

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. CUSTOMARY)

1999

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

Direct questions concerning these specifications to the manufacturer listed above.

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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

FORM AAMA-98

Specifications

METRIC

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NOTE:

1. 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.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. 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.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

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

METRIC (U.S. Customary)

Vehicle Origin

Design & development (company)	G.M. Midsize Car Division
Where built (country)	U.S.A.
Authorized U.S. sales marketing representative	Chevrolet Motor Division

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
CORVETTE					
2-Door Coupe Plain Back (RWD)		1YY07	2 (2/0)	45.4 (100)	17/24
2-Door Coupe Notchback (RWD)		1YY37	2 (2/0)		
2-Door Coupe Convertible (RWD)		1YY67	2 (2/0)		

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

Vehicle Line	CORVETTE		
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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 N G I N E	Engine Code		LS1	LS1	LS1	
	Displacement Liters (in ³)		5.7 (346)	5.7 (346)	5.7 (346)	
	Induction system (FI, Carb, etc.)		Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	
	Compression ratio		10.1:1	10.1:1	10.1:1	
	SAE Net at RPM	Power kW (bhp)	257 (345) @ 5600	257 (345) @ 5600	257 (345) @ 5600	
		Torque N • m (lb. ft.)	475 (350) @ 4400	475 (350) @ 4400	475 (350) @ 4400	
	Exhaust single, dual		Dual	Dual	Dual	
T R A N S	Transmission/ Transaxle		M30	MM6	M30	
	Effective Final Drive / Axle Ratio (std. first)		2.73 (GU2)	3.42 (GU6)	3.15 (G90)	

[illegible]

MVMA Specifications

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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)	67.3 (4.1)	
Cylinder liner material	Cast Iron	
Head gasket thickness (compressed)	1.33 mm	
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: 5.3 (11.7), Left: 5.2 (11.5)	
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.)	Hydraulic Damper
	Added isolation (sub-frame, crossmember, etc.)	One Crossmember
Total dressed engine mass (wt) dry***		Automatic: 208 kg ; Manual: 226 kg

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum, 437 (15.4)
------------------------------------------------	----------------------

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	5.72/9.53 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.

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Vehicle Line CORVETTEModel Year 1999

Issued _____

Revised (●) _____

METRIC (U.S. Customary)

Engine Description
Engine Code5.7 LITER V8
LS1

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		Standard
Valves	Number intake / exhaust	Eight/Eight
	Head O.D. intake / exhaust	50.8 / 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	Teflon, One Piece
	Rear	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

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METRIC (U.S. Customary)

Engine Description
Engine Code

5.7 LITER V8
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)		103.0 (15.0)
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	86.0 (187.0)
Water pump	Type (centrifugal, other)	Centrifugal
	GMP 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.)	Automatic: 11.5 (12.2), Manual: 11.8 (12.5)
	With air conditioner - L (qt.)	Automatic: 11.5 (12.2), Manual: 11.8 (12.5)
	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	A/C, Standard
	Type (cross-flow, etc.)	Cross-Flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube
	Material, mass kg (wgt., lbs.)	Aluminum Header, Tubes and Fins, 4.08 kg (10.0)
	Width	630.0 mm (24.8 in.)
	Height	438.0 mm (17.24 in.)
	Thickness	24 mm (All)
Radiator end tank material	Fins per inch	3.0 (16.9 fpi)
		Plastic
Fan	Std., elec., opt.	Electric, Standard
	Number of blades & type (flex, solid, material)	Five-Blades and Ring Shroud, Plastic
	Number & location (front, rear of radiator)	Two Fans, Rear of Radiator
	Diameter & projected width	316 mm
	Ratio (fan to crankshaft rev.)	—
	Fan cutout type	Temperature and Pressure Sensor
	Drive type (direct, remote)	Direct
	RPM at idle (elec.)	2100
	Motor rating (wattage/elec.)	150 W - 2200 RPM
	Motor switch (type & location/elec.)	Temperature Sensor Located on Engine, Pressure Sensor on A/C Liquid Tube
	Switch point (temp./pressure/elec.)	Various
	Fan shroud (material)	Plastic

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Engine Description
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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.		Preset - No Adjustment
Fuel injection	Point of injection (no.)	Ports (8)
	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 575
	Automatic	PCM Controlled 800
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)	400 kPa
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	29 gm / sec @ 400 kPa

Fuel Tank

Capacity refill L (gallons)		75.7 (19.1)
Location (describe)		Under Rear Deck - Rear of Seat Back Between Side Rail and Tunnel
Attachment		Held By Aluminum Plate
Material & Mass kg. (weight lbs.)		Density Polyethylene 5.1 Kg each
Filler pipe	Location & material	Left Side Rear of Door
	Connection to tank	Left Side of Left Tank
Fuel line (material)		Aluminum
Fuel hose (material)		Viton
Return line (material)		Aluminum
Vapor line (material)		Aluminum
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	Not Applicable
	Location & material	Not Applicable
	Attachment	Not Applicable
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	Not Applicable
	Location & material	Not Applicable
	Attachment	Not Applicable
	Selector switch or valve	Not Applicable
	Separate fill	Not Applicable

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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 (Computer Command Control)
		Point of entry	Exhaust Manifold
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Not Applicable
		Exhaust source	Not Applicable
		Point of exhaust injection (spacer, carburetor, manifold, other)	Not Applicable
	Catalytic Converter	Type	Three-Way
		Number of	Two
		Locations(s)	Under Floor
		Volume L (in³)	1.4 (85.0)
		Substrate type	Monolith
		Noble metal type	Platinum, Rhodium
		Noble metal concentration (g/cm²)	
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)		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)		Dual
Muffler no. & type, Muffler volume (liters), Material & Mass kg. (weight lbs.)		Reverse Flow, 10.9 Liters each Two, Aluminized Stainless Steel
OD		H-Pipe 63.5
Exhaust pipe	Branch o.d., wall thickness	
	RH/LH	63.5 x 1.5 mm (2.5 in. x 0.060 in.)
	Material & Mass kg. (weight lbs.)	Aluminized Stainless Steel
Intermediate pipe	o.d. & wall thickness	RH/LH 63.5 x 1.5 mm (2.5 in. x 0.060 in.)
	Material	Aluminized Stainless Steel
Tail pipe	o.d. & wall thickness	Single Wide Wall, 44.5 x 1.5 mm (1.75 in. x 0.060 in.)
	Material	Aluminized Stainless Steel/RH & LH Outer
Exhaust System/Includes Take Down Pipes, Catalytic Converts, Intermediate Pipes, Mufflers and Tailpipes Mass KG (Weight #'s)		37.9 KG (83.38 Lbs.)

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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
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 Forward Gears and Reverse
Shift lever location		Chassis Mounted
Trans. case material & mass kg. (lbs.)*		Aluminum, 56.2 (124.0)
Lubricant	Capacity L (qts.)	3.46 (3.66)
	Type recommended	Dexron III

Clutch (Manual Transmission)

Clutch manufacturer		Luk, Inc.
Clutch type (dry, wet; single, multiple disc)		297 mm Type - Dry Clutch - Push Type, Single Disc
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic Pre-Filled
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	145 N (32.6 lbs.)
	Released	90 N (20.2 lbs.)
Assist (spring, power/percent, nominal)		Spring
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		11,500 N (Static) (2584 lbs.)
Clutch facing	Facing mfr. & material coding	Valeo F-808
	Facing material & construction	Non-Asbestos Woven, Bonded Steel Backing
	Rivets per facing	32
	Outside x inside dia. (nominal)	297 x 198 mm (11.69 x 7.80 in.)
	Total eff. area cm ² (in. ²)	384.9 cm ² (59.6 in ²)
	Thickness (pressure plate side/fly wheel side)	3.4 / 3.4 mm (0.134 / 0.134 in.)
	Rivet depth (pressure plate side/fly wheel side)	2.5 mm (0.098 in.)
	Engagement cushion method	Cushion Springs
Release bearing type & method lub.		Angular Contact Ball Bearing
Torsional damping method, springs, hysteresis		Coil Spring Clutch Disc With Friction Damper

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

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Engine Description
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Automatic Transmission/Transaxle

Trade Name		Hydra-Matic 4L60E
Type and special features (describe)		Four-Speed Automatic Overdrive 4th Gear, Lock Up 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- <u>D</u> -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 (Computer Controlled Torque Converter Clutch)
	5th	Not Applicable
	6th	Not Applicable
	Reverse	2.29
Final drive ratio		2.73 or 3.15
Max. upshift vehicle speed - drive range km/h (mph)		One-Two = 77 (48) Three-Four = 235 (146) Two-Three = 145 (90)
Max. upshift engine speed RPM		6000
Max. kickdown speed - drive range km/h (mph)		Four-Three = 216 (134) Three-Two = 126 (78) Two-One = 61 (38)
Min. overdrive speed km/h (mph)		56 (35)
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	298 mm
Capacity factor "K"		95
Pump type		Variable Displacement Vane
Lubricant	Capacity refill L (qts.)	4.8 (5.07)
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, External, Liquid
Transmission mass kg (lbs.) & case material**		71.2 (dry) Cast 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.

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Axle Ratio and Tooth Combinations

(See 'Power Teams' for axle ratio usage)

Axle ratio (or overall top gear ratio)		(M30/GU2) 2.73	(M30/G90) 3.15	(MM6/GU6) 3.42
Ring gear o.d.		205		
No. of teeth	Pinion	15	13	12
	Ring gear	41	41	41

Rear Axle Unit

Description		Getrag 625
Limited slip differential (type)		Disc Clutches
Drive pinion	Type	Hypoid
	Offset	44.45 (1.75)
No. of differential pinions		Two
Pinion / differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Not Available
Lubricant	Capacity L (pt.)	1.6 (3.38)
	Type recommended	9986115 GL5 Gear Lubricant (Synthetic) with 0.12L 9985412 Limited Slip Friction Modifier

Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Auto - Straight Tube, External Damper		Manual - No Damper	
Outer diam. x length* x wall thickness	Manual 4-speed transmission		Not Available			
	Manual 5-speed transmission		Not Available			
	Manual 6-speed transmission		55 mm x 1460.7 x 2.45 (2.16 x 57.50 x .096)			
	Overdrive					
	Automatic transmission		Aluminum 55 mm x 1503.8 x 2.45 (2.16 x 59.20 x .096)			
Intermediate bearing	Type (plain, anti-friction)		Not Available			
	Lubrication (fitting, prepack)		Not Available			
Slip yoke	Type		Splined			
	Number of teeth		Automatic Trans - 26		Manual	
	Spline o.d.		28.38 (1.12 in.)			
Universal joints	Make and mfg. no.	Front	Not Available			
		Rear	Not Available			
	Number used		Two			
	Type (ball and trunnion, cross)					
	Rear attach (u-bolt, clamp, etc.)		Bolt			
	Bearing	Type (plain, anti-friction)				
		Lubrication (fitting, prepack)				
Drive taken through (torque tube, arms or springs)			Torque Tube			
Torque taken through (torque tube, arms or springs)			Torque Tube			

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

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METRIC (U.S. Customary)

Model Code/Description And/Or
Engine Code/Description

5.7 LITER V8
LS1

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		See Page 11A
Shock absorber damping controls	Standard/option/not available		Optional
	Manual/automatic control		Automatic Control
	Number of damping rates		Variable Valving
	Type of actuation (manual/ electric motor/air, etc.)		Electric Motor
	Sensors	Lateral acceleration	Not Applicable
		Deceleration	Not Applicable
		Acceleration	Not Applicable
		Road surface	Yes
Shock absorber (front & rear)	Type	FE1 - Monotube	
	Make	Sachs	
	Piston diameter	46.0 mm (1.81 in.)	
	Rod diameter	10.0 mm (0.393 in.)	

Suspension - Front

Type and description		See Page 11A
Travel	Full jounce (define load condition)	90.0 mm (3.46 in.), Metal to Metal
	Full rebound	90.0 mm (3.58 in.)
Spring	Type (coil, leaf, other & material)	Monoleaf, Filament Wound Glass - Epoxy Composite
	Insulators (type & material)	Pivot; Rubber Mounted
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Leaf: 1152 mm x 90 mm Coil & Bar - Not Applicable
	Spring rate N/mm (lb./in.)	FE1 - 77.2 N/mm (683.3)
	Rate at wheel N/mm (lb./in.)	FE1 - 18.5 N/mm (163.7)
Stabilizer	Type (link, linkless, frameless)	Link - Ball Joint Composite Material
	Material & O.D. bar/tube, wall thickness	FE1 - 23 Diameter Tube, 3.8 Wall

Suspension - Rear

Type and description		See Page 11A	
Travel	Full jounce (define load condition)	96 mm	
	Full rebound	90 mm	
Spring	Type (coil, leaf, other & material)	Monoleaf, Filamount. Wound Glass - Epoxy Composite	
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Leaf: 1273.5 mm x 90.0 mm Coil & Bar - Not Applicable	
	Spring rate N/mm (lb./in.)	FE1 - 103 N/mm (911.7)	
	Rate at wheel N/mm (lb./in.)	FE1 - 23.2 N/mm (205.3)	
	Insulators (type & material)	Neoprene	
	If leaf	No. of leaves	Monoleaf
		Shackle (comp. or tens.)	Tension
Stabilizer	Type (link, linkless, frameless)	Ball Joint Link	
	Material & O.D. bar/tube, wall thickness	Material: SAE 4130, Bar Size: FE1 - 19.1 mm x 2.0 mm	
Track bar (type)		None	

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Vehicle Line	CORVETTE		
Model Year	1999	Issued	Revised(*)

METRIC (U.S. Customary) SUPPLEMENTAL PAGE

PROVISIONS FOR JACKING:

See Owner's Manual

SUSPENSION - FRONT

Independent SLA, Aluminum Upper and Lower Control Arms and Steering Knuckle, Transverse Composite Monoleaf Spring and Steel Stabilizer, Tubular Steel Stabilizer Bar.

SUSPENSION - REAR

Independent SLA, Aluminum Upper and Lower Control Arms and Steering Knuckle, Transverse Composite Monoleaf Spring, Tubular Steel Stabilizer Bar, Steel Steering Link.

MVMA Specifications

Vehicle Line **CORVETTE**

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			Hydraulic Power Brake Front and Rear Disc
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		PBR Pin Guided Aluminum Caliper
	Rear (disc or drum)		PBR Pin Guided Aluminum Caliper
Valving type (proportion, delay, metering, other)			Proportioning Valve
Power brake (std., opt., n.a.)			Standard
Booster type (remote, integral, vac., hyd., etc.)			Vac 220.0 mm Tandem 613.10 cm ²
Vacuum	Source (inline, pump, etc.)		Engine Plenum
	Reservoir (volume in. ³)		Not Applicable
	Pump-type (elec., gear or belt driven)		Not Applicable
Traction assist	Operational speed range		All Speeds
	Type (engine or brake intervention)		Engine and Brake Intervention
Antilock device	Front/rear (std., opt., n.a.)		Standard Front and Rear
	Manufacturer		Bosch ABS/ASR V/Delphi
	Type (electronic, mech.)		Electrohydraulic
	Number sensors or circuits		(Four) Wheel Sensors
	Number antilock hydraulic circuits		Four (Two Front and Two Rear) Hydraulic
	Integral or add-on system		Add-On
	Yaw control (yes, no)		Yes
Hyd. power source (elec., vac., mtr., pwr., strg.)			Electronic Motor Pump
Effective area cm ² (in. ²)*			Front Linings 144 (22.3); Rear Linings 56 (8.7) (Without Grooves)
Gross Lining area cm ² (in. ²)* (F/R)			Front Linings 146 (22.6); Rear Linings 56 (8.7) (Without Grooves)
Swept area cm ² (in. ²)* (F/R) Axle Sums			Front 1696 (263); Rear 1018 (158)
Rotor	Outer working diameter	F/R	Front 320 mm; Rear 300 mm
	Inner working diameter	F/R	Front 220 mm; Rear 240 mm
	Thickness	F/R	Front 32 mm; Rear 26 mm
	Material & type (vented/solid)	F/R	HCR Iron Vent Front & Rear
Drum	Diameter & width	F/R	Not Applicable
	Type and material	F/R	Not Applicable
Wheel cylinder bore			Front Dual Piston 40.5 mm (1.6 in.) Rear 45.0 mm (1.8 in.)
Master cylinder	Bore/stroke	F/R	Front 25.4 / 20.6 mm (0.93/0.80 in.) Rear 25.4 / 12.6 mm
Pedal arc ratio			4.0:1
Line press. at 445 N (100 lb.) pedal load [kPa (psi)]			W/Power Front (1250), Rear (750)
Lining clearance			F/R Front and Rear Self Adjusting
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integral Mold
		Rivet Size	Not Applicable
		Manufacturer	Japan Brake Industries
		Lining code *****	JB NF42FF
		Material	Non-Asbestos Organic
		**** Primary or out-board	Front 161 x 50 x 9.5 mm (5.31 x 1.57 x 0.37 in.)
		Size Secondary or in-board	Front 161 x 50 x 9.5 mm (5.31 x 1.57 x 0.37 in.)
	Rear wheel	Shoe thickness (no lining)	5.0 mm (0.236 in.)
		Bonded or riveted (rvts/seg.)	Integral Mold
		Manufacturer	Japan Brake Industries
		Lining code *****	JB NF42FF
		Material	Non-Asbestos Organic
		**** Primary or out-board	105 x 30 x 10.5 mm (4.25 x 1.38 x 0.33 in.)
		Size Secondary or in-board	105 x 30 x 10.5 mm (3.70 x 1.38 x 0.33 in.)
		Shoe thickness (no lining)	5.0 mm

* 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.

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Tires And Wheels (Standard)

Tires	Size (service description)		P245/45ZR17 Front; P275/40ZR18 Rear, Base	
	Type (bias, radial, steel, nylon, etc.)		High Speed Steel Belted Radial Eagle F1 GS (Goodyear), Unidirectional & Symmetrical	
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	240 Front	207 Rear
		Rear kPa (psi)	240 Front	207 Rear
	Rev./mile at 70 km/h (45 mph)		806 Front; 777 Rear	
Wheels	Type & material		Aluminum Alloy Road Wheels; Magnesium Optional for All Continents	
	Rim (size & flange type)		17 x 8.5 Front, 18 x 9.5 Rear	
	Wheel offset		56.0 mm Alum 60.0 Mg Frt., 61.0 mm Alum 65.0 Mg Rear	
	Attachment	Type (bolt or stud & nut)	Stud	
		Circle diameter	120.7 mm (4.75 in.)	
		Number & size	Five Hex Nuts, One Anti-Theft; M12 x 1.5 - 6H	
Spare	Tire and wheel		No Spare	
	Storage position & location (describe)		Not Applicable	

Tires And Wheels (Optional)

Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		Magnesium Alloy Road Wheels
Rim (size, flange type and offset)		17 x 8.5 Front, 18 x 9.5 Rear
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)		
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)		Same As Standard

Brakes - Parking

Type of control		Hand
Location of control		Center Console
Operates on		Rear Wheels
If separate from service brakes	Type (internal or external)	Internal
	Drum diameter	190 mm
	Lining size (length x width x thickness)	400 x 25 x 3 mm

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Steering

Manual (std., opt., n.a.)			Not Available		
Power (std., opt., n.a.)			Standard		
Speed-sensitive (std., opt., n.a.)			Standard		
4-wheel steering (std., opt., n.a.)			Not Available		
Adjustable steering wheel/column (tilt, telescope, other)		Type	Tilt - Manual; Optional - Manual Tilt/Power Telescope		
		Manufacturer	Delphi Saginaw Steering Systems		
		(std., opt., n.a.)	Standard - Manual Tilt; Optional - Manual Tilt/Power Telescope		
Wheel diameter** (WØ) SAE J1100		Manual	Not Available		
		Power	380.0 mm (15.0 in.)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	12.6 (41.3)		
		Curb to curb (l. & r.)	11.89 (39.0)		
	Inside rear	Wall to wall (l. & r.)	Not Available		
		Curb to curb (l. & r.)	Not Available		
Scrub Radius*					
Manual	Gear	Type	Not Available		
		Manufacturer		Not Applicable	
		Ratios	Gear	Not Applicable	
			Overall	Not Applicable	
	No. wheel turns (stop to stop)		Not Applicable		
Power	Type (coaxial, elec. hyd., etc.)		Alloy Rack and Pinion Hydraulic		
	Manufacturer		Delphi Saginaw Steering Systems		
	Gear	Type	End Take-Off		
		Ratios	Gear	--	
			Overall	16.2:1	
	Pump (drive)		Accessory Belt Driven, Light Weight Transverse Compact Pump		
No. wheel turns (stop to stop)		2.66 Turns			
Linkage	Type		End Take-Off		
	Location (front or rear of wheels, other)		Front of Wheel		
	Tie rods (one or two)		Two		
Steering axis	Inclination at camber (deg.)				
	Bearings (type)	Upper	Plastic Lined Lube for Life		
		Lower	Plastic Lined Lube for Life		
		Thrust	Lower Ball Joint		
Steering spindle/knuckle & joint type			Upper and Lower Ball Joints		

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

** See Page 23.

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Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	6.1 (±) 0.5
		Camber (deg.)	-0.2 (±) 0.5
		Toe-in outside track mm (in.)	0.04 (±) 0.1
	Service reset*	Caster (deg.)	6.1 (±) 0.5
		Camber (deg.)	-0.2 (±) 0.5
		Toe-in mm (in.)	0.04 (±) 0.1
	Periodic M.V. inspection	Caster (deg.)	6.1 (±) 0.5
		Camber (deg.)	-0.2 (±) 0.5
		Toe-in mm (in.)	0.04 (±) 0.1
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	0.18 (±) 0.5
		Toe-in outside track mm (in.)	0.0 (±) 0.1
	Service reset*	Camber (deg.)	0.18 (±) 0.5
		Toe-in mm (in.)	0.0 (±) 0.1
	Periodic M.V. insp.	Camber (deg.)	0.18 (±) 0.5
		Toe-in mm (in.)	0.0 (±) 0.1

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

Electrical - Instruments and Equipment

Instrumentation and Equipment			
Speedometer	Type (analog, digital, std., opt.)		Analog, Standard
	Trip odometer (std., opt., n.a.)		Standard
Head-up display	Standard, optional, not available		Optional
	Type	Secondary, opto-electronic	Secondary VF Display
	Speedometer	Digital	Digital
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges	Turn Signals, High Beam, Shift, Check Gages, Fuel, Oil Pressure and Coolant Temperature Gages
	Brightness control	Day / night mode, adjustable	Adjustable, Automatic Adjustment to Ambient
EGR maintenance indicator			Not Available
Charge indicator	Type		Analog Display, Digital
	Warning device (light, audible)		Standard - Warning Audible, Digital, Check Gage Light
Temperature indicator	Type		Analog Display, Digital
	Warning device (light, audible)		Standard - Warning Audible, Digital, Check Gage Light
Oil pressure indicator	Type		Analog Display
	Warning device (light, audible)		Standard - Warning Audible, Digital, Check Gage Light
Fuel indicator	Type		Analog
	Warning device (light, audible)		Standard - Warning - Reserve, Low, Audible, Check Gage Light
Windshield wiper	Type (standard)		Intermittent Control System
	Type (optional)		Not Available
	Blade length		508.0 mm (22 in.)
	Swept area cm ² (in. ²)		6920 (1072.9)
Windshield washer	Type (standard)		Push Button - Manual
	Type (optional)		Not Available
	Fluid level indicator (light, audible)		Not Available
Rear window wiper, wiper/washer (std., opt., n.a.)			Not Available
Horn	Type		Air Horn
	Number used		Two
Other			See Page 15A

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These Lights in the IP Cluster:

- Traction Light
- Check Gages Light
- Security Light
- Check Engine
- Shift One to Four Light
- ABS Light
- Safety Belt Light
- Park Brake Light
- Air Bag Light

The Center of the Cluster Shows:

- | | |
|-----------------------------|----------------------------|
| - Speedometer | - Volt Gage |
| - Odometer | - Oil Pressure Gage |
| - Fuel Gage | - Coolant Temperature Gage |
| - Driver Information Center | |

These Telltales Illuminate in The Driver Information Center (DIC)

- | | |
|---------------------------------------------|-----------------------------|
| - Low Oil Pressure | - Service Column Lock |
| - High Oil Temperature Reduce Engine RPM | - Pull Key - Wait 10 Sec. |
| - Engine Protection Reduce Engine RPM | - Service Ride Control |
| - Upshift Now | - Change System Fault |
| - Coolant Over Temp | - Service Vehicle Soon |
| - Reduced Engine Power | - Low Fuel |
| - Maximum Speed XX MPH | - Low Washer Fluid |
| - Shocks Inoperative / Service Ride Control | - Hatch Ajar |
| - High Trans Temp | - Door Ajar |
| - Flat Tire - LF, RF, LR or RR | - Tonneau Ajar |
| - High Tire Pressure - LF, RF, LR or RR | - Reserve Fuel |
| - Low Tire Pressure - LF, RF, LR or RR | - Change Oil Soon |
| - Low Oil Level | - Cruise Set XX MPH |
| - Low Coolant Level | - Cruise Off |
| - Low Voltage | - Broke Before Shift |
| - High Voltage | - Traction System On or Off |
| - Low Brake Fluid | - Traction System Active |
| - Change Oil Now | - Service ABS |
| - Service Traction System | - Trunk Ajar |

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METRIC (U.S. Customary)

Engine Description
 Engine Code

5.7 LITER V8
 LS1

Electrical - Supply System

Battery	Manufacturer	Delphi Energy & Engine Management Systems
	Model, std., (opt.)	655
	Voltage	12
	Amps at 0° F. cold crank	525
	Minutes-reserve capacity	90
	Amps/hrs.-20 hr. rate	54
	Location	Engine Compartment Directly Behind Right Wheel Opening
Alternator	Manufacturer	Valeo
	Rating (idle/max. rpm)	70-110 Amps @ 1600-6000 GRPM
	Ratio (alt. crank/rev.)	2.79:1
	Output at idle (rpm, park)	70 Amps @ 1600 GRPM
	Optional (type & rating)	Not Applicable
Regulator	Type	Integral with Alternator

Electrical - Starting System

Motor	Manufacturer	Delphi
	Current drain	450 Amperes
	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	41-952 Part No. 25171803
	Thread (mm)	14.0
	Tightening torque N-m (lb. ft.)	9-20 (7-15)
	Gap	1.5 mm (0.060")
	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 & A/C Compression Diode, with Radio Provisions
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MVMA Specifications

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METRIC (U.S. Customary)

Model Code/Description

2-DOOR COUPE PLAIN BACK
 1YY07

Body

Structure	Integral Perimeter with Structural Tunnel Frame - Birdcage Forms Strong Unitized Body Structure. Structural Composite Panels Bonded to Spaceframe. Aerodynamically Shaped Body with Deeply Angled Windshield. Major Body Panels SMC Reinforced Composite with Molded-In Coating. Rim Front Fenders. Single Lift Off Roof Panel (Coupe), Tinted Glass All Around. "Unibase" Paint Process, Final Clear Coat Paint Finish.
Bumper system front -rear	Front - Full-Width Polypropylene Foam Energy Absorber. Body Color, Glass-Reinforced Rim Fascia. Rear-Full Width Polypropylene Foam Energy Absorber. Body Color, Glass-Reinforced Rim Fascia. Steel Bumper Beams Integral to Frame (Welded) Front and Rear.
Anti-corrosion treatment	All Encompassing Corrosion Protection Including Extensive Use of Aluminum; Galvanization; Use of Specially Treated Fasteners; Austenitic Stainless Steel or Specially Coated Brackets, Clamps, Clips and Braces; Use of Aluminized Steel, Dip Painted; Use of Materials that Resist Corrosion.

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Water Bourne High Solids Base Coat Enamel with High Solids Clear Coat
Hood	Material & mass	Sheet Molded Compound with Steel Reinforcements, (15.0 lbs.)
	Hinge location (front, rear)	Front
	Type (counterbalance, prop)	Forward Hinged Hood (Dual Gas Struts)
	Release control (internal, external)	Interior
Trunk lid	Material & mass	
	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	
Hatchback lid	Material & mass	22.0 kg (48.5 lbs.) SMC Panels - Wrap Around Tempered Glass
	Type (counterbalance, other)	Front Hinged (Dual Gas Struts)
	Internal release control (elec., mech., n.a.)	Electric Release, Standard Instrument Panel and Key Fob
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 Available
Window regulator type (cable, tape, flex drive, etc.)	Front	Cable Drive
	Rear	Not Applicable
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket Seat: Leather Seating Surface
	Rear	Not Available
	3rd seat	Not Available
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket Seat: Leather Seating Surface
	Rear	Not Available
	3rd seat	Not Available

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	All-Welded Steel Spaceframe Construction, 98% Galvanized; Dip Primed. Bolt-On Front and Rear Aluminum Suspension Crossmembers.
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Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	3-Point Active Lap & Shoulder Belt		3-Point Active Lap & Shoulder Belt
		Second seat			
	Standard / Optional	Third seat			
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	Air Bag Standard		Air Bag Standard
		Second seat			
	Standard / Optional	Third seat			
Glass		SAE Ref.No.			
Windshield glass exposed surface area cm ² (in. ²)		S1	8710.0 (1350.0)		
Side glass exposed surface area cm ² (in. ²) - total 2 sides		S2	4725.8 (732.5)		
Backlight glass exposed surface area cm ² (in. ²)		S3	6205.0 (971.8)		
Total glass exposed surface area cm ² (in. ²)		S4	18922.2 (2932.9)		
Windshield glass (type/thickness)			Curved - Laminated Plate - Tinted - 5.4 mm		
Side glass (type/thickness)			Curved - Tempered Plate - Tinted - 5.0 mm		
Backlight glass (type/thickness)			Curved - Tempered Plate - Tinted (Hatchback) 4.0 mm		
Tinted (yes/no, location)			Yes - All		
Solar control (yes/no, coated/batched, location)					

Headlamps

Description (sealed beam, halogen, replaceable bulb, etc.)	Sealed Beam
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	2B1 on Both - One Capsule Per Side
Quantity	
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	
Quantity	

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Engine Code/Description

5.7 LITER V8
LS1

Climate Control System

Air conditioning (std., opt., man., auto.)		Manual A/C - Standard
Condenser	Type	Header Tube and Center
	Eff. face area (sq. mm.)	245,420
	Fins per inch	16.9 Fins/Inch
Evaporator	Type	Staggered Rib, Plate Type
	Eff. face area (sq. mm.)	48,387
	Fins per inch	14 Fins/Inch
Heater core	Material	Aluminum
	Eff. face area (sq. mm.)	29,060
	Fins per inch	33 Fins/Inch
Compressor	Type	Piston Type, Wobble Plate, Variable Displacement
	Displacement (cc.)	179 cc
	Manufacturer	Delphi Thermal Systems
	A/C pulley ratio	1.43:1
Accumulator	Type	Accumulator/Dehydrator
	Height (mm.)	231
	Diameter (mm.)	93
Receiver	Type	Not Available
	Height (mm.)	Not Available
	Diameter (mm.)	Not Available
Refrigerant control (CCOT, TVS, etc.)		VDOT
Heater water valve (yes / no)		No
Refrigerant (R - 12, R - 134a, etc.)		R-134a
Charge level (lbs. - oz.)		1.625
Cold engine lockout switch (yes / no)		No
Wide open throttle cutout switch (yes / no)		No

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Model Code/Description

2-DOOR COUPE PLAIN BACK
1YY07

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

	Clock (digital, analog)	
	Compass / thermometer	Thermometer on CJ2
	Console (floor, overhead)	Standard Floor
	Defroster, electric windshield	Not Available
	Defroster, electric backlight	Standard
Electronic	Diagnostic monitor (integrated, individual)	Standard - ALCL (Assembly Line Communications Link); Integrated
	Instrument cluster (list instruments)	Speedo, Tach, Coolant Temps, Oil Pressure, Volts, Fuel
	Keyless entry	Passive, Active Standard
	Tripminder (avg. spd., fuel)	Range, Average and Instant MPG
	Voice alert (list items)	Not Available
	Other	Analog Instrumentation Standard
	Fuel door lock (remote, key, electric)	Electric Remote
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)	Yes
	Cornering	Not Available
	Courtesy (map, reading)	Standard - Floor, Inside Rear View Mirror
	Door lock, ignition	Not Available
	Engine compartment	Standard (Optional TR9 on 1YY37)
	Fog	Optional
	Glove compartment	Standard - In Glove Box
	Trunk	Standard - Two Lamps Mounted in Rear Quarter (Optional TR9 on 1YY37)
	Illuminated entry system (list lamps, activation)	Courtesy Lamps
	Other	Not Applicable
Mirrors	Day / night (auto., man.)	Standard, Manual
	L.H. (remote, power, heated)	Power Standard, Heated
	R.H. (convex, remote, power, heated)	Power Standard, Heated
	Visor vanity (RH / LH, illuminated)	Standard, Illuminated (1YY07, 1YY67) (Optional on 1YY37)
	Navigation system (describe)	None
	Parking brake-auto release (warning light)	Manual Release, Tell-Tale-Standard

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METRIC (U.S. Customary)

Model Code/Description

2-DOOR COUPE PLAIN BACK
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Convenience Equipment (standard, optional, n.a.)

Power equipment	Deck lid (release, pull down)		Standard - Electric Hatch Release (Two Remote Locations - Instrument Panel and Door Key)
	Door locks (manual, automatic, describe system)		Standard Deck Lid Hatch Standard Door Locks
	Seats	2 - 4 - 6 way, etc.	Six-Way Optional
		Reclining (R.H., L.H.)	Manual Standard
		Memory (R.H., L.H., preset recline)	Optional (Not Available 1YY37)
		Support (lumbar, hip, thigh, etc.)	Power Lumbar Optional (Not Available 1YY37)
		Heated (R.H., L.H., other)	Not Available
	Power Telescoping Column		Optional (1YY07, 1YY67) (Not Available 1YY37)
	Side windows		Standard
	Vent windows		Not Available
Rear windows			
Convertible Deck Lid		Standard - Power Release (Two Remote Locations - Instrument Panel and Door Key)	
Radio systems	Antenna (location, whip, w/shield, power)		Windshield, Rear Glass or Power Antenna
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo Cassette / Bose; 4 Speaker System Standard on 1YY37
	Optional		AM/FM Stereo / Compact Disc / Bose Remote, 12 Disc, Compact Disc Changer in Rear Storage Well
	Speaker (number, location)		Bose - Four Front, Two Rear
	Roof: open air or fixed (flip-up, sliding, "T")		Single, Full Width Lift - Off Roof Panel; Convertible Folding Top
Speed control device		Standard - Electronic Speed & Cruise Control with Resume Feature	
Speed warning device (light, buzzer, etc.)		Not Available	
Tachometer (rpm)		7,000	
Telephone system (describe)		Cellular Phone Power Connector Under Passenger Foot Floor	
Theft deterrent system		"VATS" Pass Key (Personal Automobile Security System) Includes Special Module with Resistor Decoder and Ignition Key with Embedded Pellets of Specified Resistance. Built-In Time Lag Forces Delay Between Attempts to Start Vehicle with Improper Key. Also Includes Anti-Theft Horn Alarm System with Starter Enable & Fuel (Doors and Hatch).	

Trailer Towing

(Not Applicable)

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

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

MVMA Specifications

Vehicle Line CORVETTE
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.	2-DOOR COUPE PLAIN BACK 1YY07	2-DOOR COUPE CONVERTIBLE 1YY67 - -
Width			
Tread (front)	W101	1575.6 (62.03)	
Tread (rear)	W102	1578.4 (64.4)	
Vehicle width	W103	1869.4 (73.6)	
Body width at SgRP (front)	W117	1853.2 (72.9)	
Vehicle width (front doors open)	W120	3978.4 (156.7)	
Vehicle width (rear doors open)	W121	--	
Tumble-home (degrees)	W122	31.3	
Outside mirror width	W410	2080.9 (81.93)	

Length

Wheelbase	L101	2655.5 (104.5)
Vehicle length	L103	4565.6 (179.7)
Overhang (front)	L104	987.3 (38.8)
Overhang (rear)	L105	908.0 (35.8)
Upper structure length	L123	2696.7 (106.2)
Rear Wheel C/L "X" coordinate	L127	4073.52 (160)

Height **

Passenger distribution (front/rear)	PD1 ,2,3	PD1 = Front, PD2, 3NA	
Trunk/cargo load			**
Vehicle height	H101	1211.5 (47.7)	1214.7 (47.8)
Cowl point to ground	H114	815.1 (32.1)	
Deck point to ground	H138	948.5 (37.3)	
Rocker panel-front to ground	H112	128.0 (5.0)	
Rocker panel-rear to ground	H111	131.3 (5.2)	
Windshield slope angle (degrees)	H122	63.9	
Backlight slope angle (degrees)	H121	75.3	59.07

Ground Clearance **

Front bumper to ground	H102	92.8 (3.7)
Rear bumper to ground	H104	343.6 (13.5)
Bumper to ground front at curb mass (wt.)	H103	106.9 (4.2)
Bumper to ground rear at curb mass (wt.)	H105	361.7 (14.2)
Angle of approach (degrees)	H106	8.82
Angle of departure (degrees)	H107	19.14
Ramp breakover angle (degrees)	H147	10.96
Axle differential to ground (front/rear)	H153	111.7 (4.4)
Min. running ground clearance	H156	36.7 (1.44)
Location of min. running ground clear.		Oil Drain Plug

** 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 CORVETTE

Model Year 1999

issued _____

Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description	SAE Ref. No.	2-DOOR COUPE PLAIN BACK 1YY07	2-DOOR COUPE CONVERTIBLE 1YY67
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Front Compartment

SgRP front, "X" coordinate	L31	3138.4 (124)	
Effective head room	H61	961.9 (37.8)	955.0 (37.6)
Max. effective leg room (accelerator)	L34	1085.8 (42.7)	
SgRP to heel point	H30	187.2 (7.4)	
SgRP to heel point	L53	900.8 (35.5)	
Back angle (degrees)	L40	24.5	
Hip angle (degrees)	L42	94.7	
Knee angle (degrees)	L44	130.5	
Foot angle (degrees)	L46	87.0	
Design H-point front travel	L17	205.7 (8.1)	
Normal driving & riding seat track trvl.	L23	188.8 (7.4)	
Shoulder room	W3	1405.4 (55.3)	
Hip room	W5	1377.8 (54.2)	
*** Upper body opening to ground	H50	1111.2 (43.7)	
Steering wheel maximum diameter*	W9	383.0 (15)	
Steering wheel angle (degrees)	H18	16.4	
Accel. heel pt. to steer. whl. cntr.	L11	526.9 (22.0)	
Accel. heel pt. to steer. whl. cntr.	H17	580.13 (15.6)	
Undepressed floor covering thickness	H67	16.0 (0.63)	

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		
Effective head room	H63		
Min. effective leg room	L51		
SgRP (second to heel)	H31		
Knee clearance	L48		
Shoulder room	W4		
Hip room	W6		
*** Upper body opening to ground	H51		
Back angle (degrees)	L41		
Hip angle (degrees)	L43		
Knee angle (degrees)	L45		
Foot angle (degrees)	L47		
Depressed floor covering thickness	H73		

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	Not Applicable
*** Lifter height	H195	935.2 (36.8)

Interior Volumes (EPA Classification)

Vehicle class		Mini-Compact
Interior volume index including trunk/cargo (cu. ft.)**	E1	Not Applicable
Trunk/cargo index (cu. ft.)	V13	Not Applicable

* 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 CORVETTE
Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description

2-DOOR COUPE PLAIN BACK
1YY07

Station Wagon/MPV*

SAE
Ref.
No.

-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	H197	
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	1242.4 (48.9)
Cargo length at floor (front)	L209	1305.5 (51.4)
Cargo length at second seatback height	L210	Not Applicable
Cargo length at floor (second)	L211	Not Applicable
Front seatback to load floor height	H197	471.7 (18.6)
Second seatback to load floor height	H198	Not Applicable
Cargo volume index m ³ (ft. ³)	V3	0.701 m ³ (24.75)
Hidden cargo volume index m ³ (ft. ³)	V4	Not Applicable
Cargo volume index - rear of 2-seat	V11	Not Applicable

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

* MPV - Multipurpose Vehicle

** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line CORVETTE

Model Year 1999

Issued _____

Revised (●) _____

METRIC (U.S. Customary)

Model Code/
Description

2-DOOR COUPE PLAIN BACK
1YY07

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		<p>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.</p> <p>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.</p> <p>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.</p>
Rear		<p>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.)</p> <p>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.)</p> <p>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.)</p>
NOTE: Provide 3 of 4 Fiducial Mark Locations		
Front	W21**	-555.0 (-21.8)
	L54**	2715.0 (106.8)
	H81**	364.3 (14.3)
	H161**	181.1 (7.4)
	H163**	165.7 (6.7)
Rear	W22**	Not Applicable
	L55**	Not Applicable
	H82**	Not Applicable
	H162**	Not Applicable
	H164**	Not Applicable

* 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.

Vehicle Line	CORVETTE		
Model Year	1999	Issued	Revised (●)

* Reference - SAE J1100 Motor vehicle dimensions, 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.

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

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MVMA Specifications
METRIC (U.S. Customary)

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

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
AAB	Memory Driver Convenience Pkg.	0.2 (0.4)	0.2 (0.4)	0.4 (0.8)	1YY07, 1YY67
AG1	Adjuster Front Seat Power, Multi-Directional, Driver	2.0 (4.4)	3.0 (6.6)	5.0 (11.0)	1YY37
AG2	Adjuster Pass Seat-Power, Multi-Directional	2.0 (4.4)	3.0 (6.6)	5.0 (11.0)	1YY07, 1YY67
AQ9	Seat Front Bucket, Passenger, Driver, Recliner	0.3 (0.7)	1.4 (3.0)	1.7 (3.7)	1YY07, 1YY67
AU3	Lock Control Side Door, Electric	0.1 (0.2)	0.0 (0.0)	0.1 (0.2)	1YY37
B34	Covering Front Floor Mats	0.8 (1.8)	0.5 (1.1)	1.3 (2.9)	
B84	Molding Body Side Exterior	0.4 (0.9)	0.5 (1.1)	0.9 (2.0)	
CC3	Roof Hatch, Removable Panels, Plastic	-0.6 (-1.3)	-0.6 (-1.3)	-1.2 (-2.6)	1YY07
CJ2	HVAC System Air Conditioner Front, Auto Temperature Control, Auxiliary Temperature Control	0.3 (0.7)	0.2 (0.4)	0.5 (1.1)	1YY07, 1YY67
C2L	Roof Package - Dual Removable	-0.5 (-1.1)	9.4 (20.7)	8.9 (19.6)	1YY07
D42	Shade - Rear Compartment	0.0 (0.0)	0.8 (1.8)	0.8 (1.8)	1YY07
F45	Chassis Continuously Variable Real Time Damping	5.1 (11.0)	6.9 (15.2)	12.0 (26.2)	1YY07, 1YY67
MM6	Manual Transmission	9.4 (-20.7)	-19.9 (-43.9)	-10.5 (-23.2)	
N73	Wheel Custom Sport, Var 4	-1.9 (-4.2)	-1.9 (-4.2)	-3.8 (-8.4)	1YY07, 1YY67
TR9	Lamp Group	0.1 (0.2)	0.1 (0.2)	0.2 (0.4)	1YY37
T96	Fog Lamps	0.9 (2.0)	-0.2 (-0.5)	0.7 (1.5)	
U1S	Player Multiple Compact Disk	0.3 (0.7)	3.5 (7.7)	3.8 (8.4)	
Z51	Performance Package Handling	1.5 (3.3)	0.7 (1.6)	2.2 (4.9)	

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