINGS ON ALL MAINSHAFT GEARS** deliver outstanding shift performance, reduced friction and durability.
- **THREE HEAVY-DUTY TAPERED ROLLING BEARINGS** on the countershaft and two on the mainshaft provide gear train support, durability and low noise.
- **COUNTERSHAFT-MOUNTED FIFTH-SIXTH GEAR SYNCHRONIZERS** reduce noise and shift effort.
- **INTERNAL OIL PASSAGES**, longitudinally drilled through the mainshaft and countershaft, continually lubricate gear train areas, for impressive longevity.

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4L60-E FOUR-SPEED ELECTRONIC AUTOMATIC TRANSMISSION

The Hydra-matic 4L60-E four-speed electronically controlled automatic overdrive transmission is standard on Z28 Coupe and Convertible and optional on Coupe and Convertible. The 4L60-E's "intelligent" electronic controls work with the PCM, allowing the transmission to match the engine's performance.

4L60-E includes the following features and benefits:

- **SIMPLE ON-OFF SOLENOID** maintains precise shift quality.
- **298MM TORQUE CONVERTER** features specially brazed turbine pump blades designed to reduce fluid leakage, improve efficiency and enhance durability.
- **ABUSE TORQUE MANAGEMENT SYSTEM** protects the powertrain by reducing the amount of energy and heat generated by frequent severe shifts when a vehicle stuck in the snow or mud is "rocked."
- **3.06:1 FIRST-GEAR RATIO** provides high torque multiplication for initial acceleration.
- **OVERDRIVE 0.70:1 FOURTH GEAR** reduces engine rpm at cruising speed, thereby reducing wear.
- **FOUR SOLENOIDS COMMUNICATE WITH THE POWERTRAIN CONTROL MODULE (PCM)** to control shift points and shift smoothness:
 - PCM acts as an interface between the engine and transmission, to provide the feel of a virtually "seamless" powertrain.
 - PCM monitors engine and transmission performance several times per second to provide smooth gear changes and proper shift points.

- **REFINED TORQUE CONVERTER CLUTCH CONTROLS** provide nearly smooth clutch application and release.
- **ELECTRONIC CONTROLS** provide the security of "fail-safe" operation; if the controls malfunction for any reason, the transmission will automatically default to operable gear ratios, giving the driver an opportunity to reach a safe location.
- **SECOND-GEAR-START FEATURE** provides an extra measure of control in slippery driving conditions. By engaging the second gear start button (on V6-equipped models only) the driver can reduce torque to the drive wheels, increasing control during initial acceleration on most slippery surfaces.
- **AUTOMATIC TRANSMISSION FLUID** will not need to be replaced for up to 50,000 miles* under normal operating conditions.
- **OBD II-COMPLIANT**, the PCM continuously monitors operating conditions, such as altitude and temperature, to determine the optimal shift points and provide a seamless link between the vehicle and engine. The PCM collects information about the operating condition of the 4L60-E and alerts the driver with a "Service Engine Soon" light if there is a deterioration that could cause the vehicle to exceed acceptable emissions levels.
- **EXTERNAL SEALS** use tight-fitting gaskets to prevent potential leakage.
- **TWO-PIECE CASE DESIGN** features a unique 360-degree bellhousing that completely encases the torque converter assembly for increased stiffness and low noise and vibration.

*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.



ACCELERATION SLIP REGULATION (ASR) (TRACTION CONTROL)

The optional ASR system on Camaro gives the driver greater control in various road conditions.

NEW ASR for Camaro Coupe and Convertible:

- **UTILIZES THE ELECTRONIC THROTTLE CONTROL AND POWERTRAIN CONTROL MODULE (PCM)** to reduce engine torque. When wheel spin is detected, the PCM will reduce engine spark and the Electronic Throttle Control will reduce the engine throttle position until favorable traction is restored.
- **AUTOMATICALLY ENGAGES WHEN THE VEHICLE IS STARTED**, but can be disabled manually if additional wheel slip is desired.

ASR for Camaro Z28 models:

- **UTILIZES THE FOUR-WHEEL ANTILOCK BRAKE SYSTEM AND THE POWERTRAIN CONTROL MODULE (PCM)** to help maintain traction for improved acceleration and enhanced vehicle stability in most slippery conditions (i.e., snow, ice or wet pavement).
- **AUTOMATICALLY ENGAGES WHEN THE VEHICLE IS STARTED**, but can be disabled manually if additional wheel slip is desired.
- **CALIBRATED TO ALLOW SOME WHEEL SLIP** during acceleration if it is beneficial for the driving conditions.
- **FEATURES AN INDIVIDUAL REAR BRAKE CONTROL** that makes it possible to use the available traction on a split coefficient. For example, traction would be optimized even though one rear wheel is on slick pavement and the other rear wheel is on dry pavement.

SUSPENSION

Camaro has a Short/Long Arm (SLA) front suspension which is designed to provide a smooth, controlled ride. This system features:

- **UPPER CONTROL ARMS** are mounted high in the body structure to reduce loads.
- **DE CARBON GAS CHARGED MONOTUBE SHOCK ABSORBERS** feature a structure that is designed to enhance heat dissipation and fade-resistance, and provide a large working area for a given outside diameter, compared to conventional shock absorbers. The result is a smooth ride at high performance levels. Other shock absorber features:
 - **PERMANENT PRESSURIZATION** is designed to eliminate the formation of vacuum pockets in the fluid which, when they collapse, can damage the internal metal baffles.
 - **SEPARATION OF THE OIL AND GAS** to prevent aeration.
 - **UNIQUE MONODISC VALVE DESIGN** allows for precise valve settings and near-instantaneous reaction times.
- **FRONT AND REAR SPRING RATES** on Camaro Coupe and Convertible provide an optimum balance of ride and handling.
- **FRONT AND REAR SPRING RATES** on Z28 models provide smooth, stable performance. They are stiffer than the springs in (base) Coupe and Convertible.
- **28MM HOLLOW FRONT STABILIZER BAR** on Camaro Coupe and Convertible and 30mm hollow front stabilizer bar on Camaro Z28 models help reduce body lean on curves.
- **15MM SOLID REAR STABILIZER BAR** on Camaro Coupe and Convertible and 19mm rear stabilizer bar on Camaro Z28 helps reduce body roll.
- **LIGHTWEIGHT STAMPED-STEEL LOWER CONTROL ARMS** incorporate several innovative design features. The front bushing and lower shock attachment are directly in line with the wheel center. This layout provides a direct path through the control arm for lateral cornering loads and permits the use of a harder bushing to help improve handling — without adversely affecting ride quality.

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- **SALISBURY REAR AXLE DESIGN**, featuring two trailing arms attached to the rear axle, a track bar and a torque arm. Like the front suspension, the rear shock absorbers are hydraulic, high performance, gas-pressurized de Carbon monotubes.

PERFORMANCE HANDLING PACKAGE (RPO Y87)

Performance Handling Package (RPO Y87) is optional on Camaro Coupe and Convertible models. This Package includes:

- **NEW ZEXEL TORSEN LIMITED SLIP DIFFERENTIAL** (3.42:1 rear axle ratio with optional automatic transmission, 3.23:1 ratio with five-speed manual transmission).
- **DUAL EXHAUST OUTLETS** provide a sporty appearance.
- **SPORT STEERING RATIO** (14.4:1) gives responsive steering at high performance levels.
- **P235/55R-16 TIRES** produce road-gripping performance (required with RPO Y87).
- **16" ALUMINUM WHEELS** enhance appearance (required with RPO Y87).
- **OPTIONAL 16" CHROME ALUMINUM WHEELS** deliver added appeal.

PERFORMANCE SUSPENSION PACKAGE (RPO 1LE)

Camaro Z28 Coupe offers the optional Performance Suspension Package (RPO 1LE) for even greater handling characteristics than the standard Z28 models. This Package was engineered specifically for professional racing, and is intended for serious performance enthusiasts only.

Designed to provide the driver with enhanced handling characteristics needed for autocross or other sanctioned competitive-speed performance, the 1LE option includes the following components:

- **KONI DOUBLE ADJUSTABLE SHOCK ABSORBERS**, front and rear
- **LARGER DIAMETER (32MM) FRONT STABILIZER BAR** with higher-rate bushings

- **HIGHER RATE FRONT UPPER AND LOWER CONTROL ARM BUSHINGS**
- **STIFFER TRANSMISSION MOUNT** on manual transmission
- **STIFFER PANHARD BAR BUSHINGS**
- **HIGHER RATE FRONT SPRINGS**
- **STIFFER VARIABLE-RATE REAR SPRINGS**
- **REQUIRES 3.23 GEAR RATIO** with automatic transmission.

STEERING

Power rack-and-pinion steering provides a feeling of precise control under demanding driving conditions. The steering ratio and hydraulic valve settings are individually tailored to standard Camaro and Z28 models.

- **16.9:1 STEERING ON CAMARO COUPE AND CONVERTIBLE** requires 2.67 turns stop-to-stop.
- **14.4:1 STEERING RATIO ON Z28 MODELS AND CAMARO MODELS EQUIPPED WITH THE Y87 PERFORMANCE HANDLING PACKAGE** requires 2.28 turns stop-to-stop.
- **POWER-STEERING COOLER** on Camaro Z28 models, equipped with optional High Performance Packages B4C, WU8 and 1LE, ensures a cool-running power-steering system during harsh steering conditions. The cooler is optional on Z28 models.
- **UNIQUE STEERING GEAR** for Camaro Z28 improves overall steering feel.
- **INTERMEDIATE STEERING SHAFT** on Camaro Z28 improves overall steering feel and provides more precise steering.



BRAKES

The standard four-wheel disc antilock brakes on Camaro dissipate heat more effectively than disc/drum combinations to help fight brake fade. Other brake features:

- **LARGE DIAMETER FRONT AND REAR ROTORS** provide optimum surface cooling and are vented for improved performance over a period of time during aggressive use.
- **NON-ASBESTOS ORGANIC BRAKE LININGS** provide quiet performance and enhanced durability.
- **PARKING BRAKE SYSTEM** features a durable design for excellent reliability and easy operation.
- **ABS MODULE AND CALIBRATION** employ an electronic brake force distribution in place of a hydraulic proportioning valve, allowing for full utilization of the rear brakes and shorter stopping distances.

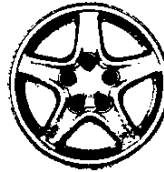
Some things to keep in mind about antilock brakes:

- ABS helps the driver maintain steering control during hard braking situations and reduces wheel lockup on most slippery surfaces. All the driver has to do is apply firm pressure to the brake pedal and steer.
- ABS can adjust brake pressure several times per second, a rate even most skilled professional drivers cannot attain.
- The system automatically adjusts the brake-line pressure at the wheels. Drivers should not "pump" the brakes in emergency braking situations. Rather, they should maintain firm constant pressure on the brake pedal, allowing the system to work effectively.
- Plated brake calipers and corrosion-protected rotors enhance performance and appearance.

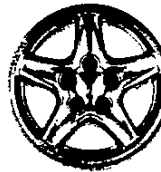
WHEELS AND TIRES



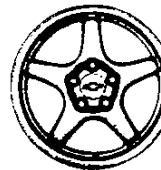
- 16" steel with bolt-on wheel covers and P215/55R-16 touring tires.



- (RPO N96) Camaro 16" cast-aluminum wheel and P235/55R-16 touring tires¹ are standard on Camaro Z28 (required with available Sport Appearance Package), available on Camaro Coupe and Convertible. P245/50R-16 performance tires¹ are optional.



- (RPO N98) Camaro 16" chrome-aluminum wheel, optional on all models.* P235/55R-16 touring tires are standard and P245/50ZR-16 tires are optional.¹



- (RPO WU8) Camaro SS 17" cast-aluminum wheel and P275/40ZR-17 Goodyear Eagle F1 performance tires (included with optional SS Performance/ Appearance Package on Z28 models).

^{*}Not available with (WU8) SS Performance/ Appearance Package.
¹Vehicle speed may be limited by speed rating of tires.

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HISTORY (BY MODEL YEAR)

Camaro was first introduced on September 26, 1966 as a 1967 model.

- 1967 — 350 cid small block V8 introduced; Z28 debuts; GM-developed energy-absorbing steering wheel; White SS Convertible named official Indy 500 Pace Car.
- 1969 — New sheet metal; improved theft-deterrent steering column; four-wheel disc brakes made available; RS/SS Convertible named Indy 500 Pace Car.
- 1970 — All-new second-generation Camaro introduced; new 360 hp, LT1 350 cid V8 engine standard on Z28; steel side door beams added.
- 1972 — Three-point safety belts added.
- 1974 — New front and rear styling; stronger, impact-absorbing, aluminum-faced bumpers.
- 1975 — Z28 model discontinued; GM-developed catalytic converter reduced emissions.
- 1977 — Z28 returned mid-year.
- 1978 — New front and rear styling; T-Tops a new option.
- 1979 — Berlinetta introduced.
- 1982 — All-new third-generation Camaro introduced; Z28 chosen to pace Indy 500.
- 1985 — IROC-Z Package introduced; exterior appearance freshened.
- 1987 — Convertible body style returns.
- 1989 — PASS-Key theft-deterrent system is standard.
- 1990 — Driver air bag is standard; instrument panel updated; final year for IROC-Z.
- 1991 — Exterior styling freshening.
- 1992 — Camaro celebrates 25 years; optional Heritage Appearance Package offered.
- 1993 — All-new, fourth-generation Camaro introduced; new 3.4 Liter V6 engine standard on Camaro and 5.7 Liter engine, 275 hp, LT1 V8 standard on Z28; dual air bags and antilock brakes introduced; Indy 500 Pace Car.

- 1994 — New Camaro Convertible; 5.7 Liter SFI engine and 4L60E electronically controlled automatic transmission introduced.
- 1995 — New all-season performance tires available for Z28; introduction of Acceleration Slip Regulation; 3800 V6 engine available on California vehicles only.
- 1996 — New theft-alarm system; 3800 V6 engine made standard, second-gear start for 3800 V6 with automatic transmission.
- 1997 — 30th Anniversary Package; worldwide tri-color taillamps; last year for LT1 V8 engine.
- 1998 — Camaro received a major refreshing with a new front fascia, composite reflector headlamps with Automatic Exterior Lamp Control, new hood, new fenders and body color door handles. Chassis improvements included a new four-wheel disc brake system and a new ABS system.

CHEVROLET INTERNATIONAL

The Camaro is sold in other countries besides the U.S. In many cases, changes are made in the vehicle's specifications to meet the unique demands of those markets and/or comply with local regulations. Additionally, these products sometimes fill a very different role in non-U.S. markets. If you need to know what the differences are in specifications or marketing strategies, in any given country, please look in the Chevrolet International section of this publication to identify the right GM person to contact for that kind of information. Chevrolet Communications (U.S.) does not have those details.



AFFINITY RELATIONSHIPS

Because Chevrolet offers the most comprehensive lineup of cars and trucks of any automotive manufacturer, it goes without saying that there is a product for virtually everyone, whatever their needs. From the bass fisherman who needs a reliable truck to tow his fishing boat, to the soccer mom who needs a dependable van to get the team to the fields, Chevrolet can offer a vehicle to fit anyone's lifestyle.

With this in mind, Chevrolet created what has come to be known as "Affinity Marketing." Through it, Chevrolet has developed relationships with over eighty lifestyle organizations, sporting groups and spokespeople that represent the image of Chevrolet cars, trucks and the people who drive them. These relationships help Chevrolet market its products and services while offering marketing support to groups like the United States Figure Skating Association and Ducks Unlimited. Affinity Marketing also builds relationships with individuals. These people reflect the Chevrolet vision of excellence, like 1998 Olympic Gold Medalist Tara Lipinski and country music star George Strait.

Camaro has affinity relationships with the National Hotrod Association (NHRA).

For more information, call 1-800-CHEVY-MI.

GENUINE CUSTOMER CARE

Chevrolet owners are covered by Genuine Customer Care, a comprehensive owner protection plan that includes the following:

NEW VEHICLE LIMITED WARRANTY

This warranty is for GM vehicles in the United States. Owners should see their Chevrolet dealer for complete terms and conditions of this New Vehicle Limited Warranty. Items covered for 3 years or 36,000 miles* include:

- The complete vehicle
- Tires
- Towing to the nearest Chevrolet dealership
- Sheet-metal coverage
 - Corrosion coverage
 - Rust-through coverage¹
- Repairs made to correct any manufacturer vehicle defect
- No charge for most warranty repairs.

COURTESY TRANSPORTATION

Retail customers who purchase or lease a 1999 Chevrolet car or truck are eligible for Courtesy Transportation when their vehicles are left at a participating dealership for repairs covered under the 3-year/36,000-mile* New Vehicle Limited Warranty. Courtesy Transportation, at participating dealerships only, may include shuttle service, expense reimbursement or, if the repairs require leaving the vehicle overnight, a vehicle rental. Actual services may vary at the election of the participating dealer. Owners should see their dealer for details.

*Whichever comes first. For manufacturer defects. ¹6 years or 100,000 miles, whichever comes first.

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ROADSIDE ASSISTANCE*

Roadside Assistance service is provided through a toll-free 800 number, 24 hours a day, 365 days a year. Roadside Assistance advisors can assist with minor mechanical concerns over the phone or coordinate a variety of services through professional service providers.

Basic Care provides:

- Toll-free access — 1-800-CHEV-USA
- Free towing to closest dealer for warranty repairs
- Basic over-the-phone technical advice
- Dealer services at reasonable costs (i.e., wrecker services, locksmith/key service, glass repair, etc.).

Courtesy Care applies for 3 years/36,000 miles and provides:

- Basic Care services
- Free locksmith/key service (when keys are lost on the road or locked inside)
- Free flat tire change service
- Free fuel delivery
- Free non-warranty towing
- Free jump start.

*Roadside Assistance membership is free. Some services may incur costs. Courtesy Care is available to retail, retail lease and corporate lease customers operating 1994 and newer Chevrolet vehicles for a period of 3 years/36,000 miles. All Courtesy Care services and associated costs must be prearranged by Chevrolet Roadside Assistance or dealer service management and must be driver-initiated. Basic Care and Courtesy Care are not part of or included in the coverage provided by the New Vehicle Limited Warranty. Chevrolet reserves the right to modify or discontinue Basic Care and Courtesy Care at any time. Owners should see their dealer for complete details of the Chevrolet Roadside Assistance Program.

Important — a word about this document: We have tried to make this document as comprehensive and factual as possible. We reserve the right, however, to make changes at any time, without notice, in colors, materials, equipment, specifications, models and availability. Some information may have been updated since the time of printing in June, 1998.

A note about Next Generation air bags: Always use safety belts and proper child restraints, even with Next Generation air bags. See owner's manual for more safety information.

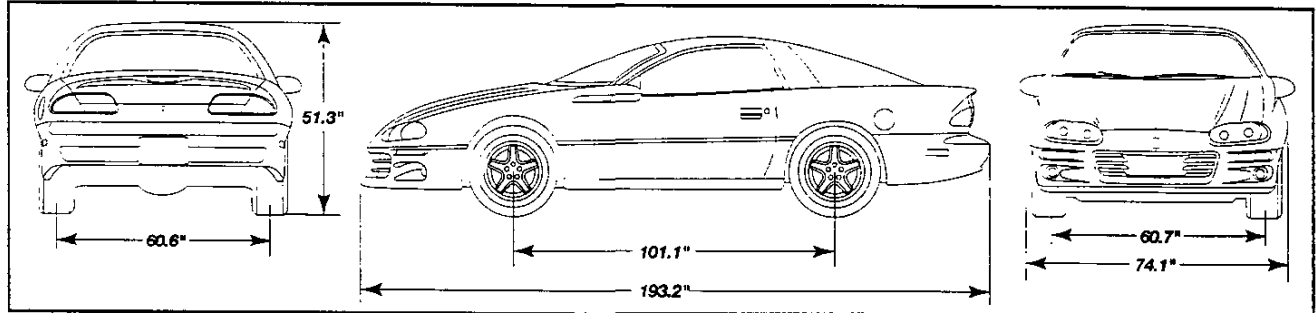
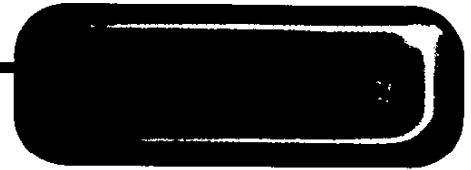
1999 CAMARO FEATURE AVAILABILITY



	Coupe	Convertible	Z28 Coupe	Z28 Convertible
INTERIOR				
Next Generation Air Bags ¹ - Driver and Front-Passenger	S	S	S	S
Air Conditioning - with CFC-Free Refrigerant	S	S	S	S
Door Locks - Power	O	O	O	S
Defogger - Electric Rear-Window	O	S	O	S
Gauge Package with Tachometer and Digital Odometer	S	S	S	S
Mirror - Day/Night with Dual Reading Lamps	S	S	S	S
Scotchgard™ Protection	S	S	S	S
Seats - Cloth Front Bucket, Reclining	S	S	S	S
- Full-Folding Rear	S	S	S	S
- Leather Seating Surfaces ²	O	O	O	O
Steering Column - Tilt-Wheel™	S	S	S	S
Stereo - AM/FM with Cassette Player and Extended Range Speakers	S	S	NA	NA
- AM/FM with Cassette Player and Monsoon 200-Watt Sound System	O	O	S	S
- AM/FM with CD Player and Monsoon 200-Watt Sound System	O	O	O	O
- 12-Disc Remote CD Changer ³	O	O	O	O
Theft-Deterrent System - PASS-Key II	S	S	S	S
Windows - Power with Driver's Express-Down Feature	O	O	O	S
EXTERIOR				
Daytime Running Lamps - with Automatic Exterior Lamp Control	S	S	S	S
Foglamps	O	O	O	S
Mirrors - Outside, Body-Color, LH Remote/RH Manual	S	S	NA	NA
- Outside, Black, LH Remote/RH Manual	NA	NA	S	NA
- Outside, Twin Sport, Remote Electric	O	O	O	S
Sport Appearance Package ⁴	O	O	O	O
Tires - P215/60R-16 Touring	S	S	NA	NA
- P235/55R-16 Touring ⁵	O	O	S	S
- P245/50ZR-16 Performance ⁶	NA	NA	O	O
- P245/50ZR-16 All-Season Performance	NA	NA	O	O
Wheels - 16" Steel w/Bolt-On Wheel Covers	S	S	NA	NA
- 16" Aluminum	O ⁷	O ⁷	S	S
- 16" Chrome Aluminum	O ⁷	O ⁷	O	O
FUNCTIONAL				
Acceleration Slip Regulation (ASR)	O	O	O	O
Brakes - Power, Front and Rear Disc with ABS	S	S	S	S
Engine - 3800 Series II V6 SFI	S	S	NA	NA
- 5.7L LS1 V8 SFI	NA	NA	S	S
Limited Slip Rear Axle with Torsen® Differential	O ⁷	O ⁷	S	S
Performance Handling Package	O	O	NA	NA
SS Performance/Appearance Package	NA	NA	O	O
Steering - Power Rack-and-Pinion	S	S	S	S
Suspension - Firm Ride and Handling	S	S	NA	NA
- Performance Handling	NA	NA	S	S
Transmission - 5-Speed Manual	S	S	NA	NA
- 6-Speed Manual	NA	NA	O	O
- 4-Speed Electronically Controlled Automatic	O ⁸	O ⁸	S	S

S — Standard. O — Optional (Some options may be available only as part of a Preferred Equipment Group.) NA — Not available. 1 Always use safety belts and proper child restraints, even with Next Generation air bags. See the owner's manual for more safety information. 2 Scotchgard™ Protection on floor covering only. 3 Requires AM/FM stereo with cassette player (UL0). 4 Not available with (WU8) SS Package on Z28 models. 5 Vehicle speed may be limited by speed rating of tires. 6 Requires (OCB) P235/55R-16 B/W tires. 7 Included with (Y87) Performance Handling Package and Traction Control (NW9). 8 Includes second-gear-start switch.

1999 CAMARO SPECIFICATIONS



MODEL AVAILABILITY

Camaro Coupe, Camaro Convertible, Camaro Z28 Coupe and Z28 Convertible

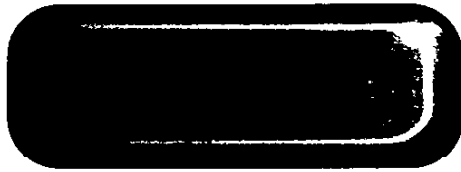
EPA vehicle class	Subcompact
Assembly	Ste. Therese, Quebec, Canada

DIMENSIONS & CAPACITIES (inches/millimeters, unless otherwise noted)

	Coupe — Convertible	
Exterior Dimensions		
Wheelbase	101.1/2567.9	
Length (overall)	193.2/4907.3	
Width (overall)	74.1/1882.1	
Height (overall)	51.3/1303.0-52.0/1320.8	
Tread — front	60.7/1541.8	
Tread — rear	60.6/1539.2	
Interior Front Dimensions		
Headroom	37.2/944.9-38.0/965.2	
Legroom	43.0/1092.2	
Shoulder room	57.4/1458	
Hip room	52.8/1341.1	
Interior Rear Dimensions		
Headroom	35.3/896.6-39.0/990.6	
Legroom	26.8/680.7	
Shoulder room	55.8/1417.3-43.5/1104.9	
Hip room	44.4/1127.8-43.7/1110.0	
Capacities		
Passenger capacity	4	
Passenger volume (cu. ft./liters)	81.9/2325.4-80.6/2288.5	
Cargo volume (cu. ft./liters)	12.9/366.3-7.6/215.8	
Fuel tank capacity (gal./liters.— approx.)	16.8/63.6	
EPA interior index (cu. ft./liters)	94.8/2691.6-88.2/2504.2	
Curb weight (lbs./kg, est.)	Coupe 3306/1500(3439/1560 Z28) — Convertible 3500/1588 (3574/1622 Z28)	
Engine oil (quarts/liters)	4.0/3.8 (3800 V6) 6.0/5.7 (5.7 Liter LS1 V8)	
Engine coolant (quarts/liters)	12.4/11.7 (3800 V6) 13.58/12.85 (5.7 Liter LS1 V8)	

STEERING

Type	Power rack-and-pinion
Ratio (overall)	16.9:1 (14.4:1 Z28 & Y87 Performance Handling Package on Camaro Coupe models)
Turns stop-to-stop	2.67 (2.28 Z28 & Y87 Performance Handling Package on Camaro Coupe models)
Turning diameter curb-to-curb (ft./m)	40.8/12.4 (40.1/12.2 Z28)
Turning diameter wall-to-wall (ft./m)	42.6/13.0 (41.1/12.5 Z28)



1999 CAMARO SPECIFICATIONS



BRAKES

	Camaro and Camaro Z28	
Type	4-wheel ABS, power front/rear vented disc	
	U. S. STANDARD	METRIC
Gross lining, front/rear	37.8/17.2 sq. in.	243.9/111.2 sq. cm.
Effective area, front/rear	40.7/17.2 sq. in.	262.4/111.2 sq. cm.
Disc rotor outer working diameter, front/rear	11.8/11.85 in.	298.6/301.0mm
Disc rotor thickness, front/rear	1.27/1.02 in.	32.2/26.0mm
Total swept area, front/rear	238.6/169.0 sq. in.	1539.0/1094.0 sq. cm.

ENGINES

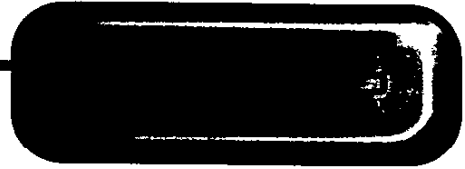
	L36	LS1
Type	3800 V6 SFI	5.7L V8 SFI
Block	Cast-iron	Cast-aluminum
Cylinder head	Cast-iron	Cast-aluminum
Hydraulic lifters	Yes/roller	Yes/roller
Bore & Stroke (in.)	3.80 x 3.40	3.90 x 3.62
(mm)	96.5 x 86.36	99.0 x 92.0
Cam drive	Chain	Chain
Redline (rpm)	6000	6000
Displacement (liters/CID)	3.8/231	5.7/346
Compression ratio	9.4:1	10.1:1
Fuel induction	SFI	SFI
Horsepower/Kw @ engine RPM	200 @ 5200/149 Kw @ 5200	305 @ 5200/228 Kw @ 5200 320 @ 5200/ 239 Kw @ 5200 (SS)
Torque/N-m (lb.-ft.)	225 @ 4000/305 N-m @ 4000	335 @ 4000/454 N-m @ 4000
Exhaust system	Stainless-steel	Stainless-steel
Tailpipe(s)	Single (Dual w/Y87)	Dual
Ignition system	Direct ignition	Coil near plug
Delcotron alternator rating (amps)	105	102
Battery (SAE capacity rating, cca)	690	525
Recommended fuel (unleaded)	87 octane	91 octane (87 acceptable)

TRANSMISSIONS

Models	Std. Camaro	Std. Camaro Z28	Opt. Camaro and Camaro Z28
Transmission	5-speed manual	6-speed manual	4-speed elect. automatic
Layout	RWD longitudinal	RWD longitudinal	RWD longitudinal
Gear ratios:			
1st	3.75	2.66	3.06
2nd	2.19	1.78	1.63
3rd	1.41	1.30	1.00
4th	1.00	1.00	0.70
5th	0.72	0.74	-
6th	-	0.50	-
Reverse	3.53	2.90	2.29
Final drive ratios	3.23	3.42	3.08 (2.73 Z28)*

*3.42 with optional Performance Handling Package (Y87) for Camaro. 3.23 on Z28 with optional Performance Axle (GU5).

1999 CAMARO SPECIFICATIONS



CHASSIS

Chassis

Structure/frame	Unitized/full integral body frame
Body material	Steel and reinforced plastic
Suspension — Front	
Type	Independent with coil spring, SLA (w/coil over shock absorber) monotube, gas-charged de Carbon shock absorbers
Stabilizer bar design/diameter (mm)	Link/28 (30 with Z28, and 32 with 1LE Performance Package)
Suspension — Rear	
Type	Salisbury axle with torque arm, trailing arm, track bar, coil springs, monotube, gas-charged de Carbon shock absorbers
Stabilizer bar design/diameter (mm)	Link/19

MILEAGE/PERFORMANCE*

Powertrain	3800 V6 SFI w/5-Spd. Man.		3800 V6 SFI w/4-Spd. Elec. Auto.		5.7L V8 LS1 SFI w/6-Spd. Man.		5.7L V8 LS1 SFI w/4-Spd. Elec. Auto.	
Mileage:	MPG	liters/100km	MPG	liters/100km	MPG	liters/100km	MPG	liters/100km
City	19	12.4	19	12.4	19	12.4	17	13.8
Highway	30	7.8	29	8.1	28	8.4	24	9.8
Est. Cruising Range	mi.	km	mi.	km	mi.	km	mi.	km
City	319	513	319	513	319	513	286	460
Highway	504	811	487	784	470	756	403	648

*Based on 1999 GM Engineering estimates. 1999 EPA estimates not available at time of printing.

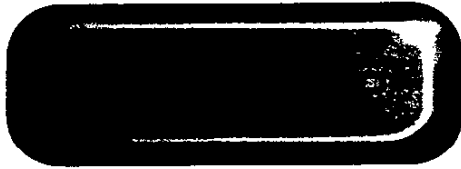
TRAILERING INFORMATION

Trailer classification	Light
Gross trailer weight (lbs./kg, up to)	1000/454
Max tongue load (lbs./kg)	100/46

WHEELS & TIRES

Model	Camaro	Camaro Z28	Camaro Z28 with SS Package
Wheel type/size	Steel 16" x 8"	Cast-aluminum 16" x 8"	Cast-aluminum 17" x 9"
Tire type	Steel-belted radial Touring	Steel-belted radial Touring	Steel-belted radial Performance
Tire size	P215/60R-16	P235/55R-16	P275/40ZR-17
Spare size	Compact	Compact	Compact

All specifications are preliminary and subject to change. Chevrolet Motor Division, June 1998.



1999 CAMARO POLICE SPECIFICATIONS



GENERAL

Model	2 Door
Drive	2 Wheel Rear

EXTERIOR

Wheelbase	101.1
Overall Length	193.2
Overall Width	74.1
Overall Height	51.3
Tread Front	60.7
Tread Rear	60.6

FRONT COMPARTMENT

Head Room	37.2
Shoulder Room	57.4
Hip Room	52.8
Leg Room (Maximum)	43.0

REAR COMPARTMENT

Head Room	35.3
Shoulder Room	55.8
Hip Room	44.4
Leg Room (Minimum)	26.8

LUGGAGE COMPARTMENT CAPACITY

Cargo Volume (seat down)	32.8
Cargo Volume Behind 2nd Seat (seat up)	12.9

FUEL TANK CAPACITY

(gal. approx.)	16.8
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EPA FUEL ECONOMY RATINGS[†] City/Highway

5.7L Engine (6-speed)	19/28
5.7L Engine (automatic)	17/24

[†]1999 GM engineering estimates. 1999 EPA estimates not available at time of printing.

ALTERNATOR

Amps	102
Amps @ idle	48

Features:

- Sealed High Capacity Bearings
- Transient Voltage Spike Protection
- Vehicle Low Voltage Idle Boost Compatible
- Load Response Control
- Reduced RFI.

ENGINE

Type	V8
Displacement Liters (cu. in.)	5.7 (350)
Horsepower/RPM	305 @ 5200
Torque/RPM	335 @ 4000
Fuel System	SFI
Compression Ratio	10.1:1
Exhaust	Dual Outlets

TRANSMISSION

Manual with overdrive	6-speed
Automatic with overdrive	4-speed

AXLE

Ratio—Manual 6 speed	3.42
Ratio—Automatic 4-speed	3.23

BRAKES

Dual hydraulic power	Disc/Disc
Front size/swept area (sq. in.)	11.8" x 1.27" /238.6
Rear size swept area (sq. in.)	11.9" x 1.02" /169.0
Total swept area (sq. in.)	407.6

TIRES

Type	"Z" Speed Rated Steel Belted Radial
Size	P245/50ZR16

WHEELS

Type	Aluminum
Size	16 x 8

CHASSIS

Frame	Unitized Body
Front Suspension	Independent-SLA, Coil Steel Alloy Spring Steel Anti-Roll Bar, Gas Charged Shocks
Rear Suspension	Salisbury 4-Link, Coil Steel Alloy Spring, Steel Anti-Roll Bar, Gas Charged Shocks
Steering Type	Power Rack & Pinion
Steering Ratio	14.4:1

BATTERY

Type	Maintenance Free
BCI Group Size	75
Volts	12
Amp Hour Rating	54
Cold Cranking Amps @ 0°F (-18° C)	525
Reserve Capacity @ 80°F (27° C)	90

Features:

- Maintenance-Free Design
- Built-In Hydrometer
- Reinforced Polypropylene Case
- Built-In Flame Arrester
- Side Mounted Terminals

*Dimensions are in inches unless otherwise specified

1999 CAMARO HIGHLIGHTS

NEW FOR 1999

- Torsen® Differential (Limited Slip axles only)
- Check gage warning light for: low fuel, oil, and coolant
- Change engine oil warning light
- 16.8 gallon fuel tank
- New electronic throttle control ([L36] V6 engine)
- Hatch/Decklid ajar light
- Acceleration Slip Regulation (NW9) (New for [I36] V6 engine)
- Dual outlet exhaust system on SS models
- Premium audio "Monsoon™" system now available on convertible model (ULO/UNO)
- Premium cassette audio "Monsoon™" system is standard on Z28 models (ULO)

EXTERIOR

- Carryover

INTERIOR

- Carryover

COLORS

- Blue, Bright (Met) (20U)
- Orange (99U)
- Pewter, Light (MeT) (11U)



STANDARD EQUIPMENT SUMMARY

CAMARO

		1FP87	1FP67	1FP87	1FP67
		BASE CPE	BASE CVT	Z28 CPE	Z28 CVT
<u>CHASSIS</u>					
AXLE:	3.08 W/MX0	S	S	-	-
	3.23 W/MM5	S	S	-	-
	2.73 W/MX0 (Limited Slip Axle w/Torsen® Differential)	-	-	S	S
	3.42 W/MN6 (Limited Slip Axle w/Torsen® Differential)	-	-	S	S
BRAKES:	4-WHEEL ANTI-LOCK	S	S	S	S
	DISC, POWER FRONT AND REAR	S	S	S	S
ENGINE:	3800 LITER SFI V6 W/ELECTRONIC THROTTLE CONTROL	S	S	-	-
	5.7 LITER SMALL BLOCK V8	-	-	S	S
FUEL TANK:	16.8 GALLON CAPACITY	S	S	S	S
SHOCKS:	MONOTUBE, GAS CHARGED (FRONT/REAR)	S	S	S	S
STABILIZER BAR:	FRONT AND REAR	S	S	S	S
STEERING:	POWER RACK AND PINION	S	S	S	S
TRANSMISSION:	5-SPEED MANUAL	S	S	-	-
	4-SPEED AUTOMATIC	-	-	S	S
<u>INTERIOR</u>					
AIR					
CONDITIONING:		S	S	S	S
CONSOLE:	CENTER, W/CUP HOLDERS, STORAGE COMPARTMENT	S	S	S	S
DEFOGGERS:	REAR WINDOW	-	S	-	S
FABRIC	SCOTCHGARD: INCLUDING SEATS, DOOR TRIM &				
PROTECTOR:	FLOOR COVERING	S	S	S	S
GAGES:	GAGE PKG W/TACH & SPEEDOMETER, DIGITAL ODOM.	S	S	S	S
GLASS:	REAR WINDOW	-	S	-	S
	TINTED, SOLAR-RAY	S	S	S	S
LIGHTING:	COURTESY REAR SEAT AND TRUNK	S	S	S	S
MIRRORS:	REARVIEW, W/DUAL READING LAMPS	S	S	S	S
OUTLET:	AUXILIARY POWER IN CONSOLE	S	S	S	S
SOUND	AM/FM STEREO W/CASSETTE W/EXTENDED				
SYSTEM:	RANGE SPEAKERS	S	-	-	-
	AM/FM STEREO W/CASSETTE W/PREMIUM				
	COAXIAL SPEAKERS	-	S	-	-
	"MONSOON™" PREMIUM STEREO CASSETTE W/AMPLIFIE	-	-	S	S
RESTRAINT	NEXT GENERATION DRIVER & FRONT PASSENGER	S	S	S	S
SYSTEM:	AIR BAGS				

CAMARO

STANDARD EQUIPMENT SUMMARY

		1FP87	1FP67	1FP87	1FP67
		BASE CPE	BASE CVT	Z28 CPE	Z28 CVT
<u>INTERIOR continued . . .</u>					
SEATS:	4-WAY MANUAL SEAT ADJUSTER-DRIVER'S SIDE	S	S	S	S
	CLOTH RECLINING BUCKET W/INTEGRAL HEAD RESTRAINTS	S	S	S	S
	REAR FULL FOLDING BACK	S	S	S	S
SPEEDOMETER:	155 MPH	--	--	S	S
	125 MPH	S	S	--	--
STEERING WHEEL:	TILT WHEEL	S	S	S	S
STORAGE BIN:	COMPARTMENT IN DOORS	S	S	S	S
VISORS:	COVERED MIRROR LH & RH (W/STORAGE STRAPS)	S	S	S	S
WARNING LIGHTS:	CHECK GAGES	S	S	S	S
	LOW COOLANT LEVEL	--	--	S	S
	LOW OIL LEVEL	S	S	S	S
	CHANGE ENGINE OIL W/RESET BUTTON	S	S	S	S
	HATCH/DECKLID AJAR	S	S	S	S
<u>EXTERIOR</u>					
HARD BOOT:	THREE PIECE WITH STORAGE BAG	--	S	--	S
LIGHTS:	AUTOMATIC DAYTIME RUNNING LAMPS	S	S	S	S
	COMPOSITE HEADLAMPS, REFLECTOR OPTICS W/AUTOMATIC CONTROL	S	S	S	S
MIRRORS:	SPECIAL BLACK (LH REMOTE/RH MANUAL)	--	--	S	--
	BODY-COLORED, DUAL SPORT (LH REMOTE/RH MAN)	S	S	--	--
	BODY-COLORED, DUAL SPORT (POWER)	--	--	--	S
PASS KEY II:	THEFT DETERRENT SYSTEM	S	S	S	S
ROOF:	SPECIAL BLACK TREATMENT (W/BLACK MIRRORS)	--	--	S	--
SPOILER:	REAR DECK	S	S	S	S
TIRES:	P215/60R-16 B/W	S	S	--	--
	P235/55R-16 B/W	--	--	S	S
TOP:	FOLDING, POWER	--	S	--	S
WHEEL COVERS:	16" BOLT-ON	S	S	--	--
WHEELS:	16" ALUMINUM	--	--	S	S
WIPERS:	INTERMITTENT	S	S	S	S

CAMARO COUPE

Model 1FP87 CAMARO COUPE

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	1SA	1SB	1SC
Base Preferred Equipment Group (Refer Standard Equipment Summary Page)	x	x	x
Preferred Equipment Group 1			
Speed Control: Electronic, w/Resume Speed		x	x
Remote Hatch Release		x	x
Power Door Lock System		x	x
Fog Lamps		x	x
Preferred Equipment Group 2			
Power Windows w/Driver's Side Express Down Feature			x
Mirrors, Sport Dual Remote Electric			x
Leather Wrapped Steering Wheel: w/ Transmission Shifter and Parking Brake Release Handle			x
Remote Keyless Entry w/Illuminated Interior Feature			x
Theft Deterrent Alarm System			x

ADDITIONAL OPTIONS

- NW9 ACCELERATION SLIP REGULATION:** (N/A 1SA) (Reqs Y87, N96/N98 & QCB Options)
- ACKNOWLEDGMENTS:**
- R8S Multiple Order Numbers
- R8T Preliminary Invoice (Refer Vehicle Price Schedule)
- VK3 **BRACKET:** License Plate, Front
- DEFOGGER: (MUST SPECIFY)**
- C49 Rear Window: Electric
- R9W Rear Window Defogger Not Desired
- EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)**
- FE9 Federal Emission Requirements
- NG1 Connecticut, District of Columbia, Delaware, Massachusetts, Maryland, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island or Virginia Emission Requirements
- YF5 California Emission Requirements
- NB8 CA, CT, DC, DE, MA, MD, NH, NJ, NY, PA, RI or VA State Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
- B35 **FLOOR COVERING:** Mats, Carpeted Rear
- AU0 **KEYLESS ENTRY:** Remote (Incl w/1SC) (Reqs 1SB) (Incls Theft Deterrent Alarm)
- B84 **MOLDINGS:** Body Side, Color-Keyed
- Y87 **PERFORMANCE HANDLING PKG:** (Incls Limited Slip Axle, Dual Outlet Exhaust and Sport Steering Ratio)(Reqs 1SB or 1SC) (Reqs QCB&N96 or N98) (w/MX0 Incls 3.42 Performance Axle)

CAMARO COUPE
1FP87

ADDITIONAL OPTIONS

- UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette Tape, Theft Lock and Speed Compensated Volume. "Monsoon™" 200 Watt Sound System with 8 Speakers and Amplifier
- UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume, "Monsoon™" 200 Watt Sound System with 8 Speakers and Amplifier
- U1S 12 Disc CD Changer (Reqs UL0 Radio)
- CC1 **ROOF PANELS:** Transparent Removable (Incls Locks, Lockable Stowage Provisions and Sunshades)
- AG1 **SEATS, ADDITIONAL:** Power (6-Way Driver)
- QCB **TIRES:** P235/55 R16 B/W (Reqs N96 or N98 Wheels)
TRANSMISSIONS: (MUST SPECIFY)
- MM5 5-Speed Manual (Base)
- MX0 4-Speed Automatic, Electronically Controlled (Incls 2nd Gear Start w/o NW9))
WHEELS:
- N96 16" Aluminum (Reqs QCB Tires)
- N98 16" Chrome Aluminum (Reqs QCB Tires)
- Y3F **SPORT APPEARANCE PACKAGE:** (Front Fascia Extension, Rocker Moldings, Spoiler Extension, Rear Fascia Molding) (Incls N96 Wheels) (Incls QCB Tires) (Avail w/N98 Wheels)

INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the only Combinations Available

SOLID PAINT APPLICATION (With or Without Y3F SPORT APPEARANCE PKG)

TRIM LEVEL		Dk Gray	Neutral	Red Accent	White
Cloth Bucket		14B	52B	(a)73B	
Leather Seating Surface Bucket		142	522		102

EXTERIOR COLORS SOLID PAINT	COLOR CODE	RECOMMENDED INTERIOR TRIM COLORS			
		Dk Gray	Neutral	Red Accent	White
Black	41U	x	x	x	x
Blue, Bright (Met)	20U	x			x
Blue, Navy (Met)	28U	x	x		x
Gold, Sport (Met)	63U	x	x		x
Green, Bright (Met)	31U	x	x		x
Orange, Hugger	99U	x	x		x
Pewter, Lt (Met)	11U	x	x	x	x
Red, Bright	81U	x	x	x	x
Teal Mystic (Met)(b)	79U	x	x		x
White, Arctic	10U	x	x	x	x

(a)Red Accent on Door Trim & Seat Inserts only, with Dk. Gray Accents

(b)N/A w/Y3F Sport Appearance Package

CAMARO CONVERTIBLE

Model 1FP67 CAMARO CONVERTIBLE

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	1SA	1SB
Base Preferred Equipment Group (Refer Standard Equipment Summary Page)	x	x
Preferred Equipment Group 1		
Power Door Lock System		x
Speed Control: Electronic, w/Resume Speed		x
Remote Trunk Release		x
Fog Lamps		x
Power Windows w/Driver's Side Express Down Feature		x
Mirrors Sport, Twin Remote Electric		x
Leather Wrapped Steering Wheel: w/ Transmission Shifter and Parking Brake Release Handle		x
Remote Keyless Entry w/Illuminated Interior Feature		x
Theft Deterrent Alarm System		x
Moldings: Body Side, Color-Keyed		x
Floor Covering: Mats, Carpeted Rear		x

ADDITIONAL OPTIONS

- NW9 **ACCELERATION SLIP REGULATION:** (N/A 1SA) (Reqs Y87, N96/N98 & QCB Options)
- ACKNOWLEDGMENTS:**
- R8S Multiple Order Numbers
- R8T Preliminary Invoice (Refer Vehicle Price Schedule)
- VK3 **BRACKET:** License Plate, Front
- EMISSIONS: (MUST SPECIFY)** (Refer Emission Requirements Tab Section)
- FE9 Federal Emission Requirements
- NG1 Connecticut, District of Columbia, Delaware, Massachusetts, Maryland, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island or Virginia Emission Requirements
- YF5 California Emission Requirement
- NB8 CA, CT, DC, DE, MA, MD, NH, NJ, NY, PA, RI, or VA State Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
- Y87 **PERFORMANCE HANDLING PKG:** (Incls Limited Slip Axle, Dual Outlet Exhaust and Sport Steering Ratio) (Reqs 1SB) (Reqs QCB&N96 or N98) (w/MX0 Incls 3.42 Perf. Axle)
- RADIO EQUIPMENT:**
- UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette Tape, Theft Lock and Speed Compensated Volume, "Monsoon™" 200 Watt Sound System with 8 Speakers and Amplifier
- UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume, "Monsoon™" 200 Watt Sound System with 8 Speakers and Amplifier
- U1S 12 Disc CD Changer (Reqs UL0 Radio)

**CAMARO CONVERTIBLE
1FP67**

ADDITIONAL OPTIONS

- AG1 **SEATS, ADDITIONAL:** Power (6-Way Driver)
- QCB **TIRES:** P235/55R-16 BW (Reqs N96 or N98 Wheels)
- TRANSMISSIONS: (MUST SPECIFY)**
- MM5 5-Speed Manual (Base)
- MX0 4-Speed Automatic, Electronically Controlled (Incls 2nd Gear Start w/o NW9))
- WHEELS:**
- N96 16" Aluminum (Reqs QCB Tires)
- N98 16" Chrome Aluminum (Reqs QCB Tires)
- Y3F **SPORT APPEARANCE PACKAGE:** (Front Fascia Extension, Rocker Moldings, Spoiler Extension, Rear Fascia Molding) (Incls N96 Wheels) (Incls QCB Tires) (Avail. w/N98 Wheels)

**CAMARO CONVERTIBLE
1FP67**

INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the only Combinations Available

**SOLID PAINT APPLICATION (With or Without Y3F SPORT APPEARANCE PKG)
(a) CONVERTIBLE TOP AND PAINT SELECTOR**

TRIM LEVEL		Dk Gray	Neutral	Red Accent	White
Cloth Bucket		14B	52B	(b)73B	
Leather Seating Surface Bucket		142	522		102

EXTERIOR COLORS SOLID PAINT	COLOR CODE	RECOMMENDED INTERIOR TRIM COLORS			
Black	41U	10T/41T	41T/56T	10T/41T	10T/41T
Blue, Bright (Met)	20U	10T/41T			10T/41T
Blue, Navy (Met)	28U	10T/41T	56T		10T/41T
Gold, Sport (Met)	63U	10T/41T	41T		10T/41T
Green, Bright (Met)	31U	10T/41T	56T		10T/41T
Orange, Hugger	99U	10T/41T	41T		10T/41T
Pewter, Lt (Met)	11U	10T/41T	41T	41T	10T/41T
Red, Bright	81U	10T/41T	56T	10T/41T	10T/41T
Teal Mystic (Met) (c)	79U	10T/41T	56T		10T/41T
White, Arctic	10U	10T/41T	10T/56T	10T/41T	10T/41T

- (a) Convertible Top Option Must be Specified in "Plus" (+) Option Section of Order Worksheet
- (b) Red Accent on Door Trim and Seat Inserts only, with Dk Gray Accents
- (c) N/A w/Y3F Sport Appearance Package

CONVERTIBLE TOP COLORS

ARCTIC WHITE 10T BLACK 41T NEUTRAL 56T

CAMARO Z28 COUPE

Model 1FP87 CAMARO Z28 COUPE

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	1SD	1SE
Base Preferred Equipment Group (Refer Standard Equipment Summary Page)	x	x
Preferred Equipment Group 1		
Power Door Locks		x
Speed Control: Electronic, w/Resume Speed		x
Remote Hatch Release		x
Fog Lamps		x
Power Windows w/Driver's Side Express Down Feature		x
Mirrors Sport, Twin Remote Electric		x
Leather Wrapped Steering Wheel: w/Transmission Shifter and Parking Brake Release Handle		x
Remote Keyless Entry w/Illuminated Interior Feature		x
Theft Deterrent Alarm System		x
Power Seat (6-Way Driver)		x
Moldings: Body Side, Color-Keyed		x
Floor Covering, Mats, Carpeted Rear		x

ADDITIONAL OPTIONS

- NW9 **ACCELERATION SLIP REGULATION:** (N/A 1SD) (QFZ Tires Recommended For Optimum Traction)
- ACKNOWLEDGMENTS:**
- R8S Multiple Order Numbers
- R8T Preliminary Invoice (Refer Vehicle Price Schedule)
- GU5 **AXLE 3.23:** Performance (Reqs MX0 Trans and QLC or QFZ Tires)
- VK3 **BRACKET:** License Plate, Front
- DEFOGGER: (MUST SPECIFY)**
- C49 Rear Window: Electric
- R9W Rear Window Defogger Not Desired
- EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)**
- FE9 Federal Emission Requirements
- NG1 Connecticut, District of Columbia, Delaware, Massachusetts, Maryland, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island or Virginia Emission Requirements
- YF5 California Emission Requirements
- NB8 CA, CT, DC, DE, MA, MD, NH, NJ, NY, PA, RI, or VA State Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
- 1LE **PERFORMANCE PACKAGE:** (Incls Special Handling Suspension System Including Larger Stabilizer Bars, Stiffer Springs, Dual Adjustable Shock Absorbers & Bushings & Power Steering Cooler) (Reqs 1SD & QLC Tires) (With MX0 Trans Reqs GU5 Axle) (N/A CC1 Roof Panels) (Intended for Serious Performance Enthusiasts Only)
- V12 **POWER STEERING COOLER:** (Intended for Gymkhana, Autocross-type applications) (Included with 1LE and WU8 Performance Packages)

CAMARO Z28 COUPE
1FP87

ADDITIONAL OPTIONS

RADIO EQUIPMENT:

- UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume, "Monsoon™" 200 Watt Sound System with 8 Speakers and Amplifier
- U1S 12 Disc CD Changer (N/A w/UN0)
- CC1 **ROOF PANEL:** Transparent Removable (Incls Locks, Lockable Storage Provisions and Sunshades)

TIRES:

- QFZ P245/50 ZR16 B/W All Season Performance
- QLC P245/50 ZR16 B/W Performance

TRANSMISSIONS:

- MN6 6-Speed Manual (Incls Performance Axle)
- MX0 4-Speed Automatic, Electronically Controlled (Base)

WHEELS:

- N9B 16" Chrome Aluminum (N/A w/WU8 SS Performance/Appearance Package)
- Y3F **SPORT APPEARANCE PACKAGE:** (Front Fascia Extension, Rocker Moldings, Spoiler Extension, Rear Fascia Molding) (Avail w/N98 Wheels)
- WU8 **SS PERFORMANCE/APPEARANCE PACKAGE:** (Incls 320 HP, forced air induction hood, specific SS spoiler, 17" aluminum-wheels, 275/40ZR17 Goodyear Eagle F1 tires, high performance ride & handling package, low restriction exhaust & SS badging) (Incls 3.23 Axle w/MX0, 3.42 Axle w/MN6) (N/A w/Y3F Sport Appearance Package)

CAMARO Z28 COUPE
1FP87

INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the only Combinations Available

SOLID PAINT APPLICATION (With or Without Y3F SPORT APPEARANCE PKG - N/A WU8)

		TRIM LEVEL	Dk Gray	Neutral	Red Accent	White
		Cloth Bucket	14B	52B	(a)73B	
		(b)Leather Seating Surface Bucket	142	522		102
EXTERIOR COLORS	COLOR CODE	RECOMMENDED INTERIOR TRIM COLORS				
SOLID PAINT						
Black	41U	x	x	x	x	
Blue, Bright (Met)	20U	x			x	
Blue, Navy (Met)	28U	x	x		x	
Gold, Sport (Met)	63U	x	x		x	
Green, Bright (Met)	31U	x	x		x	
Orange, Hugger	99U	x	x		x	
Pewter, Light (Met)	11U	x	x	x	x	
Red, Bright	81U	x	x	x	x	
Teal Mystic (Met) (c)	79U	x	x		x	
White, Arctic	10U	x	x	x	x	

(a)Red Accent on Door Trim and Seat Inserts only, with Dk Gray Accents

(b)Leather N/A w/1SD Peg

(c)N/A w/Y3F Sport Appearance Package

SOLID PAINT APPLICATION (With WU8 SS PERFORMANCE/APPEARANCE PKG ONLY)

		TRIM LEVEL	Dk Gray	Neutral	Red Accent	White
		Cloth Bucket	14B	52B	(a)73B	
		(b)Leather Seating Surface Bucket	142	522		102
EXTERIOR COLORS	COLOR CODE	RECOMMENDED INTERIOR TRIM COLORS				
SOLID PAINT						
Black	41U	x	x	x	x	
Blue, Navy (Met)	28U	x	x		x	
Orange, Hugger	99U	x	x		x	
Pewter, Light (Met)	11U	x	x	x	x	
Red, Bright	81U	x	x	x	x	
White, Arctic	10U	x	x	x	x	

(a)Red Accent on Door Trim & Seat Inserts only, with Dk. Gray Accents

(b)Leather N/A w/1SD Peg

CAMARO Z28 CONVERTIBLE

Model 1FP67 CAMARO Z28 CONVERTIBLE

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	1SC
Base Preferred Equipment Group 1	
Power Door Locks	x
Speed Control: Electronic, w/Resume Speed	x
Remote Trunk Release	x
Fog Lamps	x
Power Windows w/Driver's Side Express Down Feature	x
Mirrors Sport, Twin Remote Electric	x
Leather Wrapped Steering Wheel: w/Transmission Shifter and Parking Brake Release Handle	x
Remote Keyless Entry w/Illuminated Interior Feature	x
Theft Deterrent Alarm System	x
Power Seat (6-Way Driver)	x
Moldings: Body Side, Color-Keyed	x
Floor Covering, Mats, Carpeted Rear	x

ADDITIONAL OPTIONS

- NW9 **ACCELERATION SLIP REGULATION:** (QFZ Tires Recommended For Optimum Traction)
- ACKNOWLEDGMENTS:**
- R8S Multiple Order Numbers
- R8T Preliminary Invoice (Refer Vehicle Price Schedule)
- GU5 **AXLE 3.23:** Performance (Reqs MX0 Trans and QLC or QFZ Tires)
- VK3 **BRACKET:** License Plate, Front
- EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)**
- FE9 Federal Emission Requirements
- NG1 Connecticut, District of Columbia, Delaware, Massachusetts, Maryland, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island or Virginia Emission Requirements
- YF5 California Emission Requirements
- NB8 CA, CT, DC, DE, MA, MD, NH, NJ, NY, PA, RI or VA State Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
- RADIO EQUIPMENT:**
- UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume, "Monsoon™" 200 Watt Sound System with 8 Speakers and Amplifier
- U1S 12 Disc CD Changer (N/A w/UN0)
- V12 **POWER STEERING COOLER:** (Intended for Gymkhana, Autocross-type applications)
(Included with WU8 Performance Package)

CAMARO Z28 CONVERTIBLE
1FP67

ADDITIONAL OPTIONS

TIRES:

- QFZ P245/50 ZR16 B/W All Season Performance
QLC P245/50 ZR16 B/W Performance

TRANSMISSIONS:

- MN6 6-Speed Manual (Incls Performance Axle)
MX0 4-Speed Automatic, Electronically Controlled (Base)

WHEELS:

- N98 16" Chrome Aluminum (N/A w/WU8 SS Performance/Appearance Package)
Y3F **SPORT APPEARANCE PACKAGE:** (Front Fascia Extension, Rocker Moldings, Spoiler Extension, Rear Fascia Molding) (Avail w/N98 Wheels)
WU8 **SS PERFORMANCE/APPEARANCE PACKAGE:** (Incls 320 HP, forced air induction hood, specific SS spoiler, 17" aluminum-wheels, 275/40ZR17 Goodyear Eagle F1 tires, high performance ride & handling package, low restriction exhaust & SS badging) (Incls 3.23 Axle w/MX0, 3.42 w/MN6) (N/A w/Y3F Sport Appearance Package)

CAMARO Z28 CONVERTIBLE
1FP67

INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the only Combinations Available

SOLID PAINT APPLICATION (With or Without Y3F SPORT APPEARANCE PKG - **N/A WU8**)

(a) CONVERTIBLE TOP AND PAINT SELECTOR

TRIM LEVEL		Dk Gray	Neutral	Red Accent	White
Cloth Bucket		14B	52B	(b)73B	
Leather Seating Surface Bucket		142	522		102

EXTERIOR COLORS SOLID PAINT	COLOR CODE	RECOMMENDED INTERIOR TRIM COLORS			
		Dk Gray	Neutral	Red Accent	White
Black	41U	10T/41T	41T/56T	10T/41T	10T/41T
Blue, Bright (Met)	20U	10T/41T			10T/41T
Blue, Navy (Met)	28U	10T/41T	56T		10T/41T
Gold, Sport (Met)	63U	10T/41T	41T		10T/41T
Green, Bright (Met)	31U	10T/41T	56T		10T/41T
Orange, Hugger	99U	10T/41T	41T		10T/41T
Pewter, Lt (Met)	11U	10T/41T	41T	41T	10T/41T
Red, Bright	81U	10T/41T	56T	10T/41T	10T/41T
Teal Mystic (Met) (c)	79U	10T/41T	56T		10T/41T
White, Arctic	10U	10T/41T	10T/56T	10T/41T	10T/41T

(a) Convertible Top Option Must be Specified in "Plus" (+) Option Section of Order Worksheet

(b) Red Accent on Door Trim and Seat Inserts only, with Dk Gray Accents

(c) N/A w/Y3F Sport Appearance Package

SOLID PAINT APPLICATION (**With WU8** SS PERFORMANCE/APPEARANCE PKG ONLY)

(a) CONVERTIBLE TOP AND PAINT SELECTOR -

TRIM LEVEL		Dk Gray	Neutral	Red Accent	White
Cloth Bucket		14B	52B	(b)73B	
Leather Seating Surface Bucket		142	522		102

EXTERIOR COLORS SOLID PAINT	COLOR CODE	RECOMMENDED INTERIOR TRIM COLORS			
		Dk Gray	Neutral	Red Accent	White
Black	41U	10T/41T	41T/56T	10T/41T	10T/41T
Blue, Navy (Met)	28U	10T/41T	56T		10T/41T
Orange, Hugger	99U	10T/41T	41T		10T/41T
Pewter, Lt (Met)	11U	10T/41T	41T	41T	10T/41T
Red, Bright	81U	10T/41T	56T	10T/41T	10T/41T
White, Arctic	10U	10T/41T	10T/56T	10T/41T	10T/41T

(a) Convertible Top Option Must be Specified in "Plus" (+) Option Section of Order Worksheet

(b) Red Accent on Door Trim and Seat Inserts only, with Dk Gray Accents

CONVERTIBLE TOP COLORS

ARCTIC WHITE 10T BLACK 41T NEUTRAL 56T

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. CUSTOMARY)

1999

Manufacturer	CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Vehicle Line	CAMARO	
Mailing Address	30007 VAN DYKE WARREN, MI 48090-9065	Issue	Revised	

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This specification form was developed by the vehicle manufacturing companies under the auspices of the American Automobile Manufacturers Association.

The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.

AAMA

American Automobile Manufacturers Association

Blank Forms Provided by Technical Affairs Division

Specifications

METRIC

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NOTE:

- This form uses both Metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parenthesis.
- UNLESS OTHERWISE INDICATED:
 - Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - Nominal design dimensions are used throughout these specifications.
 - All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
- The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
- Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Origin

Design & development (company)	General Motors, Midsize Car Division
Where built (country)	Canada
Authorized U.S. sales marketing representative	Chevrolet Motor Divison

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models. Series, Body Type (Mfg's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
CAMARO					
2-Door Coupe Plain Back Special (RWD)		1FP87	4 (2/2)	45.4 (100)	TBD
2-Door Coupe Convertible (RWD)		1FP67	4 (2/2)		TBD
MERCHANDISING MODEL PACKAGES					
CAMARO Z28					
2-Door Coupe Plain Back Special (RWD)		1FP87 (W/Z28)	4 (2/2)	45.4 (100)	TBD
2-Door Coupe Convertible (RWD)		1FP67 (W/Z28)	4 (2/2)		TBD

* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Power Teams

SAE J1349 Net bhp (brake horsepower) ~~and~~ Net Torque corrected to 77°F/25°C and 29.61 in. Hg/100 kPa atmospheric pressure.

		A	B	C	D	E	F	
E N G I N E	Engine Code	L36	L36	L36	LS1	LS1	LS1	
	Displacement Liters (in ³)	3.8 (231)	3.8 (231)	3.8 (231)	5.7 (346)	5.7 (346)	5.7 (346)	
	Induction system (FI, Carb, etc.)	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	
	Compression ratio	9.4:1	9.4:1	9.4:1	10.1:1	10.1:1	10.1:1	
	SAE Net at RPM	Power kW (bhp)	149 (200) @ 5200	149 (200) @ 5200	149 (200) @ 5200	228 (305) @ 5200	228 (305) @ 5200	228 (305) @ 5200
		Torque N • m (lb. ft.)	305 (225) @ 4000	305 (225) @ 4000	305 (225) @ 4000	454 (335) @ 4000	454 (335) @ 4000	454 (335) @ 4000
	Exhaust single, dual		Single	Dual	Dual	Dual	Dual	Dual
T R A N S	Transmission/ Transaxle	M49	M30	M30	M30	M30	MM6	
	Effective Final Drive / Axle Ratio (std. first)	3.23 (GU5)	3.08 (GU4)	3.42 (GU6)	2.73 (GU2)	3.23 (GU5)	3.42 (GU6)	

Series Availability

Power Teams (A - B - C - D)

Model	Code	Standard	Optional
CAMARO			
2-Door Coupe Plain Back Special	1FP87	A	B, C
2-Door Convertible Coupe	1FP67	A	B, C
NOTE: MERCHANDISING PACKAGES, NOT EXTRA MODELS			
CAMARO Z28			
2-Door Coupe Plain Back Special	1FP87 (W/Z28)	D	E, F
2-Door Convertible Coupe	1FP87 (W/Z28)	D	E, F

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.8 LITER V6
 L36

Engine - General

Type & description (inline, V, angle, flat location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	90 Degree V, Front, Longitudinal, OHV	
Manufacturer	General Motors Powertrain	
No. of cylinders	Six	
Bore	96.5 mm	
Stroke	86.36 mm	
Bore Spacing (C / L to C / L)	107.7 mm	
Cylinder block material & mass kg. (lbs.) (machined)	Cast Iron, 55.7 (122.8)	
Cylinder block deck height	216.5 mm	
Cylinder block length	396 mm	
Deck clearance (minimum) (above or below block)	0.57 mm Above	
Cylinder head material & mass kg. (lbs.)	Cast Iron, 14.4 (31.7)	
Cylinder head volume cm ³ (inches ³)	62.9 (3.81)	
Cylinder liner material	Not Available	
Head gasket thickness (compressed)	1.5 mm	
Minimum combustion chamber total volume cm ³ (inches ³)	75.675 (4.618)	
Cyl. no. system (front to rear)*	L. Bank	1-3-5
	R. Bank	2-4-6
Firing order	1-6-5-4-3-2	
Intake manifold material & mass kg. (lbs.)**	Cast Aluminum, 11.5 (25.4) (Upper and Lower)	
Exhaust manifold material & mass kg. (lbs.)**	Cast Iron, Right: 4.0 (8.8), Left: 4.3 (9.5)	
Knock sensor (number & location)	Two, Sides of Block	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine Mounts	Quantity	Two
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	Not Applicable
Total dressed engine mass (wt) dry***	Automatic: 193 kg, Manual: 207 kg	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy, 387 (13.65)
--	-----------------------------

Engine - Camshaft

Location	In Block Above Crankshaft	
Material & mass kg (weight, lbs.)	Steel, 2.5 (5.5)	
Drive type	Chain / belt	Chain
	Width / pitch	0.398 Over Guides / 0.323

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following: All those items necessary to make the engine a complete ready-to-run unit.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

5.7 LITER V8
 LS1

Engine - General

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	90 Degree V, Front, Longitudinal, OHV	
Manufacturer	General Motors Powertrain	
No. of cylinders	Eight	
Bore	99.0 mm	
Stroke	92.0 mm	
Bore Spacing (C / L to C / L)	111.8 mm	
Cylinder block material & mass kg. (lbs.) (machined)	Aluminum, 48.6 (107.1)	
Cylinder block deck height	234.7 mm	
Cylinder block length	519.0 mm	
Deck clearance (minimum) (above or below block)	Not Applicable	
Cylinder head material & mass kg. (lbs.)	Aluminum, 9.2 (20.3)	
Cylinder head volume cm ³ (inches ³)	66.9 (4.08)	
Cylinder liner material	Cast Iron	
Head gasket thickness (compressed)	1.33 mm	
Minimum combustion chamber total volume cm ³ (inches ³)	64.9 (3.96)	
Cyl. no. system (front to rear)*	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order	1-8-7-2-6-5-4-3	
Intake manifold material & mass kg. (lbs.)**	Composite, 7.2 (15.9)	
Exhaust manifold material & mass kg. (lbs.)**	Stainless Steel, Right: 5.0 (11.0) ; Left: 4.8 (10.6)	
Knock sensor (number & location)	Two, Valley	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine Mounts	Quantity	Two
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	Not Applicable
Total dressed engine mass (wt) dry***	Automatic: 214 kg, Manual : 234 kg	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum, 439 (15.5)
--	----------------------

Engine - Camshaft

Location	In Cylinder Block "V" Above Crankshaft	
Material & mass kg (weight, lbs.)	Steel, 4.4 (9.7)	
Drive type	Chain / belt	Chain
	Width / pitch	5.72 mm / 9.53 mm

- * Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.
- ** Finished state.
- *** Dressed engine mass (weight) includes the following: All those items necessary to make the engine a complete ready-to-run unit.

MVMA Specifications

Vehicle Line CAMARO
 Model Year '999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description Engine Code	3.8 LITER V6 L36
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Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard	
Valves	Number intake / exhaust	Six/Six
	Head O.D. intake / exhaust	45.72 mm/ 38.6 mm

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Pearlitic Malleable Iron 0.63 (1.4)
Length (axes C/L to C/L)	145.85 mm

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Nodular Cast Iron 15.4 (34)	
End thrust taken by bearing (no.)	Two	
Length & number of main bearings	21.95 mm Four	
Seal (material, one, two piece design, etc.)	Front	Rubber Lip, One Piece
	Rear	Rubber Lip, One Piece

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	414 (60) @ 2000 RPM
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.78 (4.0)

Engine - Diesel Information

(NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0°F.		
Injector nozzle	Type	
	Opening pressure kPa (psi)	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine - Intake System

(NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

5.7 LITER V8
 LS1

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard
Valves	Number intake / exhaust
	Head O.D. intake / exhaust

Eight/Eight
 50.8 mm / 39.4 mm

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Powder Metal, 0.62 (1.4)
Length (axes C/L to C/L)	154.9 mm

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Cast Nodular Iron, 23.0 (50.7)
End thrust taken by bearing (no.)	Three
Length & number of main bearings	Five
Seal (material, one, two piece design, etc.)	Front
	Rear

Teflon, One Piece
 Teflon, One Piece

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	415 (60) @ 5000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	5.6 (6.0)

Engine - Diesel Information

(NOT APPLICABLE)

Diesel engine manufacturer	
Glow plug, current drain at 0°F.	
Injector nozzle	Type
	Opening pressure kPa (psi)
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant, oil to ambient air)	
Oil filter	

Engine - Intake System

(NOT APPLICABLE)

Turbo charger - manufacturer
Super charger - manufacturer
Intercooler

* Finished State

MVMA Specifications

Vehicle Line CAMARO
 Model Year '999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.8 LITER V6
 L36

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard		
Coolant fill location (rad., bottle)	Bottle		
Radiator cap relief valve pressure kPa (psi)	124 (18)		
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open at °C (°F)	91 (195)	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	10.0	
	Number of pumps	One	
	Drive (V-belt, other)	Poly V-Belt	
	Bearing type	Double Row (Ball/Roller)	
	Impeller material	Stamped Steel	
	Housing material	Cast Aluminum	
By-pass recirculation type (inter., ext.)	External		
Cooling System capacity	With heater - L (qt.)	Not Applicable	
	With air conditioner - L (qt.)	10.80 (11.41) Auto: 11.00 (11.62) Manual	
	Opt. equipment specify - L (qt.)	No	
Water jackets full length of cyl. (yes, no)	No		
Water all around cylinder (yes, no)	Yes		
Water jackets open at head face (yes, no)	Yes		
Radiator core	Std., A/C, HD	Standard	
	Type (cross-flow, etc.)	Cross Flow	
	Construction (fin & tube mechanical, braze, etc.)	Vacuum Brazed Tube & Fin	
	Material, mass kg (wgt., lbs.)	Aluminum, 3.21 (7.08) w/o TOC	Aluminum, 4.02 (8.86) w/TOC
	Width	630 mm (24.8 in.) w/o TOC	630 mm (24.8 in.) w/TOC
	Height	438 mm (17.2 in.)	
	Thickness	24 mm (0.945 in.)	
	Fins per inch	17 fpi (3.0 k)	
Radiator end tank material	Glass - Reinforced Nylon		
Fan	Std., elec., opt.	Standard, Electric	
	Number of blades & type (flex, solid, material)	Five Blades, Solid, Plastic	
	Number & location (front, rear of radiator)	Dual Pullers	
	Diameter & projected width	316 mm Dia. / 72 mm Width	
	Ratio (fan to crankshaft rev.)	—	
	Fan cutout type	ECM Controlled	
	Drive type (direct, remote)	—	
	RPM at idle (elec.)	1950-2150	
	Motor rating (wattage/elec.)	100 Watts	
	Motor switch (type & location/elec.)	Relay	
	Switch point (temp./pressure/elec.)	Low, 221 F / 190 psi	
		High, 234 F / 275 psi	
Fan shroud (material)	Nylon Six/Six		

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8
Engine Code	LS1

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard		
Coolant fill location (rad., bottle)	Bottle		
Radiator cap relief valve pressure kPa (psi)	124.0 (18.0)		
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at °C (°F)	86.0 (187.0)	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	10.5	
	Number of pumps	One	
	Drive (V-belt, other)	Poly V-Belt	
	Bearing type	Double Row (Ball)	
	Impeller material	Steel	
	Housing material	Cast Aluminum	
By-pass recirculation type (inter., ext.)	Internal		
Cooling System capacity	With heater - L (qt.)	6.3 (6.6) Engine Only	
	With air conditioner - L (qt.)	11.15 (11.78) Auto: 11.30 (11.94) Manual	
	Opt. equipment specify - L (qt.)	Not Applicable	
Water jackets full length of cyl. (yes, no)	Yes		
Water all around cylinder (yes, no)	Yes		
Water jackets open at head face (yes, no)	No		
Radiator core	Std., A/C, HD	Standard	
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)	C.A.B. Brazed Tube & Fin	
	Material, mass kg (wgt., lbs.)	Aluminum, 3.29 (7.25) w/o TOC	Aluminum, 3.99 (8.80) w/TOC
	Width	630 mm (24.8 in.) w/o TOC	630 mm (24.8 in.) w/TOC
	Height	438 mm (17.2 in)	
	Thickness	24.0 mm (1.3 in.)	
	Fins per inch	17 fpi (3.0 k)	
Radiator end tank material	Glass - Reinforced Nylon		
Fan	Std., elec., opt.	Standard, Electric	
	Number of blades & type (flex, solid, material)	5 Blades, Solid, Plastic	
	Number & location (front, rear of radiator)	Dual Pullers	
	Diameter & projected width	316 mm Dia. / 72 mm Width	
	Ratio (fan to crankshaft rev.)	-	
	Fan cutout type	ECM Controlled	
	Drive type (direct, remote)	-	
	RPM at idle (elec.)	2100-2300	
	Motor rating (wattage/elec.)	150 Watts	
	Motor switch (type & location/elec.)	Relay	
	Switch point (temp./pressure/elec.)	Low, 226 F / 215 psi	High, 234 F / 248 psi
	Fan shroud (material)	Nylon Six/Six	

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description	3.8 LITER V6 L36
Engine Code	

Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Sequential Fuel Injection
Manufacturer		Delphi
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		PCM Controlled
Fuel injection	Point of injection (no.)	Ports (Six)
	Constant, pulse, flow	Pulse
	Control (electronic, mecn.)	Electronic
	System pressure kPa (psi)	350 (50.8)
idle speed-rpm (spec. neutral or drive and propane if used)	Manual	PCM Controlled
	Automatic	PCM Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water Thermostatic
Air cleaner type		Paper Element
Fuel filter (type/location)		Inline, Replaceable/Near Fuel Tank
Fuel pump	Type (elec. or mecn.)	Electric
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	270 - 350 (39.2 - 50.8)
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	111 (29.3) @ 350 (50.8)

Fuel Tank

Capacity refill L (gallons)		63.6 (16.8 - U.S. Gallons)
Location (describe)		Rear and Above Rear Axle
Attachment		Two Metal (Steel) Straps
Material & Mass kg. (weight lbs.)		Co-Extruded HDPE Plastic 7.0 (15.4)
Filler pipe	Location & material	Left Rear Quarter Panel (Coated Steel Tube)
	Connection to tank	Low Permeation Rubber Hose with Clamps
Fuel line (material)		Multi - Layer Nylon and Coated Steel Tubing
Fuel hose (material)		Multi - Layer Nylon and Coated Steel Tubing
Return line (material)		Multi - Layer Nylon and Coated Steel Tubing
Vapor line (material)		Multi - Layer Nylon and Coated Steel Tubing
Extended range tank	Opt., n.a.	Not Available
	Capacity L (gallons)	Not Available
	Location & material	Not Available
	Attachment	Not Available
Auxiliary tank	Opt., n.a.	Not Available
	Capacity L (gallons)	Not Available
	Location & material	Not Available
	Attachment	Not Available
	Selector switch or valve	Not Available
Separate fill		Not Available

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

5.7 LITER V8
 LS1

Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Sequential Fuel Injection
Manufacturer		Bosch
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		PCM Controlled
Fuel injection	Point of injection (no.)	Ports (Eight)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic - On Board Computer
	System pressure kPa (psi)	400.0 (58.0)
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	PCM Controlled
	Automatic	PCM Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		None
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Inline, Replaceable / Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	0- 700 kPa
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	32 @ 400 kPa

Fuel Tank

Capacity refill L (gallons)		63.6 (16.8 - U.S. Gallons)
Location (describe)		Rear and Above Rear Axle
Attachment		Two Metal (Steel) Straps
Material & Mass kg. (weight lbs.)		Co-Extruded HDPE Plastic 7.0 (15.4)
Filler pipe	Location & material	Left Rear Quarter Panel (Coated Steel Tube)
	Connection to tank	Low Permeation Rubber Hose
Fuel line (material)		Multi - Layer Nylon and Coated Steel Tubing
Fuel hose (material)		Multi - Layer Nylon and Coated Steel Tubing
Return line (material)		Multi - Layer Nylon and Coated Steel Tubing
Vapor line (material)		Multi - Layer Nylon and Coated Steel Tubing
Extended range tank	Opt., n.a.	Not Available
	Capacity L (gallons)	Not Available
	Location & material	Not Available
	Attachment	Not Available
Auxiliary tank	Opt., n.a.	Not Available
	Capacity L (gallons)	Not Available
	Location & material	Not Available
	Attachment	Not Available
	Selector switch or valve	Not Available
Separate fill		Not Available

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issue Revised (●)

METRIC (U.S. Customary)

Engine Description Engine Code	3.8 LITER V6 L36
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Vehicle Emission Control

Type (air injection, engine modifications, other)		See Below	
Exhaust Emission Control	Air injection	Pump or pulse	Not Applicable
		Driven by	Not Applicable
		Air distribution (head, manifold, etc.)	Not Applicable
		Point of entry	Not Applicable
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled Flow
		Exhaust source	Exhaust Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold
	Catalytic Converter	Type	Three way catalyst
		Number of	Two
		Location(s)	Underfloor
Volume L (in ³)		2.8 (170)	
Substrate type		Monolithic/Ceramic	
Noble metal type		Platinum, Palladium, Rhodium	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)	Positive Ventilation to Induction System	
	Energy source (manifold vacuum, carburetor, other)	Manifold Vacuum	
	Discharges to (intake manifold, other)	Intake Manifold	
	Air inlet (breather cap, other)	Throttle Body	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	From Fuel Tank To	Canister
		From Carburetor To	Not Applicable
	Vapor storage provision	Canister	
Electronic system	Closed loop (yes/no)	Yes	
	Open loop (yes/no)	No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)	Single - All Stainless System	
Muffler no. & type (reverse flow, straight thru, separate resonator), Muffler volume (liters), Material & Mass kg. (weight lbs.)	Reverse Flow, 987 in ³ (16.2L) One Stainless Steel Muffler with One Tail Pipe 6.2 (13.7)	
Resonator no., type, & volume (liters)	Not Applicable	
Exhaust pipe	Branch o.d., wall thickness	
	Main o.d., wall thickness	
	Material & Mass kg. (weight lbs.)	
Intermediate pipe	o.d. & wall thickness	2.25 in. x 1.3 mm Stainless Steel
	Material & Mass kg. (weight lbs.)	Stainless Steel, 4.6 kg (10.1)
Tail pipe	o.d. & wall thickness	2.5 in. x 1.0 mm Stainless Steel
	Material & Mass kg. (weight lbs.)	Aluminized Stainless Steel, 1.0 (2.2)

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8
 Engine Code LS1

Vehicle Emission Control

Type (air injection, engine modifications, other)		See Below	
Exhaust Emission Control	Air injection	Pump or pulse	Pump
		Driven by	Electric
		Air distribution (head, manifold, etc.)	Exhaust Manifold
		Point of entry	Exhaust Manifold
	Exhaust Gas	Type (controlled flow, open orifice, other)	Controlled Flow
		Exhaust source	Exhaust Manifold
	Recirculation	Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold
		Type	Three-Way Catalyst
	Catalytic Converter	Number of	Two
		Locations(s)	Right: Under Body Left: Close Coupled
		Volume L (in ³)	1.4 (85.0)
		Substrate type	Monolith
		Noble metal type	Platinum, Rhodium
Noble metal concentration (g/cm ²)		0.001917	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		Intake Manifold
	Air inlet (breather cap, other)		Air Cleaner
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	From Fuel Tank To	Canister
		From Carburetor To	Not Applicable
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single - All Stainless Steel System
Muffler no. & type (reverse flow, straight thru, separate resonator), Muffler volume (liters), Material & Mass kg. (weight lbs.)		Reverse Flow, (19.8L) 1211 in. ³ One Stainless Steel Muffler with Dual Tailpipes. 9.0 (19.8)
Resonator no., type, & volume (liters)		Not Applicable
Exhaust pipe	Branch o.d., wall thickness	2.25 in. Laminated Pipes, 0.7mm Each Layer
	Main o.d., wall thickness	
	Material & Mass kg. (weight lbs.)	Stainless Steel, 4.0 (8.8)
Intermediate pipe	o.d. & wall thickness	2.75 in. x 1.3 mm, Stainless Steel
	Material & Mass kg. (weight lbs.)	Stainless Steel, 5.0 (11.0)
Tail pipe	o.d. & wall thickness	2.25 in. x 1.0 mm, Stainless Steel
	Material & Mass kg. (weight lbs.)	Stainless Steel, 1.8 (3.98)

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issue _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description	3.8 LITER V6
Engine Code	L36

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Tremec, Mexico (M49)
Manual 6-speed (manufacturer/country)	Not Applicable
Automatic (manufacturer/country)	Not Applicable
Automatic overdrive (manufacturer/country)	GM Powertrain Group, USA

Manual Transmission/Transaxle

Number of forward speeds		Five
Gear ratios	1st	3.75
	2nd	2.19
	3rd	1.41
	4th	1.00
	5th	0.72
	6th	Not Applicable
Reverse		3.53
Synchronous meshing (specify gears)		1-2-3-4-5
Shift lever location		Trans. Extension
Trans. case material & mass kg. (lbs.)*		Aluminum 42.25 (93.1)
Lubricant	Capacity L (pt.)	3.2 (6.8)
	Type recommended	Dexron III

Clutch (Manual Transmission)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		
Linkage (hydraulic, cable, rod, lever, other)		
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal) N (lbs.)		
Clutch facing	Facing mfr. & material coding	
	Facing material & construction	
	Rivets per facing	
	Outside x inside dia. (nominal)	
	Total eff. area cm ² (in. ²)	
	Thickness (pressure plate side/wheel side)	
	Rivet depth (pressure plate side/wheel side)	
Engagement cushion method		
Release bearing type & method lub.		
Torsional damping method, springs, hysteresis		

* Includes shift linkage, lubricant, and clutch housing. If other specify.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

5.7 LITER V8
 LS1

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Not Applicable
Manual 6-speed (manufacturer/country)	Tremec, Mexico (MM6)
Automatic (manufacturer/country)	Not Applicable
Automatic overdrive (manufacturer/country)	GM Powertrain Group, USA

Manual Transmission/Transaxle

Number of forward speeds	Six	
Gear ratios	1st	2.66
	2nd	1.78
	3rd	1.30
	4th	1.00
	5th	0.74
	6th	0.50
	Reverse	2.90
Synchronous meshing (specify gears)	All (1-2-3-4-5-6-R)	
Shift lever location	Transmission Extension	
Trans. case material & mass kg. (lbs.)*	Aluminum, 61.3 (135.1)	
Lubricant	Capacity L (pt.)	3.84 (8.13)
	Type recommended	Dexron III

Clutch (Manual Transmission)

Clutch manufacturer	Valeo Clutches & Transmissions	
Clutch type (dry, wet; single, multiple disc)	280 mm Pull Type - Dry Clutch	
Linkage (hydraulic, cable, rod, lever, other)	Hydraulic Pre-Filled	
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	133 (30)
	Released	115 (26)
Assist (spring, power/percent, nominal)	None	
Type pressure plate springs	Diaphragm	
Total spring load (nominal) N (lbs.)	9400 (2136)	
Clutch facing	Facing mfg. & material coding	Valeo F-202
	Facing material & construction	Non-Asbestos Woven
	Rivets per facing	32
	Outside x inside dia. (nominal)	280 x 180 mm (11.02 x 7.09 in.)
	Total eff. area cm ² (in. ²)	361.3 (56.0)
	Thickness (pressure plate side/fly wheel side)	3.3 / 3.3 mm (0.130 / 0.130 in.)
	Rivet depth (pressure plate side/fly wheel side)	1.1 mm (0.043 in.)
Engagement cushion method	Cushion Springs	
Release bearing type & method lub.	Angular Contact Ball Bearing	
Torsional damping method, springs, hysteresis	Disk Douted Torsional Spring Damper	

* Includes shift linkage, lubricant, and clutch housing. If other specify.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description	3.8 LITER V6
Engine Code	L36

Automatic Transmission/Transaxle

Trade Name	Hydra-Matic		
Type and special features (describe)	Four-Speed Electronic Controlled Automatic Overdrive Transmission with Lock-up Torque Converter Clutch		
Shift mechanics	Hydraulic Clutches/Electronic Controls		
Gear selector	Location (column, floor, other)	Floor	
	Ltr./No. designation (e.g. PRND21)	P-R-N- D -D-2-1	
	Shift interlock (yes, no, describe)	Yes, Brake Interlock	
Gear ratios	1st	3.06	
	2nd	1.63	
	3rd	1.00	
	4th	0.70	
	5th	Not Applicable	
	6th	Not Applicable	
	Reverse	2.29	
Final drive ratio	3.08 or 3.42		
Max. upshift vehicle speed - drive range km/h (mph)	3.08 - One - Two = 66	Two - Three = 122	Three - Four = 179
	3.42 - One - Two = 58	Two - Three = 116	Three - Four = 179
Max. upshift engine speed RPM	5700		
Max. kickdown speed - drive range km/h (mph)	3.08 - Four - Three = 175	Three - Two = 114	Two - One = 56
	3.42 - Four - Three = 175	Three - Two = 101	Two - One = 51
Min. overdrive speed km/h (mph)	74 (46)		
Torque converter	Type	Three Element with Converter Clutch	
	Torus design	Full Function	
	Number of elements	Three	
	Max. ratio at stall	1.6	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	245 mm	
Capacity factor "K"	122 (w/3.08 axle) 163 (w/3.42 axle)		
Pump type	Variable Displacement Vane		
Lubricant	Capacity refill L (pt.)	4.8 (10)	
	Type recommended	Dexron III	
Oil cooler (std., opt., N.A., internal, external, air, liquid)	Standard, Integral with Radiator, Liquid		
Transmission mass kg (lbs.) & case material**	75.9 (167) Wet, Aluminum		

All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

* Input speed $\propto \sqrt{\text{torque}}$

** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

5.7 LITER V8
 LS1

Automatic Transmission/Transaxle

Trade Name		Hydra-Matic 4L60E	
Type and special features (describe)		Four-Speed Rear Wheel Drive Electronically Controlled Automatic Overdrive Transmission with Torque Converter Clutch	
Shift mechanics		Hydraulic Clutches/Electronic Controls	
Gear selector	Location (column, floor, other)	On-Floor Console	
	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1	
	Shift interlock (yes, no, describe)	Yes, Brake Interlock	
Gear ratios	1st	3.06	
	2nd	1.63	
	3rd	1.00	
	4th	0.70	
	5th	Not Applicable	
	6th	Not Applicable	
	Reverse	2.29	
Final drive ratio		2.73 and 3.23	
Max. upshift vehicle speed - drive range km/h (mph)		2.73 - One - Two = 77 Two - Three = 150 Three - Four = 241 3.23 - One - Two = 58 Two - Three = 117 Three - Four = 203	
Max. upshift engine speed RPM		6000	
Max. kickdown speed - drive range km/h (mph)		2.73 - Four - Three = 229 Three - Two = 138 Two - One = 47 3.23 - Four - Three = 190 Three - Two = 108 Two - One = 50	
Min. overdrive speed km/h (mph)		2.73 Axle - 43 (27); 3.23 Axle 51 (32)	
Torque converter	Type	Three Element with Converter Clutch	
	Torus design	Full Function	
	Number of elements	Three	
	Max. ratio at stall	1.91	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	300 mm	
Capacity factor "K"	100		
Pump type		Variable Displacement Vane	
Lubricant	Capacity refill L (pt.)	4.8 (10)	
	Type recommended	Dexron III	
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral with Radiator, Liquid	
Transmission mass kg (lbs.) & case material**		83 (184) Wet, Aluminum	

All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

* Input speed + $\sqrt{\text{torque}}$

** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.8 LITER V6
 L36

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)

Axle ratio (or overall top gear ratio)	(M49/GU5) 3.23	(M30/GU4) 3.08	(M30/GU6) 3.42
Ring gear o.d.	7.625	7.625	7.625
No. of teeth	Pinion	13	12
	Ring gear	42	41

Rear Axle Unit

Description	Salisbury/Beam HSG		
Limited slip differential (type)	Helical		
Drive pinion	Type	Hypoid	
	Offset	1.50"	
No. of differential pinions	Two		
Pinion / differential	Adjustment (shim, etc.)	Shim	
	Beangng adjustment	Shim	
Driving wheel beangng (type)	Cylindrical Roller Direct on Shafts, Drawn Cup		
Lubricant	Capacity L (pt.)	1.66 (3.5)	
	Type recommended	GM Lube # 9986115 w/Four Ounces of 9985412	

Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)	American Axle and Manufacturing Straight Tube, Internal Damper and External Damper		
Outer diam. x length* x wall thickness	Manual 4-speed transmission	Not Applicable	
	Manual 5-speed transmission	69.9 x 1057.0 x 1.65 mm (2.75 x 41.6 x 0.065 in.) *	
	Manual 6-speed transmission	Not Applicable	
	Overdrive	Not Applicable	
	Automatic transmission	69.9 x 1057.0 x 1.65 mm (2.75 x 41.6 x 0.065 in.) *	
Intermediate beangng	Type (plain, anti-friction)	Anti-Friction	
	Lubncation (fitting, prepack)	Prepack	
Slip yoke	Type	Splined	
	Number of teeth	27	
	Spline o.d.	29.87 mm (1.176 in.)	
Universal joints	Make and mfg. no.	Front	American Axle & Manufacturing, S-44
		Rear	American Axle & Manufacturing, S-44
	Number used	Two	
	Type (ball and trunnion, cross)	Cross, Also Cross Groove Joint Used in Center Pre-Packed	
	Rear attach (u-bolt, clamp, etc.)	Straps & Belts	
Bearing	Type (plain, anti-friction)	Anti-Friction	
	Lubncation (fitting, prepack)	Pre-Packed	
Drive taken through (torque tube, arms or springs)	Propshaft Assembly		
Torque taken through (torque tube, arms or springs)	Torque Arm Assembly		

* Centerline to centerline of universal joints, or to centerline of rear attachment.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (#) _____

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8
Engine Code	LS1

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)

Axle ratio (or overall top gear ratio)	(M30/GU2) 2.73	(M30/GU5) 3.23	(MM6/GU6) 3.42
Ring gear o.d.	7.625	7.625	7.625
No. of teeth	Pinion	15	12
	Ring gear	41	41

Rear Axle Unit

Description	Salisbury/Beam Housing	
Limited slip differential (type)	Helical	
Drive pinion	Type	Hypoid
	Offset	38.1 (1.50)
No. of differential pinions	Two	
Pinion / differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)	Cylindrical Roller Direct on Shafts, Drawn Cup	
Lubricant	Capacity L (pt.)	1.66 (3.5)
	Type recommended	GM Lube #9986115 W/Four Ounces of #9985412

Propeller Shaft - Rear Wheel Drive

Manufacturer	Straight Tube, Internal Damper and External Damper		
Type (straight tube, tube-in-tube, internal-external damper, etc.)			
Outer diam. x length* x wall thickness	Manual 4-speed transmission	Not Available	
	Manual 5-speed transmission	Not Available	
	Manual 6-speed transmission	76.2 x 1039.9 x 2.11 mm (3.0 x 40.9 x 0.083 in.)*/69.9 x 1057.0 x 1.65 mm	
	Overdrive		
Intermediate bearing	Automatic transmission	69.9 x 1057.0 x 1.65 mm (2.75 x 41.6 x 0.065 in.)*/76.2 x 1039.9 x 2.11m (No IT)	
	Type (plain, ammonia)	Not Available	
Slip yoke	Lubrication (fitting, prepack)	--	
	Type	Splined	
	Number of teeth	27 Teeth	
Universal joints	Spline o.d.	29.87 mm (1.176 in.)	
	Make and mfg. no.	Front	American Axle, S-44
		Rear	American Axle, S-44
	Number used	Two	
	Type (ball and crown, cross)	Cross	
	Rear attach (universal clamp, etc.)	Strap & Bolt	
Bearing	Type (plain, anti-friction)	Anti-Friction	
	Lubrication (fitting, prepack)	Prepacked	
Drive taken through (torque tube, arms or springs)	Propeller Shaft Assembly		
Torque taken through (torque tube, arms or springs)	Torque Arm Assembly		

* Centerline to centerline of universal joints, or to centerline of rear attachment.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

3.8 LITER V6
 L36
 F41

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available	Not Applicable	
	Manual/automatic control	Not Applicable	
	Type (air/hydraulic)	Not Applicable	
	Primary/assist spring	Not Applicable	
	Rear only/4 wheel leveling	Not Applicable	
	Single/dual rate spring	Not Applicable	
	Single/dual ride heights	Not Applicable	
	Provision for jacking	Jacking Provisions on Rocker Panels	
Shock absorber damping controls	Standard/option/not available	Not Applicable	
	Manual/automatic control	Not Applicable	
	Number of damping rates	Not Applicable	
	Type of actuation (manual/electric motor/air, etc.)	Not Applicable	
	Sensors	Lateral acceleration	Not Applicable
		Deceleration	Not Applicable
Acceleration		Not Applicable	
Road surface		Not Applicable	
Shock absorber (front & rear)	Type	Direct, Monotube, Hydraulic with High Pressure Gas Charge	
	Make	Delphi - E/DeCarbon	
	Piston diameter	46 mm (1.81 in.) Front; 36 mm (1.42 in.), Rear	
	Rod diameter	14 mm (0.55 in.) Front; 10 mm, Rear	

Suspension - Front

Type and description		Independent w/Coil Springs, SLA (With Coil Over Shock) Gas-Charged Shocks
Travel	Full jounce (define load condition)	Maximum Effective Jounce from Curb, 93.5 mm (3.68 in.)
	Full rebound	Maximum Effective Rebound from Curb, 91.5 mm (3.60 in.)
Spring	Type (coil, leaf, other & material)	Coil, Steel
	Insulators (type & material)	Rubber (Top, Integral Part of Top Mount, Plastic Bottom)
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	250.7 mm Checking Height 85.0 I.D.
	Spring rate N/mm (lb./in.)	45.5 N/mm
	Rate at wheel N/mm (lb./in.)	Spring Rate x (0.346)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bartube, wall thickness	Tubular Steel - 28 mm (1.18 in.) O.D. Painted; 4.2 mm Wall

Suspension - Rear

Type and description		Salisbury Axle w/Torque Arm, Trailing Arm, Track Bar, Coil Springs
Travel	Full jounce (define load condition)	108.0 mm From Curb
	Full rebound	85.0 mm From Curb
Spring	Type (coil, leaf, other & material)	Coil-Steel
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	248.2 mm Checking Height 108.0 I.D.
	Spring rate N/mm (lb./in.)	19.5 N/mm (111.4)
	Rate at wheel N/mm (lb./in.)	0.98 x Spring Rate
	Insulators (type & material)	Rubber Isolated
	If leaf	No. of leaves
Shackle (comp. or tens.)		Not Applicable
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bartube, wall thickness	Steel, 15.0 mm Bar
Track bar (type)		"U" Section w/ Rubber Bushings

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

5.7 LITER V8
 LS1 (FE2)

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available		Not Applicable	
	Manual/automatic control		Not Applicable	
	Type (air/hydraulic)		Not Applicable	
	Primary/assist spring		Not Applicable	
	Rear only/4 wheel leveling		Not Applicable	
	Single/dual rate spring		Not Applicable	
	Single/dual ride heights		Not Applicable	
	Provision for jacking		Jacking Provisions on Rocker Panels	
Shock absorber damping controls	Standard/option/not available		Not Applicable	
	Manual/automatic control		Not Applicable	
	Number of damping rates		Not Applicable	
	Type of actuation (manual/electric motor/air, etc.)		Not Applicable	
	Sensors	Lateral acceleration		Not Applicable
		Deceleration		Not Applicable
Acceleration		Not Applicable		
Road surface		Not Applicable		
Shock absorber (front & rear)	Type		Direct, Monotube, Hydraulic with High Pressure Gas Charge	
	Make		Delphi - E/DeCarbon	
	Piston diameter		46 mm (1.81 in.) Front; 36 mm (1.42 in.), Rear	
	Rod diameter		14 mm (0.55 in.) Front; 10 mm, Rear	

Suspension - Front

Type and description		Independent w/Coil Springs, SLA (With Coil Over Shock) Gas-Charged Shocks
Travel	Full jounce (define load condition)	Maximum Effective Jounce from Curb, 93.5 mm (3.68 in.)
	Full rebound	Maximum Effective Rebound from Curb, 91.5 mm (3.60 in.)
Spring	Type (coil, leaf, other & material)	Coil, Steel
	Insulators (type & material)	Rubber (Top, Integral Part of Top Mount, Plastic Bottom)
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	250.7 mm Checking Height 85.0 I.D.
	Spring rate N/mm (lb./in.)	51 (291)
	Rate at wheel N/mm (lb./in.)	Spring Rate x (0.346)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bar/tube, wall thickness	Tubular Steel - 30.0 mm (1.18 in.) O.D. Painted; 4.5 mm Wall

Suspension - Rear

Type and description		Salisbury Axle w/Torque Arm, Trailing Arm, Track Bar, Coil Springs	
Travel	Full jounce (define load condition)	108.0 mm From Curb	
	Full rebound	85.0 mm From Curb	
Spring	Type (coil, leaf, other & material)	Coil-Steel	
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	248.2 mm Checking Height 108.0 I.D.	
	Spring rate N/mm (lb./in.)	19.9 (113.7)	
	Rate at wheel N/mm (lb./in.)	0.98 x Spring Rate	
	Insulators (type & material)		Rubber Isolated
	if leaf	No. of leaves	Not Applicable
		Shackle (comp. or tens.)	Not Applicable
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & O.D. bar/tube, wall thickness	Steel Bar, 19.0 mm O.D.	
Track bar (type)		"U" Section w/ Rubber Bushings	

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (#) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

5.7 LITER V8
 LS1 (FE4)

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available	Not Applicable	
	Manual/automatic control	Not Applicable	
	Type (air/hydraulic)	Not Applicable	
	Primary/assist spring	Not Applicable	
	Rear only/4 wheel leveling	Not Applicable	
	Single/dual rate spring	Not Applicable	
	Single/dual ride heights	Not Applicable	
	Provision for jacking	Jacking Provisions on Rocker Panels	
Shock absorber damping controls	Standard/option/not available	Not Applicable	
	Manual/automatic control	Not Applicable	
	Number of damping rates	Not Applicable	
	Type of actuation (manual/ electric motor/air, etc.)	Not Applicable	
	Sensors	Lateral acceleration	Not Applicable
		Deceleration	Not Applicable
Acceleration		Not Applicable	
Road surface		Not Applicable	
Shock absorber (front & rear)	Type	Direct, Monotube, Hydraulic with High Pressure Gas Charge	
	Make	Delphi - E/DeCarbon	
	Piston diameter	46 mm (1.81 in.) Front; 36 mm (1.42 in.) Rear - Convertible; 46mm (1.81 in.) Rear - Coupe	
	Rod diameter	14 mm (0.55 in.) Front; 10 mm Rear	

Suspension - Front

Type and description		Independent w/Coil Springs, SLA (With Coil Over Shock) Gas-Charged Shocks
Travel	Full jounce (define load condition)	Maximum Effective Jounce from Curb, 93.5 mm (3.68 in.)
	Full rebound	Maximum Effective Rebound from Curb, 91.5 mm (3.60 in.)
Spring	Type (coil, leaf, other & material)	Coil, Steel
	Insulators (type & material)	Rubber (Top, Integral Part of Top Mount, Plastic Bottom)
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	250.7 mm Checking Height 85.0 I.D.
	Spring rate N/mm (lb./in.)	51 (291) Convertible; 63 (360) Coupe
	Rate at wheel N/mm (lb./in.)	Spring Rate x (0.346)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bar/tube, wall thickness	Tubular Steel - 30.0 mm (1.18 in.) O.D. Painted; 4.8 mm Wall

Suspension - Rear

Type and description		Salisbury Axle w/Torque Arm, Trailing Arm, Track Bar, Coil Springs
Travel	Full jounce (define load condition)	108.0 mm From Curb
	Full rebound	85.0 mm From Curb
Spring	Type (coil, leaf, other & material)	Coil-Steel
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	248.2 mm Checking Height 108.0 I.D.
	Spring rate N/mm (lb./in.)	19.9 (113.7) Convertible; 23-30 (131-171) Variable Rate, Coupe
	Rate at wheel N/mm (lb./in.)	0.98 x Spring Rate
	Insulators (type & material)	Rubber Isolated
	If leaf	No. of leaves Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bar/tube, wall thickness	Steel Bar, 19.0 mm O.D.
Track bar (type)		"U" Section w/ Rubber Bushings

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

5.7 LITER V8
 LS1 (FE7)

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available	Not Applicable	
	Manual/automatic control	Not Applicable	
	Type (air/hydraulic)	Not Applicable	
	Primary/assist spring	Not Applicable	
	Rear only/4 wheel leveling	Not Applicable	
	Single/dual rate spring	Not Applicable	
	Single/dual ride heights	Not Applicable	
	Provision for jacking	Jacking Provisions on Rocker Panels	
Shock absorber damping controls	Standard/option/not available	Option	
	Manual/automatic control	Manual	
	Number of damping rates	Front: 1.75 Turns Rebound - Six Clicks Jounce Rear: 1.25 Turns Rebound - Six Clicks Jounce	
	Type of actuation (manual/electric motor/air, etc.)	Manual	
	Sensors	Lateral acceleration	Not Applicable
		Deceleration	Not Applicable
		Acceleration	Not Applicable
		Road surface	Not Applicable
Shock absorber (front & rear)	Type	Direct, Twin Tube, Hydraulic with Low Pressure Gas Charge, Double Adjustable	
	Make	Koni	
	Piston diameter	33 mm Frt.	
	Rod diameter	15.75 mm Front; 15.75 mm Rear	

Suspension - Front

Type and description		Independent w/Coil Springs, SLA (With Coil Over Shock) Gas-Charged Shocks
Travel	Full jounce (define load condition)	Maximum Effective Jounce from Curb, 93.5 mm (3.68 in.)
	Full rebound	Maximum Effective Rebound from Curb, 91.5 mm (3.60 in.)
Spring	Type (coil, leaf, other & material)	Coil, Steel
	Insulators (type & material)	Rubber (Top, Integral Part of Top Mount, Plastic Bottom)
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	250.7 mm Checking Height 85.0 I.D.
	Spring rate N/mm (lb./in.)	63 (360)
	Rate at wheel N/mm (lb./in.)	Spring Rate x (0.346)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bar/tube, wall thickness	Tubular Steel - 32 mm (1.25 in.) O.D. Painted; 4.8 mm Wall

Suspension - Rear

Type and description		Salisbury Axle w/Torque Arm, Trailing Arm, Track Bar, Coil Springs	
Travel	Full jounce (define load condition)	108.0 mm From Curb	
	Full rebound	85.0 mm From Curb	
Spring	Type (coil, leaf, other & material)	Coil-Steel	
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	248.2 mm Checking Height 108.0 I.D.	
	Spring rate N/mm (lb./in.)	23-30 (131-171) Variable Rate	
	Rate at wheel N/mm (lb./in.)	0.98 x Spring Rate	
	Insulators (type & material)	Rubber Isolated	
	If leaf	No. of leaves	Not Applicable
		Shackle (comp. or tens.)	Not Applicable
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & O.D. bar/tube, wall thickness	Steel Bar, 19.0 mm O.D.	
Track bar (type)		"U" Section w/ Rubber Bushings	

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

3.8 LITER V6
 L36

Brakes - Service

Description		Front & Rear Disc Brakes		
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc		
	Rear (disc or drum)	Disc		
Valving type (proportion, delay, metering, other)		Electronic Proportioning Front/Rear Split, Failure Warning		
Power brake (std., opt., n.a.)		Standard		
Booster type (remote, integral, vac., hyd., etc.)		Compact Tandem Vacuum, 220 mm (8.7 in.)		
Vacuum	Source (inline, pump, etc.)	Inline		
	Reservoir (volume in. ³)	Not Applicable		
	Pump-type (elec., gear or belt driven)	Not Applicable		
Traction assist	Operational speed range	Optional - 0 KPH (0 MPH), VMAX		
	Type (engine or brake intervention)	Electronic Throttle Control and Spark Retard		
Antilock device	Front/rear (std., opt., n.a.)	Standard		
	Manufacturer	Robert Bosch Corporation		
	Type (electronic, mech.)	Electro-Mechanical		
	Number sensors or circuits	Three		
	Number antilock hydraulic circuits	Three		
	Integral or add-on system	Remote Add-On		
	Yaw control (yes, no)	Yes (In Software)		
Hyd. power source (elec., vac., mtr., pwr., strg.)	Motor Pump			
Effective area cm ² (in. ²)*		Total: 373.6 (57.9) = F/262.4 (40.7) & R/111.2 (17.2)		
Gross Lining area cm ² (in. ²)** (F/R)		Total: 385.4 (59.7) = F/274.2 (37.8) & R/111.2 (17.2)		
Swept area cm ² (in. ²)** (F/R)		Total: 2633 (407.6) = F/1539 (238.6) & R/1094 (169)		
Rotor	Outer working diameter	F/R	F/298.6 mm (11.8 in.); R/301.0 mm (11.85 in.)	
	Inner working diameter	F/R	F/200.4 mm (7.89 in.); R/236.2 mm (9.30 in.)	
	Thickness	F/R	F/32.2 mm (1.27 in.); R/26.0 (1.02 in.)	
	Material & type (vented/solid)	F/R	F/Cast Iron Vented; R/ Cast Iron Vented	
Drum	Diameter & width	F/R	Not Applicable	
	Type and material	F/R	Not Applicable	
Wheel cylinder bore		F/Dual Bore 45 mm (1.77 in.) = 63.5mm (2.5 in.) Equivalent R/45 mm (1.77 in.)		
Master cylinder	Bore/stroke	F/R	Bore: 25.4 mm (1.0 in.)	
Pedal arc ratio		3.25:1		
Line press. at 445 N (100 lb.) pedal load (kPa (psi))		-		
Lining clearance		F/R	Self-Adjusting/Self-Adjusting	
Brake lining	Front wheel	Bonded or riveted (rvts/seg.)		Integrally Molded
		Rivet Size		Not Applicable
		Manufacturer		Akebono
		Lining code *****		AKNS166H FF
		Material		Non Asbestos Organic (NAO)
		****	Primary or out-board	16.8 x 4.88 x 0.96 cm (6.61 x 1.92 x 0.378 in.)
		Size	Secondary or in-board	16.8 x 4.88 x 0.96 cm (6.61 x 1.92 x 0.378 in.)
	Shoe thickness (no lining)		5.0 mm (0.197 in.)	
	Rear wheel	Bonded or riveted (rvts/seg.)		Integrally Molded
		Manufacturer		Bendix Mintex
		Lining code *****		DC136EE
		Material		Non Asbestos Organic (NAO)
		****	Primary or out-board	10.0 x 3.24 x 1.05 cm. (3.93 x 1.28 x 0.41 in.)
		Size	Secondary or in-board	10.0 x 3.24 x 1.05 cm. (3.93 x 1.28 x 0.41 in.)
Shoe thickness (no lining)		6.0 mm (0.24 in.)		

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.
 *** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
 (Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)
 **** Size for drum brakes includes length x width x thickness. *****Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

5.7 LITER V8
 LS1

Brakes - Service

Description		Front & Rear Disc Brakes		
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc		
	Rear (disc or drum)	Disc		
Valving type (proportion, delay, metering, other)		Remote Proportioning Front/Rear Split, Failure Warning		
Power brake (std., opt., n.a.)		Standard		
Booster type (remote, integral, vac., hyd., etc.)		Compact Tandem Vacuum, 220 mm (8.7 in.)		
Vacuum	Source (inline, pump, etc.)	Inline		
	Reservoir (volume in. ³)	Not Applicable		
	Pump-type (elec., gear or belt driven)	Not Applicable		
Traction assist	Operational speed range	Optional - 0 KPH (0 MPH), VMAX		
	Type (engine or brake intervention)	Brake Intervention, Throttle Pull-Back, and Spark Retard		
Antilock device	Front/rear (std., opt., n.a.)	Standard		
	Manufacturer	Robert Bosch Corporation		
	Type (electronic, mech.)	Electro-Mechanical		
	Number sensors or circuits	Three (Four W/Optional Traction Control)		
	Number antilock hydraulic circuits	Three (Four W/Optional Traction Control)		
	Integral or add-on system	Remote Add-On		
	Yaw control (yes, no)	Yes (In Software)		
Hyd. power source (elec., vac., mtr., pwr., strg.)		Motor Driven		
Effective area cm ² (in. ²)*		Total: 373.6 (57.9) = F/262.4 (40.7) & R/111.2 (17.2)		
Gross Lining area cm ² (in. ²)** (F/R)		Total: 385.4 (59.7) = F/274.2 (37.8) & R/111.2 (17.2)		
Swept area cm ² (in. ²)** (F/R)		Total: 2633 (407.6) = F/1539 (238.6) & R/1094 (169)		
Rotor	Outer working diameter	F/R	F/298.6 mm (11.8 in.); R/301.0 mm (11.85 in.)	
	Inner working diameter	F/R	F/200.4 mm (7.89 in.); R/236.2 mm (9.30 in.)	
	Thickness	F/R	F/32.2 mm (1.27 in.); R/26.0 (1.02 in.)	
	Material & type (vented/solid)	F/R	F/Cast Iron Vented; R/ Cast Iron Vented	
Drum	Diameter & width	F/R	Not Applicable	
	Type and material	F/R	Not Applicable	
Wheel cylinder bore		F/Dual Bore 45 mm (1.77 in.) = 63.5mm (2.5 in.) Equivalent R/45 mm (1.77 in.)		
Master cylinder	Bore/stroke	F/R	Bore: 25.4 mm (1.0 in.)	
Pedal arc ratio		3.25:1		
Line press. at 445 N (100 lb.) pedal load (kPa (psi))		-		
Lining Clearance		F/R	Self-Adjusting/Self-Adjusting	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Integrally Molded
		Rivet Size		Not Applicable
		Manufacturer		Akebono
		Lining code *****		AKNS166H FF
		Material		Non Asbestos Organic (NAO)
		Size	Primary or out-board	16.8 x 4.88 x 0.96 cm (6.61 x 1.92 x 0.378 in.)
		Size	Secondary or in-board	16.8 x 4.88 x 0.96 cm (6.61 x 1.92 x 0.378 in.)
	Shoe thickness (no lining)		5.0 mm (0.197 in.)	
	Rear wheel	Bonded or riveted (rivets/seg.)		Integrally Molded
		Manufacturer		Bendix Mintex
		Lining code *****		DC136EE
		Material		Non Asbestos Organic (NAO)
		Size	Primary or out-board	10.0 x 3.24 x 1.05 cm. (3.93 x 1.28 x 0.41 in.)
		Size	Secondary or in-board	10.0 x 3.24 x 1.05 cm. (3.93 x 1.28 x 0.41 in.)
Shoe thickness (no lining)		6.0 mm (0.24 in.)		

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.
 *** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
 (Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)
 **** Size for drum brakes includes length x width x thickness. *****Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

1FP87
 2-Door Coupe Plain Back Special

Tires And Wheels (Standard)

Tires	Size (service description)		P215/60R-16 BW (AL2 94T)
	Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial Touring Tire
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	210 (30)
		Rear kPa (psi)	210 (30)
Rev./mile at 70 km/h (45 mph)		495	
Wheels	Type & material		Steel
	Rim (size & flange type)		16 x 7.5 J
	Wheel offset		55 mm
	Attachment	Type (bolt or stud & nut)	Stud
		Circle diameter	120.7 mm (4.75 in.)
Number & size		5-M12 x 1.5 - 6H - thd. (Metric)	
Spare	Tire and wheel		16 x 4 T135/60R16
	Storage position & location (describe)		Vertically Adjacent to Right Hand Quarter Panel

Tires And Wheels (Optional)

Tire size (service description)		P235/55R16 (AL2 96T)
Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial Touring Tire
Wheel (type & material)		Cast Aluminum
Rim (size, flange type and offset)		16 x 8 J. 55 mm
Tire size (service description)		P215/60R16 (AL3 94H)
Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial Performance
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		16 x 8 J. 55 mm
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel size		
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

Brakes - Parking

Type of control		Hand Lever Application - Push Button Release - Self-Adjusting
Location of control		Right Side of Floor Console
Operates on		Operates on Drum Section Inside Rotor
If separate from service brakes	Type (internal or external)	Internal
	Drum diameter	190 mm
	Lining size (length x width x thickness)	210 x 23 x 3.5

@ Recommended with NW9 Acceleration Slip Regulation (AL3 - All Season Performance) 505 Rev/Mile at 70 km/h (45 mph)

(*) Directional Tread, Asymmetrical (+) Non "All Season" Tires 505 Rev/Mile at 70 km/h (45 mph)

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/OR
 Engine Code/Description

1FP87
 2-Door Coupe Plain Back Special (w/Z28)

Tires And Wheels (Standard)

Tires	Size (service description)		P235/55R16 BW (AL2 96T)
	Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial Touring Tire
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	210 (30)
		Rear kPa (psi)	210 (30)
Rev. Mile at 70 km/h (45 mph)		495	
Wheels	Type & material		Cast Aluminum
	Rim (size & flange type)		16 x 8 J
	Wheel offset		55 mm
	Attachment	Type (bolt or stud & nut)	Stud
		Circle diameter	120.7 mm (4.75 in.)
Number & size		5-M12 x 1.5 - 6H - thd. (Metric)	
Spare	Tire and wheel		16 x 4 T135/60R16
	Storage position & location (describe)		Vertically Adjacent to Right Hand Quarter Panel

Tires And Wheels (Optional)

Tire size (service description)		P245/50ZR16 * (+)
Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial Highway, High-Performance
Wheel (type & material)		High-Performance, Cast Aluminum
Rim (size, flange type and offset)		16 x 8 J, 55 mm
Tire size (service description)		@ P245/50ZR16 AL3
Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial Highway High-Performance
Wheel (type & material)		High-Performance Cast Aluminum
Rim (size, flange type and offset)		16 x 8 J, 55 mm
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel size		
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

Brakes - Parking

Type of control		Hand Lever Application - Push Button Release - Self-Adjusting
Location of control		Right Side of Floor Console
Operates on		Operates on Drum Section Inside Motor
If separate from service brakes	Type (internal or external)	Internal
	Drum diameter	190 mm
	Lining size (length x width x thickness)	210 x 23 x 3.5

@ Recommended with NW9 Acceleration Slip Regulation
 (AL3 - All Season-Performance) 505 Rev/Mile at 70 km/h (45 mph)

(*) Directional Tread, Asymmetrical (+) Non "All Season" Tires
 505 Rev/Mile at 70 km/h (45 mph)

MVMA Specifications

Vehicle Line CAMARO
 Model Year '999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

1FP87
 2-Door Coupe Plain Back Special

Steering

Manual (std., opt., n.a.)		Not Available		
Power (std., opt., n.a.)		Standard		
Speed-sensitive (std., opt., n.a.)		Not Available		
4-wheel steering (std., opt., n.a.)		Not Available		
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt, Five Position		
	Manufacturer	Delphi Saginaw Steering System		
	(std., opt., n.a.)	Standard		
Wheel diameter** (W9) SAE J1100	Manual	Not Available		
	Power	375.0 mm (14.8 in.) Rim		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	12.14 m (39' 10") Left; 12.9 m (42' 5-1/2") Right 12.08 m (39' 7-1/2") Left; 12.78 m (41' 11") Right (Z28)	
		Curb to curb (l. & r.)	11.56 m (37' 11-1/8") Left; 12.39 m (40' 7-5/8") Right 11.52 m (37' 9-5/8") Left; 12.22 m (40' 1-1/8") Right (Z28)	
	Inside rear	Wall to wall (l. & r.)	6.77 m (22' 2-1/2") Left; 7.67 m (25' 2") Right 6.72 m (22' 1/2") Left; 7.43 m (24' 4-1/2") Right (Z28)	
		Curb to curb (l. & r.)	6.88 m (22' 6-15/16") Left; 7.77 m (25' 5-15/16") Right 6.79 m (22' 3-1/2") Left; 11.52 m (37' 9-5/8") Right (Z28)	
Scrub Radius*		Not Applicable		
Manual	Gear	Type	Not Applicable	
		Manufacturer	Not Applicable	
		Ratios	Not Applicable	
	No. wheel turns (stop to stop)	Not Applicable		
Power	Type (coaxial, elec. hyd., etc.)	Hydraulic		
	Manufacturer	Delphi Saginaw Steering System		
	Gear	Type	Rack & Pinion	
		Ratios	Overall	16.9:1 (F41) 14.4:1 (FE2)
	Pump (drive)	Belt		
	No. wheel turns (stop to stop)	2.67 (F41) 2.28 (FE2)		
Linkage	Type	End Take-Off Rack & Pinion		
	Location (front or rear of wheels, other)	Front		
	Tie rods (one or two)	Two		
Steering axis	Inclination at camber (deg.)	Not Available		
	Bearings (type)	Upper	Ball Stud	
		Lower	Ball Stud	
		Thrust	Not Available	
Steering spindle/knuckle & joint type		Steering Knuckle w/Spherical Joints		

* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

** See Page 23.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Wheel Alignment

(Assume Measurements are Done on Hunter Equipment or Equivalent)

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+4.4 (±) 0.5 Cross Within 0.7
		Camber (deg.)	+0.4 (±) 0.5 Cross Within 0.7
		Toe-in outside track mm (in.)	0.0 (±) 0.2
	Service reset*	Caster (deg.)	+4.4 (±) 0.5 Cross Within 0.5
		Camber (deg.)	+0.4 (±) 0.5 Cross Within 0.5
		Toe-in mm (in.)	0.0 (±) 0.1
	Periodic M.V. inspection	Caster (deg.)	+4.4 (±) 0.5
		Camber (deg.)	+0.4 (±) 0.5
		Toe-in mm (in.)	0.0 (±) 0.2
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Serviceable
		Toe-in outside track mm (in.)	Not Serviceable
	Service reset*	Camber (deg.)	Not Serviceable
		Toe-in mm (in.)	Not Serviceable
	Periodic M.V. insp.	Camber (deg.)	Not Serviceable
		Toe-in mm (in.)	Not Serviceable

* Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analog, Standard	
	Trip odometer (std., opt., n.a.)	Standard (LCD for Season & Trip Odometer)	
Head-up display	Standard, optional, not available		Not Applicable
	Type	Secondary, opto-electronic	Not Applicable
	Speedometer	Digital	Not Applicable
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges	Not Applicable
	Brightness control	Day / night mode, adjustable	Not Applicable
EGR maintenance indicator		Not Available	
Charge indicator	Type	Analog Gage, Standard	
	Warning device (light, audible)	Check Gages Telltale	
Temperature indicator	Type	Analog Gage, Standard	
	Warning device (light, audible)	Check Gages Telltale	
Oil pressure indicator	Type	Analog Gage, Standard	
	Warning device (light, audible)	Check Gages Telltale	
Fuel indicator	Type	Analog Gage, Standard	
	Warning device (light, audible)	Check Gages Telltale	
Windshield wiper	Type (standard)	Standard - Intermittent Pulse	
	Type (optional)	Not Available	
	Blade length	24 in.	
	Swept area cm ² (in. ²)	7154.8 (1109)	
Windshield washer	Type (standard)	Manual Control	
	Type (optional)	Not Available	
	Fluid level indicator (light, audible)	Not Available	
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Available	
Horn	Type	"High" Note and "Low" Note Diaphragm Type	
	Number used	Two	
Other			

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Code/Description

3.8 LITER V6
L36

Electrical - Supply System

Battery	Manufacturer	Delphi - E
	Model, std., (opt.)	75-690. Standard. 19001808. Cat # 674
	Voltage	12
	Amps at 0° F. cold crank	690
	Minutes-reserve capacity	90 Min. @ 80° F
	Amps/hrs.-20 hr. rate	54 Amp Hours
	Location	Engine Compartment Front Right Corner
Alternator	Manufacturer	Delphi - E
	Rating (idle/max. rpm)	105 Amps
	Ratio (alt. crank/rev.)	2.75 : 1
	Output at idle (rpm. park)	42 Amps
Regulator	Optional (type & rating)	Not Applicable
	Type	Integral with Alternator

Electrical - Starting System

Motor	Manufacturer	Delco Remy America
	Current drain _____ °C (°F)	400 Amps
	Power rating kw (hp)	1.5 (2.0)
Motor drive	Engagement type	Solenoid Actuated. Positive Engagement
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Standard	
	Other (specify)	Not Applicable	
Coil	Manufacturer	Delphi	
	Model	Inductive	
	Current	Engine stopped - A	Not Applicable
		Engine idling - A	Not Applicable
Spark plug	Manufacturer	Delphi	
	Model	41-921	
	Thread (mm)	14	
	Tightening torque N-m (lb. ft.)	10-20 (7-15)	
	Gap	1.5 mm	
Distributor	Number per cylinder	One	
	Manufacturer	Not Applicable	
	Model	Not Applicable	

Electrical - Suppression

Locations & type	Alternator - Internal Capacitor Suppression
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MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Code/Description	5.7 LITER V8 LS1
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Electrical - Supply System

Battery	Manufacturer	Delphi - E
	Model, std., (opt.)	75-525, Standard 19001806, Cat. # 670
	Voltage	12
	Amps at 0° F. cold crank	525
	Minutes-reserve capacity	90 min. @ 80° F.
	Amps/mrs.-20 hr. rate	54 Amp Hours
	Location	Engine Compartment Front Right Corner
Alternator	Manufacturer	Delphi
	Rating (idle/max. rpm)	102 Amps
	Ratio (alt. crank/rev.)	3.15:1
	Output at idle (rpm, park)	48 Amps
	Optional (type & rating)	Not Applicable
Regulator	Type	Integral with Alternator

Electrical - Starting System

Motor	Manufacturer	Delco Remy America
	Current drain _____ °C (°F)	450 Amps
	Power rating kw (hp)	1.7 (2.3)
Motor drive	Engagement type	Solenoid Actuated, Positive Engagement
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Standard	
	Other (specify)	Coil - Near Plug	
Coil	Manufacturer	Nippondenso	
	Model	5-099700-456	
	Current	Engine stopped - A	
		Engine idling - A	
Spark plug	Manufacturer	Delphi	
	Model	41-931	
	Thread (mm)	14.0	
	Tightening torque N-m (lb. ft.)	9-20 (7-15)	
	Gap	1.5 mm	
	Number per cylinder	One	
Distributor	Manufacturer	Not Applicable	
	Model	Not Applicable	

Electrical - Suppression

Locations & type	Internal Generator Capacitor, Non-Metallic High-Tension Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal A/C Blower Motor By-Pass Capacitor & A/C Compression Diode, with Radio Provisions; Fuse Block Capacitor and on "Heater Only", Blower Motors and Coax Capacitor.
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MVMA Specifications

Vehicle Line CAMARO
 Model Year '999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

Body

Structure	Full Unitized Steel Construction with Composite Closures. Fenders and Roof Outer Skin. Cowl, Roof Substructure, Underbody and Body Side Frame Welded to Form Body Shell. Doors, Roof Substructure, Hood and Latch Lid Double Panel Construction.
Bumper system front - rear	Body Color Soft Fascia, Front Foam Energy Absorber with Heavy Gauge Reinforcement. Rear Honeycomb Energy Absorber with Composite Reinforcement.
Anti-corrosion treatment	Plastic Composite Panels, Two Sided Galvanized Metals and ELPO Coverage

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Waterborne Base Coat/Clear Coat	
Hood	Material & mass	Steel
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Gas Strut Assist
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Not Applicable
	Type (counterbalance, other)	Not Applicable
	Internal release control (elec., mech., n.a.)	Not Applicable
Hatchback lid	Material & mass	Glass/Sheet Molding Compound (SMC)
	Type (counterbalance, other)	Dual Gas Struts
	Internal release control (elec., mech., n.a.)	Electric Release Optional
Tailgate	Material & mass	Not Applicable
	Type (drop, lift, door)	Not Applicable
	Internal release control (elec., mech., n.a.)	Not Applicable
Vent window control (crank, friction, pivot, power)	Front	Not Available
	Rear	Not Applicable
Window regulator type (cable, tape, flex drive, etc.)	Front	Sector Drive
	Rear	Not Applicable
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket Molded Foam Pad
	Rear	Bucket Molded Foam Pad
	3rd seat	—
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Reclining Bucket Molded Foam Pad
	Rear	Folding Bench, Mechanical Foam Pad
	3rd seat	—

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Full Integral Body Frame, with Bolted-on Engine/Front Suspension Crossmember.
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MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.) Standard / Optional	First seat	Lap and Shoulder Belt, Standard	Not Applicable	Lap and Shoulder Belt, Standard
		Second seat	Lap and Shoulder Belt, Standard	Not Applicable	Lap and Shoulder Belt, Standard
		Third seat	Not Applicable	Not Applicable	Not Applicable
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt) Standard / Optional	First seat	Air Bag, Knee Bolster, Standard	Not Applicable	Air Bag, Knee Bolster, Standard
		Second seat	Not Applicable	Not Applicable	Not Applicable
		Third seat	Not Applicable	Not Applicable	Not Applicable
Glass		SAE Ref.No.			
Windshield glass exposed surface area cm ² (in. ²)		S1	14,182.58 (2,198.30)		
Side glass exposed surface area cm ² (in. ²) - total 2 sides		S2	3,150.29 (488.295)		
Backlight glass exposed surface area cm ² (in. ²)		S3	13,936.41 (2,160.15); 2,268 (353.3) Convertible		
Total glass exposed surface area cm ² (in. ²)		S4	31,269.28 (4,846.745); 19,600.87 (3,039.895) Convertible		
Windshield glass (type/thickness)			Curved - Laminated Plate		
Side glass (type/thickness)			Curved - Tempered Plate		
Backlight glass (type/thickness)			Curved - Tempered Plate		
Tinted (yes/no, location)			No		
Solar control (yes/no, coated/batched, location)			Yes, Batch, Windshield, Door Glass & Rear Hatch Glass		

Headlamps

Description (sealed beam, halogen, replaceable bulb, etc.)	Halogen, Replaceable Bulb - Four Lamp System
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	H4351
Quantity	Two
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	H4352
Quantity	Two

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued Revised (●)

METRIC (U.S. Customary)

Engine Code/Description

3.8 LITER V6
L36

Climate Control System

Air conditioning (std., opt., man., auto.)		Optional
Condenser	Type	Headered Tube & Center
	Eff. face area (sq. mm.)	246,519 sq. mm
	Fins per inch	17 fpi (3.0 k)
Evaporator	Type	Tube - Plate & Fin
	Eff. face area (sq. mm.)	46,141.9
	Fins per inch	14
Heater core	Material	Aluminum
	Eff. face area (sq. mm.)	30,864.7 sq. mm
	Fins per inch	38
Compressor	Type	5 Cylinder Variable Displacement
	Displacement (cc.)	151 cc (9.2 CID)
	Manufacturer	Delphi Hamson Thermal Systems
	A/C pulley ratio	Base 1.47:1
Accumulator	Type	Aluminum
	Height (mm.)	205.8 mm
	Diameter (mm.)	92.8 mm
Receiver	Type	Not Available
	Height (mm.)	Not Available
	Diameter (mm.)	Not Available
Refrigerant control (CCOT, TVS, etc.)		V5/OT
Heater water valve (yes / no)		No
Refrigerant (R - 12, R - 134a, etc.)		R134A
Charge level (lbs. - oz.)		1.50 lbs.
Cold engine lockout switch (yes / no)		No
Wide open throttle cutout switch (yes / no)		Yes

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Code/Description

5.7 LITER V8
 LS1

Climate Control System

Air conditioning (std., opt., std. , auto.)		Optional
Condenser	Type	Headered Tube & Center
	Eff. face area (sq. mm.)	246,519 sq. mm
	Fins per inch	17 fpi (3.0 k)
Evaporator	Type	Tube - Plate & Fin
	Eff. face area (sq. mm.)	46,141.9
	Fins per inch	14
Heater core	Material	Aluminum
	Eff. face area (sq. mm.)	30,864.7 sq. mm
	Fins per inch	38
Compressor	Type	7 Cylinder Variable Displacement
	Displacement (cc.)	179 cc (10.9 CID)
	Manufacturer	Delphi Harrison Thermal Systems
	A/C pulley ratio	1.47:1
Accumulator	Type	Aluminum
	Height (mm.)	205.8 mm
	Diameter (mm.)	92.8 mm
Receiver	Type	Not Available
	Height (mm.)	Not Available
	Diameter (mm.)	Not Available
Refrigerant control (CCDT, TVS, etc.)		V7/OT
Heater water valve (yes / no)		No
Refrigerant (R - 12, R - 134a, etc.)		R134A
Charge level (lbs. - oz.)		1.50 lbs.
Cold engine lockout switch (yes / no)		No
Wide open throttle cutout switch (yes / no)		Yes

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

Convenience Equipment (standard, optional, n.a.)

Clock (digital, analog)	Digital. In Radio	
Compass / thermometer	Not Available	
Console (floor, overhead)	Full Lenth Front Console, Standard Floor Integral with Instrument Panel; Overhead Not Available	
Defroster, electric windshield	Not Applicable	
Defroster, electric backlight	Electric - Optional; Standard on Convertible	
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	Tachometer, Speedometer, Trip Opdometer, Fuel, Oil Pressure, Temperature Volt, Seat Belt Warning, Engine Warning, Inflatable Restraint Warning
	Remote Keyless entry (FOB)	Optional
	Tripminder (avg. spd., fuel)	Not Available
	Voice alert (list items)	Not Available
Other	Warning Lamps	Check Gauges, Low Oil, ABS, Brake, Bright Headlamps, Air Bag, Low Coolant (V8 only), Low Trac, Security, Service Engine Soon, Seat Belt, Skip Shift (Manual V8 Only), ASR (Traction Control Option), Hatch Ajar, Reduced Engine Power (V6 Only), Oil Change, Service Vehicle
Fuel door lock (remote, key, electric)	Not Available	
Integrated Child Seating	Std./opt. & location in vehicle	Not Available
	Number of occupants	Not Available
	Occupant weight/height (min. & max.)	Not Available
	Restraint system description (3 or 5-point belts/booster seat capability)	Not Available
Lamps	Daytime Running Lamps (yes/no)	Not Available
	Cornering	Not Available
	Courtesy (map, reading)	Dual Lighted Mirror, Standard: Includes Switch
	Door lock, ignition	Not Available
	Engine compartment	Not Available
	Fog	Optional
	Glove compartment	Standard
	Trunk	Standard on Convertible
	illuminated entry system (list lamps, activation)	Courtesy (Reading) Lamp, Coupe Rear Seat Courtesy Lamps & Courtesy (Reading) Lamp, Convertible Optional Remote Lock Control w/illuminated Entry Features
	Other	Flood Lighted Interior Door Switches
Mirrors	Dome - Courtesy	Standard - Illuminates Rear Compartment, Coupe Only
	Day / night (auto., man.)	Standard - Manual
	L.H. (remote, power, heated)	Remote Standard, Power Optional - Not Heated
	R.H. (convex, remote, power, heated)	Manual Standard, Power Optional. Both Convex - Not Heated
Visor vanity (RH / LH, illuminated)	Covered Left Hand & Right Hand, Standard (Non-Illuminated)	
Navigation system (describe)	Not Available	
Parking brake-auto release (warning light)	Hand Release, Warning Light Standard	

MVMA Specifications:

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

Convenience Equipment (standard, optional, n.a.)

Power equipment	Deck lid (release, pull down)		Electric Hatch Release - Optional. Power Pull- Down Not Available	
	Door locks (manual, automatic, describe system)		Manual - Standard Electric - Optional: Includes Retained Accessory Power (RAP)	
	Seats	2 - 4 - 6 way, etc.		Optional Six-Way Power Driver's Seat
		Reclining (R.H., L.H.)		Not Available
		Memory (R.H., L.H., preset recline)		Not Available
		Support (lumbar, hip, thigh, etc.)		Not Available
		Heated (R.H., L.H., other)		Not Available
	Side windows		Optional - Retained Accessory Power (RAP) is Included w/Power Locks	
	Vent windows		Not Available	
Rear windows		Not Available		
		Not Available		
Radio systems	Antenna (location, whip, whip/field, power)		Standard - Right Rear Fender Fixed Mast w/Radio	
	Standard		AM/FM Stereo Cassette w/Seek, Scan, Auto Reverse, Music Search, Digital Clock & ETR	
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo Auto-Tone Cassette Radio w/Dual Directional Seek, Auto Reverse, Music Search, Digital Clock, ETR and Dolby B & Speed Compensated Volume Controls. AM/FM Stereo Auto-Tone Compact Disc Radio, Pre-Set Scan, Dual Directional Seek, Random, Digital Clock, ETR, Balance Control, With Speed Compensated Volume Control.	
	Speaker (number, location)		Standard Four Speaker System - Two Door Mounted & Two Rear Quarter - Coupe Up-Level/Sound System, Eight Channel Amplifier With Six High Performance Speakers: Dual Door Mounted, Sail Panel & Hatch Trim Speakers. Standard - Two Door Mounted & Two Rear Quarter - Convertible. Convertible Uplevel - Eight Channel Amplifier with Four Speakers; Dual Door Mounted, Dual Sail Panel	
Roof: open air or fixed (flip-up, sliding, "T")			"T" Type Hatch Roof w/Removeable Glass Panels - Optional	
Speed control device			Cruise Control with Resume Speed. Optional	
Speed warning device (light, buzzer, etc.)			Not Available	
Tachometer (rpm)			Standard	
Telephone system (describe)			Not Available	
Theft deterrent system			Lock Mounted on Steering Column; Locked Steering Wheel, Transmission, Shift Lever and Ignition. Electronic System (PASS-KEY II) Standard. Retained Accessory Power (RAP) Standard on All Vehicles	
			Universal Theft Deterrent System Standard on Chevrolet w/Remote Keyless Entry	

Trailer Towing

Towing capable	Yes / No	Yes
Engine / transmission / axle	Std. / Opt.	Standard
Tow class (I, II, III)*	Std. / Opt.	Light
Max. gross trailer wgt. (lbs.)	Std. / Opt.	1000 lbs
Max. trailer tongue load (lbs.)	Std. / Opt.	100 lbs
Towing package available	Yes / No	No

* Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Model Code/Description	SAE Ref. No.	1FP87 2-Door Coupe Plain Back Special	1FP67 2-Door Convertible Coupe
Width			
Tread (front)	W101	1542 (60.7)	
Tread (rear)	W102	1540 (60.6)	
Vehicle width	W103	1881 (74.1)	
Body width at SgRP (front)	W117	1855 (73.0)	
Vehicle width (front doors open)	W120	4195 (165.2)	
Vehicle width (rear doors open)	W121	—	
Tumble-home (degrees)	W122	32.0	
Outside mirror width	W410	1995 (78.5)	

Length

Wheelbase	L101	2566 (101.1)
Vehicle length	L103	4914 (193.5)
Overhang (front)	L104	1156 (45.5)
Overhang (rear)	L105	1192 (46.9)
Upper structure length	L123	2993 (117.8)
Rear Wheel C/L "X" coordinate	L127	4138 (163.0)

Height **

Passenger distribution (front/rear)	PD1 .2,3	Two/Two
Trunk/cargo load		**
Vehicle height	H101	1303 (51.3) 1321 (52.0)
Cowl point to ground	H114	901 (35.5)
Deck point to ground	H138	Not Available
Rocker panel-front to ground	H112	172 (6.8)
Rocker panel-rear to ground	H111	181 (7.1)
Windshield slope angle (degrees)	H122	68.0
Backlight slope angle (degrees)	H121	73.5

Ground Clearance **

Air Dam	H102	122.6 (4.8)
Front bumper to ground at curb	H102	237 (9.3)
Rear bumper to ground	H104	348 (13.7)
Bumper to ground front at curb mass (wt.)	H103	251 (9.9)
Bumper to ground rear at curb mass (wt.)	H105	371 (14.6)
Angle of approach (degrees)	H106	13.2
Angle of departure (degrees)	H107	12.0
Ramp breakover angle (degrees)	H147	5.2
Axle differential to ground (front/rear)	H153	154 (6.1)
Min. running ground clearance	H156	111.6 (4.0)
Location of min. running ground clear.		Converter Shield. V8: Suspension Bolt. V6

** All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions. EPA loaded vehicle weight is the base vehicle weight plus all coolant and fluids necessary for operation plus 100% of the fuel capacity, plus the weight of all options and accessories which weigh three pounds or more and which are sold on at least 33% of the car line, plus two occupants.

All linear dimensions are in millimeters (inches).

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description	SAE Ref. No.	1FP87 2-Door Coupe Plain Back Special	1FP67 2-Door Convertible Coupe
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Front Compartment

SgRP front, "X" coordinate	L31	3050 (124.0)	
Effective head room	H61	944 (37.2)	965 (38.0)
Max. effective leg room (accelerator)	L34	1092 (43.0)	
SgRP to heel point	H30	181 (7.1)	
SgRP to heel point	L53	910 (35.8)	
Back angle (degrees)	L40	26.5	
Hip angle (degrees)	L42	98.0	
Knee angle (degrees)	L44	132.7	
Foot angle (degrees)	L46	87.0	
Design H-point front travel	L17	198 (7.8)	
Normal driving & riding seat track trvl.	L23	178 (7.0)	
Shoulder room	W3	1458 (57.4)	
Hip room	W5	1340 (52.8)	
*** Upper body opening to ground	H50	1260 (49.6)	
Steering wheel maximum diameter*	W9	375 (14.8)	
Steering wheel angle (degrees)	H18	17.3	
Accel. heel pt. to steer. whl. cntr.	L11	548.4 (21.6)	
Accel. heel pt. to steer. whl. cntr.	H17	Not Available	
Undepressed floor covering thickness	H67	27 (1.1)	

Front Compartment Interior Dimensions are Measured with the Seating Reference Point (SgRP) _____ mm forward and _____ mm Upward of Rearmost Position.

Rear Compartment

SgRP point couple distance	L50	638 (25.1)	
Effective head room	H63	896 (35.3)	990 (39.0)
Min. effective leg room	L51	681 (26.8)	
SgRP (second to heel)	H31	201 (7.9)	
Knee clearance	L48	-76 (-3.0)	
Shoulder room	W4	1417 (55.8)	1104 (43.5)
Hip room	W6	1129 (44.4)	1110 (43.7)
*** Upper body opening to ground	H51	-	
Back angle (degrees)	L41	28.0	19.0
Hip angle (degrees)	L43	71.0	61.5
Knee angle (degrees)	L45	67.1	
Foot angle (degrees)	L47	115.2	
Depressed floor covering thickness	H73	18 (0.7)	

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	-	
*** Lifter height	H195	892 (35.1)	

Interior Volumes (EPA Classification)

Vehicle class	Sub-Compact	
Interior volume index including trunk/cargo (cu. ft.)**	94.8 (53.1 Front + 28.8 Rear + 12.9 Cargo)	88.2 (54.3 Front + 26.3 Rear. + 7.6 Cargo)
	E1	
Trunk/cargo index (cu. ft.)	V13	12.9
		7.6

* See page 14.

** See definition page 33.

All linear dimensions are in millimeters (inches) unless otherwise noted.

*** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description

SAE
 Ref.
 No.

1FP87
 2-Door Coupe Plain Back Special

1FP67
 2-Door Convertible Coupe

Station Wagon/MPV*
 -Third Seat

(Not Applicable)

Seat facing direction	SD1	
SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Back angle (degrees)	L88	
Hip angle (degrees)	L89	
Knee angle (degrees)	L90	
Foot angle (degrees)	L91	

Station Wagon/MPV* - Cargo Space

(Not Applicable)

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Min. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H198	
Cargo volume index m ³ (ft. ³)	V2	
Hidden cargo volume index m ³ (ft. ³)	V4	
Cargo volume index-rear of 2-seat	V10	
Cargo volume index*	V6	
Cargo width at floor*	W500	
Maximum cargo height*	H505	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	990 (39.0)	833
Cargo length at floor (front)	L209	1618 (63.7)	
Cargo length at second seatback height	L210	824 (32.4)	
Cargo length at floor (second)	L211	908 (35.7)	
Front seatback to load floor height	H197	341 (13.4)	
Second seatback to load floor height	H198	211 (8.3)	
Cargo volume index m ³ (ft. ³)	V3	930 L. (32.8 cu. ft.)	
Hidden cargo volume index m ³ (ft. ³)	V4	-	
Cargo volume index - rear of 2-seat	V11	366 L. (12.9 cu. ft.)	

All linear dimensions are in millimeters (inches) unless otherwise noted.

* MPV - Multipurpose Vehicle

** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (☉) _____

METRIC (U.S. Customary)

Model Code/ Description	ALL
----------------------------	-----

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	X - Fiducial mark to vertical zero grid line - front measured horizontally, from the zero grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.
	Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.
	Z - Fiducial mark to horizontal zero grid line - front, measured vertically from zero grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear	X - Fiducial mark to vertical zero grid line - rear, measured horizontally from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)
	Y - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal.)
	Z - Fiducial mark to horizontal zero grid line - rear, measured vertically from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)
NOTE: Provide 3 of 4 Fiducial Mark Locations	
Front	W21** 540 (21.3)
	L54** 2688 (105.8)*
	H81** 468 (18.4)#
	H161** 300 (11.8)
	H163** 284 (11.2)
Rear	W22** 548 (21.6)
	L55** 4815 (189.6)*
	H82** 596 (23.5)#
	H162** 435 (17.1)
	H164** 416 (16.4)
	* Vertical Base Grid 2000 mm Line # Horizontal Base Grid 500 mm Line

* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.
 ** Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.
 *** EPA Loaded Vehicle Weight, Loading Conditions
 All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

Code	Model	VEHICLE MASS (WEIGHT)				Shipping Mass kg (lb)***	ETWC** Code	% PASS MASS DISTRIBUTION			
		CURB MASS, kg. (lb.)*			Pass in Front			Pass in Rear	Front	Rear	
		Front	Rear	Total							
CAMARO (1FP87)		838	667	1505	1471	V	43	57	16	84	
	2-Door Coupe (L36 & M49)	(1847)	(1470)	(3317)	(3243)						
CAMARO (1FP87)		854	672	1526	1491	W	43	57	16	84	
	2-Door Coupe (L36 & M30)	(1883)	(1481)	(3364)	(3287)						
CAMARO (1FP67)		858	709	1567	1532	X	43	57	16	84	
	2-Door Convertible (L36 & M49)	(1891)	(1563)	(3454)	(3377)						
CAMARO (1FP67)		874	714	1588	1553	X	43	57	16	84	
	2-Door Convertible (L36 & M30)	(1927)	(1574)	(3501)	(3424)						
CAMARO Z28 (1FP87 w/Z28)		873	680	1553	1518	W	43	57	16	84	
	2-Door Coupe (LS1 & M30)	(1925)	(1499)	(3424)	(1483)						
CAMARO Z28 (1FP87 w/Z28)		867	677	1544	1509	W	43	57	16	84	
	2-Door Coupe (LS1 & MM6)	(1911)	(1492)	(3403)	(3327)						
CAMARO Z28 (1FP67 w/Z28)		893	722	1615	1580	X	43	57	16	84	
	2-Door Convertible (LS1 & M30)	(1988)	(1592)	(3928)	(3483)						
CAMARO Z28 (1FP67 w/Z28)		887	718	1605	1570	X	43	57	16	84	
	2-Door Convertible (LS1 & MM6)	(1955)	(1583)	(3538)	(3461)						

* Reference - SAE J1100 Motor vehicle dimensions and curb weight definition.
 ** ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications.
 Refer to ETWC code legend below for test weight class.

ETWC LEGEND			
A = 1000	I = 2000	Q = 3000	Y = 4000
B = 1125	J = 2125	R = 3125	Z = 4250
C = 1250	K = 2250	S = 3250	AA = 4500
D = 1375	L = 2375	T = 3375	BB = 4750
E = 1500	M = 2500	U = 3500	CC = 5000
F = 1625	N = 2625	V = 3625	DD = 5250
G = 1750	O = 2750	W = 3750	EE = 5500
H = 1875	P = 2875	X = 3875	FF = 5750

*** Shipping Mass (weight) = Curb Weight Less:

 36/80

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS. kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
AG1	Adjuster, Front Seat Power, Multi-Directional, Driver	1.4 (3.0)	1.8 (3.9)	2.0 (7.0)	
AN4	Child Restraint Provision	0.0 (0.0)	0.4 (0.9)	0.4 (0.9)	
AQ9	Seat, Front Bucket Passenger, Driver Recliner				
AU0	Lock Control, Entry Remote Entry				
AU3	Lock Control Side Drive, Electrical	0.4 (0.9)	0.4 (0.9)	0.8 (1.8)	
A31	Window Power Operated, All Doors	1.2 (2.6)	0.6 (1.3)	1.8 (3.9)	
A90	Lock Control Rear Compartment Lid, Remote Control Electric Release				
B35	Covering Rear Floor Mats, Carpeted Insert	0.2 (0.4)	1.2 (2.6)	1.4 (3.0)	
B84	Moldings - Body Side Exterior	0.4 (0.9)	0.4 (0.9)	0.8 (1.8)	
CC1	Roof Hatch, - Removeable Panels, Glass	3.8 (8.4)	3.8 (8.4)	7.6 (16.8)	IFP87
C49	Defogger - Rear Window (Electric)	0.0 (0.0)	0.2 (0.4)	0.2 (0.4)	IFP87
DE4	Sunshades Removeable Hatch Roof	0.2 (0.4)	0.4 (0.9)	0.6 (1.3)	IFP87
DG7	Mirror Outside Left Hand and Right Hand, Remote Control, Electric, Color	0.4 (0.9)	0.0 (0.0)	0.4 (0.9)	
FE2	Suspension System Ride, Handling	0.8 (1.8)	1.0 (2.2)	1.8 (4.0)	
FE4	Suspension System Special Ride & Handling	1.2 (2.6)	2.0 (4.4)	3.2 (7.0)	
FE7	Suspension System Front and Rear, Heavy Duty, Var 3	1.4 (3.0)	2.0 (4.4)	3.4 (7.4)	
GU2	Rear Axle (2.73 Ratio)	0.0 (0.0)	-5.8 (-12.8)	-5.8 (-12.8)	
GU4	Rear Axle (3.08 Ratio)	0.0 (0.0)	0.6 (1.3)	0.6 (1.3)	

* Also see Engine - General Section for dressed engine mass (weight.)

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS. kg. (lb.)			Remarks Restrictions. Requirements
		Front	Rear	Total	
GU5	Rear Axle (3.23 Ratio)	0.0 (0.0)	-6.2 (-13.6)	-6.2 (-13.6)	
GU6	Rear Axle (3.42 Ratio)	0.0 (0.0)	0.0 (0.0)	0.0 (0.0)	
G80	Axle Positraction Limited Slip				
IP2	Leather Interior Trim	1.0 (2.2)	1.0 (2.2)	2.0 (4.4)	
K05	Heater - Engine Block	0.4 (0.9)	0.0 (0.0)	0.4 (0.9)	
K34	Cruise Control Automatic, Electronic	1.8 (3.9)	0.4 (0.9)	2.2 (4.8)	
K43	Generator 102 Amp				
LS1	Engine Gas, 8 Cylinder, 5.7 Liter, SFI, Aluminum, GM	14.8 (32.6)	1.8 (4.0)	16.6 (36.6)	&MM6
LS1	Engine Gas, 8 Cylinder, 5.7 Liter, SFI, Aluminum, GM	0.4 (0.9)	-0.2 (-0.4)	0.2 (0.5)	&M30
MM6	Transmission Manual 6 Speed, Borg Warner, 85 mm, 1st 2.66, 6th 0.50, Overdrive	12.4 (27.3)	4.8 (10.6)	17.2 (37.9)	
MN6	Merchandised Transmission Manual 6 Speed Provisions				
MX0	Merchandised Transmission Auto Provisions, Overdrive				
M30	Transmission Automatic 4 Speed, 4L60E, Electronic	32.8 (72.3)	10.4 (22.9)	43.2 (95.2)	&LS1
M30	Transmission Automatic 4 Speed, 4L60E, Electronic	15.4 (34.0)	4.8 (10.6)	20.0 (44.6)	&L36
NP5	Steering Wheel Leather Wrapped	0.2 (0.4)	0.0 (0.0)	0.2 (0.4)	
NW9	Traction Control Electronic	2.2 (4.8)	3.0 (6.6)	5.2 (11.4)	
N73	Wheel Custom Sport, Var 4	-1.0 (-2.2)	-1.0 (-2.2)	-2.0 (-4.4)	
N92	Cover, Wheel Bolt On	1.2 (0.0)	1.2 (0.0)	2.4 (0.0)	

* Also see Engine - General Section for dressed engine mass (weight.)

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line CAMARO
 Model Year 1999 Issued _____ Revised (●) _____

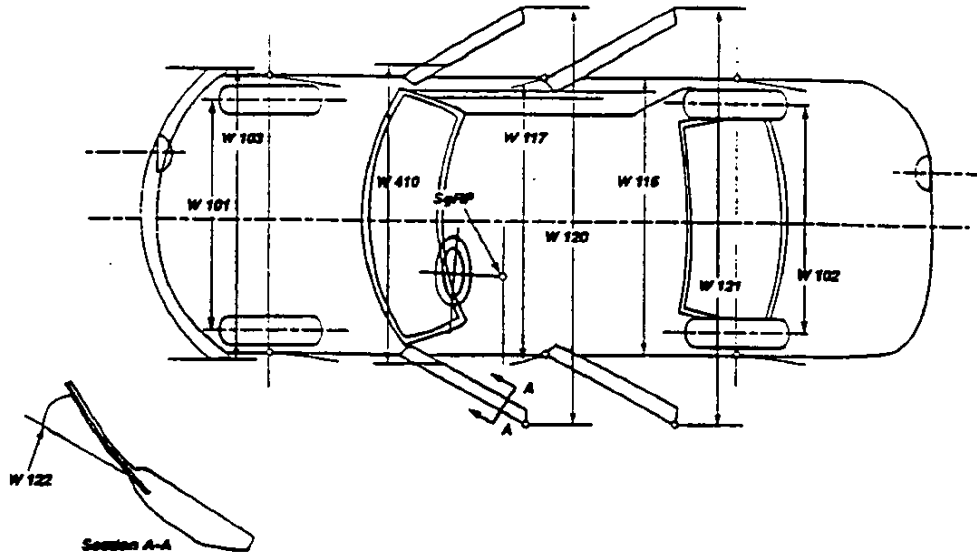
Code	Equipment	Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
		MASS, kg. (lb.)			
		Front	Rear	Total	
N96	Wheel 16 x 8, Cast Aluminum	-2.0 (-4.4)	-2.0 (-4.4)	-4.0 (-8.8)	
N98	Wheel Chrome, Var 2	-0.8 (-1.8)	-0.8 (-1.8)	-1.6 (-3.6)	
QCB	Tire All P235/55R16-96T BW R/PE ST TL AL2	2.0 (4.4)	1.8 (4.0)	3.8 (8.4)	
QFZ	Tire All P245/50ZR16 BW R/PE ST TL AL3	3.2 (7.0)	3.0 (6.6)	6.2 (13.6)	
QLC	Tire All P245/50ZR16/N BL R/PE ST TL HW4	2.8 (6.1)	2.8 (6.1)	5.6 (12.3)	
T78	Headlamp Control Delete	-0.2 (-0.4)	0.0 (0.0)	-0.2 (-0.4)	
T96	Fog Lamps	1.6 (3.5)	-0.2 (-0.4)	1.4 (3.1)	
UA6	Theft Deterrent System				
UN0	Radio, AM/FM Stereo, Seek/Scan, Compact Disc, Auto Tone Clock, ETR	0.4 (0.9)	0.0 (0.0)	0.4 (0.9)	
UZ7	Speaker System 8, Quad Front Door Mounted, Dual Sail Panel, Dual Rear Hatch, Amplifier	2.2 (4.8)	2.2 (4.8)	4.4 (9.6)	1FP87
U1S	Player Multiple Compact Disc	0.2 (0.4)	3.4 (7.5)	3.6 (7.9)	
U59	Speaker System 8, Quad Front Door Mounted, Quad Sail Panel, Amplifier				1FP67
U75	Antenna - Power	-0.2 (-0.4)	0.8 (1.8)	0.6 (1.4)	
VK3	License Plate Front Mounting Package	0.2 (0.4)	0.0 (0.0)	0.2 (0.4)	
V12	Cooling System Power Steering, Fluid				
WU8	Sales Package Camaro SS Appearance and Performance, Single Label				
Y87	Merchandise Package Performance Enhancement	1.0 (2.2)	1.8 (4.0)	2.8 (6.6)	
Z28	Merchandised Package Special Performance				
1LE	Performance Package Components	1.0 (2.2)	0.6 (1.3)	1.6 (3.5)	1FP87

* Also see Engine - General Section for dressed engine mass (weight.)

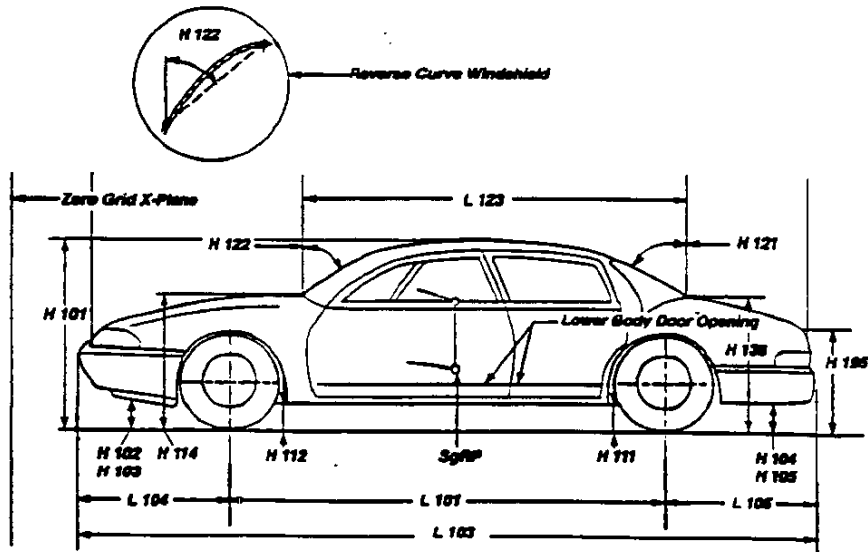
Specifications Form
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

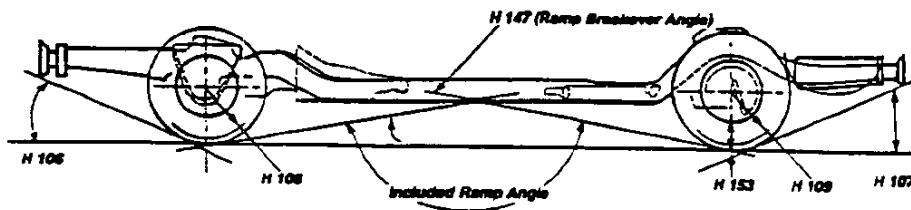
Exterior Width Dimensions



Exterior Length & Height Dimensions



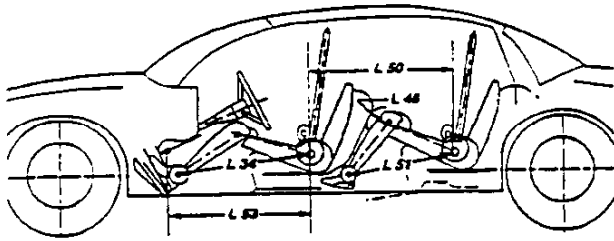
Ground Clearance Dimensions



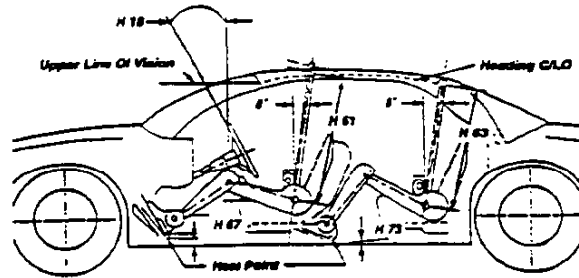
Specifications Form
 METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

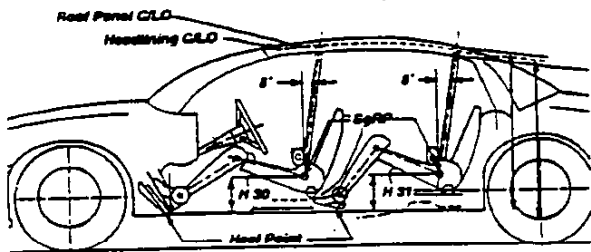
Interior Length Dimensions



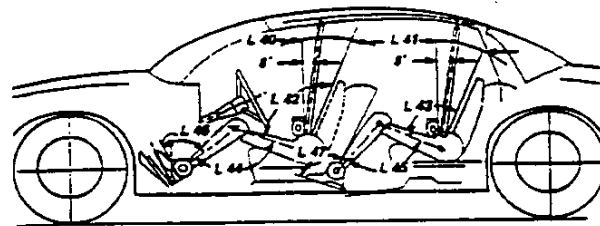
Interior Height Dimensions



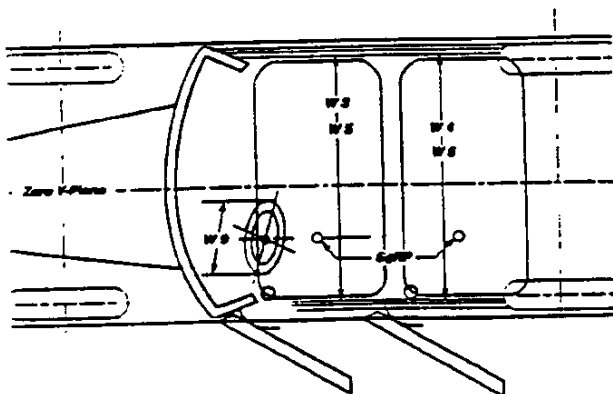
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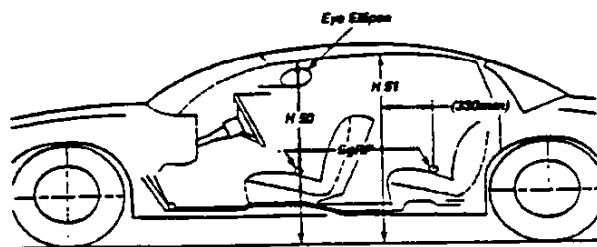
Interior Length Dimensions



Interior Width Dimensions



Interior Height Dimensions

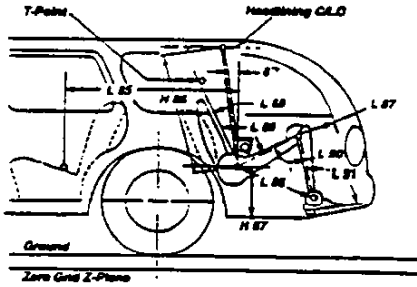


Specifications Form

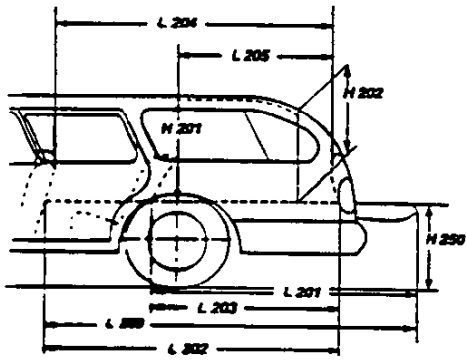
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

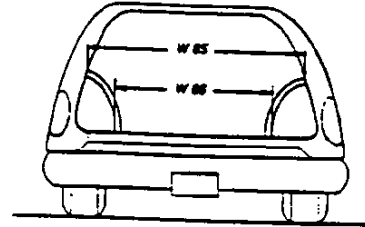
Interior Dimensions, Seated Weight Third Seat



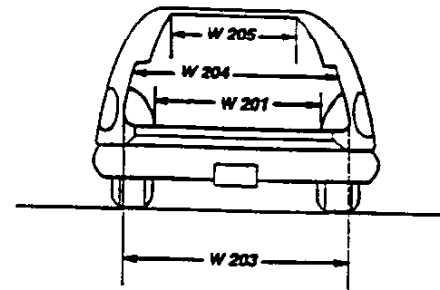
Cargo Space Dimensions



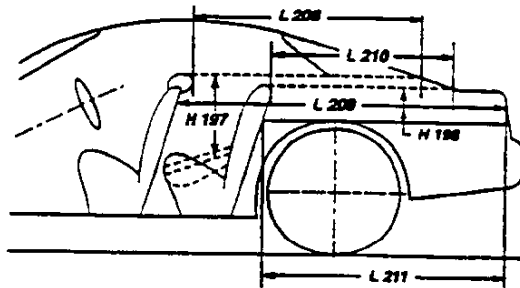
Interior Dimensions



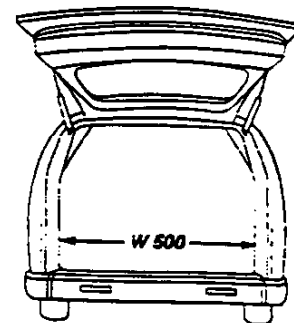
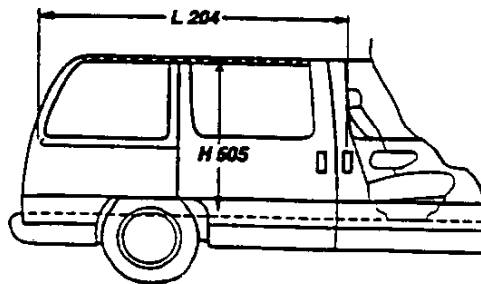
Cargo Space Dimensions



Cargo Space Dimensions



Multipurpose Vehicle Cargo Space



Specifications Form

METRIC (U. S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which -

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

Width Dimensions

- W101 TREAD-FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD-REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W117 BODY WIDTH AT SGRP-FRONT. The dimension measured laterally between the widest points on the body at the SGRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH-FRONT DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position.
- W121 VEHICLE WIDTH-REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SGRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SGRP "X" plane.
- W410 OUTSIDE MIRROR WIDTH: The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

Length Dimensions

- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerline. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHANG-FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hook and/or rub strips, if standard equipment.
- L105 OVERHANG-REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L127 REAR WHEEL CENTERLINE "x" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL-REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL-FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD-TIRE RADIUS-REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND-CURB MASS(WT.). Measured in the same manner as H102.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND-CURB MASS(WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Specifications Form

METRIC (U. S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

Dimensions Definitions

Glass Areas

- S1 Windshield area.
 S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
 S3 Backlight areas.
 S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

- Fiducial Mark - Number 1**
 L54 "X" coordinate.
 W21 "Y" coordinate.
 H81 "Z" coordinate.
 H161 Height "Z" coordinate to ground at curb weight.
 H163 Height "Z" coordinate to ground.
Fiducial Mark - Number 2
 L55 "X" coordinate.
 W22 "Y" coordinate.
 H82 "Z" coordinate.
 H162 Height "Z" coordinate to ground at curb weight.
 H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L11 ACCELERATOR WHEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
 L17 DESIGN-H-POINT-FRONT TRAVEL. The dimension measured horizontally between the design H-point-front in the foremost and rearmost seat track positions. (See SAE J1100)
 L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).
 L31 SgRP-Front. "X" Coordinated.
 L34 MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP-front plus 254 mm (10.0 in.) measured with right foot on the underdepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
 L40 BACK ANGLE-FRONT. The angle measured between a vertical line through the SgRP-front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
 L42 HIP ANGLE-FRONT. The angle measured between torso line and thigh centerline.
 L44 KNEE ANGLE-FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
 L46 FOOT ANGLE-FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
 L53 SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel point.
 W3 SHOULDER ROOM-FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front at height between the belt line and 254 mm (10.0 in.) above the SgRP-front, excluding the door assist strap and attaching parts.

- W5 HIP ROOM-FRONT. The minimum dimension measure laterally between the trimmed surfaces on the "X" plane through the SgRP-front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP-front and 76 mm (3.0 in.) fore and aft of the SgRP-front.
 W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
 H7 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
 H18 STEERING WHEEL ANGLE. The angle measured from vertical to the surface plane of the steering wheel.
 H30 SgRP-FRONT TO HEEL. The dimension measured vertical from the SgRP-front to the accelerator heel point.
 H50 UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.
 H61 EFFECTIVE HEAD ROOM-FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP-front to the headlining plus 102 mm (4.0 in.).
 H67 FLOOR COVERING THICKNESS - UNDEPRESSED - FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

- L41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
 L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
 L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
 L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
 L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
 L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
 L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254 mm (10.0 in.).
 W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
 W6 HIP ROOM-SECOND. Measured in the same manner as W5.
 H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
 H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP-second.
 H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
 H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

Specifications Form

METRIC (U. S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

Dimensions Definitions

Luggage Compartment Dimensions

V1 **USABLE LUGGAGE CAPACITY**-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

Interior Volumes (EPA Classification)

The Interior Index is listed for each body style except two seaters. The Interior Volume index estimates the space in a car. It is based on four measurements - head room, shoulder room, hip room, and leg room - for the front and rear seats, plus trunk capacity.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

Station Wagon/MPV - Third Seat Dimensions

- L85 **SgRP COUPLE DISTANCE-THIRD.** The dimension measured horizontally from the SgRP-second to the SgRP-third.
- L86 **EFFECTIVE LEG ROOM-THIRD.** The dimension measured along a line from the ankle pivot center to the SgRP-third plus 254 mm (10.0 in.).
- L87 **KNEE CLEARANCE-THIRD.** The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 **BACK ANGLE-THIRD.** Measured in the same manner as L41.
- L89 **HIP ANGLE-THIRD.** Measured in the same manner as L43.
- L90 **KNEE ANGLE-THIRD.** Measured in the same manner as L45.
- L91 **FOOT ANGLE-THIRD.** Measured in the same manner as L47.
- W85 **SHOULDER ROOM-THIRD.** Measured in the same manner as W4.
- W86 **HIP ROOM-THIRD.** Measured in the same manner as W5.
- H86 **EFFECTIVE HEAD ROOM-THIRD.** The dimension, measured along a line @ deg. from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 **SgRP-THIRD TO HEEL POINT**
- SD1 **SEAT FACING DIRECTION-THIRD.**

Station Wagon/MPV - Cargo Space Dimensions

- L200 **CARGO LENGTH-OPEN-FRONT.** The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 **CARGO LENGTH-OPEN-SECOND.** The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 **CARGO LENGTH-CLOSED-FRONT.** The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 **CARGO LENGTH-CLOSED-SECOND.** The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 **CARGO LENGTH AT BELT-FRONT.** The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 **CARGO LENGTH AT BELT-SECOND.** The minimum dimension measured horizontally from the back of the second seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 **CARGO WIDTH-WHEELHOUSE.** The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 **REAR OPENING WIDTH AT FLOOR.** The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 **REAR OPENING WIDTH AT BELT.** The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 **REAR OPENING WIDTH ABOVE BELT.** The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 **CARGO WIDTH AT FLOOR.** The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- H197 **FRONT SEATBACK TO LOAD FLOOR HEIGHT.** The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 **CARGO HEIGHT.** The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 **REAR OPENING HEIGHT.** The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 **TAILGATE TO GROUND CURB MASS (WT.)** The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- H505 **MAXIMUM CARGO HEIGHT.** The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

Specifications Form

METRIC (U. S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet

Dimensions Definitions

<p>V2 STATION WAGON Measured in inches:</p> $\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$ <p>Measured in mm:</p> $\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 (\text{cubicmeter})$	<p>L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.</p> <p>L209 CARGO LENGTH AT FLOOR-FRONT. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.</p> <p>L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is towed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.</p> <p>L211 CARGO LENGTH AT FLOOR-SECOND SEATBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.</p> <p>H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.</p> <p>H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seatback to the undepressed floor covering.</p> <p>V3 HATCHBACK. Measured in inches:</p> $\frac{L208 + L209}{2} \times W4 \times H197 = \text{ft}^3$ <p>Measured in mm:</p> $\frac{L208 + L209}{2} \times W4 \times H197 = \text{m}^3 (\text{cubicmeter})$
<p>V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.</p> <p>V5 TRUCKS AND MPV'S WITH OPEN AREA. Measured in inches:</p> $\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$ <p>Measured in mm:</p> $\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 (\text{cubicmeter})$	<p>V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.</p> <p>V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor: Measured in inches:</p> $\frac{L210 + L211}{2} \times W4 \times H198 = \text{ft}^3$ <p>Measured in mm:</p> $\frac{L210 + L211}{2} \times W4 \times H198 = \text{m}^3 (\text{cubicmeter})$
<p>V6 TRUCKS AND MPV'S WITH CLOSED AREA. Measured in inches:</p> $\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$ <p>Measured in mm:</p> $\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 (\text{cubicmeter})$	<p>V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.</p> <p>V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor: Measured in inches:</p> $\frac{L210 + L211}{2} \times W4 \times H198 = \text{ft}^3$ <p>Measured in mm:</p> $\frac{L210 + L211}{2} \times W4 \times H198 = \text{m}^3 (\text{cubicmeter})$
<p>V8 HIDDEN LUGGAGE CAPACITY-REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.</p> <p>V10 STATION WAGON CARGO VOLUME INDEX. Measured in inches:</p> $\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$ <p>Measured in mm:</p> $\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 (\text{cubicmeter})$	<p>V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.</p> <p>V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor: Measured in inches:</p> $\frac{L210 + L211}{2} \times W4 \times H198 = \text{ft}^3$ <p>Measured in mm:</p> $\frac{L210 + L211}{2} \times W4 \times H198 = \text{m}^3 (\text{cubicmeter})$

Hatchback - Cargo Space Dimensions

All Hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electronically adjusted seats, see the manufacturer's specifications for Design "H" Point).

Specifications Form

METRIC (U. S. Customary)

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