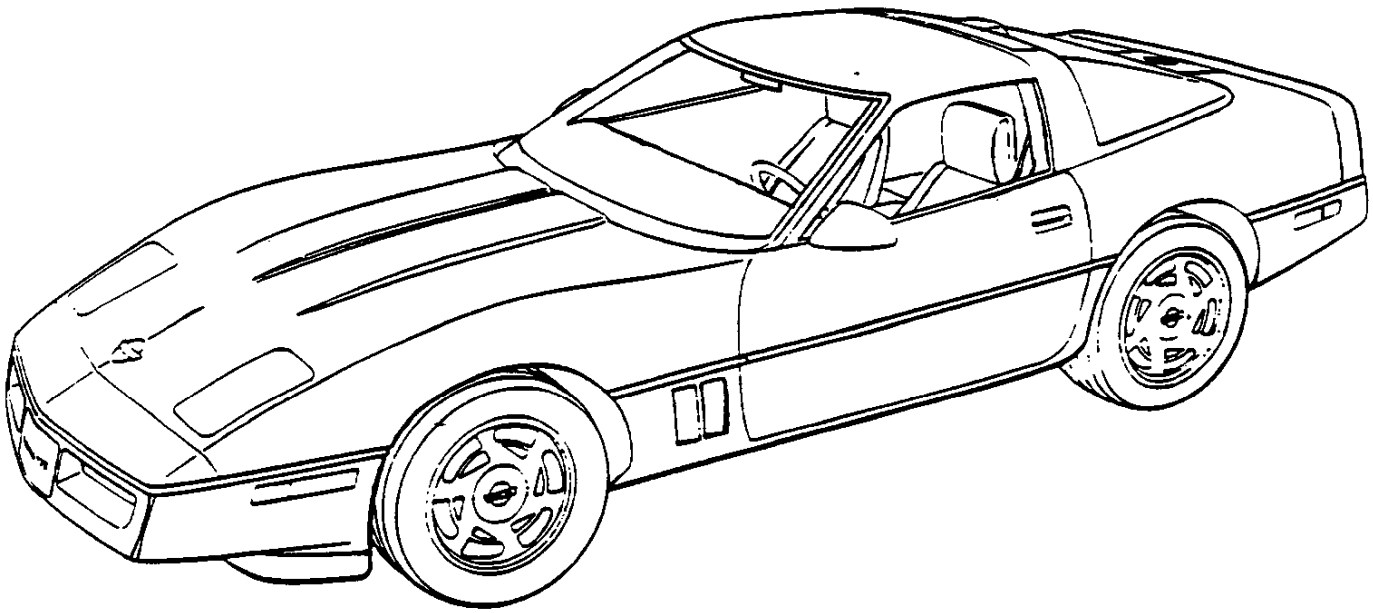
CHEVROLET

1990

CORVETTE

SPECIFICATIONS



GENUINE CHEVROLET

1990 CORVETTE

Production: 16,016 coupe, 7,630 convertible, 23,646 total

1990 NUMBERS

Vehicle: 1G1YY2380L5100001 thru 1G1YY2380L5120597
1G1YZ23J6L5800001 thru 1G1YZ23J6L5803049 (ZR1)
- For convertibles, sixth digit is a 3.
- Ninth digit is a check code and varies.

Suffix: ZSA: 350ci, 245hp, 250hp, at
ZSB: 350ci, 245hp, 250hp, mt, oc
ZSC: 350ci, 245hp, 250hp, at, oc
ZSD: 350ci, 375hp, ac
ZSH: 350ci, 375hp, ea

- For Callaway twin-turbo, Chevrolet engine coding was replaced as follows: First two digits for year, next three digits for Callaway sequence, last four digits to match last four digits of vehicle identification number.

Block: 14093638: All

Head: 10088113: All

Abbreviations: ac=air conditioning, at=automatic transmission, ci=cubic inch, ea=electronic air conditioning control, hp=horsepower, mt=manual transmission, oc=engine oil cooler.

1990 FACTS

- The ZR-1 (RPO ZR1) arrived as a 1990 model after much anticipation. At the heart of the ZR-1 was the 375hp LT5 engine. It was designed with the same V-8 configuration and 4.4-inch bore spacing as the standard L98 Corvette engine, but was an otherwise new design with four overhead camshafts and 32 valves. LT5 engines were manufactured and assembled by Mercury Marine in Stillwater, Oklahoma, then shipped to the Corvette Bowling Green assembly plant for ZR-1 vehicle assembly.
- For a limited time during 1990, dealers could order Corvettes destined for the new World Challenge race series. Merchandising code R9G triggered deviations from normal build, such as heavy-duty springs with FX3. Owners could buy race engines from Chevrolet or build their own, and all race modifications were the owner's responsibility. Twenty-three 1990 R9G Corvettes were built.
- An air intake speed density control system, camshaft revision, and compression ratio increase added 5hp to base-engines, up from 240hp to 245hp (except coupes with 3.07:1 or 3.33:1 axle ratios which increased from 245hp to 250hp because of their less-restrictive exhaust systems).
- 1990 Corvettes had improved ABS and improved yaw control.
- An engine oil life monitor calculated useful oil life based on engine temperatures and revolutions. An instrument panel display alerted the driver when an oil change was recommended.
- The RPO V01 radiator and B4P boost fan were not optional in 1990, both made unnecessary by 1990's more efficient, sloped-back radiator design.
- Two premium 200-watt Delco-Bose stereo systems were available, the top unit featuring a compact disc player. To discourage theft, the CD required electronic security code input after battery disconnect.
- The instrument panel for 1990 was redesigned as a "hybrid," combining a digital speedometer with analog tachometer and secondary gauges. A supplemental inflatable restraint system (SIR) with airbag was added to the driver side, a glovebox to the passenger side.
- The "ABS Active" light was removed from the driver information center.
- Seat designs were the same for 1990 as the previous year, except the backs would latch in the forward position.
- Chevrolet service departments returned LT5 engines to Mercury Marine for certain repairs. Customers had the choice of a replacement engine, or return of their original engine if repairable.

1990 OPTIONS

RPO #	DESCRIPTION	QTY	RETAIL $
1YY07	Base Corvette Sport Coupe	16,016	$31,979.00
1YY67	Base Corvette Convertible	7,630	37,264.00
AC1	Power Passenger Seat	20,419	270.00
AC3	Power Driver Seat	23,109	270.00
AQ9	Sport Seats, leather	11,457	1,050.00
AR9	Base Seats, leather	11,649	425.00
B2K	Callaway Twin-Turbo (not GM installed)	58	26,895.00
CC2	Auxiliary Hardtop (for convertible)	2,371	1,995.00
C2L	Dual Removable Roof Panels (for coupe)	6,422	915.00
24S	Removable Roof Panel, blue tint (coupe)	7,852	615.00
64S	Removable Roof Panel, bronze tint (coupe)	4,340	615.00
C68	Electronic Air Conditioning Control	22,497	180.00
FX3	Selective Ride and Handling, electronic	7,576	1,695.00
G92	Performance Axle Ratio	9,362	22.00
K05	Engine Block Heater	1,585	20.00
KC4	Engine Oil Cooler	16,220	110.00
MN6	6-Speed Manual Transmission	8,100	0.00
NN5	California Emission Requirements	4,035	100.00
UJ6	Low Tire Pressure Warning Indicator	8,432	325.00
UU8	Stereo System, Delco-Bose	6,401	823.00
U1F	Stereo System with CD, Delco-Bose	15,716	1,219.00
V56	Luggage Rack (for convertible)	1,284	140.00
Z51	Performance Handling Package (for coupe)	5,446	460.00
ZR1	Special Performance Package	3,049	27,016.00

- A 350ci, 245/250hp engine, 4-speed automatic transmission, removable body-color roof panel (coupe) or soft top (convertible), and cloth seats were included in the base price.
- RPO Z51 included KC4, heavy-duty suspension and brakes. Available with coupe and manual transmission only.
- RPO ZR1 included unique bodywork (doors, rear quarters, rockers, rear facia, and rear upper panel) to accept Goodyear Z-rated P315/35ZR17 tires on 11-inch wide rear rims. RPOs AC1, AC3, AQ9, FX3, LT5 (32-valve engine, exclusive to the ZR-1), U1F, UJ6 and a specially laminated "solar" windshield were included. RPO MN6 manual transmission was required. Available in coupe body style only.
- RPO K05 engine block heater was not available with RPO ZR1.

1990 COLORS

CODE	EXTERIOR	QTY	SOFT TOP	INTERIORS
10	White	4,872	Bk-S-W	B-Bk-G-R-S
25	Steel Blue Metallic	813	Bk-W	B-Bk
41	Black	4,759	Bk-W	B-Bk-G-R
42	Turquoise Metallic	589	Bk-S	Bk-S
53	Competition Yellow	278	Bk-S-W	Bk-G-S
68	Dark Red Metallic	2,353	Bk-S-W	Bk-S
80	Quasar Blue Metallic	474	Bk-S	Bk-S
81	Bright Red	6,956	Bk-S-W	Bk-G-R-S
91	Polo Green Metallic	1,674	Bk-S	Bk-S
96	Charcoal Metallic	878	Bk-S	Bk-G

- Only interior-exterior combinations shown were considered acceptable.
- Restrictions applied to some soft top and interior color combinations.
- Codes 42, 53 and 80 were not available early.
- Code 53 Competition Yellow exterior was discontinued 5-11-90 due to pigment photosensitivity which caused the paint to temporarily darken after sunlight exposure.
- Interior colors sold in 1990 were 10,076 black, 6,467 red, 3,565 saddle, 2,802 gray, 736 blue.

Interior Codes: 19C=Bk/C, 193=Bk/L, 223=B/L, 60C=S/C, 603=S/L, 733=R/L, 903=G/L.

Abbreviations: B=Blue, Bk=Black, C=Cloth, G=Gray, L=Leather, R=Red, S=Saddle, W=White.

The Corvette Black Book

1953-1993

October 1992
Published by
Michael Bruce Associates, Inc.
Michael Antonick, President
Post Office Box 396
Powell, Ohio 43065

CONTENTS

Michael Bruce Associates, Inc. acknowledges with appreciation the following enthusiasts who contributed their expertise to this and previous editions of the *Corvette Black Book*: Noland Adams, Dan Aldridge, John Amgwert, Pat Baker, Jane Barthelme, Michele Boling, Kent Brooks, Barry Brown, David Burroughs, Steve Dangremond, Dr. M. F. Dobbins, Bob Eckles, the late Sam Folz, John Hibbert, Mike Hunt, Alan Kaplan, Paul Kitchen, Gary Konner, Ralph Kramer and staff, Jim Krughoff, Gary Lisk, Bill Locke, Bob Lojewski, Bob McDorman, Chip Miller, Bill Mock, Brian Pearce, John Poloney, Bill Rhodes, Jeffrey Smith, Mark & Dixie Smith, Lou Vitalle, Jerry Wadsworth, Jerry Weichers and Don Williams. Thanks also to Callaway Engineering, to Mercury-Marine, and to the Chevrolet Motor Division of General Motors Corporation.

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Cover: Photo and design by Mike Antonick. 1963 Corvette owned by Bill Munzer; restored by Bill Munzer and Don Williams.

Printed and bound in the United States of America.

ISBN: 0-933534-35-3

BOOK TRADE DISTRIBUTION BY:
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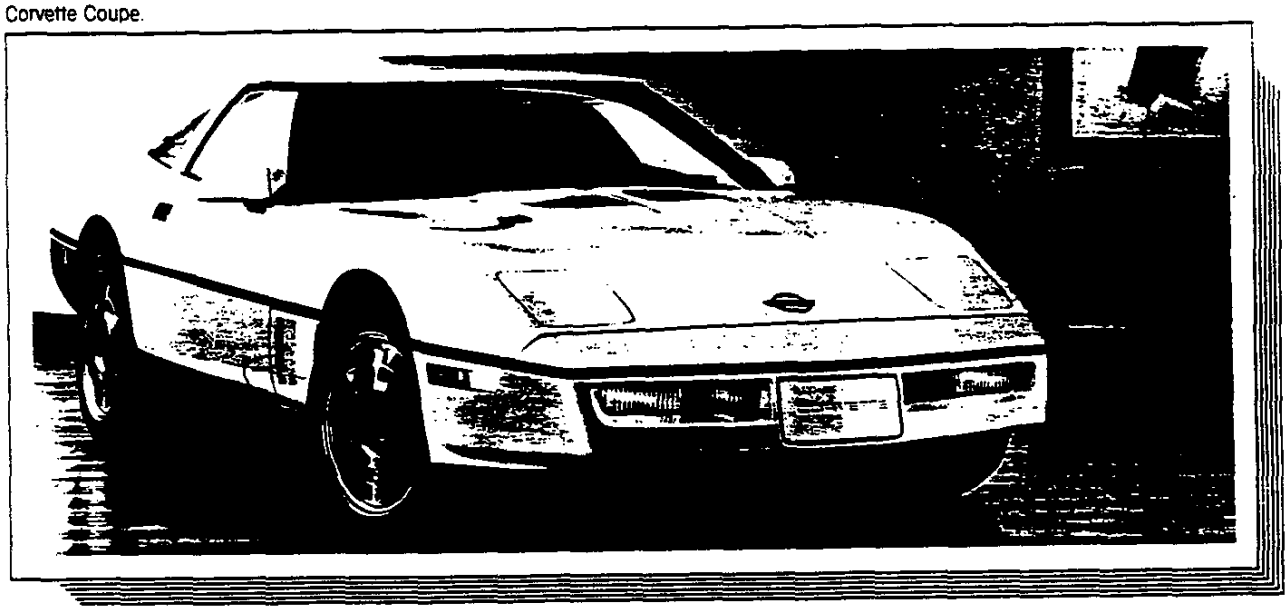
CORVETTE

CORVETTE	MODEL NUMBER	PASSENGER CAPACITY
2-Door Coupe	1YY07	All Models
2-Door Convertible	1YY67	

Corvette Coupe.



HIGHLIGHTS

- Interior treatment is entirely new for '90 and includes newly designed instrument panel, console, cluster door trim and steering wheel.
- A Supplemental Inflatable Restraint (SIR) System is standard on the driver's side.
- Engine oil cooler is now standard.
- New lighter weight 17" x 9½" wheels
- Optional Delco®/Bose premium sound system with digital compact disc and cassette player available.
- New base cooling system negates need for a heavy-duty cooling option.
- One new exterior color, Polo Green Metallic, is introduced.
- Driver's side illuminated visor vanity mirror.
- Electronic Selective Ride and Handling option (RPO FX3) available (requires Z51 Performance Handling Package).
- A Low Oil Sensor signals "Low Oil" on the Driver Information Panel if level drops significantly
- An Engine Oil Life Monitor signals "Change Engine Oil" when the on-board computer calculates the need for fresh oil

EQUIPMENT AVAILABILITY

	Coupe	Conv.
Power-operated retractable halogen headlamps	S	S
Halogen fog lamps	S	S
Dual electrically adjusted and heated mirrors	S	S
Full-glass rear hatch with roller cargo cover	S	NA
One-piece removable fiberglass roof panel	S	NA
Full-folding roof	NA	S
PASS-Key® anti-theft system	S	S
Intermittent wiper system	S	S
Electronic speed control with Resume Speed	S	S
Air conditioning	S	S
Heated rear window	S	NA
Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)	S	S
AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna	S	S
Power door locks	S	S
Power windows	S	S
Cloth bucket seats with lateral support and back angle adjustment plus wool-pad comfort liner	S	S
Outside engine air induction	S	S
P275/40ZR-17 Eagle radial tires	S	S
17" x 9½" cast aluminum wheels	S	S
Power 4-wheel disc brakes	S	S
Bosch ABS II anti-lock braking system	S	S
Power rack-and-pinion steering	S	S
Heavy-duty Bilstein gas-charged shock absorbers	S	S
Underhood lamps	S	S
Acoustical insulation package	S	S
Uniframe-design body structure with corrosion-resistant coating	S	S

S–Standard NA–Not Available

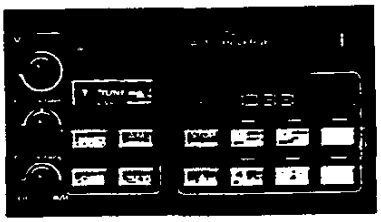
Refer to Passenger Car Order Guide for option availability and application.

ORDERING INFORMATION

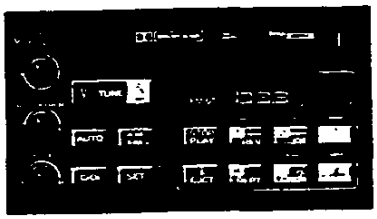
WHEEL TRIM

Standard Corvette 17" x 9½" cast aluminum wheels.

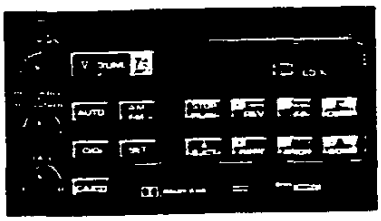
RADIOS



Standard AM/FM stereo radio with Seek and Scan, stereo cassette tape player, power antenna and digital clock; four stereo speakers.



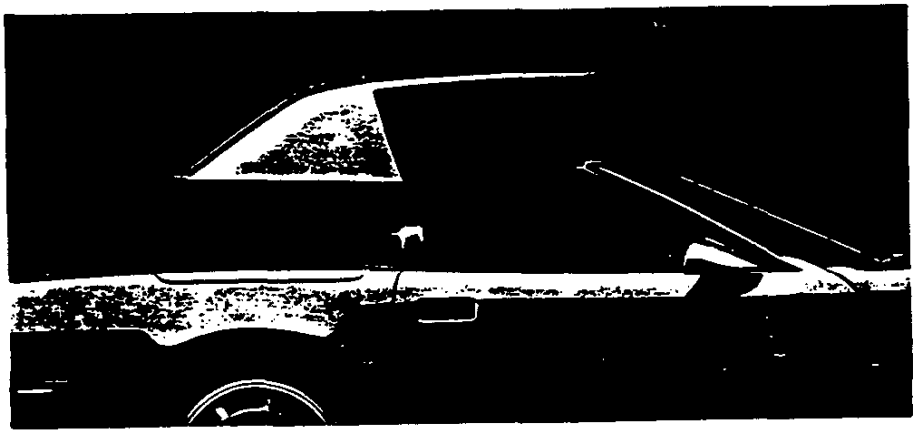
Optional Delco®/Bose Music System, with electronically tuned AM/FM stereo radio with Seek and Scan, stereo cassette tape player, digital clock and four tuned Bose stereo speakers (RPO UU8).



Optional Delco®/Bose Music System with electronically tuned AM/FM stereo radio, automatic Up/Down Seek, speed-activated volume control, stereo digital compact disc player, stereo cassette tape player, digital clock and four tuned Bose stereo speakers (RPO U1F).

Appearance of radios may vary by car model.

REMOVABLE HARDTOP OPTION

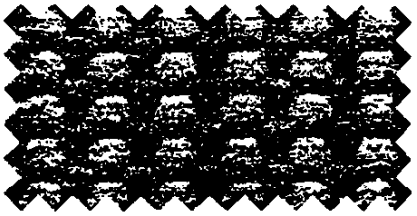


Removable Hardtop (RPO CC2) is available for Corvette Convertible. Finished in body color.

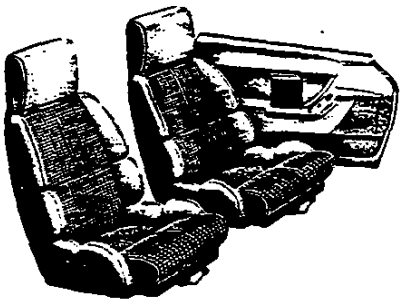
Refer to Passenger Car Order Guide for option availability and application.

SEAT TYPES & COLORS

CORVETTE STANDARD CLOTH SEAT TRIM



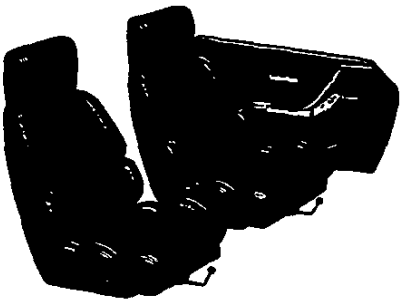
Standard sport cloth trim available in Black or Saddle.



Standard sport cloth reclining bucket seats with integral head restraints and wool-pad comfort liner.

CORVETTE OPTIONAL LEATHER BUCKET SEATS

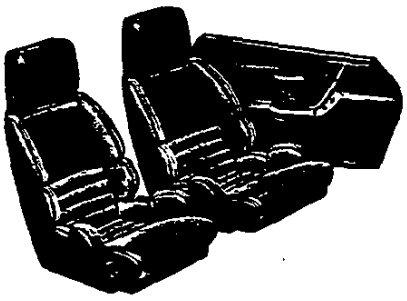
Optional leather seat trim available in Blue, Black, Gray, Red or Saddle.



Optional leather reclining bucket seats with integral head restraints and wool-pad comfort liner.

CORVETTE OPTIONAL SPORT SEATS WITH LEATHER TRIM*

Optional leather sport seat trim available in Blue, Black, Gray, Red or Saddle.

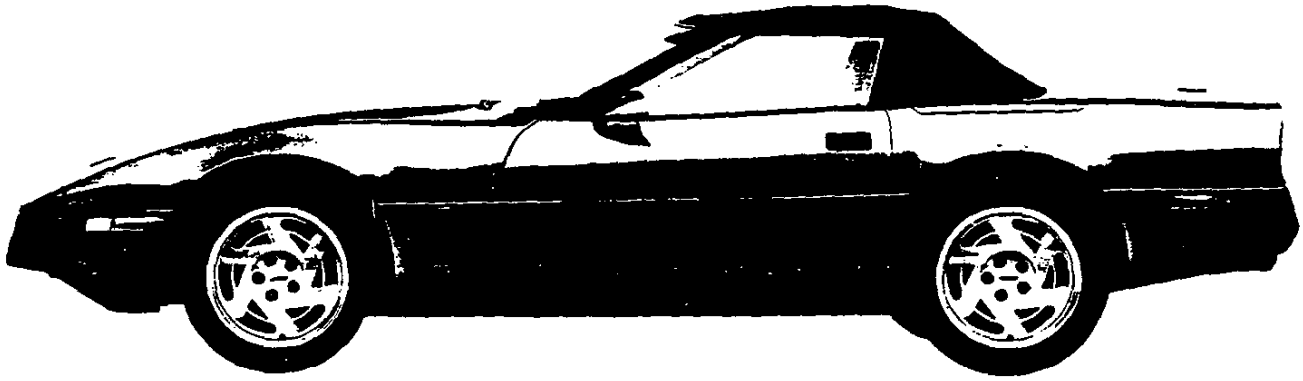


Optional articulated sport seats with leather trim.*

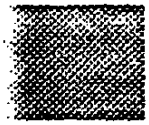
*Available only with RPO Z51 Performance Handling Package.

Refer to Passenger Car Order Guide for option availability and application.

CONVERTIBLE TOP COLORS



10T—White. 19T—Black.



67T—Saddle.

PREFERRED EQUIPMENT GROUPS

NOTE: NOT TO BE USED FOR ORDERING. REFER TO ORDER GUIDE FOR CURRENT USAGE AND AVAILABILITY.

	CORVETTE COUPE	CORVETTE CONVERTIBLE
DESCRIPTION	***P.E.G.*** *1*	***P.E.G.*** *1*
Electronic Air Conditioning	X	X
Delco[5]/Bose Music System	X	X
Power Seat (Driver's)	X*	X*
INDIVIDUAL OPTIONS		
Radio Equipment		
Delco[4]/Bose Music System	X*	X*
Delco[4]/Bose Music System with Digital Compact Disc and Cassette Player	O	O
Additional Individual Options		
Electronic Air Conditioning	X*	X*
Performance Ratio Axle	O†	O†
Engine Block Heater	O	O
Low Tire Pressure Warning	O	O
Performance Handling Package	O†**	
Power 6-Way Seat (Passenger's)	O	O
Roof Panels—Transparent Removable—Blue Tint	O	
Roof Panels—Transparent Removable—Bronze Tint	O	
Roof Package (Incls. Standard Solid Panel and Transparent Blue or Bronze Tint Panels)	O	
Electronic Selective Ride and Handling (Reqs. Z51)	O	
Luggage Carrier (Black)		O
Hardtop, Removable		O

X—Included in P.E.G. O—Available Individual Option. *Also available as an Individual Option with Base Vehicle Group.
†See Order Guide for Power Team Restrictions. **See Order Guide for content.

Refer to Passenger Car Order Guide for option availability and application.

MODELS — PASSENGERS

Coupe 1YY07 2
Convertible 1YY67 2

DIMENSIONS (inches)

EXTERIOR
Wheelbase 96.2
Length (overall) 176.5
Width (overall) 71.0

INTERIOR
Head Room–Front 36.4
Shoulder Room–Front 54.0
Hip Room–Front 49.3
Leg Room–Front 42.6

LUGGAGE/CARGO CAPACITY (cu. ft.)
Luggage Compartment ..... Coupe 17.9
..... Convertible 6.6

RATED FUEL TANK CAPACITY (gallons) 20.0

POWER TEAMS

STANDARD ENGINE
RPO – L98 5.7 Liter (350 cu. in.) V8 with Tuned–Port Fuel Injection (TPI)

STANDARD TRANSMISSION
4–Speed Automatic Overdrive

OPTIONAL TRANSMISSION
6–Speed Manual

STANDARD EQUIPMENT SUMMARY

Clamshell–Opening Front End Assembly for Easy Engine Access
Power–Operated Retractable Halogen Headlamps
Halogen Fog Lamps
Dual Electrically Adjustable Heated Outside Rear View Mirrors
Full–Glass Rear Hatch with Three Remote Releases and Roller–Shade Cargo Cover (Coupe)
One–Piece Removable Fiberglass Roof Panel (Coupe)
Full Folding Roof for Convertible
Rear Back–up Lamps
Front Cornering Lamps
Center High–Mounted Stop Lamp (in Rear Fascia Above License Plate Pocket on Convertible; Roof–Mounted coupe)
PASS–Key Anti–Theft System
Supplemental Inflatable Restraint (SIR)
Electronic Liquid–Crystal Instrumentation with Multi–Colored Analog and Digital Display; Switchable English or Metric Readouts
Headlamps–on Reminder
Intermittent Wiper System
Electronic Speed Control with Resume Speed
Air Conditioning
Side Window Defoggers
Rear Window Defogger (Coupe)
Day/Night Rearview Mirror with Map and Ashtray Light
AM/FM Stereo Radio with Cassette and Digital Clock*; Four Speakers and Automatic Power Antenna
Center Console with Coin Tray, Cassette and CD Storage, Locking Lighted Storage Compartment and Control Switches for Power Windows, Air Conditioning, Radio, Electric Mirrors and Optional Power Seats and Selective Ride Control
Leather–Wrapped Two–Spoke Sport Steering Wheel
Comfortilt Steering Wheel
Power Door Locks
Power Windows
Cloth Seats with Lateral Support and Back Angle Adjustment
5.7 Liter V8 Engine with Aluminum Heads, Magnesium Valve Rocker Covers, Tuned–Port Fuel Injection (TPI), Aluminum Intake Manifold with Tuned Runners, and Roller Valve Lifters
Delcotron Generator with Built–in Solid State Regulator
Outside Air Induction System
17" x 9 1/2" Cast Aluminum Wheels with P275/40ZR–17 Eagle Tires
Bosch ABS II Anti–Lock Braking System
Independent Front and Rear Suspension with Transverse Fiberglass Leaf Springs and Forged Aluminum A–Arms
Bilstein Digressive Valving Monotube Shock Absorbers
Power Rack–and–Pinion Steering
Power Front/Rear Disc Brake System
Underhood Lamps
Uniframe–Design Body Structure with Corrosion–Resistant Coating
Acoustical Insulation Package
Glove Box
Illuminated Drivers Vanity Mirror
Scotchgard™ Fabric Protector

*May be upgraded

SEAT STYLES

STANDARD SEATS
Cloth Standard Bucket Seat

OPTIONAL SEATS
Leather Bucket
Leather Adjustable Sport Bucket

COLOR AND TRIM SELECTION

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

Interior Trim Color		Blue	Black	Gray	Red	Saddle
MODEL	SEAT TYPE					
1YY07	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
	*Leather Adjustable Sport Bucket	ADD8	ABB8	AQQ8	ARR8	AUU8
	Cloth Bucket		HBB2			HUU2

*Reqs AC1 & AC3 Power Seats

✔ SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Blue	Black	Gray	Red	Saddle
Black	41	41	●	●	●	●	●
Blue, Med Quasar (Met)	80	80		●			●
Blue, Steel (Met)	25	25	●	●			
Charcoal, Corvette (Met)	96	96		●	●		
Polo Green, Corvette (Met)	91	91		●			●
Red, Corvette Bright	81	81		●	●	●	●
Red, Corvette Dk (Met)	68	68		●			●
Turquoise (Met)	42	42		●			●
Yellow, Competition	53	53		●	●		●
White, Corvette	10	10	●	●	●	●	●

POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO		
	2.59	3.07	3.33
WITH NA5 STANDARD EMISSIONS			
L98 MX0	Std	G92	—
MN6	—	—	Std
WITH NN5 CALIFORNIA EMISSIONS			
L98 MX0	Std	G92	—
MN6	—	—	Std

32,479.00 **Model 1YY07**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		CVA1
1,273.00	**Preferred Equipment Group 1**	
	Air Conditioning – Electronic	x
	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock	x
	Power Seat (Driver)	x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code CVAB

REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

	ENGINE (Must Order)	
N.C.	L98	5.7 Liter TPI V8
	TRANSMISSION (Must Order One)	
N.C.	MX0	4-Speed Automatic
N.C.	MN6	6-Speed Manual (Reqs KC4 Eng Oil Cooler)
	EMISSION (Must Order One)	
N.C.	NA5	Standard Emissions
100.00	NN5	California Emissions
	TIRES	
N.C.	---	P275/40 ZR17 B/W (Base)
	WHEELS	
N.C.	---	17 X 9 1/2" Aluminum Wheels (Base)
	RADIO EQUIPMENT	
V.P.S.	---	AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape Player, Power Antenna and Digital Clock (Base)
V.P.S.	UU8	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock (Incl w/Group CVA1)
V.P.S.	U1F	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape, Compact Disc Player and Digital Clock

	INTERIOR TRIM	
425.00	A**2	Leather Bucket
1,050.00	A**8	Leather Adjustable Sport Bucket
N.C.	H**2	Cloth Bucket
	ADDITIONAL OPTIONS	
180.00	C68	Air Conditioning, Electronic (Incl w/Group CVA1)
22.00	G92	Axle, Performance Ratio (N/A MN6 Trans) (Reqs KC4 Eng Oil Cooler)
110.00	KC4	Cooler, Engine Oil
20.00	K05	Heater, Engine Block
325.00	UJ6	Low Tire Pressure Warning
460.00	Z51	Performance Handling Package (Req MN6 Trans) (Incls Special Suspension)
270.00	AC3	Power Seat, Six-Way (Driver) (Incl w/Group CVA1)
270.00	AC1	Power Seat, Six-Way (Passenger) (Reqs AC3 Power Seat)
615.00	24S	Roof Panels-Transparent Removabl Blue Tint
615.00	64S	Roof Panels-Transparent Removabl Bronze Tint
915.00	C2L	Roof Package (Incls Std Solid Panel and Transparent Panel) (Reqs 24S or 64S Panel)
1,695.00	FX3	Selective Ride and Handling, Electronic

COLOR AND TRIM SELECTION

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

Interior Trim Color		Blue	Black	Gray	Red	Saddle
MODEL	SEAT TYPE					
1YY67	Leather Bucket	AD02	AB82	AQQ2	ARR2	AUU2
	* Leather Adjustable Sport Bucket	AD08	AB88	AQQ8	ARR8	AUU8
	Cloth Bucket		HB82			HUU2

*Reqs AC1 and AC3 Power Seats

✓ @CONVERTIBLE TOP SELECTOR

Exterior Paint Color	Color Code 1	Color Code 2	Blue	Black	Gray	Red	Saddle
Black	41	41	19T	10T/19T	10T/19T	19T	- -
Blue, Med Quasar (Met)	80	80		19T			67T
Blue, Steel (Met)	25	25	10T/19T	10T/19T			
Charcoal, Corvette (Met)	96	96		10T/19T	10T/19T		
Polo Green, Corvette (Met)	91	91		19T/67T			19T/67T
Red, Corvette Bright	81	81		10T/19T	10T/19T	10T/19T	19T/67T
Red, Corvette Dk	68	68		10T/19T			19T/67T
Turquoise (Met)	42	42		19T			67T
Yellow, Competition	53	53		10T/19T	10T/19T		19T/67T
White, Corvette	10	10	10T	10T/19T	10T/19T	10T/19T	10T/67T

@Convertible Top Option Must Be Specified In "Plus" (+) Option Section of Order Worksheet.

CONVERTIBLE TOP COLOR

WHITE ..... 10T BLACK ..... 19T SADDLE 67T

POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO		
	2.59	2.73	3.33
WITH NA5 STANDARD EMISSIONS			
L98 MXO	Std	G92	—
MN6	—	—	Std
WITH NN5 CALIFORNIA EMISSIONS			
L98 MXO	Std	G92	—
MN6	—	—	Std

37,764.00 **Model 1YY67**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		CYA1
1,273.00	**Preferred Equipment Group 1**	
	Air Conditioning – Electronic	x
	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek–Scan, Stereo Cassette Tape and Digital Clock	x
	Power Seat (Driver)	x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code CYAB

REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ENGINE (Must Order)

N.C. L98 5.7 Liter TPI V8

TRANSMISSION (Must Order One)

N.C. MX0 4–Speed Automatic

N.C. MN6 6–Speed Manual (Reqs KC4 Eng Oil Cooler)

EMISSION (Must Order One)

N.C. NA5 Standard Emissions

100.00 NN5 California Emissions

TIRES

N.C. --- P275/40 ZR17 B/W (Base)

WHEELS

N.C. --- 17 X 9 1/2" Aluminum Wheels (Base)

RADIO EQUIPMENT

V.P.S. --- AM/FM Stereo Radio w/Seek–Scan, Stereo Cassette Tape Player, Power Antenna and Digital Clock (Base)

V.P.S. UU8 Delco/Bose Music System Electronically Tuned AM/FM Stereo Radio w/Seek–Scan, Stereo Cassette Tape and Digital Clock (Incl w/Group CYA1)

V.P.S. U1F Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek–Scan, Stereo Cassette Tape, Compact Disc Player and Digital Clock

INTERIOR TRIM

425.00 A**2 Leather Bucket

1,050.00 A**8 Leather Adjustable Sport Bucket

N.C. H**2 Cloth Bucket

ADDITIONAL OPTIONS

180.00 C68 Air Conditioning, Electronic (Incl w/Group CYA1)

22.00 G92 Axle, Performance Ratio (N/A MN6 Trans) (Reqs KC4 Eng Oil Cooler)

140.00 V56 Carrier, Luggage: Black

110.00 KC4 Cooler, Engine Oil

1,995.00 CC2 Hardtop, Removable

20.00 K05 Heater, Engine Block

325.00 UJ6 Low Tire Pressure Warning

270.00 AC3 Power Seat, Six–Way (Driver) (Incl w/Group CYA1)

270.00 AC1 Power Seat, Six–Way (Passenger) (Reqs AC3 Power Seat)

1,695.00 FX3 Selective Ride and Handling, Electronic

SECTION 0A
GENERAL INFORMATION

CAUTION: This vehicle is equipped with Supplemental Inflatable Restraint (SIR). Refer to CAUTIONS in Section 9J under "On-Vehicle Service" before performing service on or around SIR components or wiring. Failure to follow CAUTIONS could result in possible air bag deployment, personal injury, or unneeded SIR systems repairs.

CONTENTS

HANDLING ELECTROSTATIC DISCHARGE (ESD) SENSITIVE PARTS

Figure 1

NOTICE: When handling an electronic part that has an ESD sensitive sticker, or is identified as ESD sensitive in the list that follows, the service technician should use the following guidelines to reduce any possible electrostatic charge buildup on the service technician's body and the electronic part.

1. Do not open any package containing an electronic part until it is time to install the part.
2. Avoid touching the electrical terminals of the part.
3. Before removing the part from its package, ground the package to a known good ground such as an unpainted metal work bench.
4. Always touch a known good ground before handling the part. This should be repeated while handling the part and more frequently after sliding across the seat, sitting down from a standing position, or walking a distance.

Not all parts that can be damaged by ESD have an ESD label. Components that can be damaged by ESD are:

- Chime Module
- Cruise Control Module
- Electronic Instrument Clusters
- Electronic Control Module (ECM) (Including PROM, CAL-PAK or MEM-CAL)
- Radio

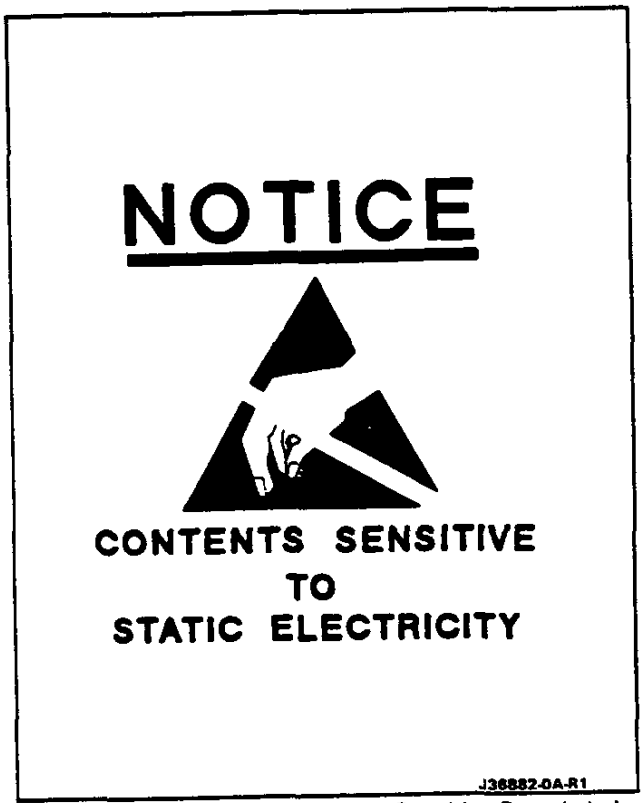


Figure 1 Electrostatic Discharge Sensitive Parts Label

- Anti-Lock Brake System Controller
- Distributorless Ignition System Module (LT5)
- Low Tire Pressure Warning System Module
- A/C Programmer and Controller
- Central Control Module (CCM)
- Supplemental Inflatable Restraint (SIR) Components

VEHICLE IDENTIFICATION PLATE

Figures 2 and 3

The vehicle identification plate is located on the upper left corner of the instrument panel upper pad and is visible from outside of the vehicle. Each production sequence number is prefixed by letters and numbers, which represent information such as the carline, series and body styles for the current model year.

ENGINE IDENTIFICATION

Figures 4 and 5

Engine displacement information can be obtained by matching the engine code character in the Vehicle Identification Number to the Vehicle Identification Chart (Figure 3).

Stick-on labels attached to the engine, or laser etching, or stampings in the engine block, indicate the engine unit number and build date code.

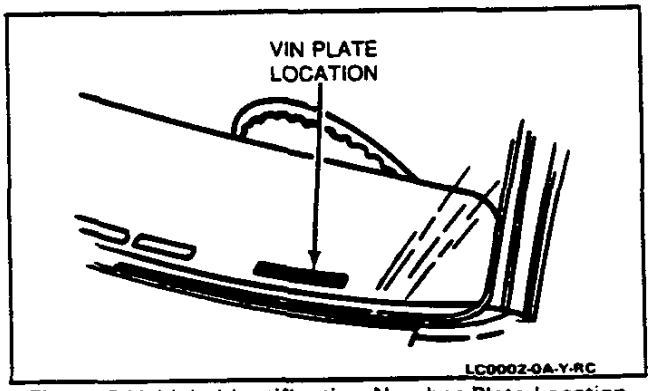


Figure 2 Vehicle Identification Number Plate Location

All engines are stamped with a partial Vehicle Identification Number. The stamping contains nine positions.

Position one is the GM division identifier:

1=Chevrolet, 2=Pontiac, 3=Oldsmobile, 4=Buick, 6=Cadillac

Position two is the model year:

K=1989

Position three is the car assembly plant code.

Positions four through nine represent the production sequence number for the vehicle.

TRANSMISSION IDENTIFICATION

Figures 6 and 7

The identification label for the ZF S6-40 6-speed manual transmission (Figure 6) is located on the left side of the transmission case.

Figure 7 shows how to determine the model and serial number of an automatic transmission.

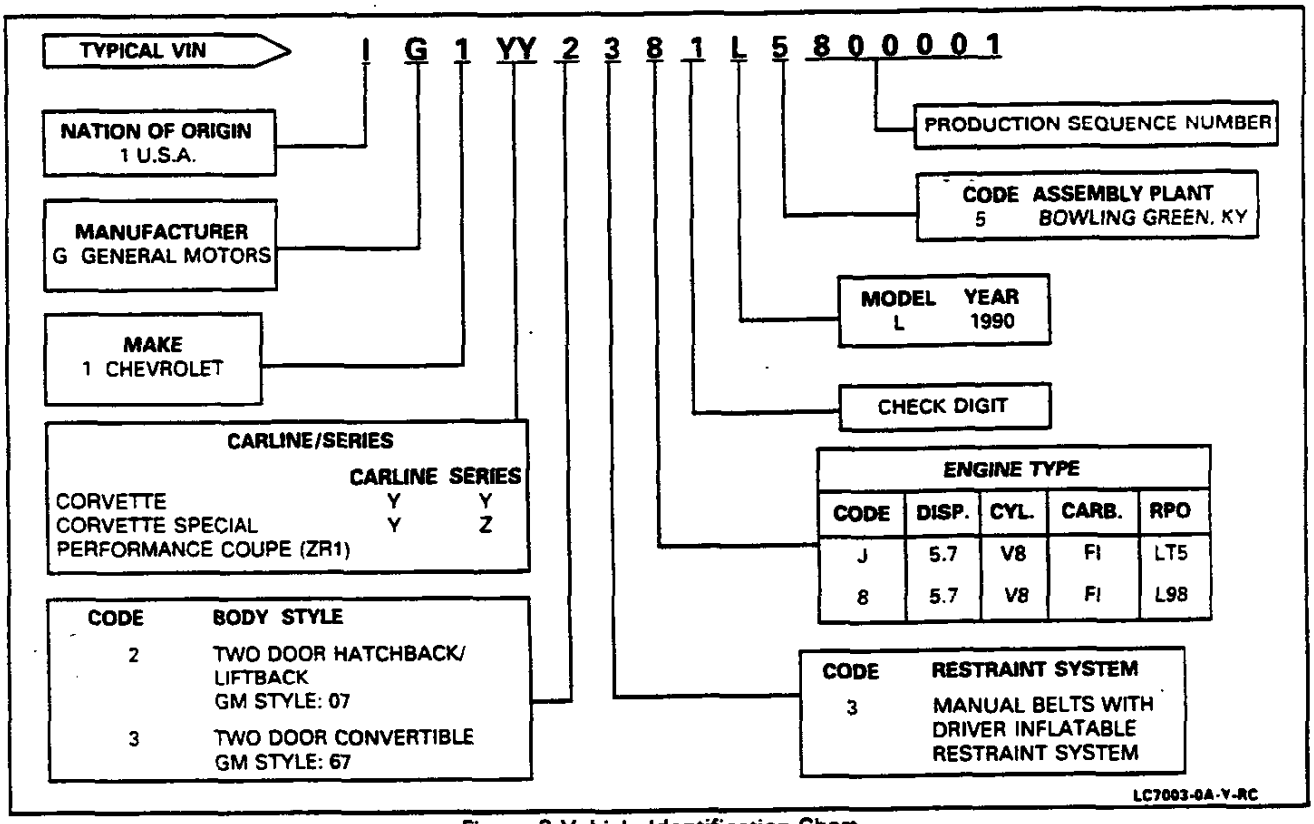


Figure 3 Vehicle Identification Chart

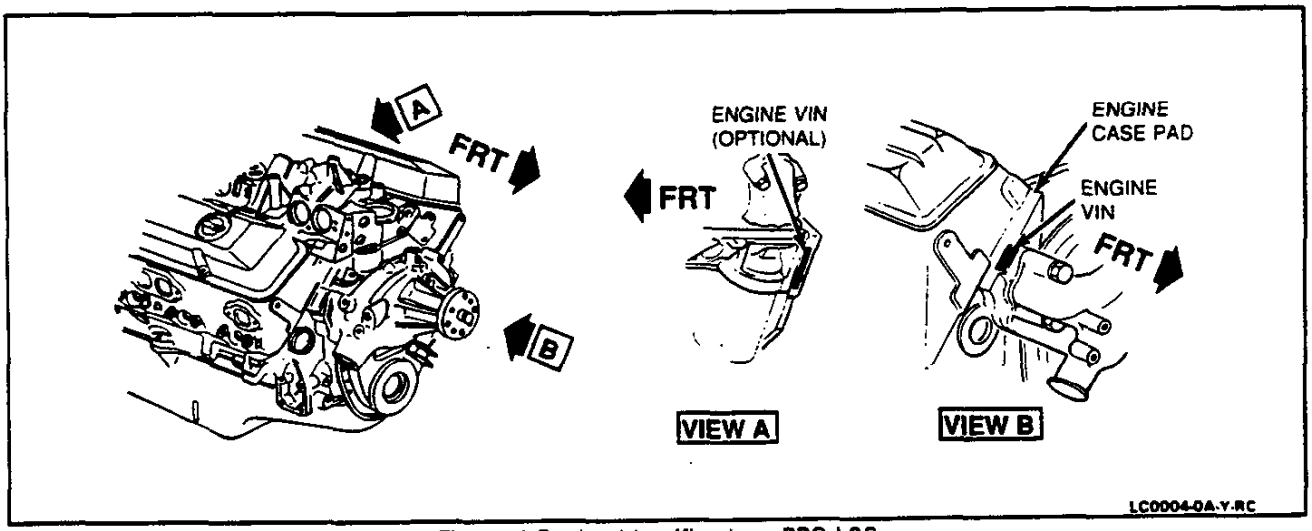


Figure 4 Engine Identification - RPO L98

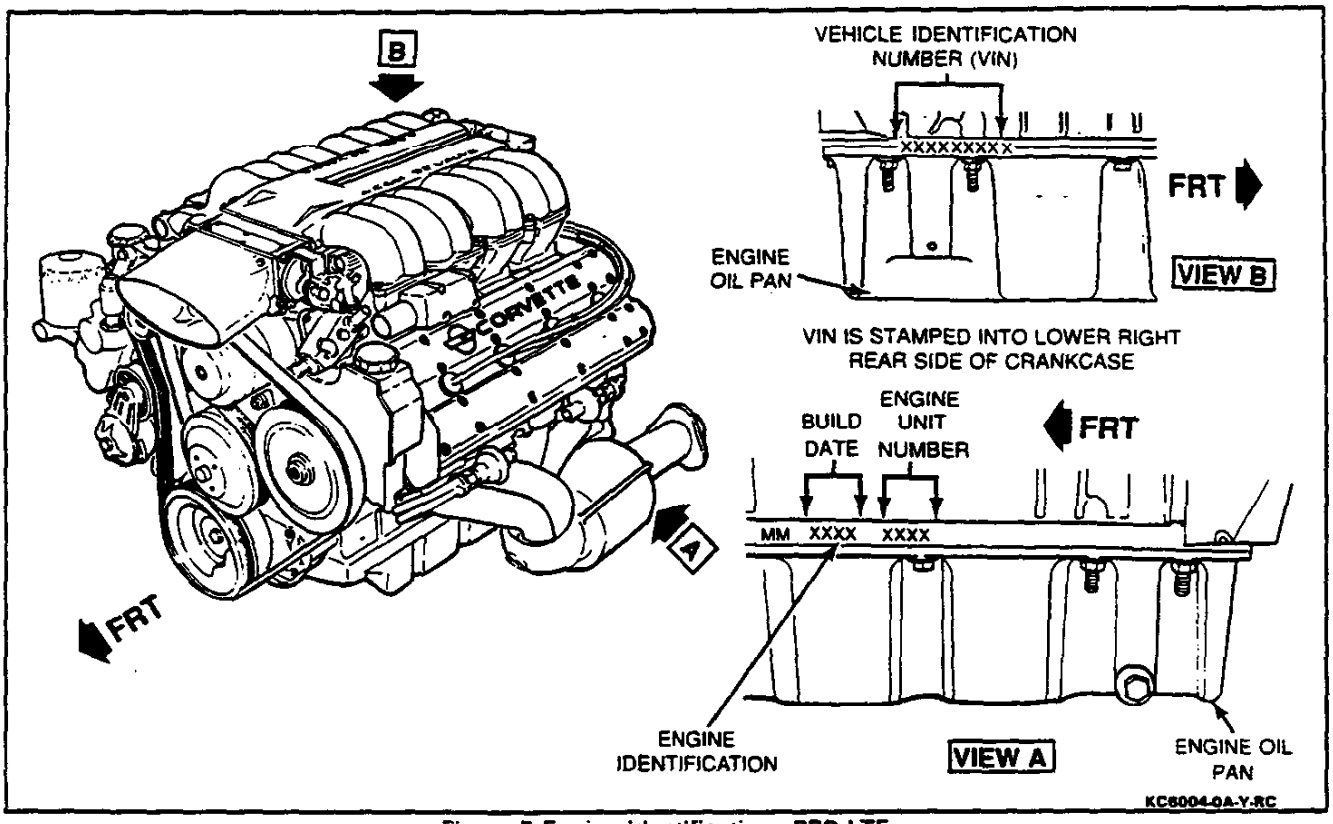


Figure 5 Engine Identification - RPO LT5

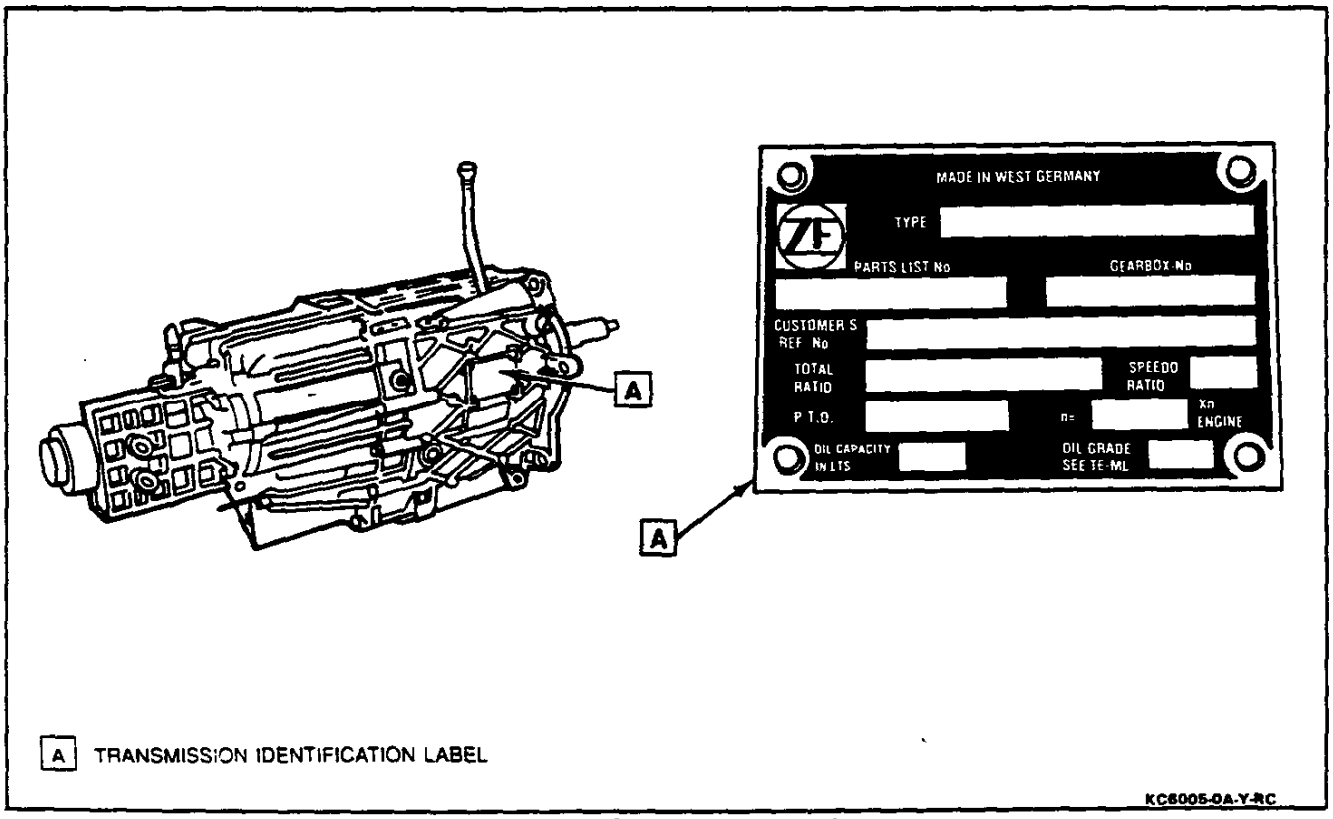


Figure 6 Manual Transmission Identification

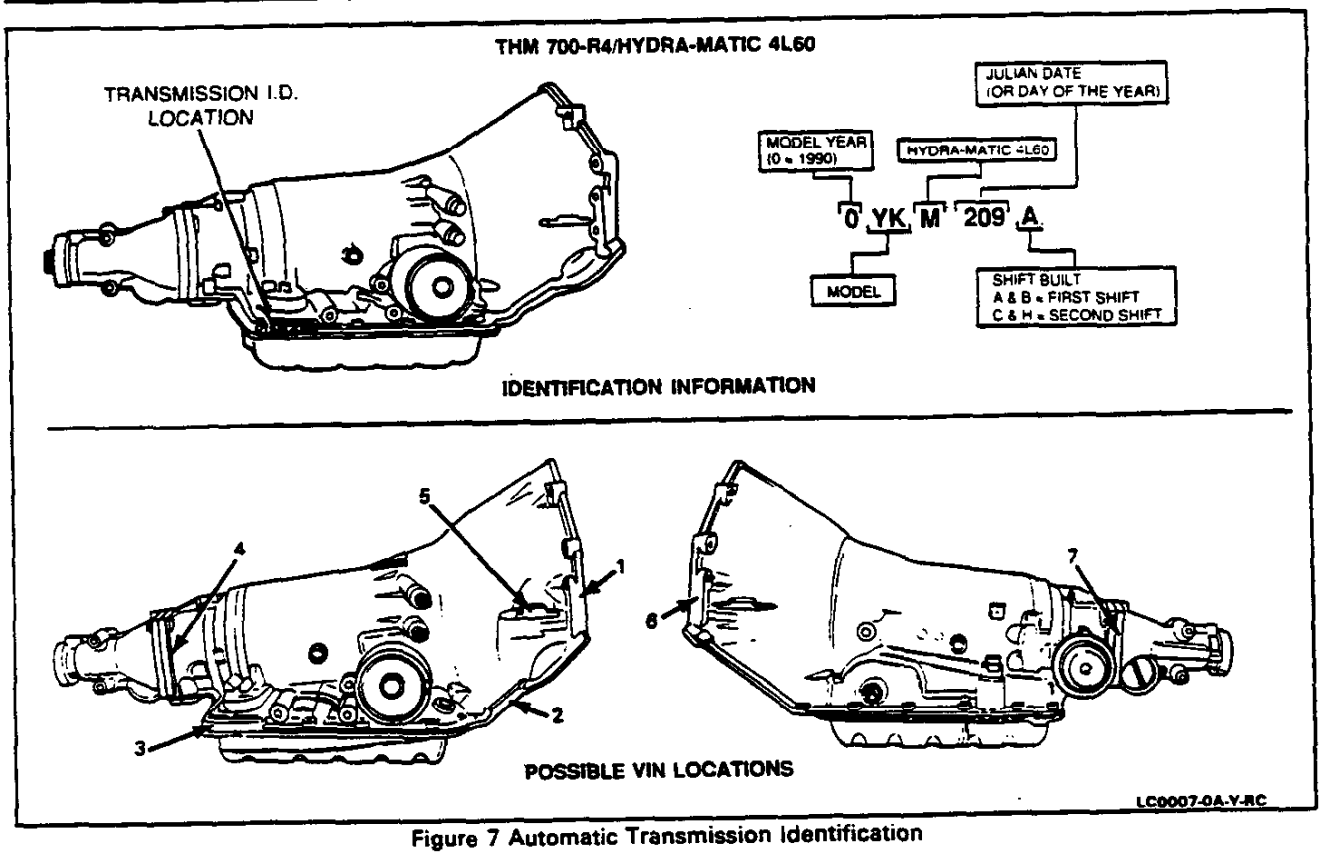


Figure 7 Automatic Transmission Identification

TRANSMISSION USAGE

Engine	Model	Transmission
5.7L V8 (L98)	Coupe and Convertible	ZF S6-40 6-Speed Manual (ML9) Automatic 4L60/THM 700-R4 (MD8)
5.7L V8 (LT5)	Coupe	ZF S6-40 6-Speed Manual (ML9)

TIRE INFORMATION

Information on tire size, vehicle capacity weight, and recommended tire inflation pressure is found on the Tire Placard located on the driver's door.

GENERAL VEHICLE LIFTING AND JACKING PROCEDURES

Figures 8 and 9

NOTICE: When jacking or lifting a vehicle from the frame side rails, be certain the lift pads do not contact the catalytic converters as damage to the converters could result.

Figures 8 and 9 indicate the **preferred** methods of lifting the vehicle using a hoist. If any other hoist methods are used, special care must be used not to damage the ABS brake lines, fuel lines, exhaust system or underbody.

Rear Spindle Support Protector Sleeve

Figure 10

The rear spindle support rods, along with a protector, may be used to support the rear end of the vehicle when using a twin post hoist.

A protector for the spindle support rods may be fabricated as shown in Figure 10 to prevent surface nicks or gouges where the lifts contact the rods.

METRIC FASTENERS

Figures 11 and 12

Current model GM vehicles are primarily dimensioned in the metric system. Most fasteners are metric and are very close in dimension to well-known customary fasteners in the inch system. It is important that replacement fasteners be of the correct nominal diameter, thread pitch and strength.

Original equipment metric fasteners (except cross-recess head screws) are identified by a number marking which indicates the strength of the material in

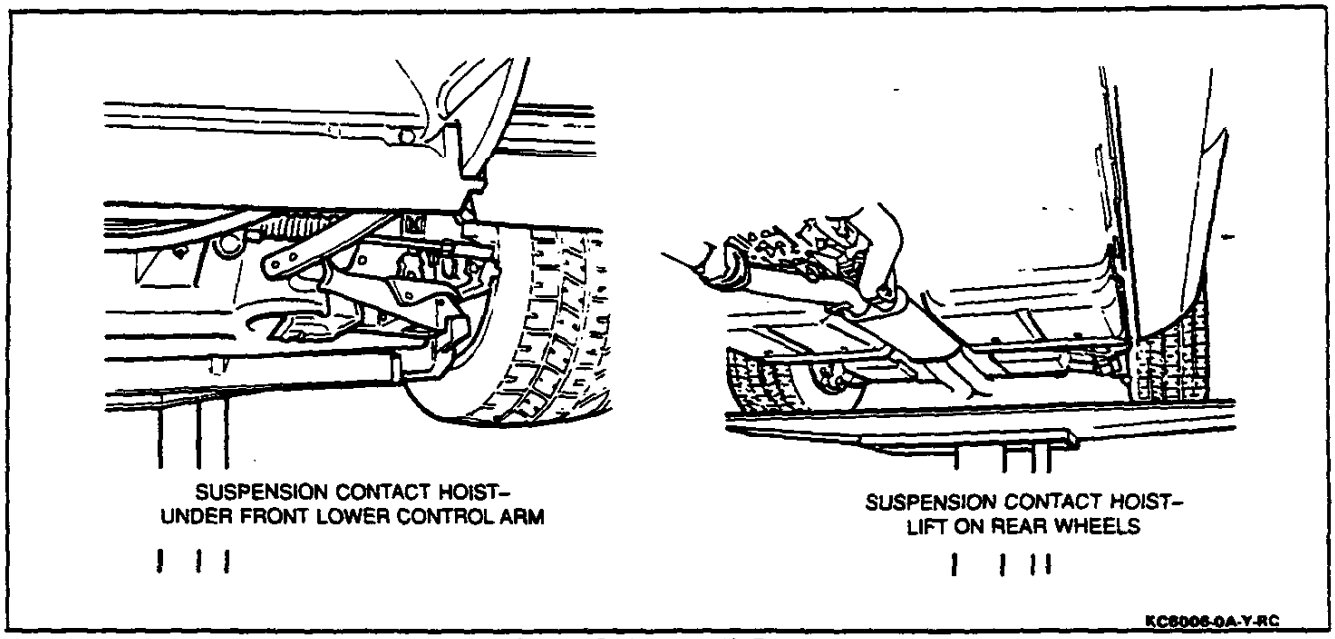


Figure 8 Vehicle Lift Points

the fastener. Metric cross-recess screws are identified by a Posidriv or Type 1A cross-recess. For best results, use a Type 1A cross-recess screwdriver, or equivalent, in Posidriv recess head screws.

NOTICE: Most metric fasteners have a blue color coating. However, this should not be used as positive identification, as some metric fasteners are not color coated.

General Motors Engineering Standards, along with other North American Industries, have adopted a portion of the standard metric fastener sizes defined by ISO (International Standards Organization). This was done to reduce the number of fastener sizes used and yet retain the best strength qualities in each thread size. For example, the customary 1/4-20 and 1/4-28 screws are replaced by the metric M6.0 X 1 screw, which has nearly the same diameter and 25.4 threads per inch. The thread pitch is in between the customary coarse and fine thread pitches.

Metric and customary thread notation differ slightly. The difference is shown in Figure 12.

FASTENER STRENGTH IDENTIFICATION

Figure 13

The most commonly used metric fastener strength property classes are 9.8 and 10.9, with the class identification being embossed on the head of each bolt. Customary (inch) strength classes range from grade 2 to grade 8. The number of markings is two lines less than the actual grade (i.e., grade 8 bolt will exhibit 6 embossed radial lines on the bolt head). Some metric nuts will be marked with single digit strength identification numbers on the nut face.

When replacing metric fasteners, be careful to use bolts and nuts of equal or greater strength than the original (the same number marking or higher). It is also important to select replacement fasteners of the correct size. Correct replacement bolts and nuts are available through the parts division. Many metric fasteners available in the after-market parts channels were designed to metric standards of countries other than the United States and may be of a lower strength, may not have the numbered head marking system, and may be of different thread pitch. The metric fasteners used on GM products are designed to new, international standards that may not yet be manufactured by some non-domestic bolt and nut suppliers. In general, except for special applications, the common sizes and pitches are: **M 6.0 X 1, M 8 X 1.25, M 10 X 1.5, and M 12 X 1.75.**

PREVAILING TORQUE FASTENERS

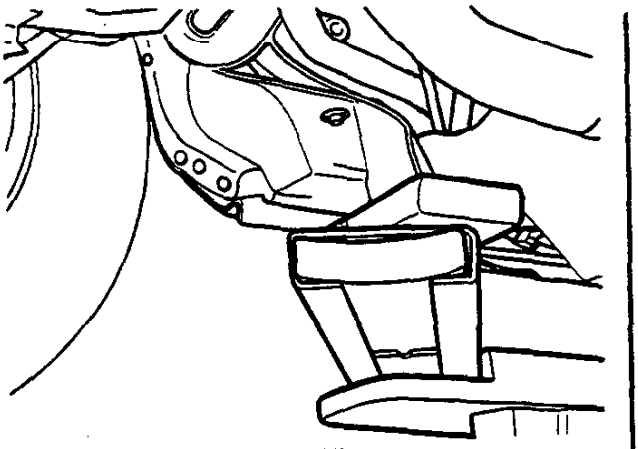
Figures 14 and 15

A prevailing torque nut is designed to develop an interference between the nut and bolt threads. This is most often accomplished by distortion of the top of an all metal nut, or by using a nylon patch on the threads in the middle of the hex flat. A nylon insert may also be used as a method of interference between nut and bolt threads.

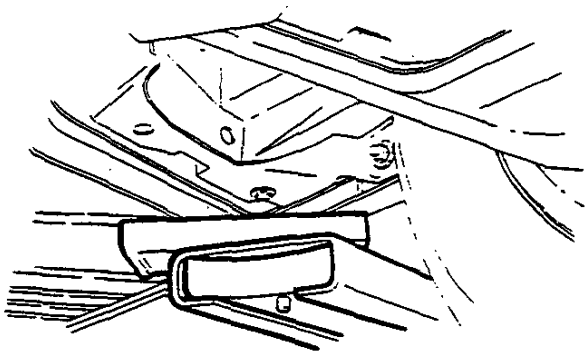
A prevailing torque bolt is designed to develop an interference between bolt and nut threads, or the threads of a tapped hole. This is accomplished by distorting some of the threads, or by using a nylon patch or adhesive.

Recommendations For Reuse:

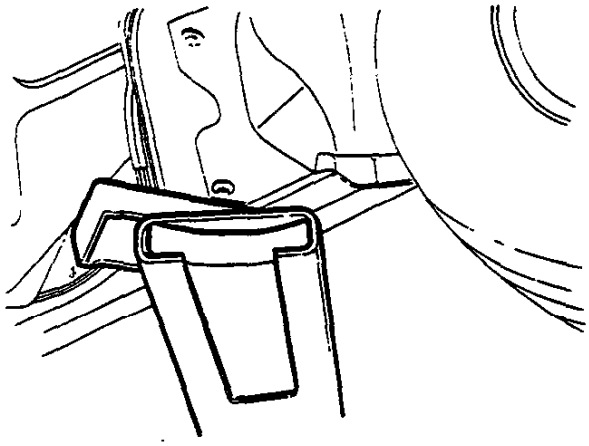
1. Clean, unrusted prevailing torque nuts and bolts may be reused as follows:
   a. Clean dirt and other foreign material from nut or bolt.
   b. Inspect nut or bolt to assure there are no cracks, elongation, or other signs of abuse or overtightening. If there is any doubt, replace with a new prevailing torque fastener of equal or greater strength.



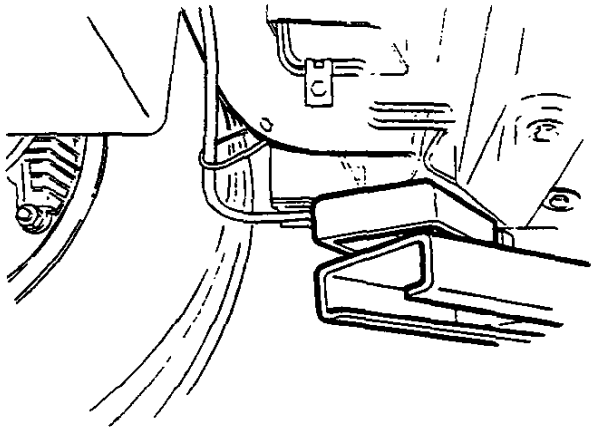
RIGHT SIDE
FRAME CONTACT HOIST
REARWARD OF FRONT WHEEL



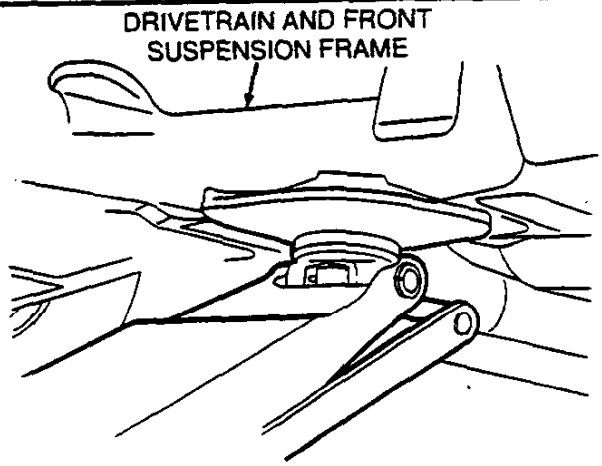
LEFT SIDE
FRAME CONTACT HOIST
REARWARD OF FRONT WHEEL



RIGHT SIDE
FRAME CONTACT HOIST
FORWARD OF REAR WHEEL



LEFT SIDE
FRAME CONTACT HOIST
FORWARD OF REAR WHEEL



FLOOR JACK-FRONT

KC6007-0A-Y-RC

Figure 9 Vehicle Lift Points (Continued)

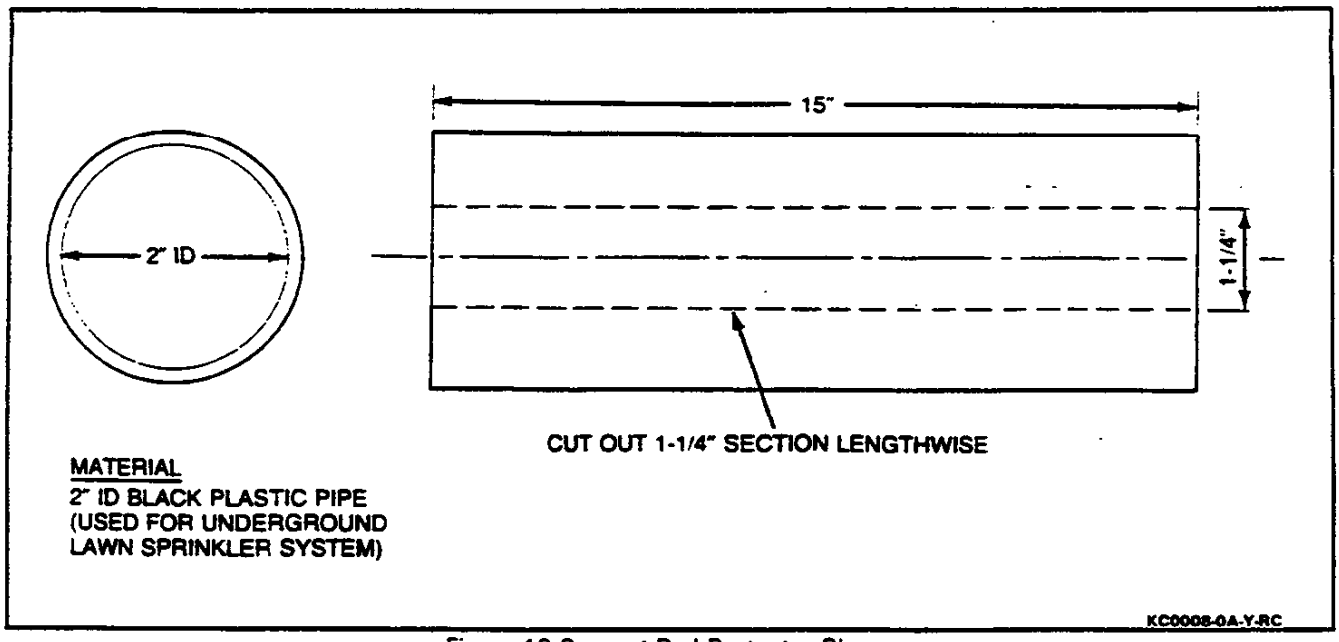


Figure 10 Support Rod Protector Sleeve

c. Assemble parts and hand start nut or bolt.
d. Observe that, before fastener seats, it develops torque per the chart in Figure 15. If there is any doubt, replace with a new prevailing torque fastener of equal or greater strength.
e. Tighten fastener to torque specified in appropriate section of this manual.

2. Bolts and nuts which are rusty or damaged should be replaced with new parts of equal or greater strength.

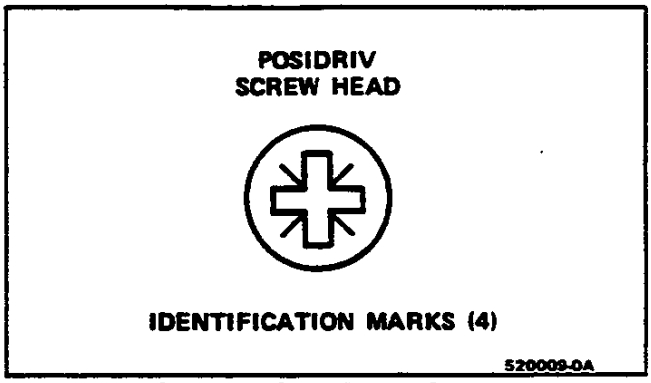


Figure 11 Cross-Recess Screw

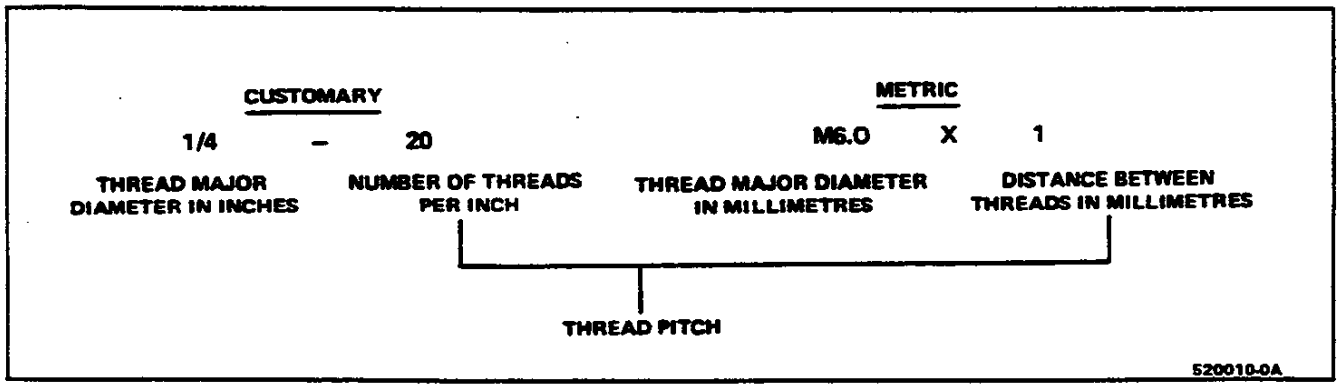


Figure 12 Thread Notation

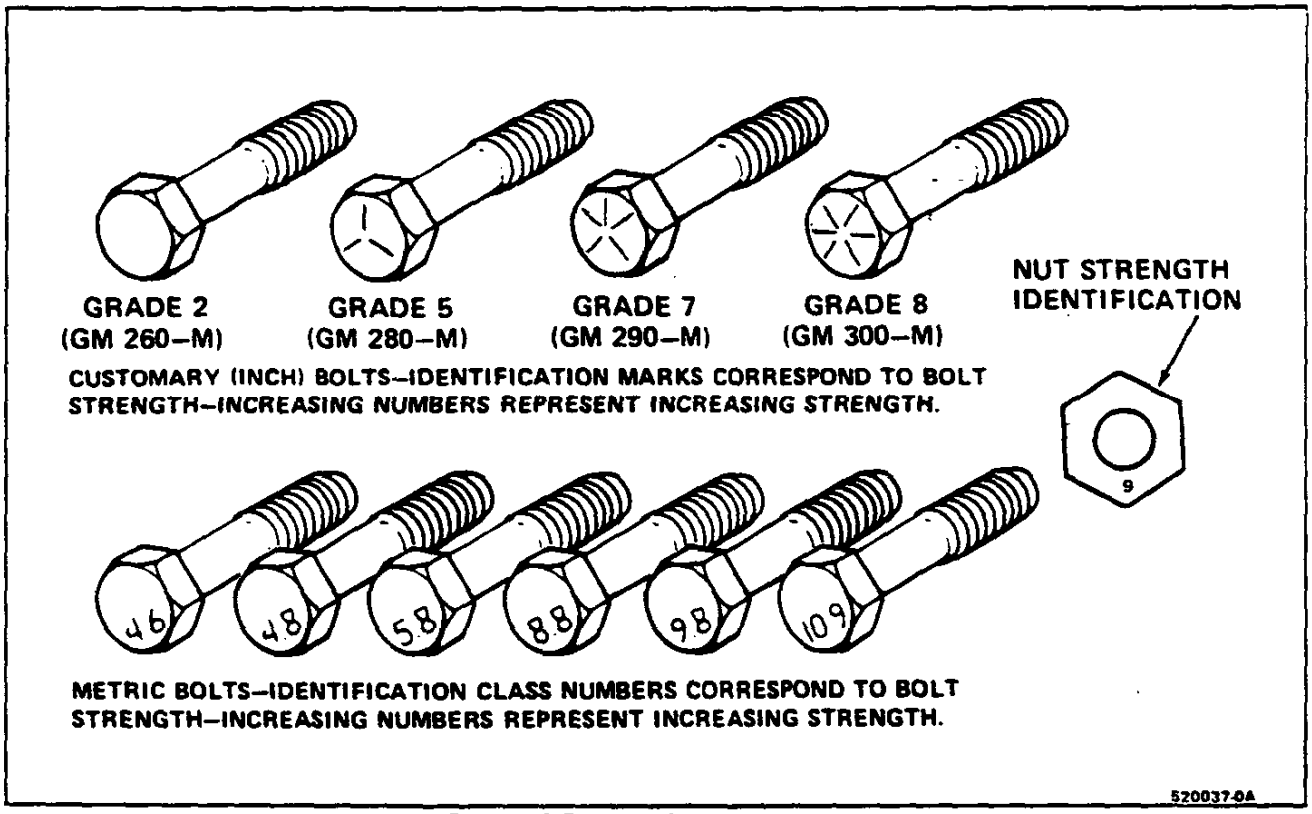


Figure 13 Fastener Strength Markings

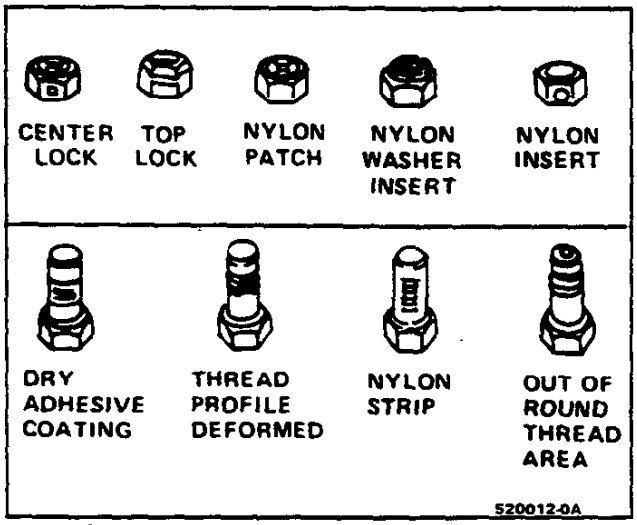


Figure 14 Prevailing Torque Nuts and Bolts

		METRIC SIZES (MM)						
		6 & 6.3	8	10	12	14	16	20
NUTS AND ALL METAL BOLTS	N•m	0.4	0.8	1.4	2.2	3.0	4.2	7.8
	IN. LBS.	4.0	7.0	12	18	25	35	67
ADHESIVE OR NYLON COATED BOLTS	N•m	0.4	0.6	1.2	1.6	2.4	3.4	5.6
	IN. LBS.	4.0	5.0	10	14	20	28	46

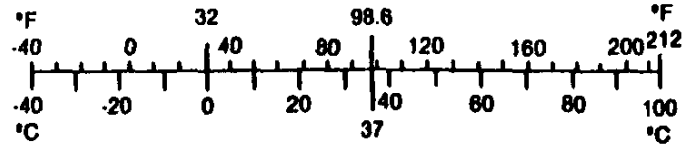
		INCH SIZES							
		.250	.312	.375	.437	.500	.562	.625	.750
NUTS AND ALL METAL BOLTS	N•m	0.4	0.6	1.4	1.8	2.4	3.2	4.2	6.2
	IN. LBS.	4.0	5.0	12	15	20	27	35	51
ADHESIVE OR NYLON COATED BOLTS	N•m	0.4	0.6	1.0	1.4	1.8	2.6	3.4	5.2
	IN. LBS.	4.0	5.0	9.0	12	15	22	28	43

520013-0A

Figure 15 Prevailing Torque Chart

Multiply	by	to get equivalent number of:
	LENGTH	
Inch	25.4	millimeters (mm)
Foot	0.304 8	meters (m)
Yard	0.914 4	meters
Mile	1.609	kilometers (km)
	AREA	
$Inch^2$	645.2	$millimeters^2$ (mm^2)
	6.45	$centimeters^2$ (cm^2)
$Foot^2$	0.092 9	$meters^2$ (m^2)
$Yard^2$	0.836 1	$meters^2$
	VOLUME	
$Inch^3$	16 387.	mm^3
	16.387	cm^3
	0.016 4	liters (l)
Quart	0.946 4	liters
Gallon	3.785 4	liters
$Yard^3$	0.764 6	$meters^3$ (m^3)
	MASS	
Pound	0.453 6	kilograms (kg)
Ton	907.18	kilograms (kg)
Ton	0.907	tonne (t)
	FORCE	
Kilogram	9.807	newtons (N)
Ounce	0.278 0	newtons
Pound	4.448	newtons
	TEMPERATURE	
Degree Fahrenheit	(t°F-32) ÷ 1.8	degree Celsius (C)

Multiply	by	to get equivalent number of:
	ACCELERATION	
$Foot/sec^2$	0.304 8	$meter/sec^2$ (m/s^2)
$Inch/sec^2$	0.025 4	$meter/sec^2$
	TORQUE	
Pound-inch	0.112 98	newton-meters (N·m)
Pound-foot	1.355 8	newton-meters
	POWER	
Horsepower	0.746	kilowatts (kW)
	PRESSURE OR STRESS	
Inches of water	0.249 1	kilopascals (kPa)
Pounds/sq. in.	6.895	kilopascals
	ENERGY OR WORK	
BTU	1 055.	joules (J)
Foot-pound	1.355 8	joules
Kilowatt-hour	3 600 000. or 3.6×10^6	joules (J = one W's)
	LIGHT	
Foot candle	1.076 4	$lumens/meter^2$ (lm/m^2)
	FUEL PERFORMANCE	
Miles/gal	0.425 1	kilometers/liter (km/l)
Gal/mile	2.352 7	liter/kilometer (l/km)
	VELOCITY	
Miles/hour	1.609 3	kilometers/hr. (km/h)



METRIC-ENGLISH CONVERSION TABLE

Figure 16 Metric-English Conversion Table

G60230-0A-C

DECIMAL AND METRIC EQUIVALENTS

Fractions	Decimal In.	Metric MM.	Fractions	Decimal In.	Metric MM.
1/64	.015625	.39688	33/64	.515625	13.09687
1/32	.03125	.79375	17/32	.53125	13.49375
3/64	.046875	1.19062	35/64	.546875	13.89062
1/16	.0625	1.58750	9/16	.5625	14.28750
5/64	.078125	1.98437	37/64	.578125	14.68437
3/32	.09375	2.38125	19/32	.59375	15.08125
7/64	.109375	2.77812	39/64	.609375	15.47812
1/8	.125	3.1750	5/8	.625	15.87500
9/64	.140625	3.57187	41/64	.640625	16.27187
5/32	.15625	3.96875	21/32	.65625	16.66875
11/64	.171875	4.36562	43/64	.671875	17.06562
3/16	.1875	4.76250	11/16	.6875	17.46250
13/64	.203125	5.15937	45/64	.703125	17.85937
7/32	.21875	5.55625	23/32	.71875	18.25625
15/64	.234375	5.95312	47/64	.734375	18.65312
1/4	.250	6.35000	3/4	.750	19.05000
17/64	.265625	6.74687	49/64	.765625	19.44687
9/32	.28125	7.14375	25/32	.78125	19.84375
19/64	.296875	7.54062	51/64	.796875	20.24062
5/16	.3125	7.93750	13/16	.8125	20.63750
21/64	.328125	8.33437	53/64	.828125	21.03437
11/32	.34375	8.73125	27/32	.84375	21.43125
23/64	.359375	9.12812	55/64	.859375	21.82812
3/8	.375	9.52500	7/8	.875	22.22500
25/64	.390625	9.92187	57/64	.890625	22.62187
13/32	.40625	10.31875	29/32	.90625	23.01875
27/64	.421875	10.71562	59/64	.921875	23.41562
7/16	.4375	11.11250	15/16	.9375	23.81250
29/64	.453125	11.50937	61/64	.953125	24.20937
15/32	.46875	11.90625	31/32	.96875	24.60625
31/64	.484375	12.30312	63/64	.984375	25.00312
1/2	.500	12.70000	1	1.00	25.40000

520014-0A

Figure 17 Decimal and Metric Equivalents

LIST OF AUTOMOTIVE ABBREVIATIONS WHICH MAY BE USED IN THIS MANUAL

ABS - Anti Lock Braking System
A/C - Air Conditioning
Adj - Adjust
A/F - Air/Fuel (As in Air Fuel Ratio)
AIR - Air Injection Reaction System
ALDL - Assembly Line Diagnostic Link
Alt. - Altitude
AMP - Ampere(s)
AT - Automatic Transmission/Transaxle
ATC - Automatic Temperature Control
ATDC - After Top Dead Center

BARO - Barometric Absolute Pressure Sensor
Bat. - Battery
Bat. + - Positive Terminal
BCM - Body Control Module
BHP - Brake Horsepower
BP - Back Pressure
BTDC - Before Top Dead Center

Cat. Conv. - Catalytic Converter
CC - Cubic Centimeter
- Converter Clutch
CCC - Computer Command Control
CB - Citizens Band (Radio)
CCM - Central Control Module
CCOT - Cycling Clutch Orifice Tube
CCP - Controlled Canister Purge
CEMF - Counter Electromotive Force
CID - Cubic Inch Displacement
CLOOP - Closed Loop
CLTBI - Closed Loop Throttle Body Injection
CO - Carbon Monoxide
CO2 - Carbon Dioxide
Conv. - Converter
CP - Canister Purge
CTS - Coolant Temperature Sensor
Cu. In. - Cubic Inch
Cyl. - Cylinder (s)

DERM - Diagnostic Energy Reserve Module
Diff. - Differential
DIS - Direct Ignition System
Distr. - Distributor

EAC - Electric Air Control Valve
EAS - Electric Air Switching Valve
ECC - Electronic Climate Control
ECM - Electronic Control Module
ECS - Emission Control System
ECU - Engine Calibration Unit
EEC - Evaporative Emission Control
EFI - Electronic Fuel Injection
EGR/TVS - Exhaust Gas Recirculation/ Thermostatic Vacuum Switch
EMF - Electromotive Force
EOS - Exhaust Oxygen Sensor
ESC - Electronic Spark Control
EST - Electronic Spark Timing

ETC - Electronic Temperature Control
ETR - Electronically Tuned Receiver
Exh. - Exhaust

Fed. - Federal (All States Exc. Calif)
FMVSS - Federal Motor Vehicle Safety Standards
Ft. Lb. - Foot Pounds (Torque)

gal. - Gallon
GND - Ground
GPM - Gallons per minute

HC - Hydrocarbons
HD - Heavy Duty
HEI - High Energy Ignition
Hg - Mercury
Hi Alt. - High Altitude
HP - Horsepower
HVAC - Heater-Vent-Air Conditioning
HVACM - Heater-Vent-Air Conditioning Module
HVM - Heater-Vent Module

IAC - Idle Air Control
IC - Integrated Circuit
ID - Identification
- Inside Diameter
IGN -Ignition
IHP - Indicated Horsepower
INJ - Injection
I/P - Instrument Panel
ISC - Idle Speed Control

km - Kilometers
km/hr - Kilometers Per Hour
KV - Kilovolts (Thousand of Volts)
km/L - Kilometers Per Liter
kPa - Kilopascals

L - Liter
Lb. or lb. - pound
Lbs. Ft. - Pounds Feet (Torque)
LCD - Liquid Crystal Display
LED - Light Emitting Diode
LF - Left Front
LR - Left Rear
LTPWS - Low Tire Pressure Warning System

Man. Vac. - Manifold Vacuum
MAP - Manifold Absolute Pressure
MAT - Manifold Air Temperature Sensor
M/C - Mixture Control
mm - millimeters
MPG - Miles Per Gallon
MPFI - Multi-Port Fuel Injection
MPH - Miles Per Hour
MT - Manual Transmission
MV - Millivolt

N m - Newton Meters (Torque)
NOx - Nitrogen. Oxides of

OD - Outside Diameter
OHC - Overhead Cam
OL - Open Loop
OXY - Oxygen
O2 - Oxygen
O2 - Oxygen (Sensor)

PASS Key - Personalized Automotive Security System
PB - Power Brakes
PCV - Positive Crankcase Ventilation
PFI - Port Fuel Injection
PN - Park, Neutral
PROM - Programmable, Read Only Memory
P/S - Power Steering
PSI - Pounds Per Square Inch
Pt. - Pint

Qt. - Quart
R - Resistance
Ref. - Reference
RF - Right Front
RPM - Revolutions Per Minute
RPO - Regular Production Option
RR - Right Rear
RTV - Room Temperature Vulcanizing (Sealer)
RVR - Response Vacuum Reducer
RWD - Rear Wheel Drive

SAE - Society of Automotive Engineers
SI - System International
SIR - Supplemental Inflatable Restraint
Sol - Solenoid
SRC - Selective Ride Control
Syn - Synchronizer

TACH - Tachometer
TCC - Transmission Converter Clutch
TDC - Top Dead Center
TPS - Throttle Position Sensor
T.V. - Throttle Valve
TVS - Thermal Vacuum Switch

UJT - Universal Joint
UTD - Universal Theft Deterrent

V - Volt (s)
V-8 - Eight Cylinder Engine - Arranged in a "V"
Vac - Vacuum
VATS - Vehicle Anti-Theft System
VIN - Vehicle Identification Number
V-REF - ECM Reference Voltage
VSS - Vehicle Speed Sensor

W/ - With
W/B - Wheel Base
W/O - Without
WOT - Wide Open Throttle

X-Value - Expansion Valve

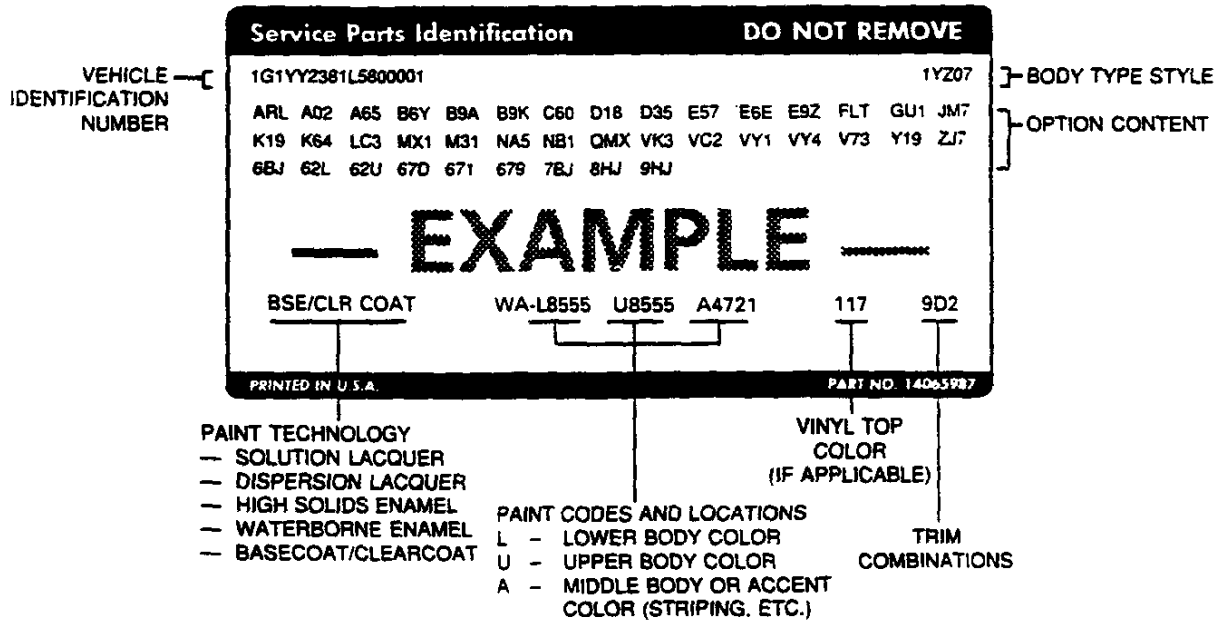
LC0018-0A-Y-RC

Figure 18 Abbreviations Chart

SERVICE PARTS IDENTIFICATION LABEL

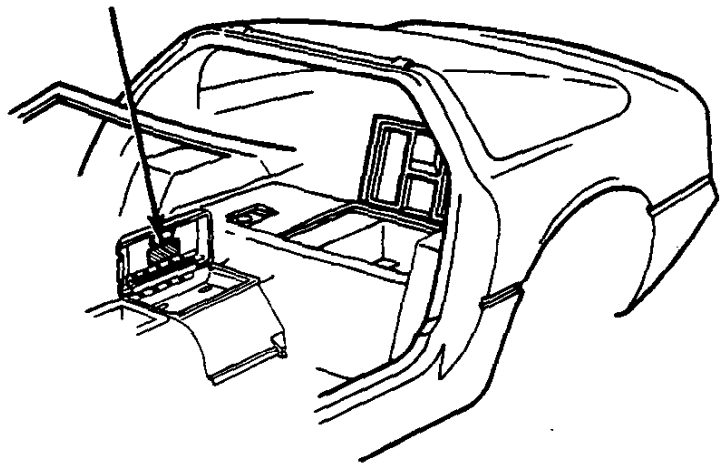
The Service Parts Identification Label provides identification of vehicle equipment to assist in servicing and determining replacement parts. Included on this label will be regular production options (RPO's) as well as standard and mandatory options. The label will be affixed to the inside of each passenger car vehicle at the assembly plant.

For additional information on the Service Parts Identification Label, see a GM Parts Catalog.



LABEL LOCATION

CORVETTE



LC0019-0A-Y-RC

Figure 19 Service Parts Identification Label

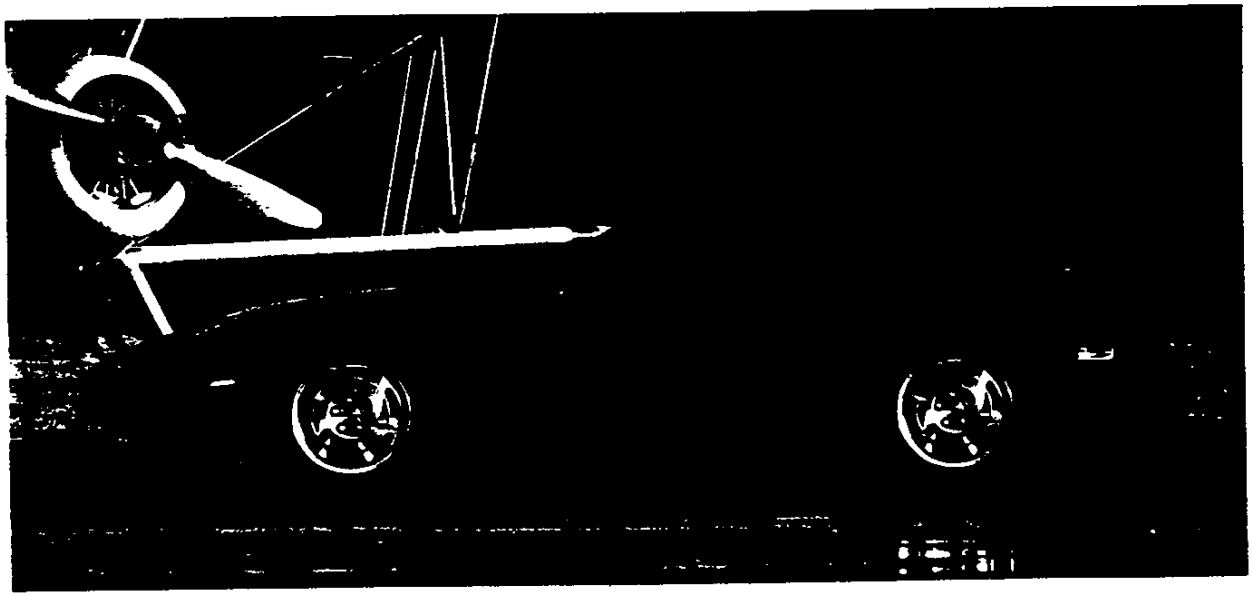
PRODUCTION AND PROCESS CODES

ACI ..... Passenger's Seat Adjuster, 6-way Power
AC3 ..... Driver's Seat Adjuster, 6-way Power
AJ3 ..... Restraint System, Inflatable
AQ9 ..... Seat, Reclining
AR9 ..... Seat, European Style Reclining
CC2 ..... Roof, Auxiliary
CC3 ..... Roof, Removable Panel (Plastic)
CF7 ..... Roof, Removable (Non-Transparent)
C2L ..... Roof Package, Consists of CC3 and CF7
C60 ..... Air Conditioner, Manual Controls
C68 ..... Air Conditioner, Automatic Electronic Controls
DL8 ..... Mirror, Heated Outside
D3X ..... Gear, Speedometer Driven (25513049)
D4D ..... Gear, Speedometer Driven (25513047)
D4L ..... Gear, Speedometer Driven (25513050)
D7B ..... Gear, Speedometer Driven (25513043)
D7C ..... Gear, Speedometer Driven (25513045)
D74 ..... Mirror, Inside Visor Vanity, Illuminated
D9A ..... Sensor, Vehicle Speed (25007224)
D9B ..... Sensor, Vehicle Speed (25007308)
FE1 ..... Suspension, Soft Ride
FE7 ..... Suspension, Heavy Duty
FX3 ..... Ride and Handling, Electronic
GH0 ..... Rear Axle, 3.54 Ratio
GM1 ..... Rear Axle, 2.59 Ratio
GM3 ..... Rear Axle, 3.45 Ratio
GT7 ..... Rear Axle, 3.33 Ratio
GU2 ..... Rear Axle, 2.73 Ratio
G44 ..... Rear Axle, 3.07 Ratio
G87 ..... Ring Gear, 8.5 Inch
G92 ..... Rear Axle, Performance Ratio
JL9 ..... Brakes, Anti-Lock Front and Rear Disc
J55 ..... Brakes, Heavy Duty
KC4 ..... Cooler, Engine Oil
K05 ..... Heater, Engine Block
K09 ..... Generator, 120 Amp
K68 ..... Generator, 105 Amp
LT5 ..... Engine, Gas, 8 Cyl, 5.7L, MPFI, OHC
L98 ..... Engine, Gas, 8 Cyl, 5.7L, MPFI
MD8 ..... Transmission, Automatic, 4-Speed, 4L60
ML9 ..... Transmission, Manual, 6-speed, ZF
NA5 ..... Emission System, Federal
NN5 ..... Emission System, California
NK4 ..... Steering Wheel, Sport Leather
QA1 ..... Wheel, 17 x 9.5, Styled Aluminum
QA2 ..... Wheel, 17 x 9.5 Front, 17 x 11 Rear, Styled Aluminum
T61 ..... Lighting, Daytime Running
T93 ..... Lamp, Tail and Stop Special
UJ6 ..... Indicator, Low Tire Pressure Warning
UM6 ..... Radio, AM/FM Stereo, Seek and Scan, Auto Rev. Cassette, Clock, ETR
UU8 ..... Radio, AM/FM Stereo, Cassette, Dolby, Clock, ETR
UXO ..... Speaker System, Delco/Bose, 6 Speaker
UIF ..... Radio, AM/FM Stereo, Cassette With Compact Disc Player
U19 ..... Cluster, Kilometers and Miles
U52 ..... Cluster, Electronic
V56 ..... Carrier, Luggage (Convertible)
XAU ..... Tire, Front, P275/40 ZR17
YAU ..... Tire, Rear, P275/40 ZR17
YBE ..... Tire, Rear, P315/35 ZR17
ZR1 ..... Special Performance Coupe Package
Z51 ..... Performance Handling Package
10T ..... Top Color, Arctic White
10U ..... Exterior Color, Arctic White
19C ..... Trim Combination, Black Cloth
19I ..... Interior Trim, Black

19T ..... Top Color, Black
193 ..... Trim Combination, Black Leather
199 ..... Safety Belts, Black
20U ..... Exterior Color, Nassau Blue Metallic
22I ..... Interior Trim, Steel Blue
223 ..... Trim Combination, Steel Blue Leather
229 ..... Safety Belts, Steel Blue
24S ..... Roof, Blue Removable Panel
25U ..... Exterior Color, Metallic
41U ..... Exterior Color, Black
42U ..... Exterior Color, Turquoise Metallic
53U ..... Exterior Color, Competition Yellow
60C ..... Trim Combination, Cognac Cloth
60I ..... Interior Trim, Cognac
603 ..... Trim Combination, Cognac Leather
609 ..... Safety Belts, Cognac
64S ..... Roof, Bronze Removable Panel
67T ..... Top Color, Saddle Vinyl
68U ..... Exterior color, Brilliant Red Metallic
73I ..... Interior Trim, Flame Red
733 ..... Trim Combination, Flame Red Leather
739 ..... Safety Belts, Flame Red
80U ..... Exterior Color, Medium Quasar Blue Metallic
81U ..... Exterior Color, Bright Red
90I ..... Interior Trim, Smoke Gray
903 ..... Trim Combination, Smoke Gray Leather
909 ..... Safety Belts, Smoke Gray
91U ..... Exterior Color, Polo Green
96U ..... Exterior Color, Dark Smoke Gray Metallic

INDEX

THE CORVETTE STORY



INTRODUCTION

Since its introduction in 1953, Corvette has offered everything a sports car must have — outstanding performance, superior handling, exquisite styling. For 1990, Corvette enhances the tradition.

The ZR-1 bursts onto the scene, combining the unmistakable Corvette silhouette with an impressive array of leading edge technology. That technology includes the Lotus-designed 32-valve engine, making the ZR-1 the fastest production car in the world.

The 1990 Corvette offers more than raw power. Engineers have added a number of refinements, including:

- A completely redesigned interior, with new instrument panel, door trim panels and console. This new interior creates the sense and feel of a "jet fighter cockpit."
- New Supplemental Inflatable Restraint System for protection during frontal impacts.

MARKET POSITION

Corvette has staked out a clear position in the market. It attracts affluent professionals, at or nearing their peak earning years. In general, they are people who want more than basic transportation.

Corvette buyers are bold, unconventional, and have a penchant for style and performance. They are achievers who very likely have reached the top rank in their field. For many buyers, owning a Corvette is a true indication that they're in the elite society. Corvette owners expect the best in everything they do — and in everything they own.

Remember, too, what influences these buyers: performance qualities such as 0 to 60 times; horsepower and cornering ability; and a perception of image.

More than the ultimate driving machine, Corvette is a reflection of owners' personalities, status and accomplishments.

*MAJOR COMPETITORS**

The list of Corvette's main competitors looks like a "Who's Who" of automotive supercars, including:

- The Corvette Coupe faces off against Porsche 944, the 944T and the new Chrysler/Maserati TC.
- Japanese sports cars may also be considered Coupe competition. These cars include: Nissan 300ZX Turbo, Mazda RX7 Turbo and Toyota Supra Turbo.
- Convertible competition consists primarily of: Cadillac Allante, Mazda RX7, Mercedes 560, Porsche 911 Cabriolet, Ferrari and Lotus Elan.
- The ZR-1 competition includes performance supercars such as: Porsche 911, 911 Carrera and 928 GT; the Ferrari Testarossa and the Lamborghini Countach.

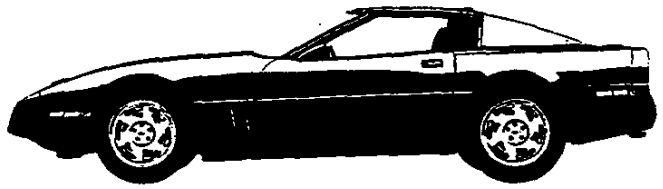
As the competition increases in the sports car field, Corvette stays miles ahead.

*Refer to *The Comparison Book* (available Dec. 1989) for specific Corvette advantages

CORVETTE MODEL OVERVIEW

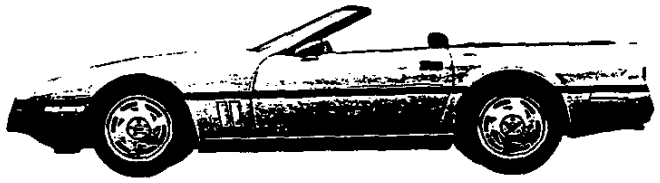
CORVETTE COUPE

The Coupe mixes tradition with new technology to offer the highest quality Corvette ever made. A substantial list of standard equipment includes the L98 5.7-liter V8 with Tuned-Port Fuel Injection for outstanding power at low and top ends. In addition, amenities such as a one-piece removable roof panel provide the open-air fun of a convertible with the lockable security of a coupe. And the totally redesigned interior adds to the car's racy feel.



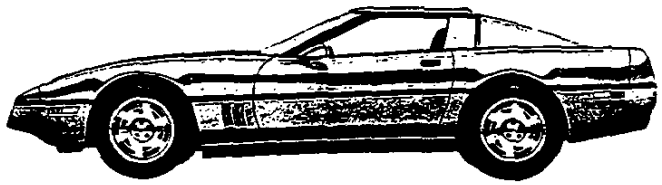
CORVETTE CONVERTIBLE

The Convertible includes all of the features of the standard Coupe, plus a manually-operated top, for the fun of open-air driving. A concealed top-well maintains Corvette's sleek appearance and a specially tuned, fully independent suspension ensures that the Convertible handles like the Corvette Coupe.

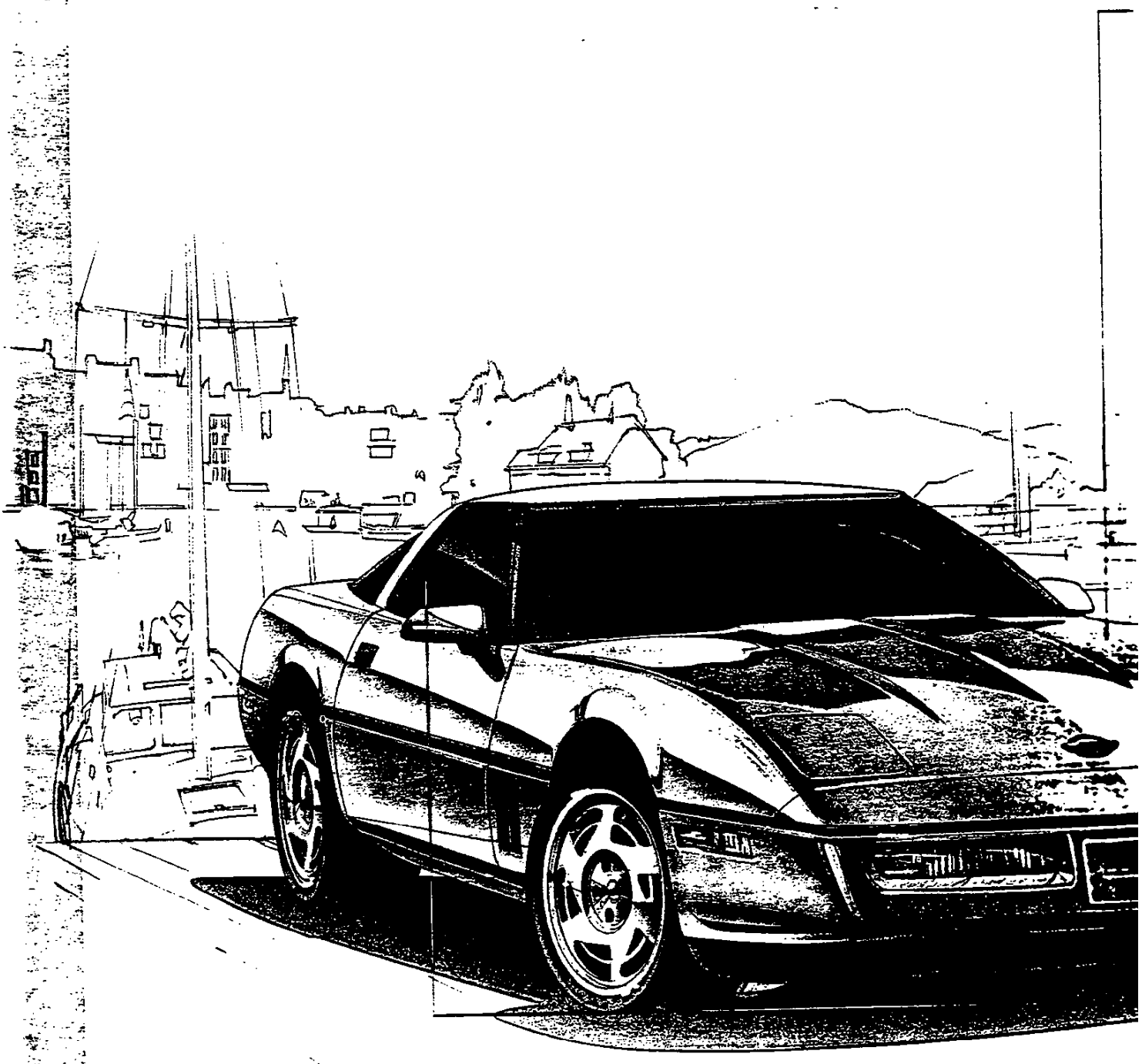


CORVETTE ZR-1 COUPE

This new 1990 special model is powered by the potent Dual Overhead Cam, 32-valve, all-aluminum 5.7-liter TPI V8. This LT5 engine produces 375 horsepower @ 5800 RPM and is teamed with the computer-controlled 6-speed manual transmission with 5th and 6th overdrive gears for efficient performance. The ZR-1 also includes: a performance handling package for optimum maneuverability; heavy-duty brakes for an extra measure of control; and P315/35ZR17 rear tires on larger 17-inch by 11-inch cast aluminum wheels for improved stability.

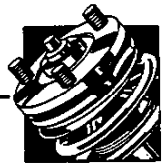


MAJOR SELLING FEATURES PRESENTATION



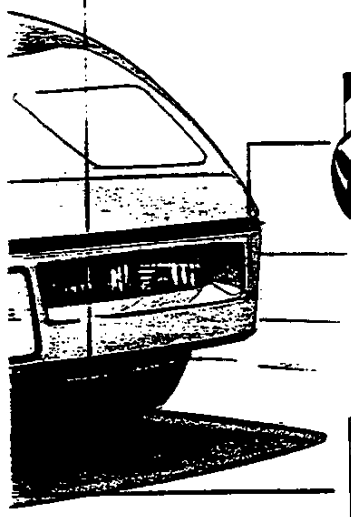
DRIVETRAIN FEATURES

The standard L98 5.7-liter TPI V8 with 245 peak horsepower is teamed with the six-speed manual transmission, providing ample power and performance to the vast majority of Corvette owners. For those with special needs, however, Corvette obliges with the high-performance ZR-1 Coupe: the only domestically produced Dual Overhead Cam, 32 valve, all aluminum engine.



CHASSIS FEATURES

To deliver the kind of handling and ride control buyers expect from a true sports car, Corvette provides standard 4-wheel independent suspension with heavy-duty Bilstein gas-pressurized shocks for consistent road manners; 13.0:1 ratio power rack-and-pinion steering for quick response and the Bosch anti-lock braking system provides excellent control.



BODY FEATURES

Unique styling is as much a part of the Corvette mystique as is its record on the track. Up front, the headlamps are concealed with electrically-controlled shrouds for protection. The body panels are made of SMC composites for corrosion protection.

INTERIOR FEATURES

A completely new interior enhances Corvette's already legendary sports car image. The instrument panel and controls enhance driver/vehicle communications, which help drivers concentrate on the road. The standard seats are Sport Cloth Buckets with optional leather trim available.

NEW FOR '90

HIGHLIGHTS

- ZR-1 High Performance Coupe available with features including:
  - — A new LT5 5.7-liter Dual Overhead Cam, 32-valve, all aluminum V8 with Tuned-Port Fuel Injection.
  - — Z51 performance handling package.
  - — Heavy-duty power disc brakes and oversize P315/35ZR17 Eagle tires on larger 17-inch by 11-inch rear wheels.
- The all new, ergonomically designed interior includes:
  - — New Supplemental Inflatable Restraint System (driver side).
  - — Center console.
  - — Lighted graphics on left-hand door and center console switches make recognition easy.
  - — New 200-watt Bose Gold Sound System features six speakers with new locations. An optional compact disc/cassette audio system is also available.
  - — Standard Scotchgard™ stain-resistant protection for cloth seats.
- In addition to the new interior, a new hybrid instrument panel is standard with the following features:
  - — A full gage package mounted on a semi-circle instrumentation pod with new Oil Life Monitors that alert the driver if the oil needs changing.
  - — Optional C68 HVAC controls now include a solar sensor for additional control over interior temperature levels.
  - — New glove box offers a convenient, lockable storage area.
- The base cooling system is upgraded so a heavy-duty option isn't required.
- One new interior color, Gray; and one new exterior color, Corvette Polo Green Metallic, will expand prospects' color choices.

DRIVETRAIN FEATURES

ENGINES

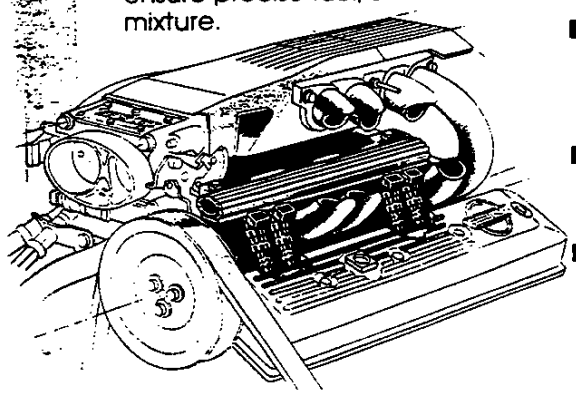
5.7-LITER V8 WITH TUNED-PORT FUEL INJECTION

The standard source of power is the proven L98 5.7-liter (350 CID) V8 with Tuned-Port Fuel Injection. Features important to the performance-minded buyer include:

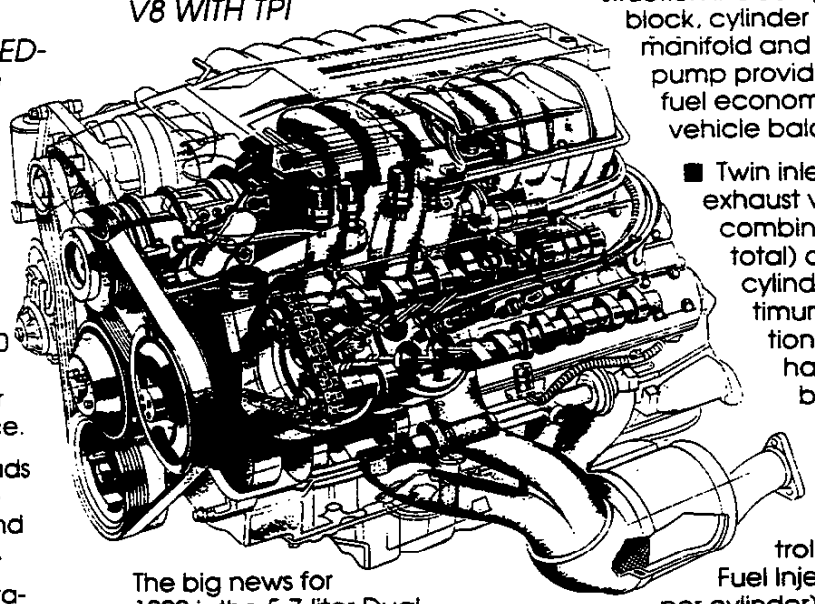
- 245 horsepower at 4000 RPM and 345 lbs.-ft. torque at 3200 RPM, for responsive performance.
- Aluminum cylinder heads and pistons, to help reduce overall weight and increase performance.
- Improved slope-back radiator design, for improved cooling.

TUNED-PORT FUEL INJECTION

This advanced-design fuel delivery system uses Multec Injectors and Tuned-Port runners. The injectors are mounted above the intake valve with one injector per cylinder. Tubular inlet runners channel air to the cylinder heads, resulting in a smooth airflow and increased engine performance. These tubular runners also contribute to a "ram" effect, forcibly moving air through the runners. The ECM computer receives inputs from over 20 sensors to ensure precise fuel/air mixture.



NEW LT5 5.7-LITER DOHC V8 WITH TPI



The big news for 1990 is the 5.7-liter Dual Overhead Cam, 32-valve all aluminum V8 (LT5), available only in the high-performance ZR-1 Coupe.

This dual-personality engine is, in fact, two engines in one. High performance and horsepower at the top end, when required, is nicely balanced by smooth and responsive low-end operation through the naturally aspirated engine. It will deliver a fuel economy rating above the federal "gas-guzzler" level and will meet all applicable emissions requirements. Highlights include:

- Cloverleaf-design fast-burn combustion chambers, to center the spark for efficient combustion of fuel.
- Dual Overhead Camshafts above each bank of cylinders, for direct lobe-to-lifter contact.
- Forged pistons, connecting rods and crankshaft for added durability.
- Cross-drilled crankshaft for superior lubrication.
- Nearly all aluminum construction including cylinder block, cylinder head inlet manifold and water pump provide better fuel economy and vehicle balance.
- Twin inlet and exhaust valve combinations (32 total) at each cylinder, for optimum induction and exhaust system breathing efficiency.
- Sixteen computer-controlled Multec Fuel Injectors (two per cylinder), to ensure precise fuel/air mixture for the full range of driving demands. After start-up, the injection system uses a sequentially modulated computer firing, to obtain precise firing at each stroke.
- Direct fire ignition system, with electronic spark control, for improved performance, fuel conservation and better driveability under varying conditions.
- Thermostatically controlled cooling and lubrication system helps extend the engine life.

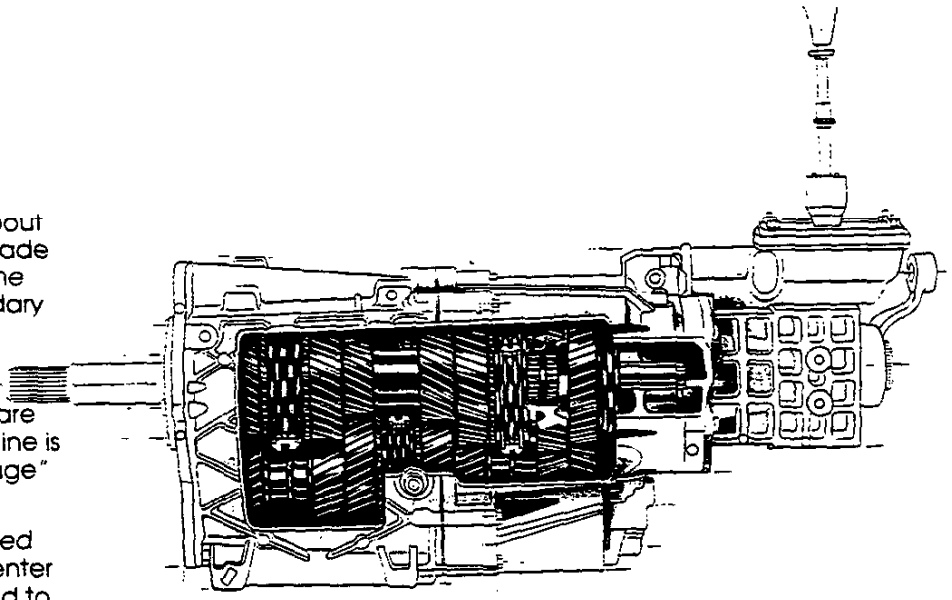
Two-Stage Design

Under normal operations like city driving and up to approximately 70 mph road load, only the primary throttle blade works eight of the sixteen injectors. This allows the engine to operate with excellent performance and efficiency for almost all driving conditions.

At full throttle, or after about 80% of primary throttle blade opening, sensors signal the ECM to open the secondary throttle inlet port blades for additional airflow. At this point the eight secondary fuel injectors are operational and the engine is at full power "second stage" mode.

A removable key-operated switch located on the center console can be activated to disable the second stage. This ensures that only the primary induction system is in operation to restrict engine output when desired.

The bottom line is that this new engine delivers outstanding power and performance at both ends of the spectrum.



TRANSMISSIONS

6-SPEED MANUAL TRANSMISSION

The 6-speed manual transmission ***(shown above)*** is available on all Corvette models for 1990 and required on the ZR-1 Coupe. Key features include:

- Fully synchronized gears (including reverse) for smooth movement up or down the speed range.
- Internal rail shift system, sealed from the elements, for easy operation, shift after shift.
- Dual pivot assembly prevents vibration from being transmitted through the transmission-mounted shifter.
- A heavy-duty pull-type clutch, with a pre-filled hydraulic actuator, accommodates the transmission's high-torque capacity.
- Computer-aided gear selection ensures the most efficient operation at all speeds. To ensure optimum fuel economy, the solenoid limits shifting into 2nd or 3rd gears during light throttle driving applications.
- A dual-mass flywheel increases engine smoothness on launch.

The gear ratios include overdrive in 5th and 6th gears for efficiency and fuel economy improvements.

4-SPEED AUTOMATIC TRANSMISSION

The 4-speed automatic transmission is available this year on the standard Corvette Coupe and Convertible. Its features include:

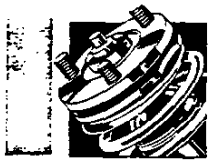
- Overdrive gearing, designed to engage at a pre-calibrated speed, lets the engine run at lower RPM at given highway speeds to enhance fuel economy.
- Once the transmission shifts into 2nd gear, a converter clutch engages to ensure a more direct linkage between the engine and transmission through all remaining forward gears, including overdrive.

POWERTEAM AVAILABILITY

ENGINE/TRANSMISSION	AVAILABILITY	ORDERING CODE	AXLE RATIO
5.7L TPI V8/4-Speed Automatic OD	Corvette Coupe — Std. Convertible — Std.	L98/MX0	2.59:1*
5.7L TPI V8/6-Speed Manual OD	Corvette Coupe — Opt. Convertible — Opt.	L98/MN6	3.33:1
5.7L TPI V8/6-Speed Manual OD	Corvette ZR-1 — Std.	LT5/MN6	3.45:1

NOTE: Sport Exhaust included on Coupes with 6-Speed Manual OD transmission and on Coupes with 4-Speed Automatic OD transmission and (G92) performance axle option.

*3.07:1 w/performance axle option (G92) on Coupe; 2.73:1 w/performance axle option (G92) on Convertible.



CHASSIS FEATURES

STEERING

Power rack-and-pinion steering is standard on all Corvette models for 1990. Designed to produce exceptional sports car handling, its features include:

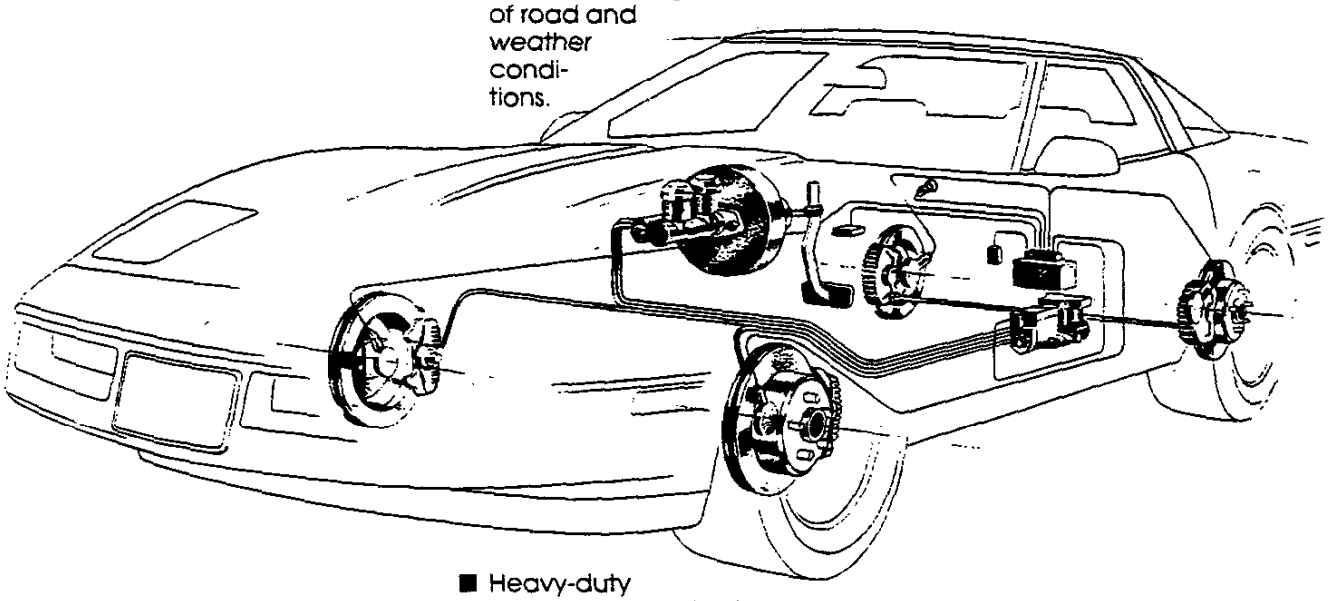
- Heavy-duty vane-type pump to ensure consistent hydraulic pressure.
- Overall ratio of 13.0:1 for quick steering response.
- 1.96 lock-to-lock turns on the Z51 handling package, for excellent turning response.
- Ability to manually steer the vehicle should hydraulic pressure drop.

STANDARD ANTI-LOCK BRAKES

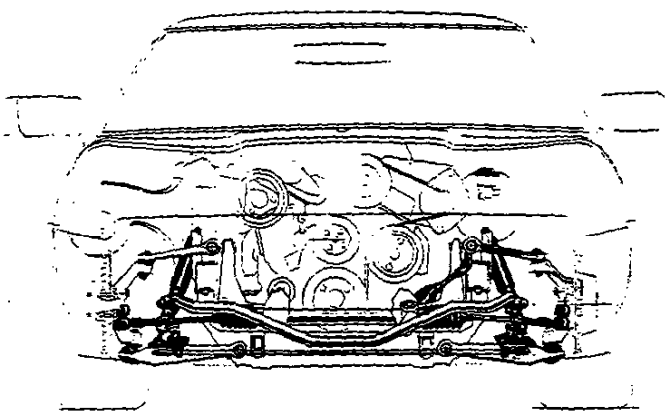
The Bosch ABS Anti-Lock Braking System helps the driver maintain vehicle maneuverability under full braking action on most road surfaces.

This advanced computer-controlled system constantly monitors the speed of each wheel as the brakes are applied. Based on signals it receives from sensors at each wheel, it makes adjustments up to 15 times per second to ensure that each pair of front and rear brakes has sufficient hydraulic pressure to do their job without lock-up. Features include:

- Standard front and rear-wheel discs provide sure response during a variety of road and weather conditions.



- Heavy-duty brakes are standard on the ZR-1 for impressive stopping response.
- Parking brake system is integral to rear discs and the handle returns to the down position when released.

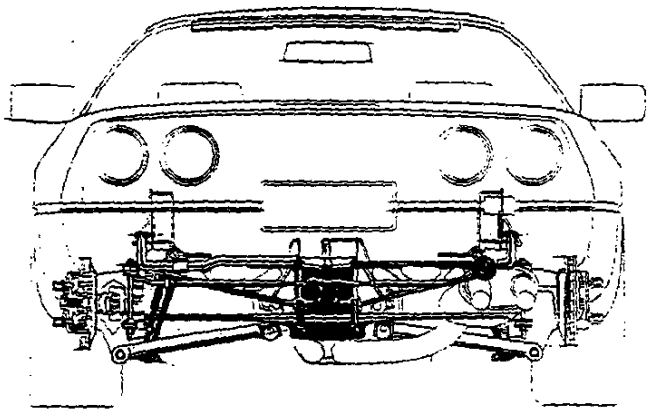


Corvette's zero-scrub radius front suspension is designed to meet — or exceed — world-class sports car standards. Its innovative features include:

- Major components made of high-strength forged aluminum alloy, to maximize strength while minimizing weight.
- Single fiberglass monoleaf springs instead of conventional coil springs, for improved ride control.
- High-strength tubular steel stabilizer bar, to enhance maneuverability.
- Heavy-duty Bilstein gas-pressurized shocks, to help ensure that tires stay in contact with the road.

Designed as the perfect complement to Corvette's front suspension, the advanced-design rear suspension includes:

- Lightweight aluminum components to ensure strength while providing weight savings.
- Lightweight fiberglass transverse springs provide excellent control while absorbing most road shocks.
- 5-link rear-wheel design provides independent wheel action for remarkable handling.



Selective Ride Control

The Selective Ride Control is standard on the ZR-1 and optional on the Base Coupe.

Utilizing SRC shock absorbers, the Selective Ride Control option allows drivers to set the suspension to meet specific driving demands. The driver selects one of three settings to determine the level of ride quality desired. The three settings are:

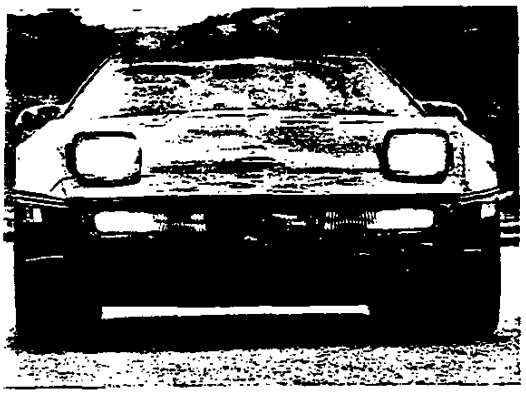
- *Tour* — Touring for the "softest," everyday driving.
- *Sport* — For a comfortable response.
- *Perf* — Or Performance for "stiff," controlled handling.

Both the setting the driver selects, and the vehicle's speed (determined through the vehicle speed sensor—VSS) indicate to the ECM the level of ride quality desired. The ECM then adjusts the damping rod in the shock absorber assemblies to any of the six valving positions within each setting, for the proper reaction.

BODY FEATURES

STYLING

The 1990 model is pure vintage Corvette. This classic sports car includes the following features:



Corvette Coupe

Corvette Coupe offers more than just great looks. Among its features are:

- Twin underhood lamps, for extra illumination.
- Clamshell hood opening for easy access to the engine compartment.
- Retractable headlamps for improved aerodynamics, and retractable glass protection.
- Dual Halogen fog lamps provide added illumination and a stylish appearance.
- Windshield angled 64 degrees for rakish appearance and enhanced aerodynamics.
- One-piece removable roof panel allows open-air driving or closed Coupe quiet and security.
- Rear stop lamp is mounted high atop the frameless glass hatch for improved visibility from the rear.
- Full-opening glass hatch has concealed hinges for an improved appearance.
- Gas filler is concealed, to enhance smooth styling.
- 20-gallon fuel tank with a positive displacement roller vane electric fuel pump, for dependable performance.
- Clear lenses on rear side marker lamps, for improved visibility.
- Power outside mirrors are heated for unimpaired vision to the rear in inclement weather.
- P275/40ZR17 Goodyear unidirectional Eagle tires are standard on the Coupe and Convertible for excellent traction and response.
- 17-inch by 9 1/2-inch Cast Aluminum Wheels are corrosion-resistant and show a distinctive appearance.
- Wheel-bolt locks are standard for added security.

Corvette Convertible

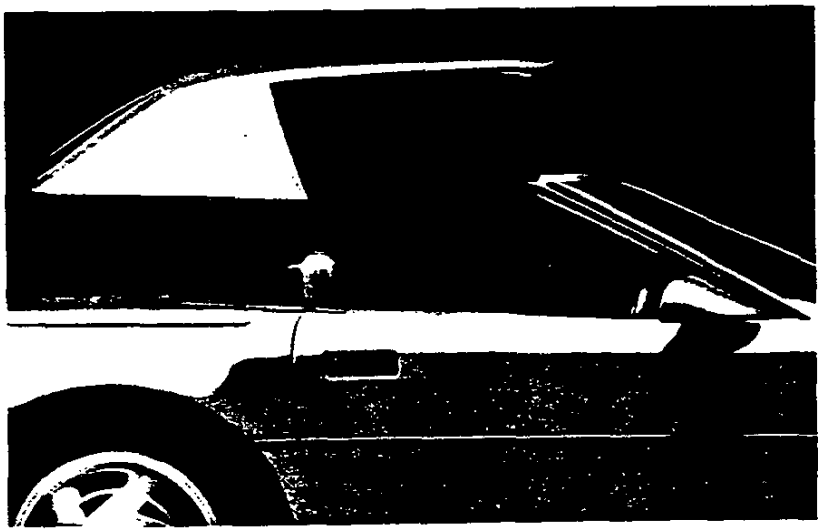
Over and above the features of the standard Coupe, the Convertible offers:

- A manually operated soft top with headliner and acrylic rear window. The top is available in Black, Saddle or White.
- A Convertible hardtop option is available. With this feature the entire 58-lb. fiberglass roof is color-keyed and can be removed or attached as needed.

Corvette ZR-1 High-Performance Coupe

The high-performance 32-valve engine is the major story, but the ZR-1 has other charms, such as:

- Massive P315/35ZR17 rear tires provide the highest performance required of a street machine.

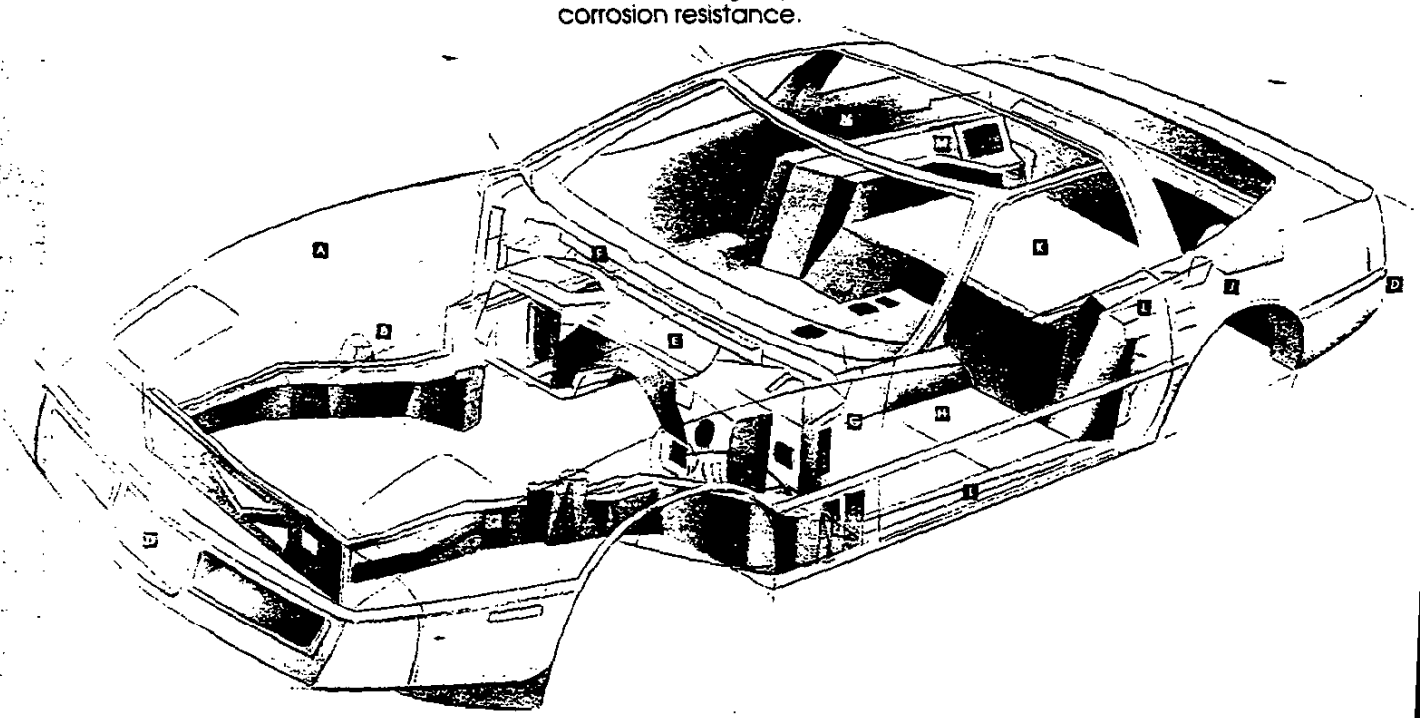


- The tires are mounted on 17-inch by 11-inch lighter weight aluminum rear wheels.
- Flared quarter panels in the rear and convex rear fascia help add to the exterior appearance.
- Reflective rectangular tail lenses and ZR-1 identification badge help other drivers identify what has passed them by.
- Dual exhausts are longer than the standard exhausts and are square-tipped for a more sporty flair.

BODY PROTECTION FEATURES

To provide the staying power that all destined-to-become-classic sports cars are famous for, Corvette offers:

- A Lightweight fiberglass body panels that, unlike metal panels, are corrosion-free.
- B High-gloss acrylic enamel basecoat with clearcoat finish, for gleaming good looks.
- C Integral perimeter frame of two-sided galvanized steel, for structural rigidity and corrosion resistance.
- I Sill area noise-control adhesive pads.
- J Rear quarter pocket insulators.
- K Cargo area insulator pads.
- L Noise-control blocks to help diminish road noise.
- M Rear wheelhousing/ sidewall pads.
- N Sidewall and cargo area insulator pads.



- O Concealed energy-absorbing front and rear bumpers, to resist scrapes and dings.
- P Transmission sound deadener for a quieter ride.
- R Cowl-area insulation.
- S Under-dash insulation and sound absorption.
- T Body floor insulator pads.

INTERIOR FEATURES

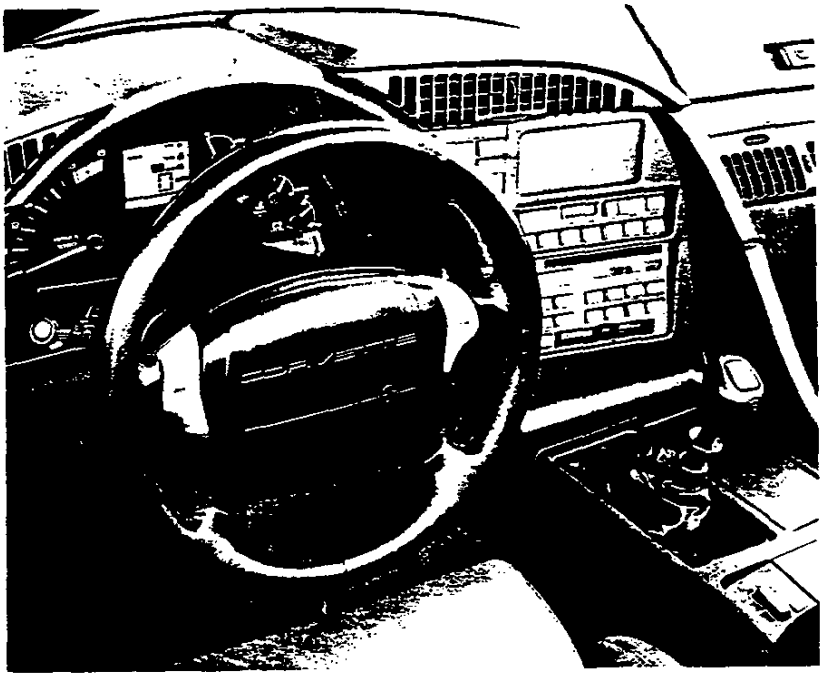
THE COMFORT AND CONVENIENCE STORY

Completely New Interior

The interior is "ergonomically" correct, which means that it has been scientifically designed for human comfort. Seats are deeply contoured for firm lateral support and feature reclining seatbacks for a higher degree of comfort. Standard cloth buckets or optional leather-trimmed buckets include a wool-pad liner for maximum comfort and support. For even greater luxury, optional leather adjustable sport buckets are available with power six-way adjustment.

Some interior appointments include:

- Roller shade-type cargo cover and twin-covered storage bins for secure cargo carrying and neat appearance.
- Body vent pressure system for refreshing ventilation of the cockpit.
- Rear hatch release at each door and in console allows fingertip actuation.
- PASS-Key® Anti-Theft System disables the starter and fuel delivery systems if the wrong key is tried in the ignition.
- Standard air conditioning cools and dehumidifies the interior as desired.
- New glove box offers convenient lockable storage area.
- Electronic speed control with resume speed allows fingertip control to maintain a steady speed.



- Power door locks and window controls for button-touch convenience.
- Intermittent wiper system lets the driver control the speed of the windshield wipers.
- Leather steering wheel adds a sporty flair.
- The steering wheel has the air bag Supplemental Inflatable Restraint System which, in conjunction with safety belts, adds to driver protection.

The combined appearance of the instrumentation, console, information center controls, heater and air conditioner controls, and the six-speaker Bose audio system makes Corvette's well-appointed interior look even more like a jet fighter cockpit than before.

T PANEL

ıior design
ments and
hree sides of the
ick, easy reading
ion, including:

wer mirror and
controls are
ed on the driver's

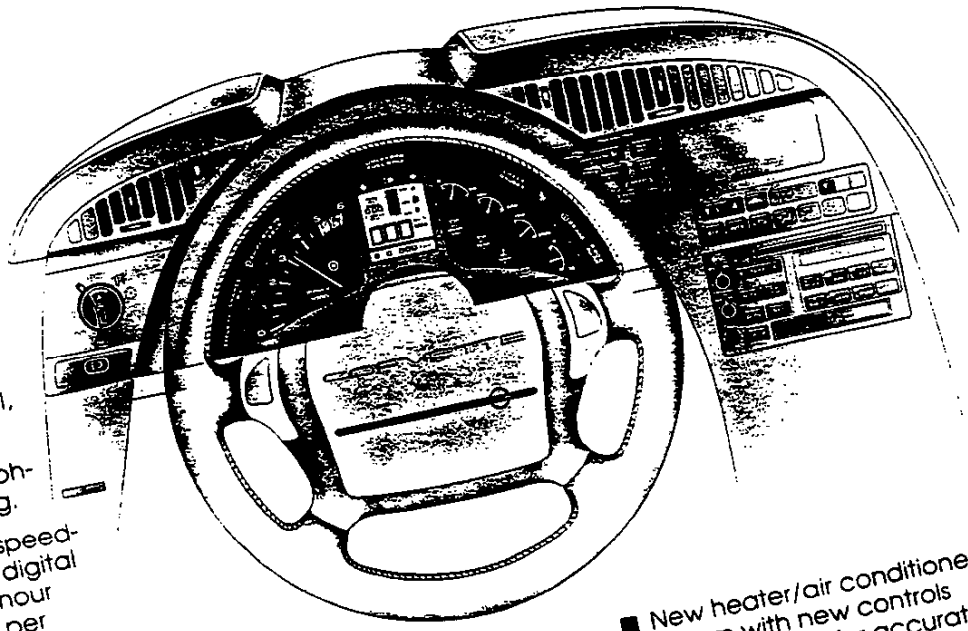
enter console, with
gned driver and
nger power seat
ois, selective ride
rols (where avail-
e), and disc/cassette
age space.

w fog lamp switch.

ew headlamp control,
r easy identification.

ew tachometer graph-
cs for easy monitoring.

New fuel gage and speed-
ometer graphics for digital
display of miles per hour
(MPH) or kilometers per
hour (Km/h).



- New analog and digital gages, including oil temperature and pressure, voltage and coolant temperature for easy checking of vehicle's operating systems.
- New driver alert lights with a "change oil" and "check gages" service messages.
- New trip computer for specific mileage reference.
- Driver information center alerts driver of specific vehicle functions such as: full engine power, low tire pressure, low coolant, service ride select, inflatable restraint, service-engine-soon, battery light and service anti-lock brakes.
- New heater/air conditioner system with new controls and graphics, for accurate temperature settings. The (C68) optional Electronic Air Conditioning controls allow digital temperature setting for precise climate control. LEDs indicate pushbutton operation.
- New Bose Gold AM/FM Stereo System with six speakers, for sound clarity and quality. Optional compact disc and cassette player provides leading-edge sound reproduction. Speed Compensated Volume reacts to the vehicle's speed and adjusts the volume up or down as required (refer to the *Sound Systems Tab* for more information).

COLOR AND TRIM SELECTION

SEAT STYLES & TRIM COMBINATIONS

Model	Seat Type	Interior Colors: Blue	Black	Gray	Red	Saddle
Corvette Coupe	Cloth Bucket		HBB2			HUU2
	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
	Leather Adjustable Sport Bucket*	ADD8	ABB8	AQQ8	ARR8	AUU8
Corvette Convertible	Cloth Bucket		HBB2			HUU2
	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
ZR-1 Coupe	Leather Adjustable Sport Bucket*	ADD8	ABB8	AQQ8	ARR8	AUU8

CORVETTE COUPE AND ZR-1 CORVETTE COUPE (EXTERIOR/INTERIOR COMBINATIONS)

Exterior Paint Color	Color Code	Interior Colors: Blue	Black	Gray	Red	Saddle
Black	41	X	X	X	X	
Blue, Steel (Met.)	25		X			
Charcoal (Met.)	96		X	X		
Green, Polo (Met.)	91					X
Red, Bright	81		X	X	X	X
Red, Dark (Met.)	68		X			X
White	10	X	X	X	X	X

CORVETTE CONVERTIBLE (EXTERIOR/INTERIOR COMBINATIONS)

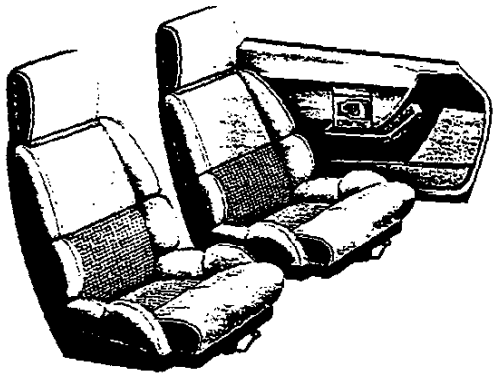
Exterior Paint Color	Color Code	Interior & Convertible Top Colors: Blue	Black	Gray	Red	Saddle
Black	41	19T	10T/19T	10T/19T	19T	
Blue, Steel (Met.)	25		10T/19T			
Charcoal (Met.)	96		10T/19T	10T/19T		
Green, Polo (Met.)	91			10T/19T		19T/67T
Red, Bright	81		10T/19T	10T/19T	10T/19T	19T/67T
Red, Dark (Met.)	68		10T/19T			19T/67T
White	10	10T	10T/19T	10T/19T	10T/19T	10T/67T
Convertible Top Colors	White 10T		Black..... 19T		Saddle 67T	

*Reauires RPO AC1 and AC3 Power Seats ana Z51 Performance Handling Package.

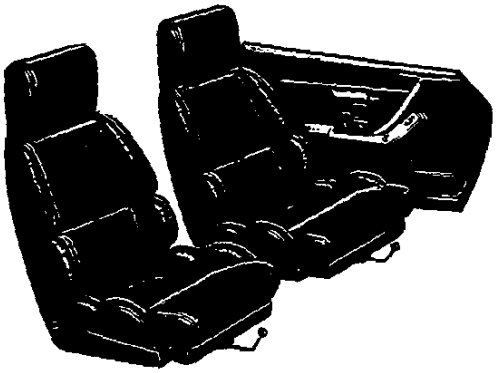
WHEELS AND WHEEL COVERS

17-inch by 9 1/2-inch Cast Aluminum Wheels are standard on the Coupe and Convertible for 1990. Larger 17-inch by 11-inch Cast Aluminum Wheels are only available for the rear wheels of the high-performance ZR-1 Coupe.

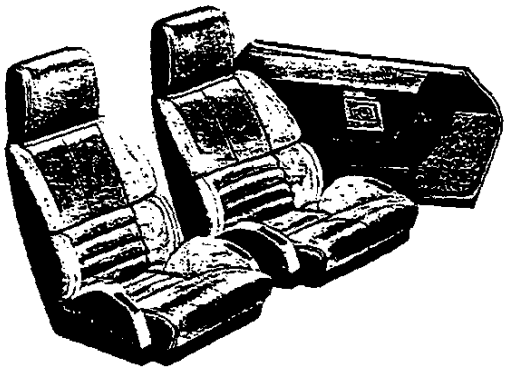
SEAT AND DOOR TRIM



The Corvette Coupe and Convertible have standard cloth-contoured bucket seats with integral head restraints, seatback recliner and wool-pad comfort liner. Color-keyed carpeting covers the lower door panel.

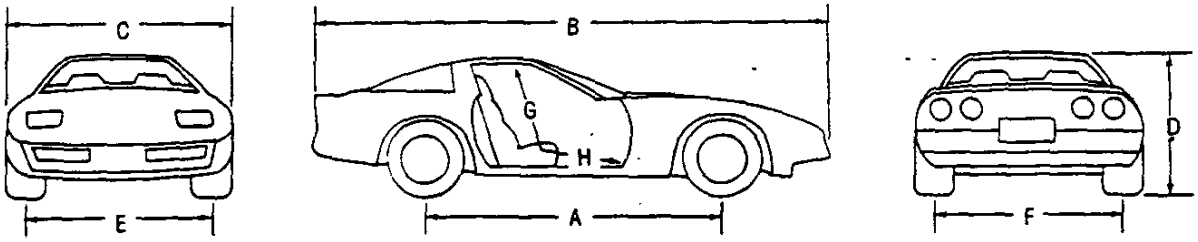


Optionally available on the Convertible and Coupe models are reclining bucket seats with leather seating surfaces, integral head restraints and wool-pad comfort liner.



Standard on the ZR-1 and optional on the Coupe are Sport adjustable buckets with leather trim. Both driver and passenger seats feature full power adjustments for lumbar and backrest.

SPECIFICATIONS AND DIMENSIONS



DIMENSIONS

Exterior Dimensions (in.)		Coupe	Convertible	ZR-1 Coupe
A	Wheelbase	96.2	96.2	96.2
B	Length (overall)	176.5	176.5	177.4
C	Width (overall)	71.0	71.0	73.2
D	Height (overall)	46.7	46.7	46.8
E	Tread — front	59.6	59.6	59.6
F	Tread — rear	60.4	60.4	61.9
	Minimum ground clearance	4.7	4.7	4.7
Interior Roominess (in.)				
G	Headroom — front	36.5	36.5	36.5
H	Legroom — front	42.6	42.6	42.6
	Shoulder room — front	53.8	53.8	53.8
	Hip room — front	49.3	49.3	47.3
Luggage Compartment Capacity				
	Usable luggage space (cu. ft.)	17.9	6.6*	17.9
Rated Fuel Tank Capacity (gallons)		20.0	20.0	20.0
Curb Weight (approx. pounds)		3255	3301	3479

CHASSIS SPECIFICATIONS

Brakes	Base	Convertible	ZR-1
Type	4-Wheel vented disc dual piston	4-Wheel vented disc dual piston	4-Wheel vented disc dual piston
Disc rotor dia. F/R (in.)	12.0/12.0	12.0/12.0	13.0/13.0
Steering			
Type	Power-assisted rack-and-pinion	Power-assisted rack-and-pinion	Power-assisted rack-and-pinion
Turning diameter curb-to-curb (ft.)	40.0	40.0	40.0
Lock-to-lock turns	2.36	2.36	1.96
Suspension — Front			
Type	MacPherson strut with coil springs	MacPherson strut with coil springs	MacPherson strut with coil springs
Suspension — Rear			
Type	5-Link Independent	5-Link Independent	5-Link Independent

*With top up, 4.2 cu. ft. with top down.

ENGINE SPECIFICATIONS

	5.7-Liter V8 (RPO LT5)	5.7-Liter V8 with TPI (RPO L98)
Engine type	90° V8 DOHC 32-Valve	90° V8-OHV
Displacement (cu. in.)	350	350
Bore and stroke (in.)	3.90 x 3.66	4.00 x 3.48
HP* @ RPM	375 @ 5800	245 @ 4000**
Torque* @ RPM (lbs.-ft.)	370 @ 5000	345 @ 3200**
Compression ratio	11.0:1	9.5:1
Fuel induction	Tuned-Port Fuel Injection (TPI)	Tuned-Port Fuel Injection (TPI)
Tailpipe(s)	Dual	Dual
Ignition system	12-volt high energy ignition	12-volt high energy ignition
Delcotron generator	120 amp	105 amp
Battery (SAE capacity rating)	630 cca	630 cca
Cooling system capacity (qts.)	16.7	14.6 manual, 14.5 automatic

TRANSMISSION SPECIFICATIONS

Type	4-Speed Automatic (MX0)	6-Speed Manual (MN6)
Case material	Aluminum	Aluminum
Gear ratios :1		
1st gear	3.06	2.68
2nd gear	1.63†	1.80
3rd gear	1.00†	1.31
4th gear	0.70†	1.00
5th gear	—	0.75
6th gear	—	0.50
Reverse	2.29	2.50

*SAE net.
**250 horsepower and 350 lbs.-ft. of torque with Sport Exhaust. Refer to Powerteam Availability for restrictions.
†Converter clutch engagement.

EQUIPMENT SUMMARY

MECHANICAL	CORVETTE Corvette Coupe	CORVETTE Corvette Conv.	CORVETTE Corvette ZR-1
POWERTEAM FEATURES			
Styled engine compartment	S	S	S
5.7L (350 CID) V8 L98 engine	S	S	NA
5.7L (350 CID) DOHC 32-Valve LT5 engine	NA	NA	S
Outside air induction system	S	S	S
Aluminum intake plenum, tuned crossover runner manifold	S	S	S
Roller hydraulic valve lifters	S	S	S
Exhaust valve rotators	S	S	S
Aluminum cylinder heads	S	S	S
Magnesium rocker covers	S	S	S
Stainless steel exhaust manifolds	S	S	S
Dual reverse flow mufflers	S	S	S
Single serpentine accessory drive belt	S	S	S
Computer Command Control	S	S	S
High energy ignition (HEI) system	S	S	S
Electric engine cooling fan	S	S	S
Delco Freedom maintenance-free battery	S	S	S
Underhood lamps	S	S	S
4-Speed automatic transmission with overdrive	S	S	NA
6-Speed manual transmission with overdrive	O	O	S
CHASSIS FEATURES			
Power-assisted rack-and-pinion steering	S	S	S
Power-assisted 4-wheel disc brakes	S	S	S
Anti-lock Brake System (ABS)	S	S	S
Monoleaf gloss-epoxy composite transverse front and rear springs	S	S	S
Delco/Bilstein gas-charged shock absorbers	S	S	S
Forged aluminum front and rear suspension arms	S	S	S
Full independent suspension	S	S	S
Zero-scrub front suspension	S	S	S
FX3 Selective Ride Control	O	NA	S
20-gallon fuel tank with electric in-tank twin turbine pump	S	S	S
TIRES/WHEELS			
17" x 9-1/2" Cast aluminum wheels	S	S	S*
P275/40ZR17 Eagle tires	S	S	S**
BODY FEATURES			
Uniframe-design body structure with corrosion-resistant coating	S	S	S
Corrosion-resistant fiberglass body panels	S	S	S
Lightweight underbody panels	S	S	S
Power-operated quartz-Halogen retractable headlamps	S	S	S
Dual quartz-Halogen fog lamps in grille opening	S	S	S
Body-color soft front and rear fascias	S	S	S
Energy-absorbing bumper system	S	S	S
Front cornering lamps	S	S	S
Front fender louvers	S	S	S
Full-tilting "clamshell" hood and fender assembly	S	S	S
Concealed wipers with integral washers in arms	S	S	S

S—Standard O—Optional NA—Not Available

*Includes 17 x 11 wheels on rear.

** Includes P315/35ZR17 tires on rear

EXTERIOR	CORVETTE Corvette Coupe	Corvette Conv.	Corvette ZR-1
BODY FEATURES			
Dual electric remote-control heated sport mirrors	S	S	S
Designed-in body side moldings	S	S	S
Single fiberglass removable roof panel	S	NA	S
Folding convertible top with aluminum framework	NA	S	NA
Hinged top stowage-well panel cover	NA	S	NA
Frameless rear hatch glass with three remote releases (one on each door panel, one on instrument panel)	S	NA	S
Power automatic retracting antenna	S	S	S
Center high-mount stop lamp	S	S	S
Clear lens illuminating rear marker lamps	S	S	S
INTERIOR			
INSTRUMENT PANEL/CONTROLS/CONSOLE			
Analog gages for: tachometer, oil pressure, oil temperature, coolant temperature and voltmeter	S	S	S
Electronic liquid-crystal display for: speedometer, odometer, trip odometer and fuel	S	S	S
Warning lights	S	S	S
Driver information system: includes instant mpg, average mpg and range in digital readouts	S	S	S
PASS-Key anti-theft ignition	S	S	S
Air conditioning	S	S	S
Headlamps-on reminder	S	S	S
Intermittent wiper system	S	S	S
Electronic speed control with resume speed	S	S	S
Side window defoggers	S	S	S
Illuminated RH and LH visor mirrors	S	S	S
Inside hood release	S	S	S
Under-dash courtesy lamps	S	S	S
Delco Bose Gold AM/FM Stereo Radio with Seek/Scan, Cassette, Digital Clock and four speakers	S*	S*	S
Leather-wrapped tilt steering wheel	S	S	S
Day/night rearview mirror with integral map lamps	S	S	S
Center console with lighted lockable storage compartment	S	S	S
Driver side Supplemental Inflatable Restraint System	S	S	S
SEATS/DOOR PANELS			
Contour-shell cloth bucket seats with lateral support and back angle adjustment	S	S	S
Soft-padded and carpeted door panels	S	S	S
Power windows and door locks	S	S	S
High-intensity interior lamps on door and pillar (Coupe) or in rear compartment (Conv.)	S	S	S
Scotchgard™ fabric protector included with cloth seats	S	S	S
LUGGAGE/CARGO AREA			
Deep-twist floor and stowage area carpet	S	S	S
Rear underfloor storage compartments (2)	S	S	S
Acoustical insulation package	S	S	S
Luggage compartment concealment roller shade	S	NA	S

S—Standard O—Optional NA—Not Available

*AM/FM Stereo Radio with Seek Scan Stereo Cassette Tape Player and Digital Clock with base vehicle groups only

PREFERRED EQUIPMENT GROUPS

Packaged Options (not available individually unless indicated)	Corvette Coupe CVA1	Corvette Convertible CYA1	Corvette ZR-1 CZA1
Electronic Air Conditioning	X*	X*	X
Power Seat (Driver's)	X*	X*	X
RADIO EQUIPMENT			
Delco**/Bose Gold Music System	X*	X*	
Delco**/Bose Gold Music System with Digital Compact Disc and Cassette Player	O	O	X
ADDITIONAL INDIVIDUAL OPTIONS			
Performance Ratio Axle	O**	O**	
Engine Block Heater	O	O	
Low Tire Pressure Warning	O	O	O
Performance Handling Package	O**		S
Power 6-Way Seat (Passenger's)	O	O	O
Roof Panels — Transparent Removable — Blue Tint	O		O
Roof Panels — Transparent Removable — Bronze Tint	O		O
Roof Package (Incls. Standard Solid Panel and Transparent Blue or Bronze Tint Panels)	O		O
Electronic Selective Ride Control and Handling (Reqs. Z51)	O		S
Luggage Carrier (Black)		O	
Hardtop, Removable		O	

S—Standard X—Included in Preferred Equipment Group O—Individual Option Availability

NOTE: Not to be used for ordering. Refer to Order Guide for current usage and availability.

Refer to the Sound Systems Tab for more detailed radio information.

*Also available as an individual Option with Base Vehicle Group.

**See Order Guide for content and powerteam restrictions.

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer	Chevrolet Motor Division General Motors Corporation	**Vehicle Line**	CORVETTE
Mailing Address	Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, Michigan 48090-9060	**Issued**	June, 1989
		Revised	September, 1989

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 Motor Vehicle Manufacturers Association of the United States, Inc.

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.

mvma

Motor Vehicle Manufacturers Association
of the United States, Inc.

Blank Forms Provided by Technical Affairs Division

FORM MVMA-90

MVMA Specifications

METRIC (U.S. Customary)

Table of Contents

O Indicates Format Change From Previous Year

NOTE:

1. This form uses both SI metric units and U.S.Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
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) specs. 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.

FORM MVMA-90

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Vehicle Origin

Design & development (company)	Chevrolet-Pontiac-GM of Canada
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 (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
CORVETTE				
2-Door Coupe (RWD)		1YY07	2 (2/0)	45.4 (100)
2-Door Convertible (RWD)		1YY67	2 (2/0)	45.5 (100)
2-Door Coupe (RWD) (SPECIAL PERFORMANCE/ZR1)		1YZ07	2 (2/0)	45.5 (100)

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)
Power Teams

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

			A	B	C	D
ENGINE	Engine Code		L98	L98	L98	L98
	Displacement Liters (cu. in.)		5.7 (350)	5.7 (350)	5.7 (350)	5.7 (350)
	Induction system (FI, Carb, etc.)		Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection
	Compression ratio		9.5:1	9.5:1	9.5:1	9.5:1
	SAE Net at RPM	Power kW (bhp)	186 (250) @ 4400	183 (245) @ 4000	186 (250) @ 4400	183 (245) @ 4000
		Torque Newton meters (lb.ft.)	474 (350) @ 3200	468 (345) @ 3200	474 (350) @ 3200	468 (345) @ 3200
	Exhaust Single, dual		Dual	Dual	Dual	Dual
TRANS	Transmission/ Transaxle		ML9 Manual Transmission 6-Speed	MD8 Automatic Transmission 4-Speed	MD8 Automatic Transmission 4-Speed	MD8 Auto Transmission 4-Speed
	Axle Ratio (std. first)		3.33	2.59	3.07	2.73

Series Availability		Power Teams (A – B – C – D)	
Model	Code	Standard	Optional
CORVETTE			
2-Dr. Coupe	1YY07	B	A, C
2-Dr. Convertible	1YY67	B	D, E
2-Dr. Coupe (Special Performance/ZR1)	1YZ07	F	

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)
Power Teams

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

			E	F	G	H
ENGINE	Engine Code		L98	LT5		
	Displacement Liters (cu. in.)		5.7 (350)	5.7 (350)		
	Induction system (FI, Carb, etc.)		Multi-Port Fuel Injection	Multi-Port Fuel Injection		
	Compression ratio		9.5:1	11.0:1		
	SAE Net at RPM	Power kW (bhp)	183 (245) @ 4000	280 (375) @ 5800		
		Torque Newton meters (lb.ft.)	468 (345) @ 3200	502 (370) @ 4800		
	Exhaust Single, dual		Dual	Dual		
TRANS	Transmission/ Transaxle		ML9 Manual Transmission 6-Speed	ML9 Manual Transmission 6-Speed		
	Axle Ratio (std. first)		3.33	3.45		

Series Availability		Power Teams (A – B – C – D)	
Model	Code	Standard	Optional

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group – G.M. Corporation
No. of cylinders		8
Bore		101.6 mm (4.00 in.)
Stroke		88.4 mm (3.48 in.)
Bore spacing (C/L to C/L)		111.8 mm (4.40 in.)
Cyl block matl & mass kg(lbs.)(machined)		Cast Iron, 68.674 (151.5)
Cylinder block deck height		229.4 mm (9.025 in.)
Cylinder block length		506.2 mm (19.93 in.)
Deck clearance (minimum) (above or below block)		.025 Below
Cyl. head material & mass kg (lbs.)		Cast Iron, 19.800 (43.7)
Cylinder head volume (cu. cm.)		55.9
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		1.245 mm (.049 in.)
Minimum combustion chamber total volume (cm. cu.)		75.47 Combustion Chamber With Piston At Top Dead Center And All Components In Place Torqued To Specifications.
Cyl. no. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass[kg(lbs.)]**		Cast Aluminum, 6.117 (13.5)
*Exh. manifold matl & mass (kg (lbs.))***		Iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		91
Engine *mounts*	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	Crossmember Mounted
Total dressed engine mass (wt) dry***		252.8 kg (557 lbs.)

Engine – Pistons

Material & mass, g (weight, oz.) – piston only	Impacted Cast Aluminum, .540 (1.2)

Engine Camshaft

Location		In Cylinder Block "V" Above Crankshaft
Material & mass kg (weight, lbs.)		Steel, 4.200 (9.3)
Drive type	Chain/belt	Chain
	Width/pitch	15.976 x 12.7 mm (.625 x .5 in.)

*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:

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LT5

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group – G.M. Corporation
No. of cylinders		8
Bore		99mm (3.90 in.)
Stroke		93mm (3.66 in.)
Bore spacing (C/L to C/L)		111.8mm (4.40 in.)
Cyl blck matl & mass kg(lbs.)(machined)		Aluminum Alloy
Cylinder block deck height		229.24mm (9.03 in.)
Cylinder block length		506.2mm (19.93 in.)
Deck clearance (minimum) (above or below block)		
Cyl. head material & mass kg (lbs.)		Aluminum Alloy, 34.01 (75)
Cylinder head volume (cu. cm.)		Not Available
Cylinder liner material		Forged Aluminum Extrusion
Head gasket thickness (compressed)		
Minimum combustion chamber total volume (cm. cu.)		40cc (2.44 cu. in.)
Cyl no. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass[kg(lbs.)]**		Cast Aluminum
Exh. manifold matl & mass [kg (lbs.)]**		Stainless Steel, 14.97 (33)
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		91
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Hydraulic
	Added isolation (sub-frame, crossmember, etc.)	–
Total dressed engine mass (wt) dry***		270.5 kg. (596 lbs.)

Engine – Pistons

Material & mass, g (weight, oz.) – piston only	Cast Aluminum, 6.35 (14)

Engine Camshaft

Location		In Cylinder Head Above Valves
Material & mass kg (weight, lbs.)		9.07 (20) Induction Hardened Cast Iron
Drive type	Chain/belt	Chain
	Width/pitch	

*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:

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	8/8
	Head O.D. intake/exhaust	49.28 mm (1.94 in.) / 38.10 mm (1.50 in.)

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Steel, .388 (.85)
Length(axes centerline to centerline)	144.78 mm (5.79 in.)

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]*		Nodular Cast Iron, 23.360 (51.50)
End thrust taken by bearing (no.)		5
Length & number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	Fluroelastomer / One Piece, Lip Seal
	Rear	Fluroelastomer / One Piece, Lip Seal

Engine – Lubrication System

Normal oil pressure[kPa(psi) @ eng rpm]	41 (6) @ 1000/124 (18) @ 2000/165 (24) @ 4000 (Hot)
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow,part, other)	Full Flow
Capacity of c/case,less filter-refill-L (qt.)	3.8 (4.0)

Engine – Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0 deg. F		
Injector Nozzle	Type	
	Opening pressure[kPa(psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel inj. 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 CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	16/16
	Head O.D. intake/exhaust	39mm (1.54 in.) / 35.2mm (1.39 in.)

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]*	
Length(axes centerline to centerline)	145.8 mm (5.74 in.)

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]*		Nitrided Forged Steel, 24.94 (55)
End thrust taken by bearing (no.)		5
Length & number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	Fluroelastomer / One Piece Lip Seal
	Rear	Fluroelastomer / One Piece Lip Seal

Engine – Lubrication System

Normal oil pressure[kPa(psi) @ eng rpm]	345-450 (50-60) @ 2000
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow,part, other)	Full Flow
Capacity of c/case,less filter-refill-L (qt.)	8.55 (9)

Engine – Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0 deg. F		
Injector Nozzle	Type	
	Opening pressure[kPa(psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel inj. 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 CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO L98

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)		Standard
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery
Radiator cap relief valve pressure [kPa (psi)]		124.1 (18.0)
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open @ deg's C(F)	90.6 (195)
Water Pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	13
	Number of pumps	1
	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)*
	Bearing type	Sealed Double Row Ball
	Impeller material	Steel
	Housing material	Cast Aluminum
By-pass recirculation [type (inter., ext.)]		Internal
Cooling system capacity	With heater - L (qt.)	—
	With air conditioner-L(qt.)	Manual 13.86 (14.65), Automatic 13.73 (14.51)
	Opt. equip.[specify-L(qt.)]	—
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
	Matl., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks
	Width	599.5 mm (23.6 in.)
	Height	382.4 mm (15.0 in.)
	Thickness	23.5 mm (0.9 in.) Base, 34.0 mm (1.3 in.) V01
	Fins per inch @	2.5
Radiator end tank material		Plastic
Fan	Std., elec., opt.	Electric, Standard
	Number of blades & type (flex, solid, material)	5-Blades, High Efficiency Curved Blades And Ring Shroud, Plastic
	Diameter & projected width	423.0 mm (16.7 in.)
	Ratio(fan to crnkshft.rev.)	—
	Fan cutout type	Temp. Switch
	Drive type (direct, remote)	Electric
	RPM at idle (elec.)	2100
	Motor rating(wattage)(elec)	150
	Motor switch (type & location) (elec.)	Temp. Switch
	Switch point (temp., pressure) (elec.)	106 deg. C.
	Fan shroud (material)	Plastic Ring Shroud

@ - Distance Between Top Of Fins.

* - 21.36mm (0.84") Wide, 5.20mm (0.20") Thick With Uniform Dynamic Tensioner.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)		Standard
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery
Radiator cap relief valve pressure [kPa (psi)]		117.2 (17.0)
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open @ deg's C(F)	83.7 (180)
Water Pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	12
	Number of pumps	1
	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)
	Bearing type	Sealed Double Row Ball
	Impeller material	Steel
	Housing material	Cast Aluminum
By-pass recirculation [type (inter., ext.)]		Internal
Cooling system capacity	With heater – L (qt.)	Not Applicable
	With air conditioner–L(qt.)	15.81 (16.7)
	Opt. equip.[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)		Yes
Radiator core	Std., A/C, HD	A/C Standard
	Type (cross-flow, etc.)	Cross-Flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube
	Matl., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks
	Width	
	Height	
	Thickness	34 (1.34)
	Fins per inch	
Radiator end tank material		Plastic
Fan	Std., elec., opt.	Electric, Standard
	Number of blades & type (flex, solid, material)	5 Blades High Efficiency Curved Blades And Ring Shroud Plastic
	Diameter & projected width	299mm (11.77 in.)
	Ratio(fan to crnkshft.rev.)	Not Applicable
	Fan cutout type	Temp Switch
	Drive type (direct, remote)	Electric
	RPM at idle (elec.)	2100
	Motor rating(wattage)(elec)	(150)
	Motor switch (type & location) (elec.)	Temp Switch
	Switch point (temp., pressure) (elec.)	106 deg. C.
	Fan shroud (material)	Plastic Ring Shroud

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
MULTI-PORT FUEL INJECTION RPO L98

Engine Code

Engine – Fuel System (See supplemental page for details of Fuel Inj, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		TPI – Tuned Port Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset – No Adjustment Provided
Fuel injection	Point of inj. (no.)	Fuel Injectors At Inlet Ports
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic – On Board Computer
	Sys. press. [kPa (psi)]	
Idle spd.–rpm (spec. neutral or drive and propane if used)	Manual	None
		"
	Automatic	"
		"
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, Thermostat
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Frame Mounted
Fuel pump	Type (elec. or mech.)	Electric – Dual Turbine
	Location (eng., tank)	In Fuel Tank
	Press. range [kPa(psi)]	
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	

Fuel Tank

Capacity [refill L (gallons)]		75.7 (20.0)
Location (describe)		Under Rear Deck
Attachment		Rests On Rear Frame Extension, Held With Straps
Material & Mass [kg (weight lbs.)]		Super Terne Coated Steel With High Density Polyethylene Liner (*)
Filler pipe	Location & material	Center Of Rear Deck
	Connection to tank	Bolted With Gasket On Top Of Tank
Fuel line (material)		Super Terne Coated Steel
Fuel hose (material)		Viton
Return line (material)		Super Terne Coated Steel
Vapor line (material)		Super Terne Coated Steel
Extended range tank	Opt., n.a.	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Sletr switch or valve	"
	Separate fill	"

(*) – 13.600 kg. (30.0 lbs.)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LT5

Engine – Fuel System (See supplemental page for details of Fuel Inj, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		TPI - Tuned Port Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset - No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injectors At Inlet Ports
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic - On Board Computer
	Sys. press. [kPa (psi)]	Not Applicable
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	None
		"
	Automatic	"
		"
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, Thermostat
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Frame Mounted
Fuel pump	Type (elec. or mech.)	Electric - Dual Turbine
	Location (eng., tank)	In Fuel Tank
	Press. range [kPa(psi)]	
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	

Fuel Tank

Capacity [refill L (gallons)]		75.7 (20.0)
Location (describe)		Under Rear Deck
Attachment		Rests On Rear Frame Extension, Held With Straps
Material & Mass [kg (weight lbs.)]		Super Terne Coated Steel With High Density Polyethylene Liner (*)
Filler pipe	Location & material	Center Of Rear Deck
	Connection to tank	Bolted With Gasket On Top Of Tank
Fuel line (material)		Super Terne Coated Steel
Fuel hose (material)		Viton
Return line (material)		Super Terne Coated Steel
Vapor line (material)		Super Terne Coated Steel
Extended range tank	Opt., n.a.	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Sictr switch or valve	"
	Separate fill	"

(*) - 13.600 kg. (30.0 lbs.)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO L98

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Vane
		Driven by	Serpentine - Single Belt Poly 'V' Drive
		Air distribution (head, manifold, etc.,)	Exhaust Manifold And Converter (CCC Controlled)
		Point of entry	Exhaust Manifold Ports
	Exhaust Gas Recircu-lation	Type (controlled flow, open orifice, other)	Controlled Flow
		Exhaust source Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold Exhaust Cross-Over Passage # Center Of Inlet Manifold Plenum
	Catalytic Converter	Type	Dual-Bed
		Number of	2 Front And 1 Rear
		Location(s)	Front - 1 On Each Exhaust Pipe Rear - Underbody Tunnel Below Console
		Volume [L(cu.in)]	2.7822 (169.8)
		Substrate type	Monolith
		Noble metal type	Platinum (Pt), Palladium (Pd), Rhodium (Rh)
		Noble metal concentration (g/cu. cm.)	0.000451 (FRT), 0.001007 (RR)
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		Inlet Manifold
	Air inlt(breather cap,other)		Air Cleaner
Evapora-tive Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister
		Carburetor	---
	Vapor storage provision		Canister
Electron-ic 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 (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		2, Reverse Flow (Stainless Steel Body, Aluminum Coated Steel Inlet And Outlets)
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	Outer Pipe 63.5x.96mm (2.50x.038in.), Inner Pipe 57.0x.96mm (2.25x.038in.)
	Main o.d., wall thickness	76.2 x 1.83 mm (3.0 x .072 in.)
	Matl. & Mass [kg(wght.lbs.)]	Stainless Steel Tubing (*)
Inter-mediate pipe	o.d. & wall thickness	57.15 x 1.83 mm (2.25 x .072 in.)
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel
Tail pipe	o.d. & wall thickness	Dual Outlets - 57.15 x 1.83mm (2.25 x .072 in.)
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel

(*) - 2.29 (.09) Air Gap Between Pipes For Heat Control And Sound Dampening.
(**) - Muffler & Tail Pipe Unit L.H. 6.565 (14.5) R.H. 6.565 (14.5)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Vane
		Driven by	Electric
		Air distribution (head, manifold, etc.,)	Exhaust Manifold (CCC Controlled)
		Point of entry	Exhaust Manifold
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Not Available
		Exhaust source Point of exh.inj. (spacer, carb., manifold, other)	Not Available
	Catalytic Converter	Type	3 Way
		Number of	2
		Location(s)	Exhaust Manifold (Close Coupled)
		Volume [L(cu.in)]	2.0545 (125.37) Each
		Substrate type	Monolith
		Noble metal type	Platinum (Pt), Rhodium (Rh)
		Noble metal concentration (g/cu. cm.)	0.001844 Each
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 Plenum
	Air init(breather cap,other)		Air Cleaner
Evaporative Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister
		Carburetor	--
	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 (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		2, Reverse Flow
Resonator no. & type		2
Exhaust pipe	Branch o.d., wall thickness	RH - 69.85 x 1.09mm (2.75 x .04 in.); LH - 69.85 x 1.09mm (2.75 x .04 in.)
	Main o.d., wall thickness	Not Available
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH - .810 (1.786); LH 1.215 (2.679)
Intermediate pipe	o.d. & wall thickness	RH - 69.85 x 1.09 mm (2.75 x .04 in.); LH - 69.85 x 1.09 mm (2.75 x .04in.)
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH - 2.136 (4.709); LH - 2.136 (4.709)
Tail pipe	o.d. & wall thickness	RH & LH Outer - 69.85 x 1.37 (2.75 x .05 in.); *
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH & LH Outer .700 (1.544); **

* RH & LH Inner - 69.85 x 1.37 mm (2.75 x .05 in.)

** RH & LH Inner - .652 (1.437)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (305 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

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

Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	"
Automatic (manufacturer/country)	"
Auto. overdrive (manufacturer/country)	"
Manual 6-Speed (Man/Con)	Zahnradfabrik Friedrichshafen AG (ZF) Schwabisch Gmuend W. Germany

Manual Transmission/Transaxle

Number of forward speeds		6
Gear ratios	1st	2.68
	2nd	1.80
	3rd	1.29
	4th	1.00
	5th	.75
	6th	.50 Rev. 2.50
Synchronous meshing (specify gears)		All
Shift lever location		Rear - Trans MTD.
Trans. case mat'l. & mass kg (lbs)*		Aluminum 69.0
Lubricant	Capacity [L (pt.)]	21 (.987)
	Type recommended	SW-30 Texaco

Clutch (Manual Transmission)

Clutch manufacturer		Valeo Clutches & Transmissions
Clutch type (dry, wet; single, multiple disc)		280mm Pull Type - Dry Clutch
Linkage (hyd., cable, rod, lever,other)		Hydraulic Pre-Filled
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed	178 (40)
	Released	133 (30)
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N(lbs)		11,250 (2,529)
Clutch facing	Facing mfgr. & matl. coding	Valeo F-202
	Facing matl. & construction	Non-Asbestos Woven
	Rivets per facing	9
	Outside x inside dia. (nom.)	280 x 180mm (11.02 x 7.09 in.)
	Total eff.area[sq cm(sq in)]	361.3 (56)
	Thickness (pressure plate side/fly wheel side)	3.3/3.3mm (.130/.130) in.)
	Rivet depth (pressure plate side/fly wheel side)	1.0mm (.039 in.)
	Engagement cushion method	Cushion Springs
Release bearing type & method lub.		Angular Contact Ball Bearing
Torsional damping method, springs, hysteresis		Dual-Mass Flywheel (Non-Dampened Clutch Disc)

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

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

Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	"
Automatic (manufacturer/country)	"
Auto. overdrive (manufacturer/country)	"
Manual 6-Speed (Man/Con)	Zahnradfabrik Friedrichshafen AG (ZF) Schwabisch Gmuend W. Germany

Manual Transmission/Transaxle

Number of forward speeds		6
Gear ratios	1st	2.68
	2nd	1.80
	3rd	1.29
	4th	1.00
	5th	.75
	6th	.50 Rev. 2.50
Synchronous meshing (specify gears)		All
Shift lever location		Rear - Trans MTD.
Trans. case mat'l. & mass kg (lbs)*		Aluminum 69.0
Lubricant	Capacity [L (pt.)]	21 (.987)
	Type recommended	SW-30 Texaco

Clutch (Manual Transmission)

Clutch manufacturer			Valeo Clutches & Transmissions
Clutch type (dry, wet; single, multiple disc)			280mm Pull Type - Dry Clutch
Linkage (hyd., cable, rod, lever,other)			Hydraulic Pre-Filled
Max. pedal effort (nom. spring load, new) N (lbs.)		Depressed	178 (40)
		Released	133 (30)
Assist (spring, power/percent, nominal)			None
Type pressure plate springs			Diaphragm
Total spring load (nominal, new) N(lbs)			11,250 (2,529)
Clutch facing	Facing mfgr. & matl. coding		Valeo F-202
	Facing matl. & construction		Non-Asbestos Woven
	Rivets per facing		9
	Outside x inside dia. (nom.)		280 x 180mm (11.02 x 7.09 in.)
	Total eff.area[sq cm(sq in)]		361.3 (56)
	Thickness (pressure plate side/fly wheel side)		3.3/3.3mm (.130/.130) in.
	Rivet depth (pressure plate side/fly wheel side)		1.0mm (.039 in.)
	Engagement cushion method		Cushion Springs
Release bearing type & method lub.			Angular Contact Ball Bearing
Torsional damping method, springs, hysteresis			Dual-Mass Flywheel (Non-Dampened Clutch Disc)

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO L98

○ Automatic Transmission/Transaxle

Trade Name		4-Speed Automatic (Overdrive 4th Gear)
Type and special features (describe)		Torque Converter With Planetary Gears
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)	
Gear ratios	1st	3.06
	2nd	1.63 @
	3rd	1.00 @
	4th	0.70 @
	Reverse	2.29
Max. upshift speed – drive range [km/h (mph)]		1-2 = 43, 2-3 = 79, 3-4 = 116 (At Wide Open Throttle)
Max. kickdown speed – drive range [km/h (mph)]		4-3 = 105, 3-2 = 72, 2-1 = 35
Min. overdrive speed [km/h (mph)]		38
Torque converter	Number of elements	3
	Max. ratio at stall	1.85
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298 (11.75)
	Capacity factor "K"*	
Lubricant	Capacity (refill L(pt.)]	3.8 (8.0)
	Type recommended	Dexron II
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, External, Liquid
Trans. mass [kg(lbs)] & case matl.**		Aluminum

@ - Computer Controlled Torque Converter Clutch 2nd, 3rd, And 4th Gears.

○ All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

Desc. & type (part-time, full-time, 2/4 shift while moving, mech., 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(% frt/rear)	

* Input speed / square root of torque.
** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LT5

o Automatic Transmission/Transaxle (NOT APPPLICABLE)

Trade Name		
Type and special features (describe)		
Gear selector	Location (column, floor, other)	
	Ltr./No. designation (e.g. PRND21)	
	Shift interlock (yes, no, describe)	
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	Reverse	
Max. upshift speed – drive range [km/h (mph)]		
Max. kickdown speed – drive range [km/h (mph)]		
Min. overdrive speed [km/h (mph)]		
Torque converter	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
	Capacity factor "K"*	
Lubricant	Capacity (refill L(pt.)]	
	Type recommended	
Oil cooler (std., opt., N.A., internal, external, air, liquid)		
Trans. mass [kg(lbs)] & case matl.**		

o All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Desc. & type (part-time, full-time, 2/4 shift while moving, mech., 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(% frt/rear)	

* Input speed / square root of torque.
** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

○ Axle Ratio and Tooth Combinations

		AUTOMATIC - MD8			MANUAL - ML9
Axle ratio (or overall top gear ratio)		2.59	2.73	3.07	3.33 (1.66)
Ring gear o.d.		200 (7.875)			215.9 (8.5)
No. of teeth	Pinion	17	15	14	12
	Ring gear	44	41	43	40

○ Rear Axle Unit

Description		Overhung Pinion Gear
Limited slip differential (type)		Disc Clutches
Drive pinion	Type	Hypoid
	Offset	38.1 (1.50)
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Tapered Roller
Lubricant	Capacity (L (pt.))	1.8 (3.75)
	Type recommended	GL-5 Gear Lubricant EOW-90

○ Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight Tube, Internal-External Damper		
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Available		
	Manual 4-speed transmission		Not Available		
	Manual 5-speed transmission		Not Available		
	Overdrive				
	Automatic transmission **		STEEL 63.5 x 825.5 x 165mm (2.50 x 32.5 x .065 in.)	ALUMINUM 76.2 x 825.5 x 3.05mm (3.00 x 32.5 x 0.12 in.)	Opt. (RPO-Z51) & Power Seat
Inter-mediate bearing	Type (plain, anti-friction)		None		
	Lub. (fitting, prepack)		--		
Slip yoke	Type		Splined		
	Number of teeth		Manual Trans. - 32	Automatic Trans. - 26	
	Spline o.d.		Manual Trans. - 34.95mm (1.38 in.)	Automatic Trans. - 29.7mm (1.17 in.)	
Universal joints	Make and mfg. no.	Front	#1311		
		Rear	#1318		
	Number used		2		
	Type (ball and trunnion, cross)		Cross		
	Rr. attach(u-bolt,clamp,etc)		Strap And Bolt		
	Bearing: Type (plain, anti-friction)		Anti-Friction		
	Bearing: Lubrication (fitting, prepack)		Prepacked		
Drive taken through (torque tube, arms or springs)			Driveline Beam		
Torque taken through (torque tube, arms or springs)			Torque Control Arms		

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

** - Aluminum

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LT5

o Axle Ratio and Tooth Combinations

(See 'Power Teams' for axle ratio usage)

Axle ratio (or overall top gear ratio)		3.45:1 (1.72)
Ring gear o.d.		216 (8.5)
No. of teeth	Pinion	11
	Ring gear	38

o Rear Axle Unit

Description		Overhung Pinion Gear
Limited slip differential (type)		Disc Clutches
Drive pinion	Type	Hypoid
	Offset	38.1 (1.50)
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Tapered Roller
Lubricant	Capacity [L (pt.)]	1.8 (3.75)
	Type recommended	GL-5 Gear Lubricant EOW-90

o Propeller Shaft – Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight Tube
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Applicable
	Manual 4-speed transmission		"
	Manual 5-speed transmission		"
	Overdrive 6-Speed		76.2 x 804.9 x 2.41 (3.0 x 31.69 x .095) Aluminum
	Automatic transmission		Not Applicable
Inter-mediate bearing	Type (plain, anti-friction)		None
	Lub. (fitting, prepack)		
Slip yoke	Type		Splined
	Number of teeth		32
	Spline o.d.		34.95mm (1.38 in.)
Universal joints	Make and mfg. no.	Front	Dana #1311
		Rear	Dana #1318
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rr. attach(u-bolt,clamp,etc)		Strap & Bolt
	Bearing: Type (plain, anti-friction)		Anti-Friction
	Bearing: Lubrication (fitting, prepack)		Prepacked
Drive taken through (torque tube, arms or springs)			Driveline Beam
Torque taken through (torque tube, arms or springs)			Torque Control Arms

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

2-DOOR 1YY07 HATCHBACK COUPE — 2-DOOR 1YY67 CONVERTIBLE

Suspension – General Including Electronic Controls

Car leveling	Std./opt./n.a.		Not Applicable
	Manual/automatic control		"
	Type (air/hydraulic)		"
	Primary/assist spring		"
	Rear only/4 wheel leveling		"
	Single/dual rate spring		"
	Single/dual ride heights		"
	Provision for jacking		(See Attached Sheet)
Shock absorber damping controls	Std./opt./n.a.		Optional
	Manual/automatic control		Manual
	Number of damping rates		18
	Type of actuation (manual/electric motor/air, etc.)		Manual Selection & Speed Control
	Sensors	Lateral acceleration	Not Applicable
		Deceleration	"
		Acceleration	"
		Road surface	"
Shock absorber (front & rear)	Type		(See Attached Sheet)
	Make		Base – Bilstein
	Piston diameter		(See Attached Sheet)
	Rod diameter		Base – 12.4mm (0.5 in.), Z51, FG3: 11.3mm (0.4 in.)

Suspension – Front

Type and description		(See Attached Sheet)
Travel*	Full jounce	92.0mm (3.62 in.)
	Full rebound	95.0mm (3.74 in.)
Spring	Type,(coil,leaf,other)&matl	Monoleaf, Filament Wound Glass – Epoxy Composite
	Insulators (type & matl)	Pivot; Teflon-Filled Nylon And Aluminum, Enclosed In Rubber.
	Size (coil design height & i.d.)	1160.0 x 110.0 x 13.22mm Standard Z51 14.3mm (45.7 x 3.9 x 0.52 in. Standard) (Z51 0.56 in.)
	Spring rate [N/mm(lb./in.)]	Base & Convertible – 90.0 Z51 – 110.0
	Rate @ wheel [N/mm(lb./in)]	Base & Convertible – 24.64 Z51 – 27.98
Stabilizer	Type (link,inkless,frmless)	Link
	Material & bar diameter	HR Stl; 26.0mm (0.9 in.) Dia. – Std. 30.0mm (1.2 in.) Dia. – Z51

Suspension – Rear

Type and description			(See Attached Sheet)
Travel*	Full jounce		All Models – 89.0mm (3.5 in.)
	Full rebound		Base & Convertible – 76.0mm (3.0 in.), Z51 – 71.0mm (2.8 in.)
Spring	Type(coil,leaf,other)&matl		Monoleaf, Filamount Wound Glass – Epoxy Composit
	Size (length x width, coil design height & i.d.)		Base – 1236 x 57.0 x 22.2mm, Z51 – 25.0mm (Base – 48.7 x 2.24 x 0.87 in.) (Z51 – 0.98 in.)
	Spring rate [N/mm (lb/in)]		Base 40.0 (233.0), Z51 – 57.8 (330.0) Conv. – 40.0 (233.0)
	Rate @ wheel [N/mm (lb/in)]		Base 26.36 (130.2), Z51 – 35.68 (173.6) Conv. – 26.36 (130.2)
	Insulators(type & material)		Dual Rubber Polyisoprene
	If leaf	No. of leaves	Monoleaf
		Shackle(comp or tens)	Tension
Stabilizer	Type(link,inkless,frmless)		Link
	Material & bar diameter		HR Steel; Base – 19.0mm (.75 in.) Solid, Z51 – 24.0mm (0.94 in.) **
Track bar (type)			None

* Define load condition:

** – Solid Painted To Protect Against Corrosion.

MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

PROVISIONS FOR JACKING:
Place Jackhead Between Locator Triangles On Rocker Flange Nearest To Sheet Being Changed. Make Sure Jack Is Under The Steel Flange.

SHOCK ABSORBER (FRONT AND REAR) TYPE
All: Monotube. Gas Charged.

PISTON DIAMETER
Front: Base - 25.0mm (0.98 in.), Z51 & FG3, 36.0mm (1.42 in.)
Rear: Base - 32.0mm (1.26 in.), Z51, & FG3, 46.0mm (1.81 in.)

SUSPENSION - FRONT
Independent SLA Forged Aluminum Upper And Lower Control Arms And Steering Knuckle, Transverse Monoleaf Spring And Steel Stabilizer, Spindle Offset.

SUSPENSION - REAR
Independent 5-Link Design With Tow And Camber Adjustment, Forged Aluminum Control Links And Knuckle, Transverse Monoleaf Spring Steel Tie Rods And Stabilizer Tubular U-Jointed Aluminum Driveshafts.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

2-DOOR HATCHBACK COUPE 1YY07 | 2-DOOR CONVERTIBLE 1YY67

Brakes – Service

Description				Hydraulic Power Brake Front And Rear Disc Base JL9 And Heavy Duty J55 Systems
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)			B.C.I.A. Standard Pad Guided Caliper
	Rear (disc or drum)			B.C.I.A. Standard Pin Guided Caliper
Valving type(prop,delay,metering,other)				Rear Proportioner Integral With Master Cylinder
Power brake (std., opt., n.a.)				Standard
Booster type(rmt,intgrl,vac.,hyd.,etc.)				Vac 240mm Single Diaph .65 sq. in.
Vacuum	Source (inline, pump, etc.)			Engine Plenum
	Reservoir (volume cu. in.)			Not Applicable
	Pump–type			"
Traction Control	Operational speed range			"
	Type engine intervention			"
Anti–lock device	Front/rear (std., opt., n.a)			Standard Front And Rear
	Manufacturer			Bosch
	Type (electronic, mech.)			Electrohydraulic
	Number sensors or circuits			4 Front Wheel Sensors
	No. anti–lock hyd. circuits			3 (1 Front And 1 Rear) Hydraulic
	Integral or add–on system			Add–On
	Yaw control (yes, no)			Yes
	Hydraulic power source			Electronic Motor Pump
Effective area [sq. cm. (sq. in.)]*				Front Linings 209; Rear Linings 119 (W/Out Grooves)
Gross Lng area [sq cm (sq in)] **(F/R)				Front 53.2 x 4 = 213; Rear 29.7 x 4 = 119 (W/Grooves)
Swept area [sq cm (sq in)]*** (F/R)				Front 660 Base/722 H.D; 589 Rear
Rotor %	Outer working diameter		F/R	F–Base/302.3mm; F–H.D./327.3mm; R/302.7mm
	Inner working diameter		F/R	F–Base/222.3mm; F–H.D./247.3mm; R/232.7mm
	Thickness		F/R	F–Base/20mm; F–H.D./28mm; R/20mm
	Matl & type (vented/sld)		F/R	Gray Iron Vented Front, HCE Iron Vented Rear
Drum	Diameter & width		F/R	Not Applicable
	Type and material		F/R	"
Wheel cylinder bore				Front Dual Piston 38mm (1.5 in.) Rear 40.5mm (1.6 in.)
Master cylinder	Bore/stroke		F/R	Front 22.2/20mm (.87/.79 in.) Rear 22.2/12mm (.87/.47 in.)
Pedal arc ratio				3.5:1
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]				W/Power Front 8625 (1250) Rear 5175 (750)
Lining clearance			F/R	Front And Rear Self Adjusting
Brake lining	Front wheel	Bonded or riveted		Integral Mold
		Rivet size		Not Applicable
		Manufacturer		Japan Brake Industries
		Lining code *****		JB CP26, FE Code
		Material		Semi–Metallic Nonasbestos
		**** Pri.or out–brd		Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.)
		Size Sec. or in–brd		Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.)
		Shoe thcknss.(no lng)		6.0mm (0.236 in.)
	Rear wheel	Bonded or riveted		Integral Mold
		Manufacturer		Japan Brake Industries
		Lining code *****		JB H3H – B33, GF code
		Material		Semi–metallic nonasbestos
		**** Pri. or out–brd		108 x 35 x 8.5mm (4.25 x 1.38 x 0.33 in.)
		Size Sec. or in–brd		94 x 35 x 8.5mm (3.70 x 1.38 x 0.33 in.)
		Shoe thcknss (no lng)		O.B. 4mm (0.157 in.), I.B. 5.5mm (0.216 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 circum.
(Disc brake: Square of Outer Working Dia. – Square of Inner Working Dia. X 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 CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type And/Or *Engine Displacement*	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P275/40ZR17 B/W - Base
	Type (bias, radial, etc.)		High Speed Steel Belted Radial Eagle 40ZR (Goodyear), Unidirectional
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa(psi)]	240 (35)
		Rear [kPa(psi)]	240 (35) metric / English
	Rev/mile–at 70 km/h(45mph)		497 (798)
Wheels	Type & material		Left-Right Aluminum Alloy Road Wheels With Specific Vent Design
	Rim (size & flange type)		17 x 9.5 Front, 17 x 9.5 Rear, Left-Right Specific
	Wheel offset		56mm (1.97 in.)
	Attachment	Type(bolt,stud)	Stud
		Circle diameter	120.7mm (4.75 in.)
		Number & size	5 Hex Nuts, One Anti-Theft; M12 x 1.5 - 6H
Spare	Tire and wheel		T155/70D17, (17 x 4 Wheel) 60 PSI 415kPa
	Storage position & location (describe)		Horizontal Under Fuel Tank

Tires And Wheels (Optional)

Tire size (load range, ply), rear	P315/35ZR17
Type (bias, radial, steel, etc.), rear	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)
Wheel (type & material), rear	Left-Right Aluminum Alloy Road Wheels W/Specific Vent Design
Rim (size, flange type and offset),rear	17 x 11 Rear, Left - Right Specific
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
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		Lever Apply, Button Release, Auto Cable Adjust
Location of control		Inner Left Door Sill
Operates on		Integral Rear Caliper Lock Plate Actuator
If separate from service brakes	Type(internal or external)	Not Applicable
	Drum diameter	"
	Lining size (length x width x thickness)	"

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Steering

Manual (std., opt., n.a.)					Not Available
Power (std., opt., n.a.)					Standard
Adjustable steering wheel/ column (tilt, telescope, other)			Type		Tilt And Telescopic
			Manufacturer		Saginaw Division
			(std., opt., n.a.)		Standard
Wheel diameter ** (W9) SAE J1100			Manual		Not Available
			Power		368mm (14.5 in.)
Turning diameter m (ft.)	Outside front		Wall to wall (l. & r.)		12.6 (41.3)
			Curb to curb (l. & r.)		12.2 (40.0)
	Inside rear		Wall to wall (l. & r.)		Not Available
			Curb to curb (l. & r.)		"
Scrub Radius *					
Manual	Gear		Type		Not Available
			Manufacturer		—
		Ratios		Gear	—
				Overall	—
	No. wheel turns (stop to stop)				—
Power	Type (hydraulic, elec., etc.)				Alloy Rack And Pinion
	Manufacturer				Saginaw Division; Lt. Wt. Transverse Compact Pump
	Gear		Type		End Take-Off
		Ratios		Gear	—
				Overall	13.0:1
	Pump (drive)				Accessory Belt Driven
	No. wheel turns (stop to stop)				1.96 Turns - Z51 Handling Package
Linkage	Type				End Take-Off
	Location (front or rear of wheels, other)				Front Of Wheel
	Tie Rods (one or two)				2
Steering axis	Inclination at camber (deg.)				8.744
	Bearings (type)	Upper			Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive
		Lower			Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive
		Thrust			Lower Ball Joint
Steering spindle/knuckle & joint type					Upper And Lower Ball Joints; Anti-Corrosive
Wheel spindle/ hub	Diameter	Inner bearing			51mm (2.0 in.)
		Outer bearing			51mm (2.0 in.)
	Thread (size)				Not Available
	Bearing (type)				Unit Hub-Bearing Assembly With Double Row Balls; Anti-Corrosive

*The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.
** See Page 22.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) ____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	6.0 (+/-) 0.5
		Camber (deg.)	0.8 (+/-) 0.5
		Toe-in [outside track-mm (in.)]	0.0 (+/-) .10
	Service reset*	Caster (deg.)	---
		Camber (deg.)	---
		Toe-in (deg.)	---
	Periodic M.V. inspection	Caster (deg.)	---
		Camber (deg.)	---
		Toe-in (deg.)	---
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	0 (+/-) 0.5
		Toe-in [outside track-mm (in.)]	0.0 (+/-) .1
	Service reset*	Camber (deg.)	---
		Toe-in (deg.)	---
	Periodic M.V. inspection	Camber (deg.)	---
		Toe-in (deg.)	---

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

Electrical – Instruments and Equipment *

Speedometer	Type (analog, digital, std., opt.)	Electronic Liquid Crystal-Digital
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		Not Available
Charge indicator	Type	Analog Display
	Warning device (light, audible)	Standard - Warning Indicator And Lamp
Temperature indicator	Type	Analog Display
	Warning device	Standard - Warning Indicator And Lamp
Oil pressure indicator	Type	Analog Display
	Warning device	Standard - Warning Indicator And Lamp
Fuel indicator	Type	Electric Liquid Crystal-Analog
	Warning device	Standard-Warning Indicator Signals - Reserve
Windshield wiper	Type (standard)	Intermittent Control System
	Type (optional)	Not Available
	Blade length	508mm (20 in.)
	Swept area [sq cm (sq in)]	6920 (1072.9)
Windshield washer	Type (standard)	Push Button - Manual
	Type (optional)	Not Available
	Fluid level indicator	Not Available
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Available
Horn	Type	Vibrator
	Number used	2
Other		Tell-Tale Lights Warning Of Unfastened Seat Belts (FASTEN BELTS), Low Brake Line Pressure Or Parking Brake On (BRAKE), Anti-Theft Alert (SECURITY), Electronic Control Module Malfunction (CHECK ENGINE), Door Ajar (DOOR AJAR), (HATCH AJAR), (ABS ACTIVE), Select Ride Control (SERVICE RIDE CONTROL), Low Tire Pressure Warning System (Low Tire Pressure) (Service LTPWS), Antilock Brake System Check (SERVICE ABS), Low Coolant (LOW COOLANT), Inflatable Restraint (INFL REST), (CHANGE OIL), (CHECK GAUGES), (LOW OIL), (BATTERY), Drivers Information System Mileage Range, Instant And Average MPG, And Trip Odometer Also Included As Standard Equipment.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525
	Voltage	12
	Amps at 0 deg F cold cmk	525
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	54
	Location	Engine Compartment Directly Behind Left Wheel Opening
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps
	Ratio (alt. crank/rev.)	3.09
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Unit; Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Delco Remy
	Current drain 0 deg F	350 Amps
	Power rating [kw (hp)]	1.6 (2.1)
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Rear

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		--
	Other (specify)		*High Energy Ignition (HEI)*
Coil	Manufacturer		Delco Remy
	Model		Integral With Distributor
	Current	Engine stopped-A	--
		Engine idling - A	--
Spark plug	Manufacturer		AC
	Model		FR5LS
	Thread (mm)		M14 x 1.25
	Tightening torque [Newton meters (lb. ft.)]		24-30 (18-22)
	Gap		0.89 mm (0.035 in.)
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		

Electrical – Suppression

Locations & type	Internal Alternator Capacitor, Non-Metallic High-Tension Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75-695 Standard
	Voltage	12
	Amps at 0 deg F cold crnk	695
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	54
	Location	Engine Compartment Directly Behind Left Wheel Opening
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps 50/120
	Ratio (alt. crank/rev.)	2.59
	Output at idle (rpm, park)	55 Amps
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Unit; Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Nippon Denso
	Current drain -20 deg F	425 Amps
	Power rating [kw (hp)]	1.6 (2.1)
Motor drive	Engagement type	Coaxial Solenoid
	Pinion engages from (front, rear)	Front

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		--
	Other (specify)		Direct Ignition System
Coil	Manufacturer		Delco Remy
	Model		
	Current	Engine stopped-A	--
		Engine idling - A	--
Spark plug	Manufacturer		AC
	Model		FR2LS
	Thread (mm)		Not Available
	Tightening torque [Newton meters (lb. ft.)]		"
	Gap		"
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		Direct Ignition

Electrical – Suppression

Locations & type	Internal Alternator Capacitor, Non-Metallic High-Tension Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Body

Structure	Integral Perimeter Frame-Birdcage Forms Strong Unitized Body Structure. Aerodynamically Shaped Body With Deeply Angled Windshield (64 deg.), All Body Panels SMC Reinforced Composite With Molded-In Coating. Single Lift Off Roof Panel Effective Pass, Compartment Insulation Tinted Glass All Around. "Unibase" Paint Process, Final Clear Coat Paint Finish.
Bumper System Front - Rear	Front - Full-Width Honeycomb Energy Absorber Backed Up By An Impact Bar Of Strong Continuous Glass Fiber Plastic. Body Color, Glass-Reinforced Rim Fascia, Rear-Similar Honeycomb Design.
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)		High Solids Base Coat Enamel With High Solids Clear Coat
Hood	Material & mass	Sheet Molded Compound With Steel Reinforcements, 33.6 kg. (74.1 lbs.)
	Hinge location (front, rear)	Front
	Type (counterbalance, prop)	Hinged Clamshell Hood, W/Upper Wheelhouse Attached W/Dual Gas Struts
	Release control (int., ext.)	Internal
Trunk lid	Material & mass	Not Applicable
	Type (counterbalance, other)	"
	Internal release control (elec., mech., n.a.)	"
Hatch-back lid	Material & mass	Tempered, Tinted Safety Glass 19.05 kg. (42.0 lbs.)
	Type (counterbalance, other)	Dual Gas Struts
	Internal release control elec., mech., n.a.)	Electric Release, Standard (Each Door And Console Glove Box)
Tailgate	Material & mass	Not Applicable
	Type (drop, lift, door)	"
	Internal release control (elec., mech., n.a.)	"
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	"
Window regulator type (cable, tape, flex drive, etc.)	Front	Drive
	Rear	None
Seat cushion type (e.g., 60/40, bucket, bench wire, foam, etc.)	Front	Bucket Seat, Full Cloth Trim W/Wool Pad Comfort Liner @
	Rear	None
	3rd seat	"
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket Seat, Full Cloth Trim W/Wood Pad Comfort Liner @
	Rear	None
	3rd seat	"

* - Gives Easy Access To Engine And Chassis Components; SMC Reinforced Composite.

@ - Polypropylene Reinforced Composite Frame For Seat Cushion And Backrest.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type

2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.) Standard/ optional	First seat	3-Point Active Lap & Shoulder Belt		3-Point Active Lap & Shoulder Belt
		Second seat			
		Third seat			
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt) Standard/ optional	First seat	Air Bag Standard		
		Second seat			
		Third seat			

Glass	SAE Ref No		
Windshield glass exposed surface area [sq. cm. (sq. in.)]	S1	8710.0 (1350.0)	
Side glass exposed surface area [sq. cm. (sq. in.)] - total 2- sides	S2	4007.2 (621.1)	
Backlight glass exposed surface area [sq. cm. (sq. in.)]	S3	6205.0 (961.8)	2554.8 (396.0)
Total glass exposed surface area [sq. cm. (sq. in.)]	S4	18922.2 (2932.9)	15272.0 (2367.1)
Windshield glass (type)		Curved - Laminated Plate - Tinted	
Side glass (type)		Curved - Tempered Plate - Tinted	
Backlight glass (type)		Curved - Tempered Plate - Tinted (Hatchback)	Vinyl

Headlamps

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

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	All-Welded Steel Body-Frame Construction, 100% Galvanized Bolt-On Front Crossmember To Allow Bottom Loaded Engine

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

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

Air conditioning (manual, auto, temp control)		Standard, Four Season Manual Control
Clock (digital, analog)		Standard, Digital Read-Out With All Radios
Compass / thermometer		Not Available
Console (floor, overhead)		Standard, Floor
Defroster, elec. backlight		Standard
Electronic	Diagnostic monitor (integrated, individual)	Standard - ALCL (Assembly Line Communications Link); Integrated
	Instrument cluster (list instruments)	Speedo, Tach, Oil & Coolant Temps, Oil Press, Volts, Fuel
	Keyless entry	Not Available
	Tripminder (avg. spd. fuel)	Range, Average And Instant MPG
	Voice alert (list items)	Not Available LCD And Analog Instrumentation Standard
	Other	
Fuel door lock (remote, key, electric)		Not Available
Lamps	Auto head on/off delay, dimming	Not Available
	Cornering	Front And Rear, Standard
	Courtesy (map, reading)	Standard - One Lamp In Each Door Panel Mounted On I/S R/V Mirror
	Door lock, ignition	Standard - Inside Door Lock-Door Open, Delay When Closed
	Engine compartment	Standard
	Fog	Standard
	Glove compartment	Standard - In Console & I/P
	Trunk	Standard - Two Lamps Mounted In 'B' Pillars Back Of Seat
	Illuminated entry system (list lamps, activation)	Not Applicable
	Other	—
Mirrors	Day / night (auto. man.)	Standard, Manual
	L.H. (remote, pwr., heated)	Power Standard, Heated
	R.H.(convex, rmt, pwr, htd)	Power Standard, Heated
	Visor vanity (RH/LH illum.)	RH Standard/LH Optional
Navigation system (describe)		None
Prkg. brake-auto release (warn. light)		Manual Release, Tell-Tale - Standard

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Engine Description	2-DOOR HATCHBACK COUPE 1YY07 / 2-DOOR CONVERTIBLE 1YY67
Engine Code	

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

Power equipment	Deck lid(release, pull down)		
	Door locks (manual, auto., describe system)		Standard Deck Lid Hatch, Standard Door Locks
	Seats	2 – 4 – 6 way, etc.	6-Way Optional
		Reclining(R.H., L.H.)	Manual Standard, Power Optional
		Memory (R.H., L.H., preset, recline)	Not Available
		Lumbar, hip, thigh, support	Power Optional
		Heated (R.H., L.H., other)	Not Available
	Side windows		Standard
	Vent windows		Not Available
	Rear windows		Standard - Electric Hatch Release (3 Remote Location)
	Convertible deck lid		Standard Release
Radio systems	Antenna (location, whip, w/shield, power)		Rear Power Antenna
	Stan.		AM/FM Stereo Cassette
	Opt.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo Cassette/Bose AM/FM Stereo Cassette/Compact Disc/Bose
	Speaker (number, location)		Standard - 2 Front, 2 Rear Bose - 1 Each Door, 2 Rear
Roof: open air or fixed (flip-up, sliding, "T")			Single, Full Width Lift-Off Roof Panel Conv. Fldg. Top
Speed control device			Standard - Eelectronic Speed & Cruise Control W/Resume Feature
Speed warn. dev. (light, buzzer, etc.)			Not Available
Tachometer (rpm)			6,000
Telephone system (describe)			Not Available
Theft deterrent system			"VATS" 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 (Doors And Hatch).

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 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.

Body Type		2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67
o Width	**SAE Ref. No.**		
Tread (front)	W101	1513 (59.6)	
Tread (rear)	W102	1534 (60.4)	
Vehicle width	W103	1804 (71.0)	
Body width at Sg RP (front)	W117	1752 (69.0)	
Vehicle width (front doors open)	W120	3706 (145.9)	
Vehicle width (rear doors open)	W121	—	
Tumble-home (deg.)	W122	36.9	
Outside mirror width	W410		
o Length			
Wheelbase	L101	2444 (96.2)	
Vehicle length	L103	4483 (176.5)	
Overhang (front)	L104	1030 (40.5)	
Overhang (rear)	L105	1009 (39.7)	
Upper structure length	L123	2309 (90.9)	
Rear wheel C/L 'X' coordinate	L127	1886 (74.2)	
o Height **			
Passenger distribution (front/rear)	PD1,2,3	**	
Trunk/cargo load		**	
Vehicle height	H101	1186 (46.7)	1179 (46.4)
Cowl point to ground	H114	845 (33.4)	
Deck point to ground	H138		
Rocker panel-front to ground	H112	175 (6.9)	
Rocker panel-rear to ground	H111	175 (6.9)	
Windshield slope angle (deg.)	H122	64.7	
Backlight slope angle (deg.)	H121	72.5	
Ground Clearance **			
Front bumper to ground	H102	124 (4.9)	
Rear bumper to ground	H104	330 (13.0)	
Bumper to ground [front at curb mass (wt.)]	H103	130 (5.1)	
Bumper to ground [rear at curb mass (wt.)]	H105	353 (13.9)	
Angle of approach (degrees)	H106	10.6	
Angle of departure (degrees)	H107	20.2	
Ramp breakover angle (degrees)	H147	12.3	
Axle differential to ground (front/rear)	H153	172 (6.8)	
Min. running ground clearance	H156	120 (4.7)	
Location of min. run. grd. clear.		Catalytic Converter	

** 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 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)
Vehicle Dimensions

See Key Sheets for Definitions

Body Type		2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67
o Front Compartment	**SAE Ref. No.**		
SgRP front, "X" coordinate	L31	3150 (124.0)	
Effective head room	H61	926.5 (36.5)	927 (36.5)
Max. eff. leg room (accelerator)	L34	1083 (42.6)	
SgRP to heel point	H30	188 (7.4)	
SgRP to heel point	L53	898 (35.4)	
Back angle (deg.)	L40	28.0	
Hip angle (deg.)	L42	98.0	
Knee angle (deg.)	L44	130.0	
Foot angle (deg.)	L46	87.0	
Design H-point front travel	L17	165.0 (6.5)	
Normal driving & riding seat track trvl.	L23	146.5 (5.8)	
Shoulder room	W3	1366.0 (53.8)	
Hip room	W5	1253 (49.3)	
*** Upper body opening to ground	H50	1103.5 (43.4)	
Steering wheel maximum diameter*	W9	380.0 (15.0)	
Steering wheel angle (deg.)	H18	18.3	
Accel. heel pt. to steer. whl. cntr	L11		
Accel. heel pt. to steer. whl. cntr	H17		
Undepressed floor covering thickness	H67	24 (0.9)	

Front Compartment Int. Dim. Are Measured With The Seating Ref. Pt. (SgRP) mm Forward And mm Upward of Rearmost Position.

o Rear Compartment (NOT APPLICABLE)		
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 (deg.)	L41	
Hip angle (deg.)	L43	
Knee angle (deg.)	L45	
Foot angle (deg.)	L47	
Depressed floor covering thickness	H73	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	--	186.9 (6.6)
*** Liftover height	H195	902 (35.5)	

Interior Volumes (EPA Classification)

Vehicle class		Mini-Compact
Interior volume index (cu. ft.)**		Not Available, On Two Passenger Vehicles
Trunk / cargo index (cu. ft.)		--

* See page 14.
** Includes passenger and trunk / cargo index – see definition page 32.
*** EPA Loaded Vehicle Weight, Loading Conditions
All Linear Dimensions Are In Millimeters (Inches)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)
Vehicle Dimensions

See Key Sheets for Definitions

Body Type 2-DOOR HATCHBACK COUPE 1YY07

Station Wagon – Third Seat

SAE Ref. No.	(NOT APPLICABLE)
Seat facing direction	SD1	
SgRP couple distance	L65	
Shoulder room	W35	
Hip Room	W36	
Effective leg room	L36	
Effective head room	H36	
SgRP to heel point	H37	
Knee clearance	L37	
Back angle	L38	
Hip angle	L39	
Knee angle	L90	
Foot angle	L91	

Station Wagon – 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 [cu. m.(cu.ft.)]	V2	
Hidden cargo vol. index [cu.m.(cu.ft.)]	V4	
Cargo volume index-rear of 2-seat	V10	

Hatchback – Cargo Space

Cargo length at front seatback height	L208	792 (31.2)
Cargo length at floor (front)	L209	838 (33.0)
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	454 (17.9)
Second seatback to load floor height	H198	
Cargo volume index [cu. m. (cu. ft.)]	V3	508L (17.9)
Hidden cargo vol. index [cu.m.(cu.ft.)]	V4	—
Cargo volume index-rear of 2-seat	V11	—

*** EPA Loaded Vehicle Weight, Loading Conditions**

All Linear Dimensions Are in Millimeters (Inches).

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Vehicle Fiducial Marks

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 The 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).
Fiducial Mark Number		
Front	W21*	552 (21.7)
	L54*	831 (32.7)*
	H81*	-181 (-7.1)#
	H161*	178 (7.0)
**	H163*	120 (4.7)
Rear	W22*	296 (11.7)
	L55*	2714 (106.9)*
	H82*	46 (1.8)#
	H162*	367 (14.4)
**	H164*	345 (13.6)
		* Vertical Base Grid 2000mm Line # Horizontal Base Grid 500mm Line

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

** EPA Loaded Vehicle Weight, Loading Conditions.

All linear dimensions are in millimeters (inches).

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

Code Model	Vehicle Mass (weight)							ETWC** Code
	CURB MASS, kg. (lb.)*			% PASS MASS DISTRIBUTION				
				Pass in Front		Pass in Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
1YY07 2-Door Hatchback Coupe (L98 & MD8)	744.4 (1641)	732.2 (1614)	1476.6 (3255)					3625
1YY67 2-Door Convertible (L98 & MD8)	755.2 (1665)	732.0 (1636)	1487 (3301)					3625
1YZ07 2-Door Hatchback Coupe (ZR1) (LT5 & ML9)	793.8 (1750)	784.2 (1729)	1578.0 (3479)				Manual Only	3750

Curb Mass - The calculated mass of a vehicle with standard equipment only as designed with the additional load of oil, lubes, coolants, and fuel all filled to capacity.

Shipping Mass - Same as base curb weight, except 3 gallons of gasoline.

* 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.

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) Calculation (Kg. (lbs.)

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

48 (106)

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

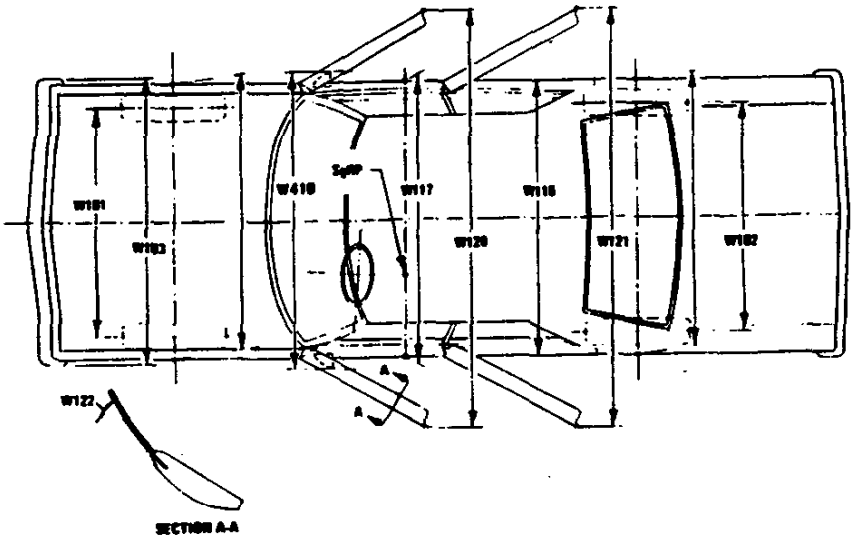
Optional Equipment Differential Mass (weight)*

Code	Equipment	MASS, kg. (lb.) Front	Rear	Total	Remarks Restrictions, Requirements
AQ9	Custom Adjustable Seats	2.8 (6.2)	3.3 (7.39)	6.1 (13.5)	Power Adjust For Backrest Lateral Restraints, Lumbar Support And Back Angle, Special Cloth Trim.
B16	Leather Seat Trim	.6 (1.3)	1.0 (2.2)	1.6 (3.5)	As Required (Special Contour Bucket Seat).
CC3	Removable Plastic Roof Panel	-.4 (-0.9)	-1.0 (-2.2)	-1.4 (-3.1)	Acrylic Plastic. Lighter, Blue Tinted For Glare And Sun Load Control, Coated For Scratch Resistance. Not Avail. On Convt.
C68	Automatic Air Conditioning	1.0 2.205	—	1.0 2.205	Automatic Temperature Control
ML9	Manual Transmission	1.5 (3.3)	1.3 (2.9)	2.8 (6.2)	
	Delco/Bose Premium Audio System	1.5 (3.3)	2.9 (6.4)	4.4 (9.7)	Includes Specific AM/FM Stereo Radio With Cassette Player, Bose Power Amplified, Direct Reflecting Speakers (One In Each Door And At Each Side Of Luggage Area). Also Features Dolby sound, Dynamic Noise Reduction And Automatic Suppression System.
V08	Heavy Duty Cooling Required Except Base	5.8 (12.8)	-1.2 (-2.6)	4.6 (10.2)	Includes HD Radiator, Aux. Boost Fan, And Oil Cooler.
	Electric Defogger System (Hatch And Outside Rear View Mirrors)	.2 (0.4)	.2 (0.4)	.4 (0.8)	Mirrors Only On Convertible.
Z51	Performance Handling Package, Consists Of FE7, FG3, GZ0, V01, KC4, B4P	1.9 (4.2)	2.4 (5.3)	4.3 (9.5)	Includes Left-Right 17 x 9-1/2 Wheels, Fast Steering HD Cooling.

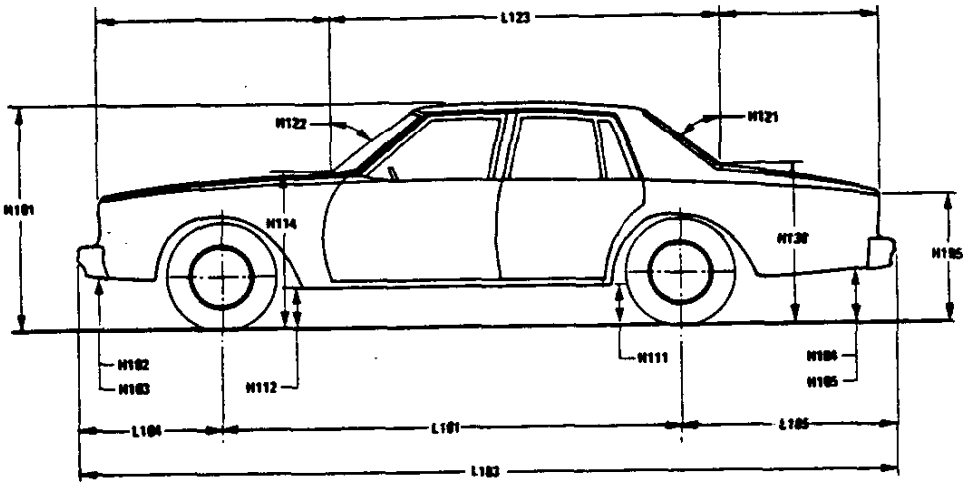
* Also see Engine - General Section for dressed engine mass (weight).

Exterior Vehicle And Body Dimensions – Key Sheet

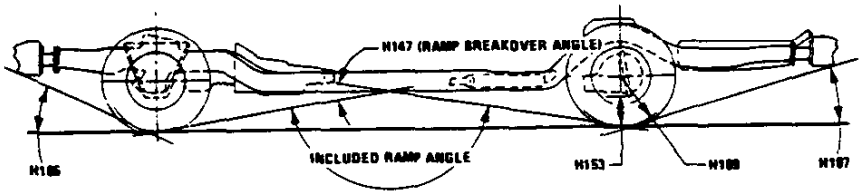
Exterior Width



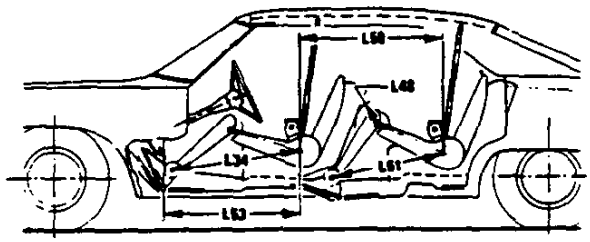
Exterior Length & Height

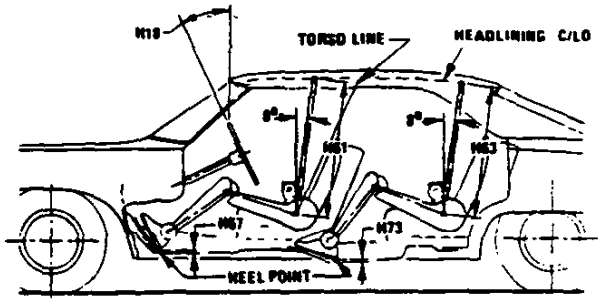


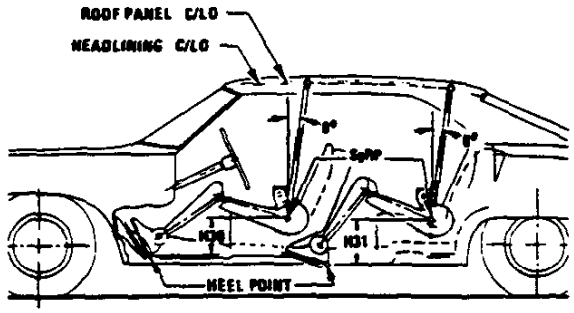
Exterior Ground Clearance

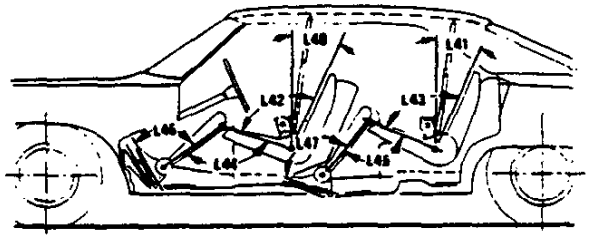


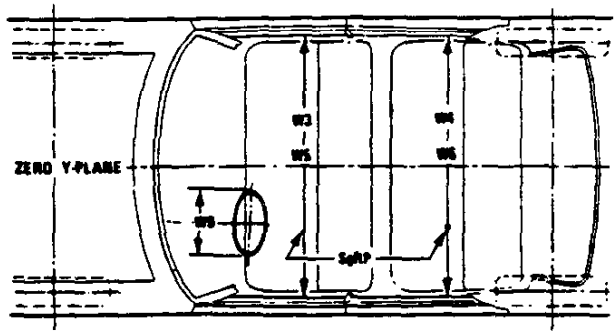
Interior Vehicle And Body Dimensions – Key Sheet

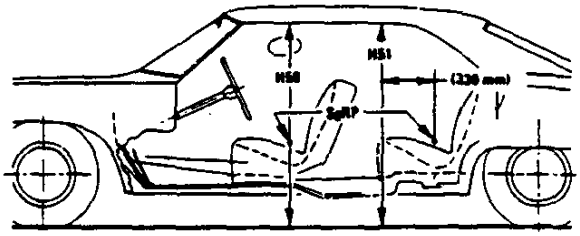






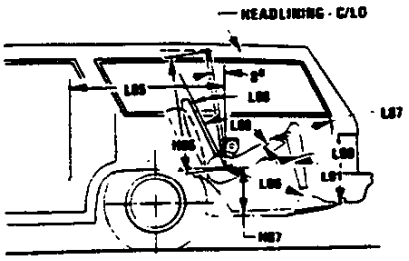


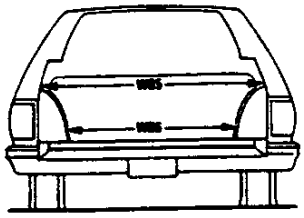




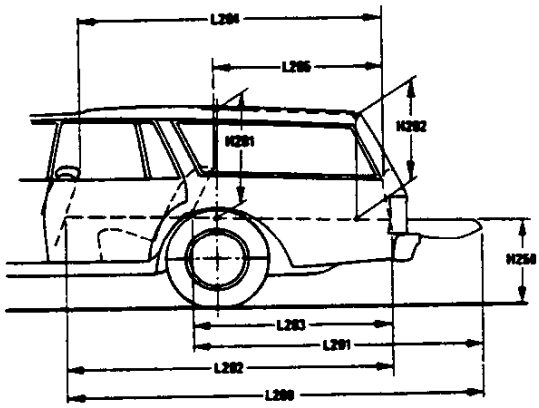
Interior Vehicle And Body Dimensions – Key Sheet

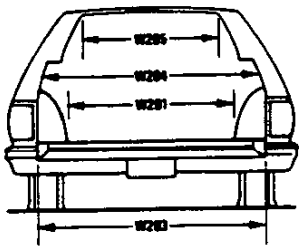
Third Seat



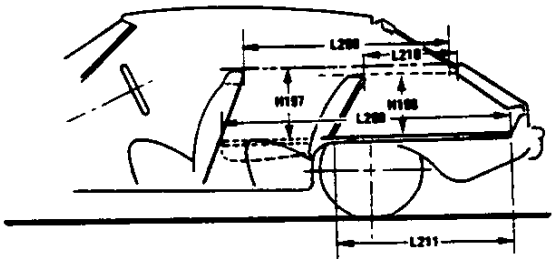


Cargo Space





Station Wagon



Hatchback

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 front 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 centerlines. 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 OVERHAND – FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks 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 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.

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.
W82 "Z" coordinate.
H162 Height "Z" coordinate to ground at curb weight.
H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

L11 ACCELERATOR HEEL 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 undepressed 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.

L-40 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.

L-42 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 measured 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 a vertical to the surface plane of the steering wheel.

H30 SgRP – FRONT TO HEEL. The dimension measured vertically 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 EFFECITVE HEAD ROOM – FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP – front to the headlining plus 102 mm (4.0in.).

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

L-41 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.

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 Volume Index is listed for each body style except two seaters. The Interior Volume Index estiamtes 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 Interior Volume Index is an estimate of the size of the passenger compartment.

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 – 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 8 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 – 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 to the rearmost point on 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 at the 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.

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.

V2 STATION WAGON

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = ft^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{ (cubic meter)}$$

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

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.

V5 TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:

$$\frac{L506 \times W505 \times H503}{1728} = ft^3$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = ft^3$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$$

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.

V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = ft^3$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = m^3 \text{ (cubic meter)}$$

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).

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.

L209 CARGO LENGTH AT FLOOR – FRONT – HATCHBACK. 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.

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT – HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed 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.

L211 CARGO LENGTH AT FLOOR – SECOND HATCHBACK. 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.

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.

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback to the undepressed floor covering.

V3 HATCHBACK.
Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = ft^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{ (cubic meter)}$$

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.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = ft^3$$

Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = m^3 \text{ (cubic meter)}$$

MVMA Specifications

METRIC (U.S. Customary)

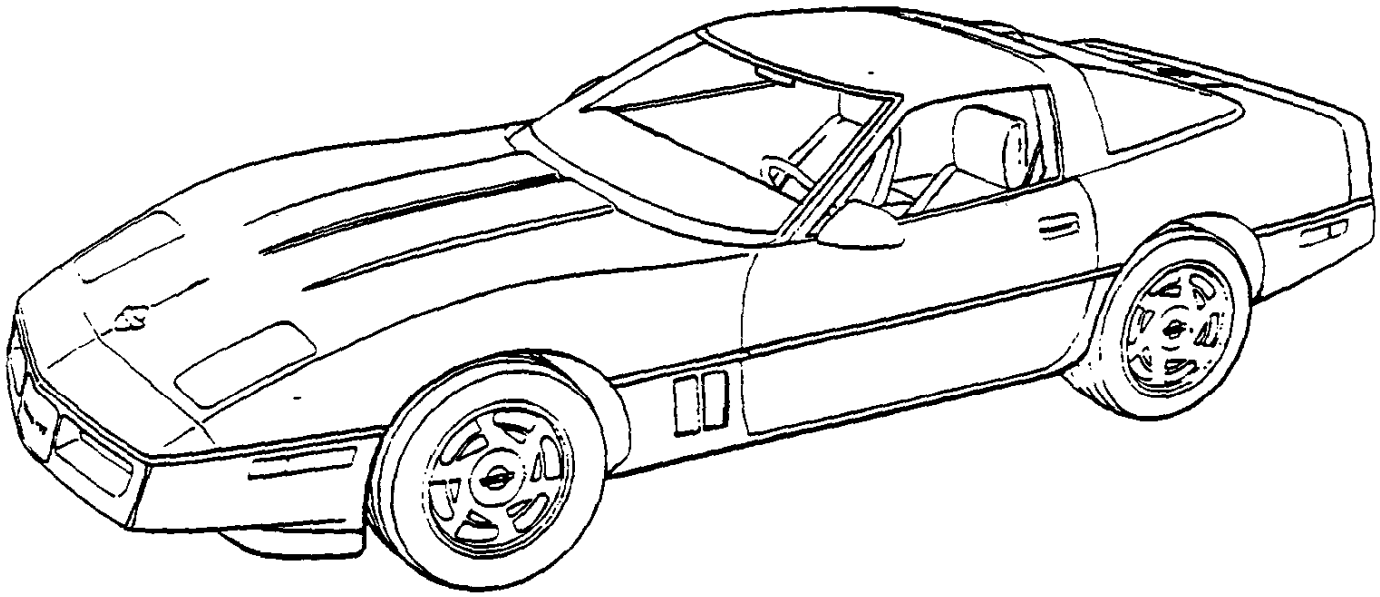
Index

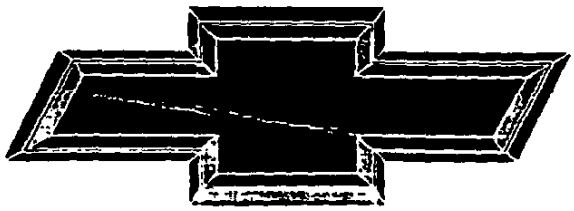
CHEVROLET

1990

CORVETTE

SPECIFICATIONS





GENUINE CHEVROLET

1990 CORVETTE

Production: 16,016 coupe, 7,630 convertible, 23,646 total

1990 NUMBERS

Vehicle: 1G1YY2380L5100001 thru 1G1YY2380L5120597
1G1YZ23J6L5800001 thru 1G1YZ23J6L5803049 (ZR1)
- For convertibles, sixth digit is a 3.
- Ninth digit is a check code and varies.

Suffix: ZSA: 350ci, 245hp, 250hp, at
ZSB: 350ci, 245hp, 250hp, mt, oc
ZSC: 350ci, 245hp, 250hp, at, oc
ZSD: 350ci, 375hp, ac
ZSH: 350ci, 375hp, ea

- For Callaway twin-turbo, Chevrolet engine coding was replaced as follows: First two digits for year, next three digits for Callaway sequence, last four digits to match last four digits of vehicle identification number.

Block: 14093638: All

Head: 10088113: All

Abbreviations: ac=air conditioning, at=automatic transmission, ci=cubic inch, ea=electronic air conditioning control, hp=horsepower, mt=manual transmission, oc=engine oil cooler.

1990 FACTS

- The ZR-1 (RPO ZR1) arrived as a 1990 model after much anticipation. At the heart of the ZR-1 was the 375hp LT5 engine. It was designed with the same V-8 configuration and 4.4-inch bore spacing as the standard L98 Corvette engine, but was an otherwise new design with four overhead camshafts and 32 valves. LT5 engines were manufactured and assembled by Mercury Marine in Stillwater, Oklahoma, then shipped to the Corvette Bowling Green assembly plant for ZR-1 vehicle assembly.
- For a limited time during 1990, dealers could order Corvettes destined for the new World Challenge race series. Merchandising code R9G triggered deviations from normal build, such as heavy-duty springs with FX3. Owners could buy race engines from Chevrolet or build their own, and all race modifications were the owner's responsibility. Twenty-three 1990 R9G Corvettes were built.
- An air intake speed density control system, camshaft revision, and compression ratio increase added 5hp to base-engines, up from 240hp to 245hp (except coupes with 3.07:1 or 3.33:1 axle ratios which increased from 245hp to 250hp because of their less-restrictive exhaust systems).
- 1990 Corvettes had improved ABS and improved yaw control.
- An engine oil life monitor calculated useful oil life based on engine temperatures and revolutions. An instrument panel display alerted the driver when an oil change was recommended.
- The RPO V01 radiator and B4P boost fan were not optional in 1990, both made unnecessary by 1990's more efficient, sloped-back radiator design.
- Two premium 200-watt Delco-Bose stereo systems were available, the top unit featuring a compact disc player. To discourage theft, the CD required electronic security code input after battery disconnect.
- The instrument panel for 1990 was redesigned as a "hybrid," combining a digital speedometer with analog tachometer and secondary gauges. A supplemental inflatable restraint system (SIR) with airbag was added to the driver side, a glovebox to the passenger side.
- The "ABS Active" light was removed from the driver information center.
- Seat designs were the same for 1990 as the previous year, except the backs would latch in the forward position.
- Chevrolet service departments returned LT5 engines to Mercury Marine for certain repairs. Customers had the choice of a replacement engine, or return of their original engine if repairable.

1990 OPTIONS

RPO #	DESCRIPTION	QTY	RETAIL $
1YY07	Base Corvette Sport Coupe	16,016	$31,979.00
1YY67	Base Corvette Convertible	7,630	37,264.00
AC1	Power Passenger Seat	20,419	270.00
AC3	Power Driver Seat	23,109	270.00
AQ9	Sport Seats, leather	11,457	1,050.00
AR9	Base Seats, leather	11,649	425.00
B2K	Callaway Twin-Turbo (not GM installed)	58	26,895.00
CC2	Auxiliary Hardtop (for convertible)	2,371	1,995.00
C2L	Dual Removable Roof Panels (for coupe)	6,422	915.00
24S	Removable Roof Panel, blue tint (coupe)	7,852	615.00
64S	Removable Roof Panel, bronze tint (coupe)	4,340	615.00
C68	Electronic Air Conditioning Control	22,497	180.00
FX3	Selective Ride and Handling, electronic	7,576	1,695.00
G92	Performance Axle Ratio	9,362	22.00
K05	Engine Block Heater	1,585	20.00
KC4	Engine Oil Cooler	16,220	110.00
MN6	6-Speed Manual Transmission	8,100	0.00
NN5	California Emission Requirements	4,035	100.00
UJ6	Low Tire Pressure Warning Indicator	8,432	325.00
UU8	Stereo System, Delco-Bose	6,401	823.00
U1F	Stereo System with CD, Delco-Bose	15,716	1,219.00
V56	Luggage Rack (for convertible)	1,284	140.00
Z51	Performance Handling Package (for coupe)	5,446	460.00
ZR1	Special Performance Package	3,049	27,016.00

• A 350ci, 245/250hp engine, 4-speed automatic transmission, removable body-color roof panel (coupe) or soft top (convertible), and cloth seats were included in the base price.
• RPO Z51 included KC4, heavy-duty suspension and brakes. Available with coupe and manual transmission only.
• RPO ZR1 included unique bodywork (doors, rear quarters, rockers, rear facia, and rear upper panel) to accept Goodyear Z-rated P315/35ZR17 tires on 11-inch wide rear rims. RPOs AC1, AC3, AQ9, FX3, LT5 (32-valve engine, exclusive to the ZR-1), U1F, UJ6 and a specially laminated "solar" windshield were included. RPO MN6 manual transmission was required. Available in coupe body style only.
• RPO K05 engine block heater was not available with RPO ZR1.

1990 COLORS

CODE	EXTERIOR	QTY	SOFT TOP	INTERIORS
10	White	4,872	Bk-S-W	B-Bk-G-R-S
25	Steel Blue Metallic	813	Bk-W	B-Bk
41	Black	4,759	Bk-W	B-Bk-G-R
42	Turquoise Metallic	589	Bk-S	Bk-S
53	Competition Yellow	278	Bk-S-W	Bk-G-S
68	Dark Red Metallic	2,353	Bk-S-W	Bk-S
80	Quasar Blue Metallic	474	Bk-S	Bk-S
81	Bright Red	6,956	Bk-S-W	Bk-G-R-S
91	Polo Green Metallic	1,674	Bk-S	Bk-S
96	Charcoal Metallic	878	Bk-S	Bk-G

• Only interior-exterior combinations shown were considered acceptable.
• Restrictions applied to some soft top and interior color combinations.
• Codes 42, 53 and 80 were not available early.
• Code 53 Competition Yellow exterior was discontinued 5-11-90 due to pigment photosensitivity which caused the paint to temporarily darken after sunlight exposure.
• Interior colors sold in 1990 were 10,076 black, 6,467 red, 3,565 saddle, 2,802 gray, 736 blue.

Interior Codes: 19C=Bk/C, 193=Bk/L, 223=B/L, 60C=S/C, 603=S/L, 733=R/L, 903=G/L.

Abbreviations: B=Blue, Bk=Black, C=Cloth, G=Gray, L=Leather, R=Red, S=Saddle, W=White.

The Corvette Black Book

1953-1993

October 1992

Published by

Michael Bruce Associates, Inc.
Michael Antonick, President
Post Office Box 396
Powell, Ohio 43065

CONTENTS

Michael Bruce Associates, Inc. acknowledges with appreciation the following enthusiasts who contributed their expertise to this and previous editions of the *Corvette Black Book*: Noland Adams, Dan Aldridge, John Amgwert, Pat Baker, Jane Barthelme, Michele Boling, Kent Brooks, Barry Brown, David Burroughs, Steve Dangremond, Dr. M. F. Dobbins, Bob Eckles, the late Sam Folz, John Hibbert, Mike Hunt, Alan Kaplan, Paul Kitchen, Gary Konner, Ralph Kramer and staff, Jim Krughoff, Gary Lisk, Bill Locke, Bob Lojewski, Bob McDorman, Chip Miller, Bill Mock, Brian Pearce, John Poloney, Bill Rhodes, Jeffrey Smith, Mark & Dixie Smith, Lou Vitalle, Jerry Wadsworth, Jerry Welchers and Don Williams. Thanks also to Callaway Engineering, to Mercury-Marine, and to the Chevrolet Motor Division of General Motors Corporation.

Cover: Photo and design by Mike Antonick. 1963 Corvette owned by Bill Munzer; restored by Bill Munzer and Don Williams.

Printed and bound in the United States of America.

ISBN: 0-933534-35-3

BOOK TRADE DISTRIBUTION BY:
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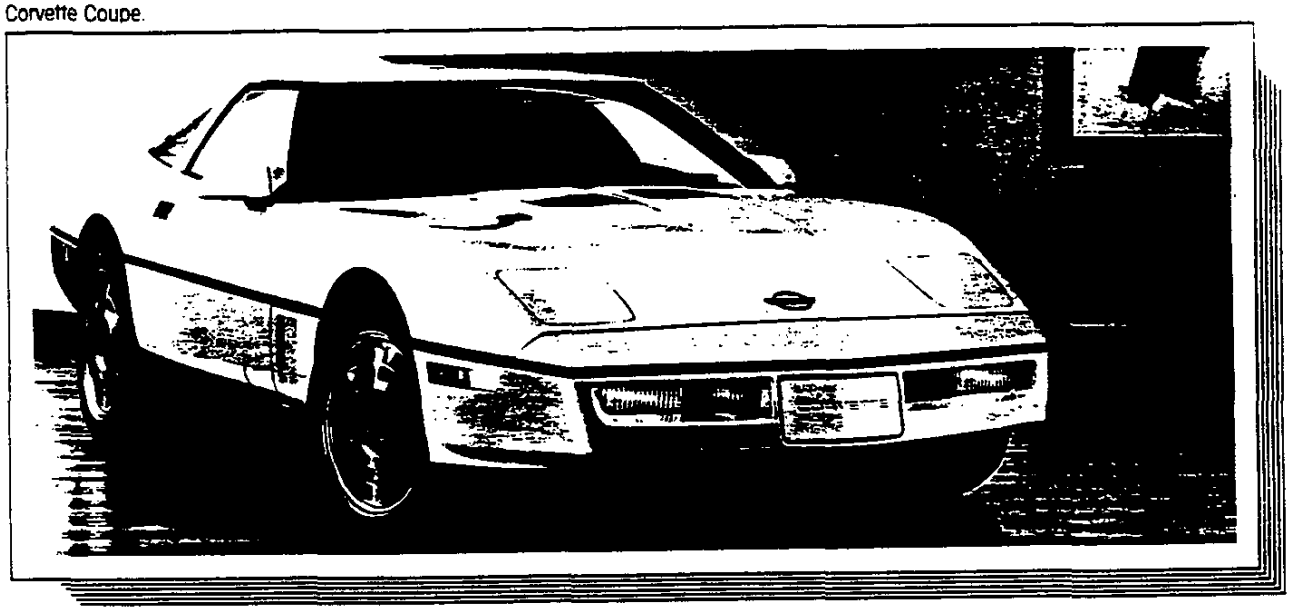
CORVETTE

CORVETTE	MODEL NUMBER	PASSENGER CAPACITY
2-Door Coupe	1YY07	All Models
2-Door Convertible	1YY67	

Corvette Coupe.



HIGHLIGHTS

- Interior treatment is entirely new for '90 and includes newly designed instrument panel, console, cluster door trim and steering wheel.
- A Supplemental Inflatable Restraint (SIR) System is standard on the driver's side.
- Engine oil cooler is now standard.
- New lighter weight 17" x 9½" wheels
- Optional Delco®/Bose premium sound system with digital compact disc and cassette player available.
- New base cooling system negates need for a heavy-duty cooling option.
- One new exterior color, Polo Green Metallic, is introduced.
- Driver's side illuminated visor vanity mirror.
- Electronic Selective Ride and Handling option (RPO FX3) available (requires Z51 Performance Handling Package).
- A Low Oil Sensor signals "Low Oil" on the Driver Information Panel if level drops significantly.
- An Engine Oil Life Monitor signals "Change Engine Oil" when the on-board computer calculates the need for fresh oil

EQUIPMENT AVAILABILITY

	Coupe	Conv.
Power-operated retractable halogen headlamps	S	S
Halogen fog lamps	S	S
Dual electrically adjusted and heated mirrors	S	S
Full-glass rear hatch with roller cargo cover	S	NA
One-piece removable fiberglass roof panel	S	NA
Full-folding roof	NA	S
PASS-Key® anti-theft system	S	S
Intermittent wiper system	S	S
Electronic speed control with Resume Speed	S	S
Air conditioning	S	S
Heated rear window	S	NA
Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)	S	S
AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna	S	S
Power door locks	S	S
Power windows	S	S
Cloth bucket seats with lateral support and back angle adjustment plus wool-pad comfort liner	S	S
Outside engine air induction	S	S
P275/40ZR-17 Eagle radial tires	S	S
17" x 9½" cast aluminum wheels	S	S
Power 4-wheel disc brakes	S	S
Bosch ABS II anti-lock braking system	S	S
Power rack-and-pinion steering	S	S
Heavy-duty Bilstein gas-charged shock absorbers	S	S
Underhood lamps	S	S
Acoustical insulation package	S	S
Uniframe-design body structure with corrosion-resistant coating	S	S

S–Standard NA–Not Available

Refer to Passenger Car Order Guide for option availability and application.

ORDERING INFORMATION

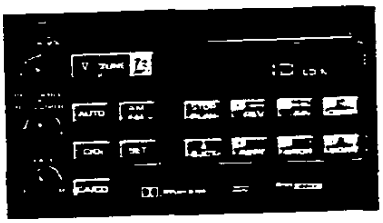
WHEEL TRIM

Standard Corvette 17" x 9½" cast aluminum wheels.

RADIOS

Standard AM/FM stereo radio with Seek and Scan, stereo cassette tape player, power antenna and digital clock; four stereo speakers.

Optional Delco®/Bose Music System, with electronically tuned AM/FM stereo radio with Seek and Scan, stereo cassette tape player, digital clock and four tuned Bose stereo speakers (RPO UU8).



Optional Delco®/Bose Music System with electronically tuned AM/FM stereo radio, automatic Up/Down Seek, speed-activated volume control, stereo digital compact disc player, stereo cassette tape player, digital clock and four tuned Bose stereo speakers (RPO U1F).

Appearance of radios may vary by car model.

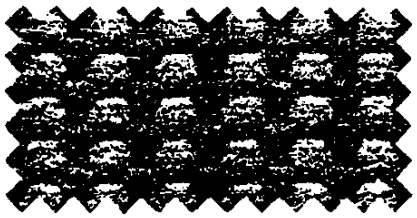
REMOVABLE HARDTOP OPTION

Removable Hardtop (RPO CC2) is available for Corvette Convertible. Finished in body color.

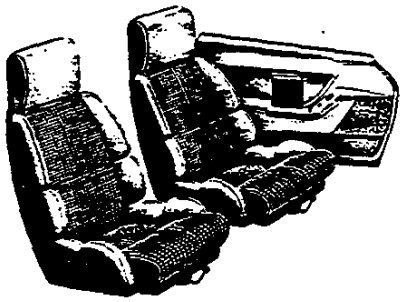
Refer to Passenger Car Order Guide for option availability and application.

SEAT TYPES & COLORS

CORVETTE STANDARD CLOTH SEAT TRIM



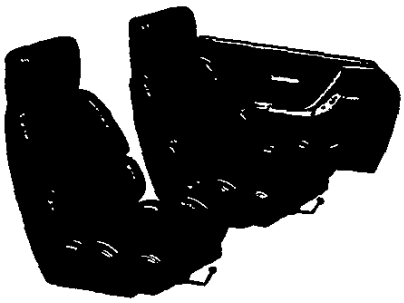
Standard sport cloth trim available in Black or Saddle.



Standard sport cloth reclining bucket seats with integral head restraints and wool-pad comfort liner.

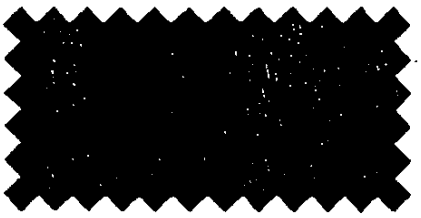
CORVETTE OPTIONAL LEATHER BUCKET SEATS

Optional leather seat trim available in Blue, Black, Gray, Red or Saddle.

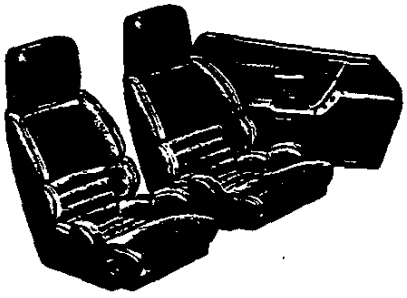


Optional leather reclining bucket seats with integral head restraints and wool-pad comfort liner.

CORVETTE OPTIONAL SPORT SEATS WITH LEATHER TRIM*



Optional leather sport seat trim available in Blue, Black, Gray, Red or Saddle.

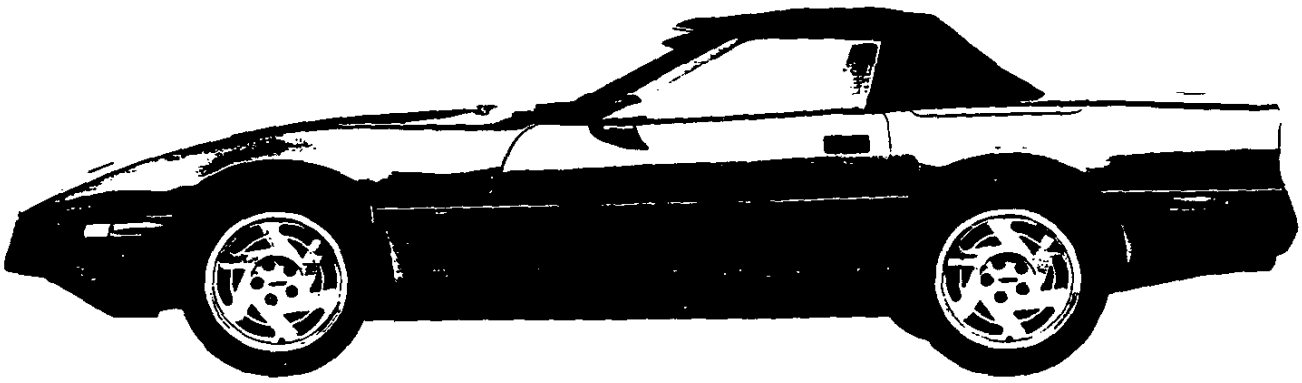


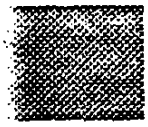
Optional articulated sport seats with leather trim.*

*Available only with RPO Z51 Performance Handling Package.

Refer to Passenger Car Order Guide for option availability and application.

CONVERTIBLE TOP COLORS





10T–White. 19T–Black. 67T–Saddle.

PREFERRED EQUIPMENT GROUPS

NOTE: NOT TO BE USED FOR ORDERING. REFER TO ORDER GUIDE FOR CURRENT USAGE AND AVAILABILITY.

	CORVETTE COUPE	CORVETTE CONVERTIBLE
DESCRIPTION	P.E.G. 1	P.E.G. 1
Electronic Air Conditioning	X	X
Delco*/Bose Music System	X	X
Power Seat (Driver's)	X*	X*
INDIVIDUAL OPTIONS		
Radio Equipment		
Delco*/Bose Music System	X*	X*
Delco*/Bose Music System with Digital Compact Disc and Cassette Player	O	O
Additional Individual Options		
Electronic Air Conditioning	X*	X*
Performance Ratio Axle	O†	O†
Engine Block Heater	O	O
Low Tire Pressure Warning	O	O
Performance Handling Package	O†**	
Power 6-Way Seat (Passenger's)	O	O
Roof Panels–Transparent Removable–Blue Tint	O	
Roof Panels–Transparent Removable–Bronze Tint	O	
Roof Package (Incls. Standard Solid Panel and Transparent Blue or Bronze Tint Panels)	O	
Electronic Selective Ride and Handling (Reqs. Z51)	O	
Luggage Carrier (Black)		O
Hardtop, Removable		O

X–Included in P.E.G. O–Available Individual Option. *Also available as an Individual Option with Base Vehicle Group.
†See Order Guide for Power Team Restrictions **See Order Guide for content.

Refer to Passenger Car Order Guide for option availability and application.

MODELS — PASSENGERS

Coupe 1YY07 2
Convertible 1YY67 2

DIMENSIONS (inches)

EXTERIOR
Wheelbase 96.2
Length (overall) 176.5
Width (overall) 71.0

INTERIOR
Head Room–Front 36.4
Shoulder Room–Front 54.0
Hip Room–Front 49.3
Leg Room–Front 42.6

LUGGAGE/CARGO CAPACITY (cu. ft.)
Luggage Compartment ..... Coupe 17.9
..... Convertible 6.6

RATED FUEL TANK CAPACITY (gallons) 20.0

POWER TEAMS

STANDARD ENGINE
RPO – L98 5.7 Liter (350 cu. in.) V8 with Tuned–Port Fuel Injection (TPI)

STANDARD TRANSMISSION
4–Speed Automatic Overdrive

OPTIONAL TRANSMISSION
6–Speed Manual

STANDARD EQUIPMENT SUMMARY

Clamshell–Opening Front End Assembly for Easy Engine Access
Power–Operated Retractable Halogen Headlamps
Halogen Fog Lamps
Dual Electrically Adjustable Heated Outside Rear View Mirrors
Full–Glass Rear Hatch with Three Remote Releases and Roller–Shade Cargo Cover (Coupe)
One–Piece Removable Fiberglass Roof Panel (Coupe)
Full Folding Roof for Convertible
Rear Back–up Lamps
Front Cornering Lamps
Center High–Mounted Stop Lamp (in Rear Fascia Above License Plate Pocket on Convertible; Roof–Mounted coupe)
PASS–Key Anti–Theft System
Supplemental Inflatable Restraint (SIR)
Electronic Liquid–Crystal Instrumentation with Multi–Colored Analog and Digital Display; Switchable English or Metric Readouts
Headlamps–on Reminder
Intermittent Wiper System
Electronic Speed Control with Resume Speed
Air Conditioning
Side Window Defoggers
Rear Window Defogger (Coupe)
Day/Night Rearview Mirror with Map and Ashtray Light
AM/FM Stereo Radio with Cassette and Digital Clock*; Four Speakers and Automatic Power Antenna
Center Console with Coin Tray, Cassette and CD Storage, Locking Lighted Storage Compartment and Control Switches for Power Windows, Air Conditioning, Radio, Electric Mirrors and Optional Power Seats and Selective Ride Control
Leather–Wrapped Two–Spoke Sport Steering Wheel
Comfortilt Steering Wheel
Power Door Locks
Power Windows
Cloth Seats with Lateral Support and Back Angle Adjustment
5.7 Liter V8 Engine with Aluminum Heads, Magnesium Valve Rocker Covers, Tuned–Port Fuel Injection (TPI), Aluminum Intake Manifold with Tuned Runners, and Roller Valve Lifters
Delcotron Generator with Built–in Solid State Regulator
Outside Air Induction System
17" x 9 1/2" Cast Aluminum Wheels with P275/40ZR–17 Eagle Tires
Bosch ABS II Anti–Lock Braking System
Independent Front and Rear Suspension with Transverse Fiberglass Leaf Springs and Forged Aluminum A–Arms
Bilstein Digressive Valving Monotube Shock Absorbers
Power Rack–and–Pinion Steering
Power Front/Rear Disc Brake System
Underhood Lamps
Uniframe–Design Body Structure with Corrosion–Resistant Coating
Acoustical Insulation Package
Glove Box
Illuminated Drivers Vanity Mirror
Scotchgard™ Fabric Protector

*May be upgraded

SEAT STYLES

STANDARD SEATS
Cloth Standard Bucket Seat

OPTIONAL SEATS
Leather Bucket
Leather Adjustable Sport Bucket

COLOR AND TRIM SELECTION

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

Interior Trim Color		Blue	Black	Gray	Red	Saddle
MODEL	SEAT TYPE					
1YY07	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
	* Leather Adjustable Sport Bucket	ADD8	ABB8	AQQ8	ARR8	AUU8
	Cloth Bucket		HBB2			HUU2

*Reqs AC1 & AC3 Power Seats

✔ SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Blue	Black	Gray	Red	Saddle
Black	41	41	●	●	●	●	●
Blue, Med Quasar (Met)	80	80		●			●
Blue, Steel (Met)	25	25	●	●			
Charcoal, Corvette (Met)	96	96		●	●		
Polo Green, Corvette (Met)	91	91		●			●
Red, Corvette Bright	81	81		●	●	●	●
Red, Corvette Dk (Met)	68	68		●			●
Turquoise (Met)	42	42		●			●
Yellow, Competition	53	53		●	●		●
White, Corvette	10	10	●	●	●	●	●

POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO		
	2.59	3.07	3.33
WITH NA5 STANDARD EMISSIONS			
L98 MXO	Std	G92	—
MN6	—	—	Std
WITH NN5 CALIFORNIA EMISSIONS			
L98 MXO	Std	G92	—
MN6	—	—	Std

32,479.00 **Model 1YY07**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		CVA1
1,273.00	**Preferred Equipment Group 1**	
	Air Conditioning – Electronic	x
	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock	x
	Power Seat (Driver)	x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code CVAB

REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

	ENGINE (Must Order)	
N.C.	L98	5.7 Liter TPI V8
	TRANSMISSION (Must Order One)	
N.C.	MX0	4-Speed Automatic
N.C.	MN6	6-Speed Manual (Reqs KC4 Eng Oil Cooler)
	EMISSION (Must Order One)	
N.C.	NA5	Standard Emissions
100.00	NN5	California Emissions
	TIRES	
N.C.	---	P275/40 ZR17 B/W (Base)
	WHEELS	
N.C.	---	17 X 9 1/2" Aluminum Wheels (Base)
	RADIO EQUIPMENT	
V.P.S.	---	AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape Player, Power Antenna and Digital Clock (Base)
V.P.S.	UU8	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock (Incl w/Group CVA1)
V.P.S.	U1F	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape, Compact Disc Player and Digital Clock
	INTERIOR TRIM	
425.00	A**2	Leather Bucket
1,050.00	A**8	*Leather Adjustable Sport Bucket*
N.C.	H**2	Cloth Bucket
	ADDITIONAL OPTIONS	
180.00	C68	Air Conditioning, Electronic (Incl w/Group CVA1)
22.00	G92	Axle, Performance Ratio (N/A MN6 Trans) (Reqs KC4 Eng Oil Cooler)
110.00	KC4	Cooler, Engine Oil
20.00	K05	Heater, Engine Block
325.00	UJ6	Low Tire Pressure Warning
460.00	Z51	Performance Handling Package (Re MN6 Trans) (Incls Special Suspension)
270.00	AC3	Power Seat, Six-Way (Driver) (Incl w/Group CVA1)
270.00	AC1	*Power Seat, Six-Way (Passenger)* (Reqs AC3 Power Seat)
615.00	24S	Roof Panels-Transparent Removabl Blue Tint
615.00	64S	Roof Panels-Transparent Removabl Bronze Tint
915.00	C2L	Roof Package (Incls Std Solid Panel and Transparent Panel) (Reqs 24S or 64S Panel)
1,695.00	FX3	Selective Ride and Handling, Electronic

COLOR AND TRIM SELECTION

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

Interior Trim Color		Blue	Black	Gray	Red	Saddle
MODEL	SEAT TYPE					
1YY67	Leather Bucket	ADD2	AB82	AQQ2	ARR2	AUU2
	* Leather Adjustable Sport Bucket	ADD8	AB88	AQQ8	ARR8	AUU8
	Cloth Bucket		HBB2			HUU2

*Reqs AC1 and AC3 Power Seats

✓ @CONVERTIBLE TOP SELECTOR

Exterior Paint Color	Color Code 1	Color Code 2	Blue	Black	Gray	Red	Saddle
Black	41	41	19T	10T/19T	10T/19T	19T	- - -
Blue, Med Quasar (Met)	80	80		19T			67T
Blue, Steel (Met)	25	25	10T/19T	10T/19T			
Charcoal, Corvette (Met)	96	96		10T/19T	10T/19T		
Polo Green, Corvette (Met)	91	91		19T/67T			19T/67T
Red, Corvette Bright	81	81		10T/19T	10T/19T	10T/19T	19T/67T
Red, Corvette Dk	68	68		10T/19T			19T/67T
Turquoise (Met)	42	42		19T			67T
Yellow, Competition	53	53		10T/19T	10T/19T		19T/67T
White, Corvette	10	10	10T	10T/19T	10T/19T	10T/19T	10T/67T

@Convertible Top Option Must Be Specified In "Plus" (+) Option Section of Order Worksheet.

CONVERTIBLE TOP COLOR

WHITE ..... 10T BLACK ..... 19T SADDLE 67T

POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO		
	2.59	2.73	3.33
WITH NA5 STANDARD EMISSIONS			
L98 MX0	Std	G92	—
MN6	—	—	Std
WITH NN5 CALIFORNIA EMISSIONS			
L98 MX0	Std	G92	—
MN6	—	—	Std

37,764.00 **Model 1YY67**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		CYA1
1,273.00	**Preferred Equipment Group 1**	
	Air Conditioning – Electronic	x
	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock	x
	Power Seat (Driver)	x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code CYAB

REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ENGINE (Must Order)

N.C. L98 5.7 Liter TPI V8

TRANSMISSION (Must Order One)

N.C. MX0 4-Speed Automatic

N.C. MN6 6-Speed Manual (Reqs KC4 Eng Oil Cooler)

EMISSION (Must Order One)

N.C. NA5 Standard Emissions

100.00 NN5 California Emissions

TIRES

N.C. --- P275/40 ZR17 B/W (Base)

WHEELS

N.C. --- 17 X 9 1/2" Aluminum Wheels (Base)

RADIO EQUIPMENT

V.P.S. --- AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape Player, Power Antenna and Digital Clock (Base)

V.P.S. UU8 Delco/Bose Music System Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock (Incl w/Group CYA1)

V.P.S. U1F Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape, Compact Disc Player and Digital Clock

INTERIOR TRIM

425.00 A**2 Leather Bucket

1,050.00 A**8 Leather Adjustable Sport Bucket

N.C. H**2 Cloth Bucket

ADDITIONAL OPTIONS

180.00 C68 Air Conditioning, Electronic (Incl w/Group CYA1)

22.00 G92 Axle, Performance Ratio (N/A MN6 Trans) (Reqs KC4 Eng Oil Cooler)

140.00 V56 Carrier, Luggage: Black

110.00 KC4 Cooler, Engine Oil

1,995.00 CC2 Hardtop, Removable

20.00 K05 Heater, Engine Block

325.00 UJ6 Low Tire Pressure Warning

270.00 AC3 Power Seat, Six-Way (Driver) (Incl w/Group CYA1)

270.00 AC1 Power Seat, Six-Way (Passenger) (Reqs AC3 Power Seat)

1,695.00 FX3 Selective Ride and Handling, Electronic

SECTION 0A
GENERAL INFORMATION

CAUTION: This vehicle is equipped with Supplemental Inflatable Restraint (SIR). Refer to CAUTIONS in Section 9J under "On-Vehicle Service" before performing service on or around SIR components or wiring. Failure to follow CAUTIONS could result in possible air bag deployment, personal injury, or unneeded SIR systems repairs.

CONTENTS

HANDLING ELECTROSTATIC DISCHARGE (ESD) SENSITIVE PARTS

Figure 1

NOTICE: When handling an electronic part that has an ESD sensitive sticker, or is identified as ESD sensitive in the list that follows, the service technician should use the following guidelines to reduce any possible electrostatic charge buildup on the service technician's body and the electronic part.

1. Do not open any package containing an electronic part until it is time to install the part.
2. Avoid touching the electrical terminals of the part.
3. Before removing the part from its package, ground the package to a known good ground such as an unpainted metal work bench.
4. Always touch a known good ground before handling the part. This should be repeated while handling the part and more frequently after sliding across the seat, sitting down from a standing position, or walking a distance.

Not all parts that can be damaged by ESD have an ESD label. Components that can be damaged by ESD are:

- Chime Module
- Cruise Control Module
- Electronic Instrument Clusters
- Electronic Control Module (ECM) (Including PROM, CAL-PAK or MEM-CAL)
- Radio

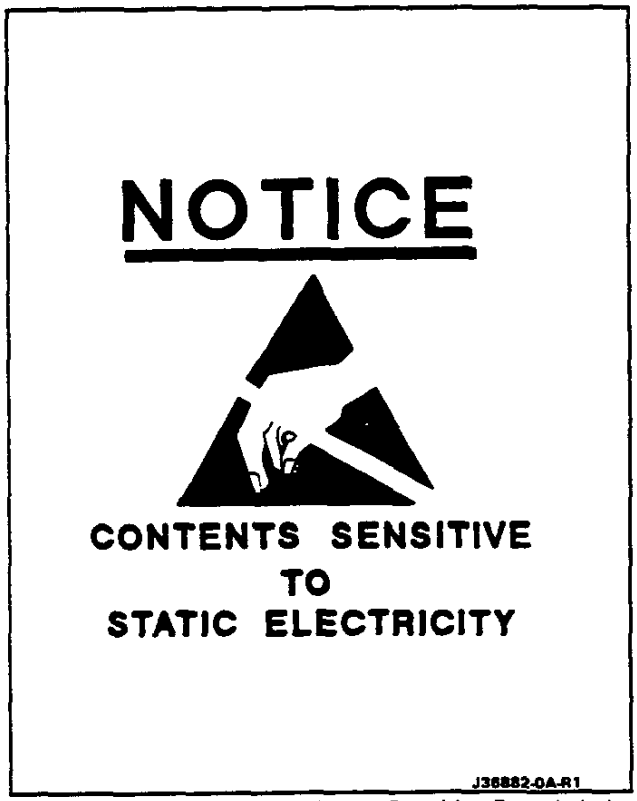


Figure 1 Electrostatic Discharge Sensitive Parts Label

- Anti-Lock Brake System Controller
- Distributorless Ignition System Module (LT5)
- Low Tire Pressure Warning System Module
- A/C Programmer and Controller
- Central Control Module (CCM)
- Supplemental Inflatable Restraint (SIR) Components

VEHICLE IDENTIFICATION PLATE

Figures 2 and 3

The vehicle identification plate is located on the upper left corner of the instrument panel upper pad and is visible from outside of the vehicle. Each production sequence number is prefixed by letters and numbers, which represent information such as the carline, series and body styles for the current model year.

ENGINE IDENTIFICATION

Figures 4 and 5

Engine displacement information can be obtained by matching the engine code character in the Vehicle Identification Number to the Vehicle Identification Chart (Figure 3).

Stick-on labels attached to the engine, or laser etching, or stampings in the engine block, indicate the engine unit number and build date code.

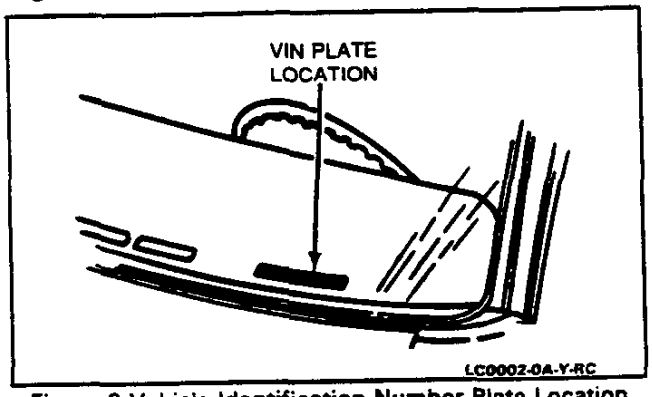


Figure 2 Vehicle Identification Number Plate Location

All engines are stamped with a partial Vehicle Identification Number. The stamping contains nine positions.

Position one is the GM division identifier:

1=Chevrolet, 2=Pontiac, 3=Oldsmobile, 4=Buick, 6=Cadillac

Position two is the model year:

K=1989

Position three is the car assembly plant code.

Positions four through nine represent the production sequence number for the vehicle.

TRANSMISSION IDENTIFICATION

Figures 6 and 7

The identification label for the ZF S6-40 6-speed manual transmission (Figure 6) is located on the left side of the transmission case.

Figure 7 shows how to determine the model and serial number of an automatic transmission.

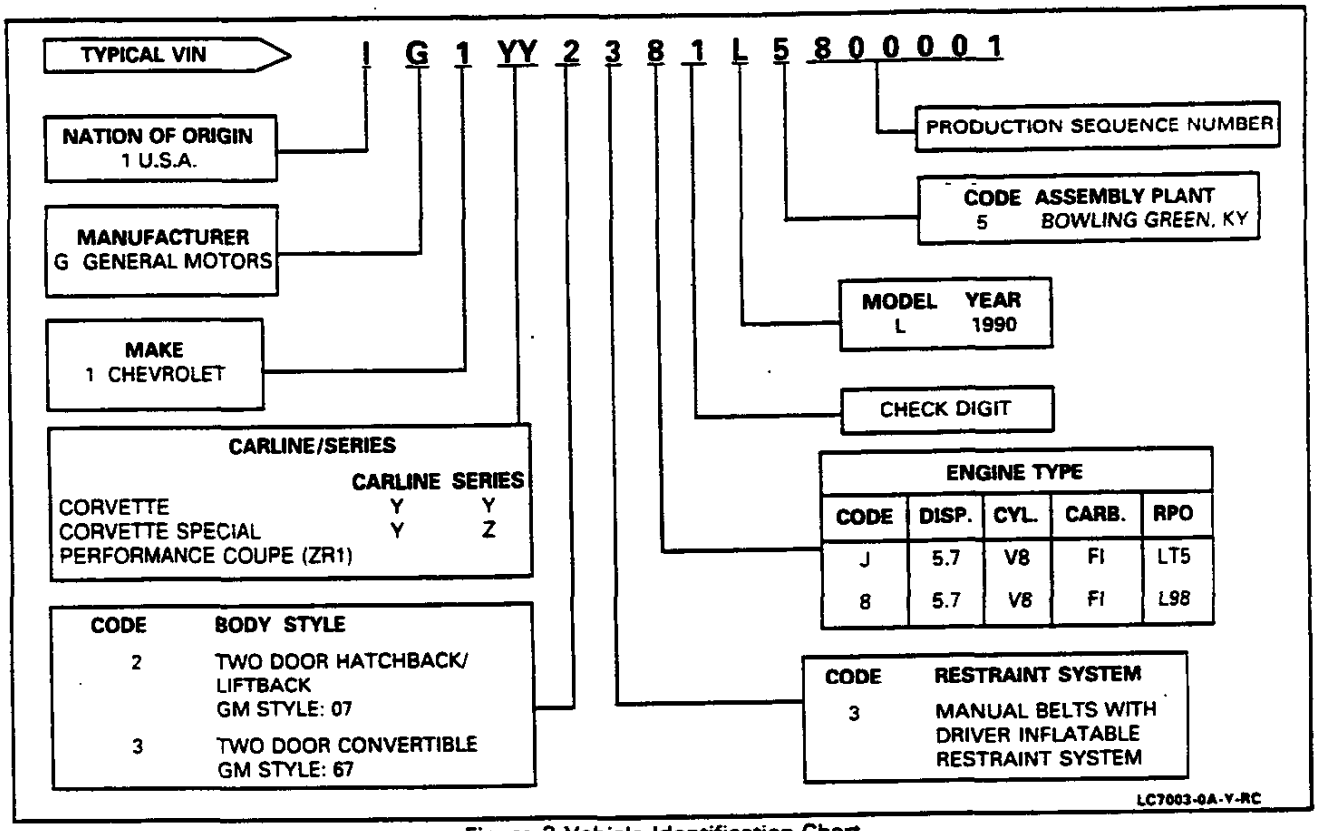


Figure 3 Vehicle Identification Chart

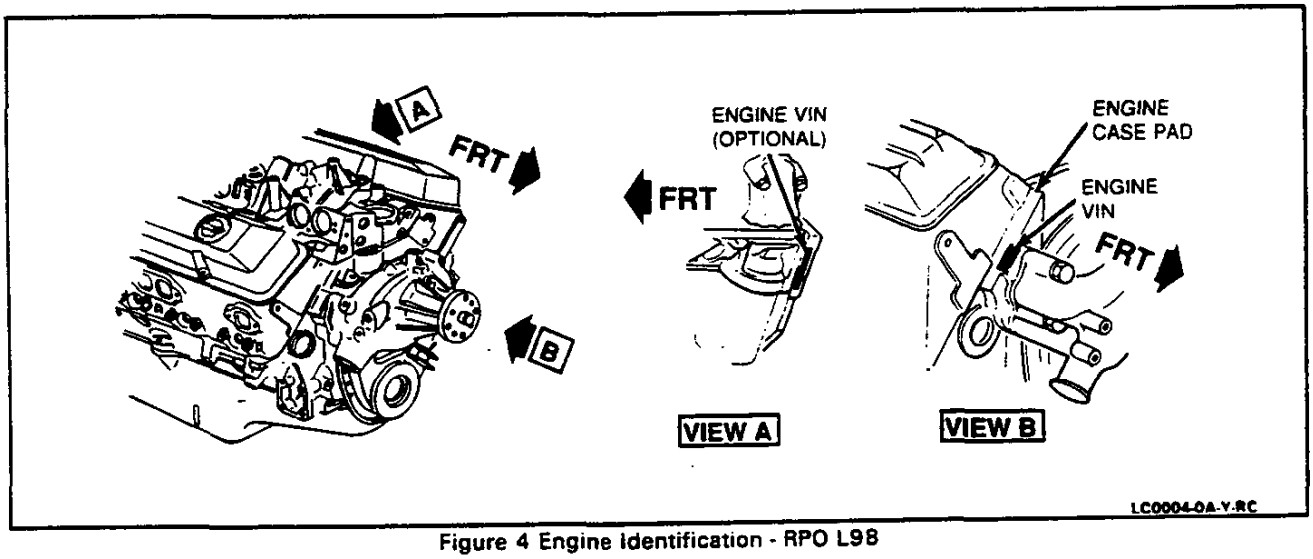


Figure 4 Engine Identification - RPO L98

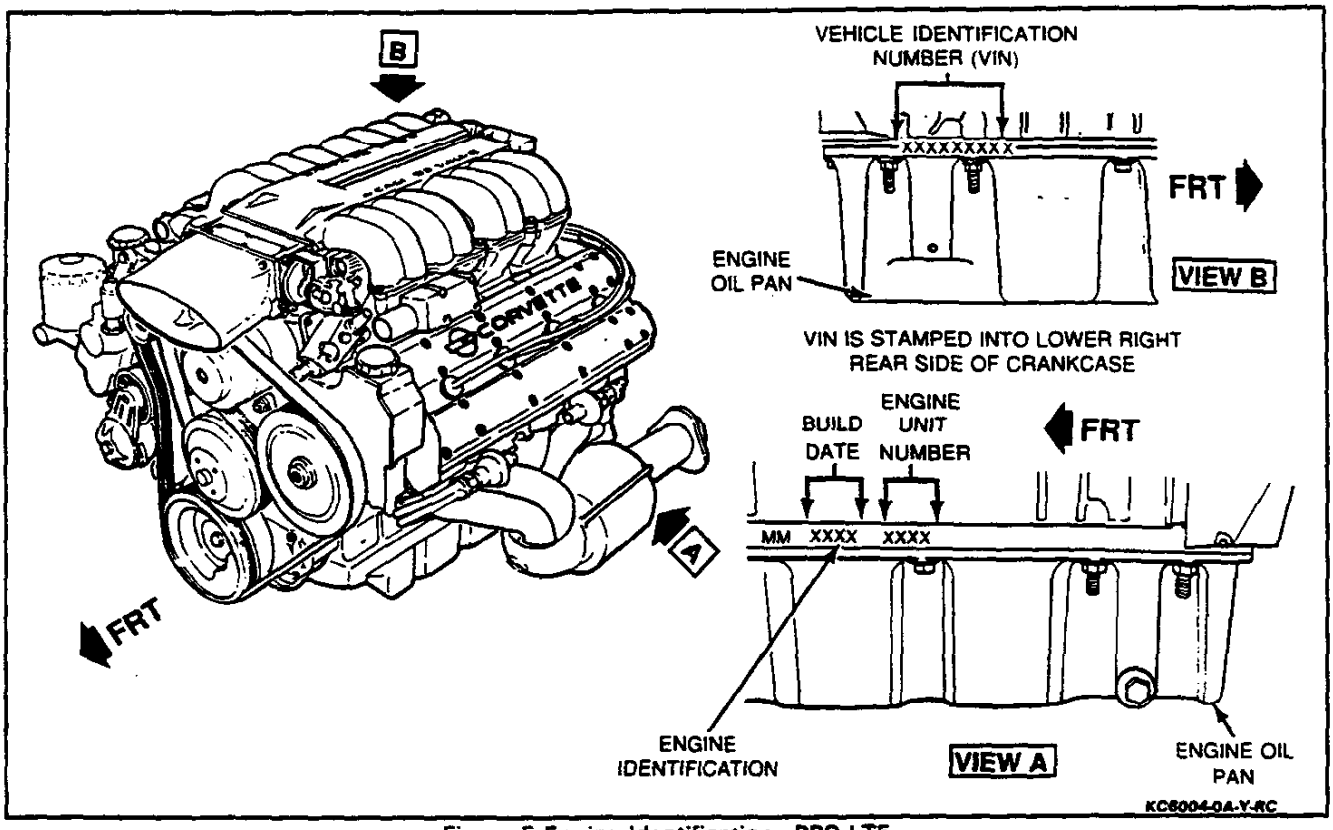


Figure 5 Engine Identification - RPO LT5

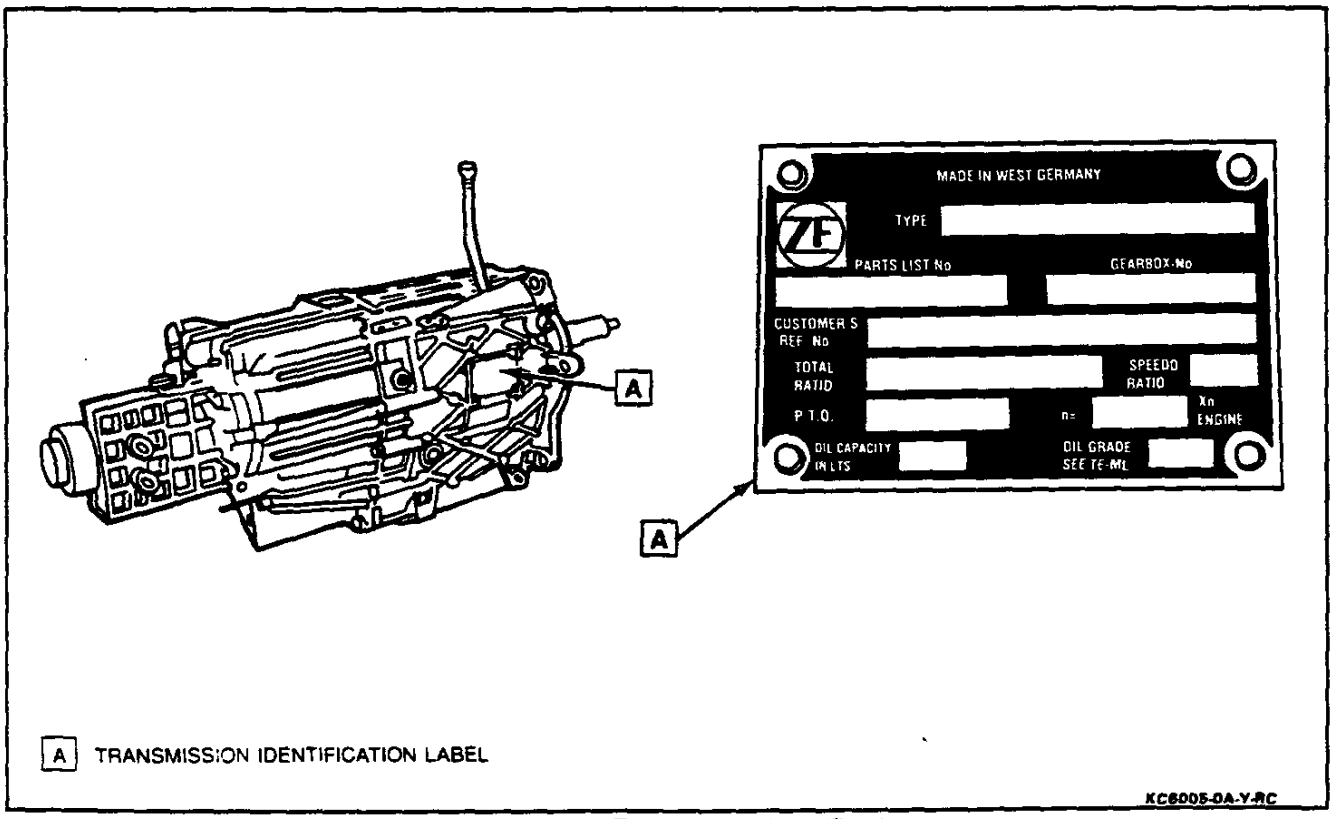


Figure 6 Manual Transmission Identification

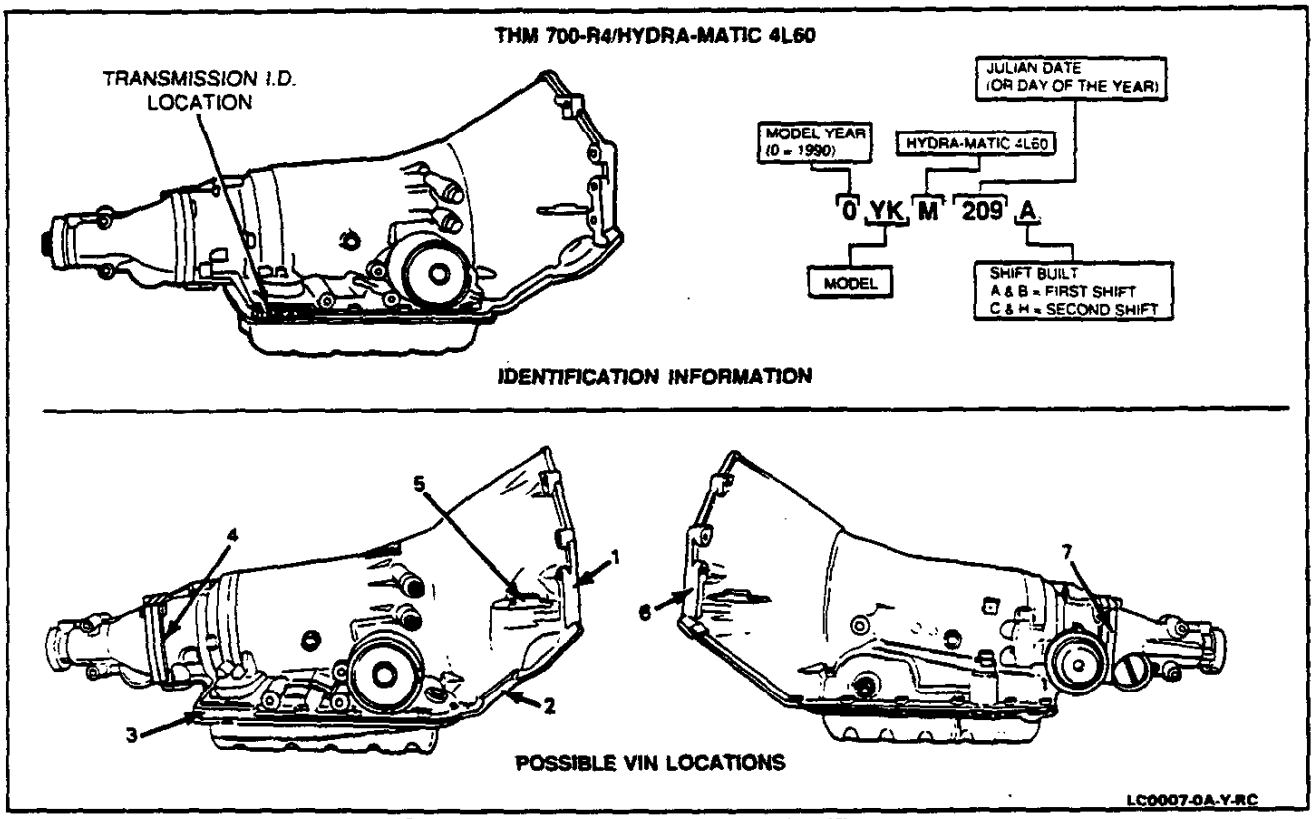


Figure 7 Automatic Transmission Identification

TRANSMISSION USAGE

Engine	Model	Transmission
5.7L V8 (L98)	Coupe and Convertible	ZF S6-40 6-Speed Manual (ML9) Automatic 4L60/THM 700-R4 (MD8)
5.7L V8 (LT5)	Coupe	ZF S6-40 6-Speed Manual (ML9)

TIRE INFORMATION

Information on tire size, vehicle capacity weight, and recommended tire inflation pressure is found on the Tire Placard located on the driver's door.

GENERAL VEHICLE LIFTING AND JACKING PROCEDURES

Figures 8 and 9

NOTICE: When jacking or lifting a vehicle from the frame side rails, be certain the lift pads do not contact the catalytic converters as damage to the converters could result.

Figures 8 and 9 indicate the **preferred** methods of lifting the vehicle using a hoist. If any other hoist methods are used, special care must be used not to damage the ABS brake lines, fuel lines, exhaust system or underbody.

Rear Spindle Support Protector Sleeve

Figure 10

The rear spindle support rods, along with a protector, may be used to support the rear end of the vehicle when using a twin post hoist.

A protector for the spindle support rods may be fabricated as shown in Figure 10 to prevent surface nicks or gouges where the lifts contact the rods.

METRIC FASTENERS

Figures 11 and 12

Current model GM vehicles are primarily dimensioned in the metric system. Most fasteners are metric and are very close in dimension to well-known customary fasteners in the inch system. It is important that replacement fasteners be of the correct nominal diameter, thread pitch and strength.

Original equipment metric fasteners (except cross-recess head screws) are identified by a number marking which indicates the strength of the material in

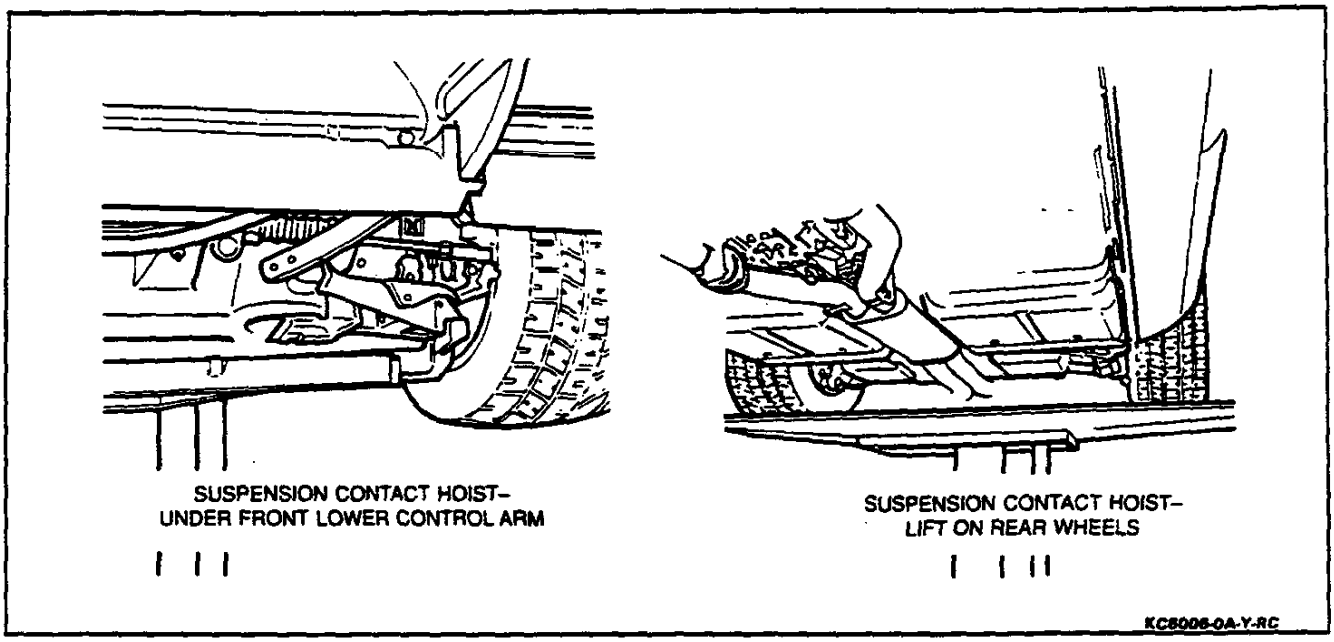


Figure 8 Vehicle Lift Points

the fastener. Metric cross-recess screws are identified by a Posidriv or Type 1A cross-recess. For best results, use a Type 1A cross-recess screwdriver, or equivalent, in Posidriv recess head screws.

NOTICE: Most metric fasteners have a blue color coating. However, this should not be used as positive identification, as some metric fasteners are not color coated.

General Motors Engineering Standards, along with other North American Industries, have adopted a portion of the standard metric fastener sizes defined by ISO (International Standards Organization). This was done to reduce the number of fastener sizes used and yet retain the best strength qualities in each thread size. For example, the customary 1/4-20 and 1/4-28 screws are replaced by the metric M6.0 X 1 screw, which has nearly the same diameter and 25.4 threads per inch. The thread pitch is in between the customary coarse and fine thread pitches.

Metric and customary thread notation differ slightly. The difference is shown in Figure 12.

FASTENER STRENGTH IDENTIFICATION

Figure 13

The most commonly used metric fastener strength property classes are 9.8 and 10.9, with the class identification being embossed on the head of each bolt. Customary (inch) strength classes range from grade 2 to grade 8. The number of markings is two lines less than the actual grade (i.e., grade 8 bolt will exhibit 6 embossed radial lines on the bolt head). Some metric nuts will be marked with single digit strength identification numbers on the nut face.

When replacing metric fasteners, be careful to use bolts and nuts of equal or greater strength than the original (the same number marking or higher). It is also important to select replacement fasteners of the correct size. Correct replacement bolts and nuts are available through the parts division. Many metric fasteners available in the after-market parts channels were designed to metric standards of countries other than the United States and may be of a lower strength, may not have the numbered head marking system, and may be of different thread pitch. The metric fasteners used on GM products are designed to new, international standards that may not yet be manufactured by some non-domestic bolt and nut suppliers. In general, except for special applications, the common sizes and pitches are: **M 6.0 X 1, M 8 X 1.25, M 10 X 1.5, and M 12 X 1.75.**

PREVAILING TORQUE FASTENERS

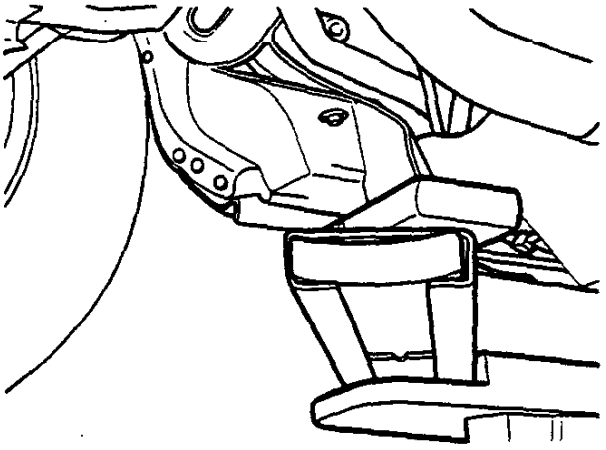
Figures 14 and 15

A prevailing torque nut is designed to develop an interference between the nut and bolt threads. This is most often accomplished by distortion of the top of an all metal nut, or by using a nylon patch on the threads in the middle of the hex flat. A nylon insert may also be used as a method of interference between nut and bolt threads.

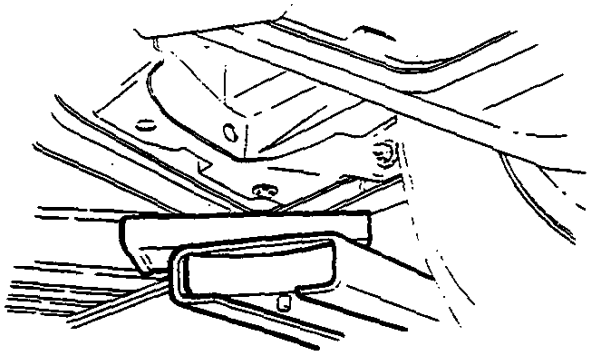
A prevailing torque bolt is designed to develop an interference between bolt and nut threads, or the threads of a tapped hole. This is accomplished by distorting some of the threads, or by using a nylon patch or adhesive.

Recommendations For Reuse:

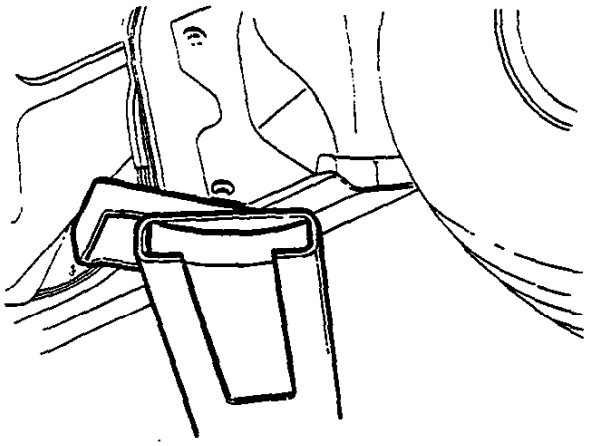
1. Clean, unrusted prevailing torque nuts and bolts may be reused as follows:
   a. Clean dirt and other foreign material from nut or bolt.
   b. Inspect nut or bolt to assure there are no cracks, elongation, or other signs of abuse or overtightening. If there is any doubt, replace with a new prevailing torque fastener of equal or greater strength.



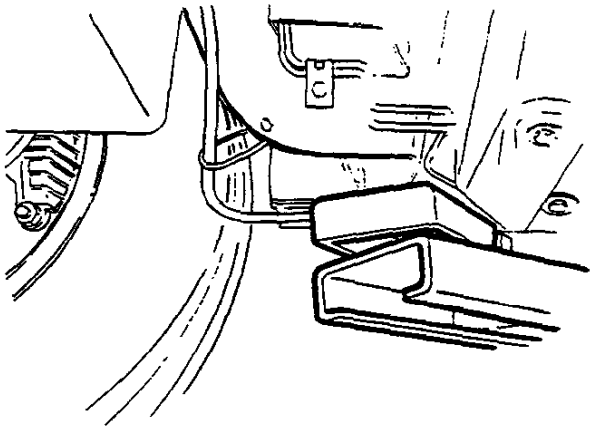
RIGHT SIDE
FRAME CONTACT HOIST
REARWARD OF FRONT WHEEL



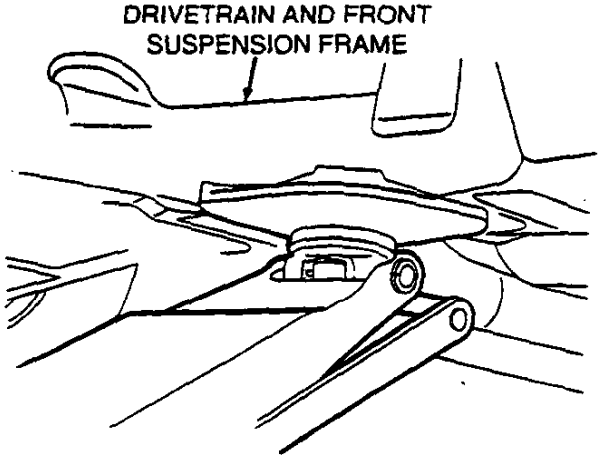
LEFT SIDE
FRAME CONTACT HOIST
REARWARD OF FRONT WHEEL



RIGHT SIDE
FRAME CONTACT HOIST
FORWARD OF REAR WHEEL



LEFT SIDE
FRAME CONTACT HOIST
FORWARD OF REAR WHEEL



FLOOR JACK-FRONT

KC8007-0A-Y-RC

Figure 9 Vehicle Lift Points (Continued)

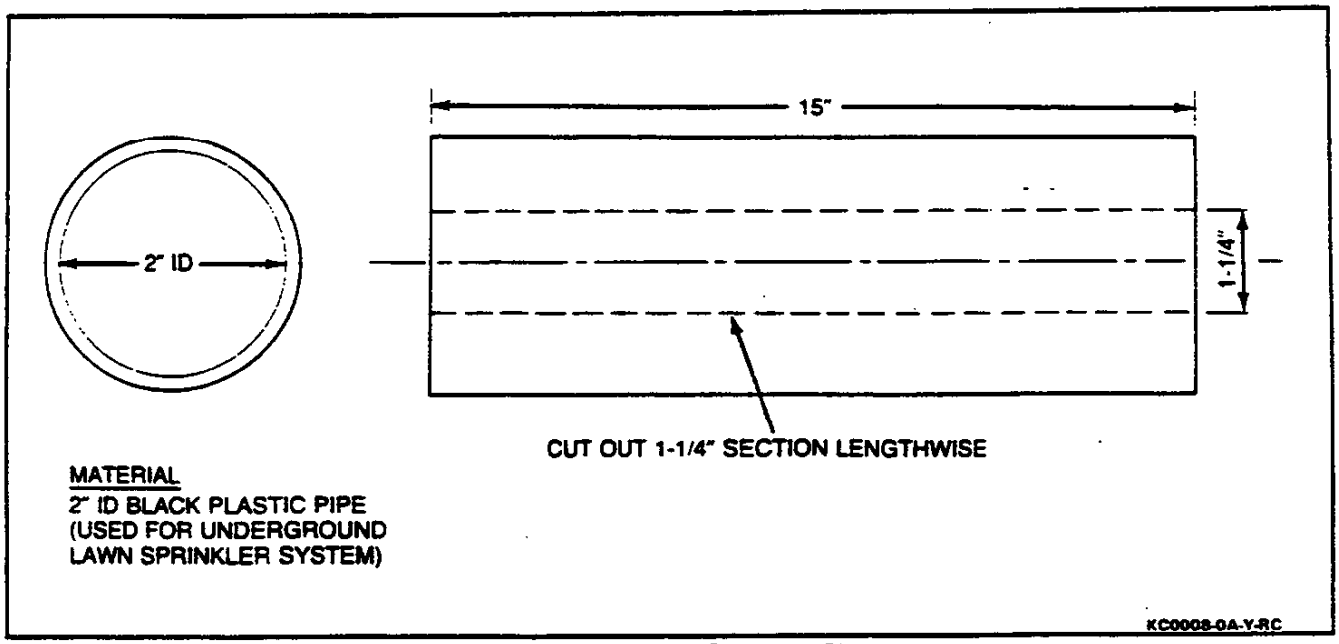


Figure 10 Support Rod Protector Sleeve

c. Assemble parts and hand start nut or bolt.
d. Observe that, before fastener seats, it develops torque per the chart in Figure 15. If there is any doubt, replace with a new prevailing torque fastener of equal or greater strength.
e. Tighten fastener to torque specified in appropriate section of this manual.

2. Bolts and nuts which are rusty or damaged should be replaced with new parts of equal or greater strength.

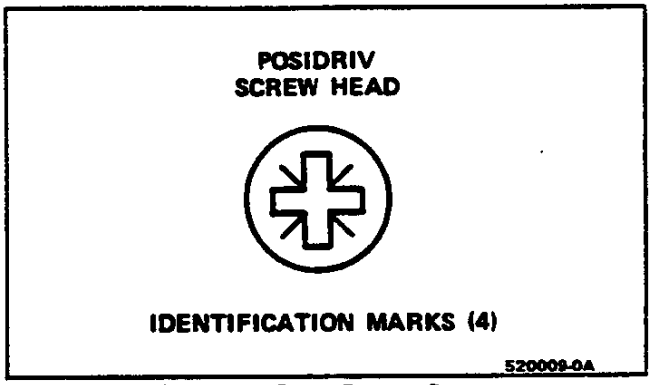


Figure 11 Cross-Recess Screw

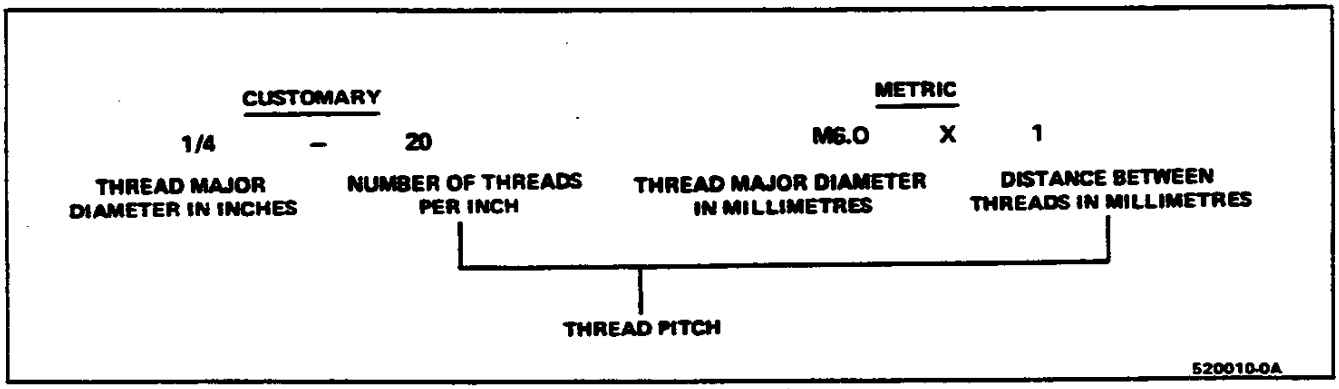


Figure 12 Thread Notation

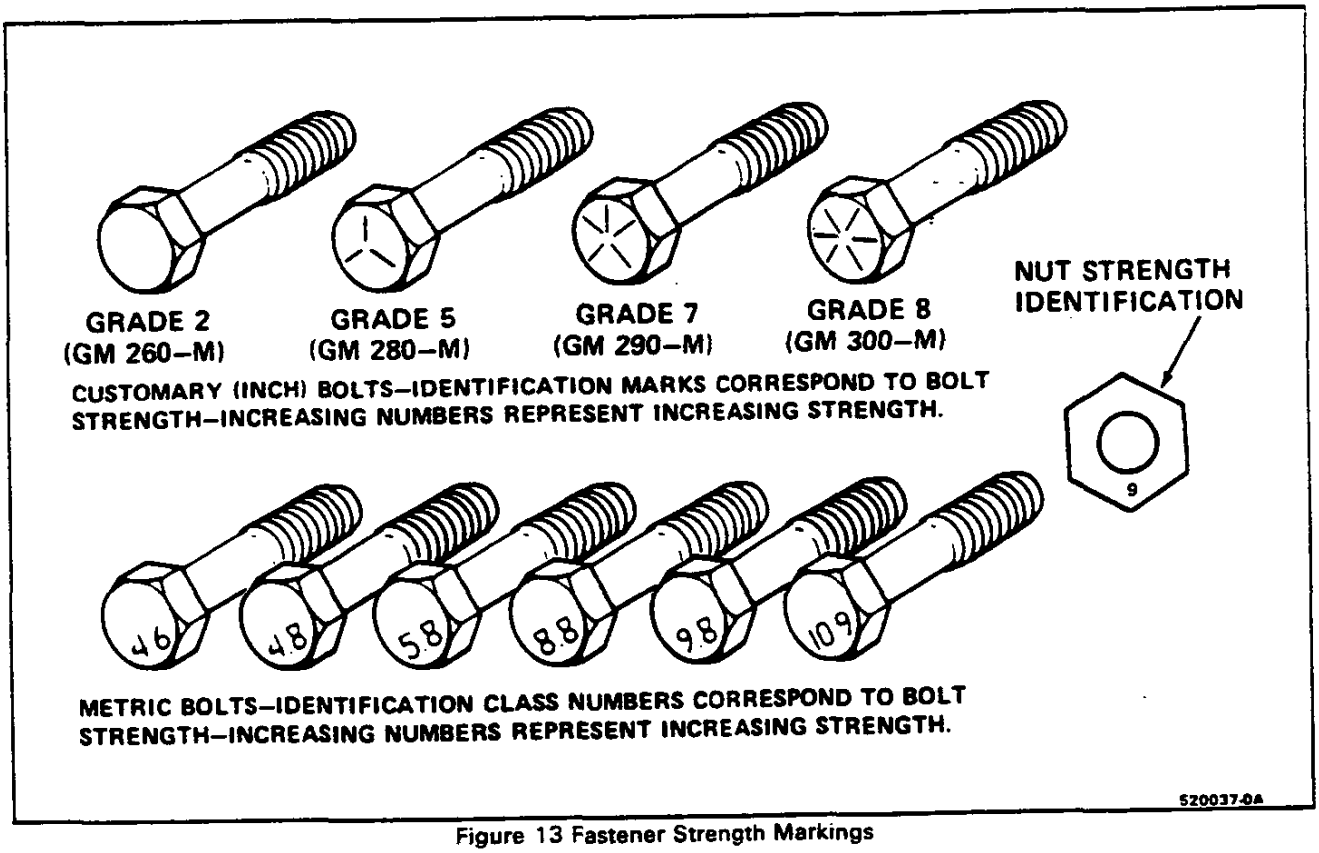


Figure 13 Fastener Strength Markings

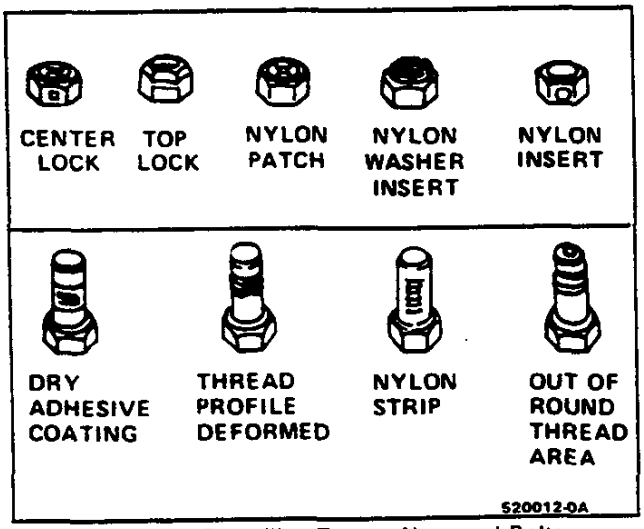


Figure 14 Prevailing Torque Nuts and Bolts

		METRIC SIZES (MM)						
		6 & 6.3	8	10	12	14	16	20
NUTS AND ALL METAL BOLTS	Nm	0.4	0.8	1.4	2.2	3.0	4.2	7.0
	IN. LBS.	4.0	7.0	12	18	25	35	57
ADHESIVE OR NYLON COATED BOLTS	Nm	0.4	0.6	1.2	1.6	2.4	3.4	5.6
	IN. LBS.	4.0	5.0	10	14	20	28	46

		INCH SIZES							
		.250	.312	.375	.437	.500	.562	.625	.750
NUTS AND ALL METAL BOLTS	Nm	0.4	0.6	1.4	1.8	2.4	3.2	4.2	8.2
	IN. LBS.	4.0	5.0	12	15	20	27	35	91
ADHESIVE OR NYLON COATED BOLTS	Nm	0.4	0.6	1.0	1.4	1.8	2.6	3.4	5.2
	IN. LBS.	4.0	5.0	9.0	12	15	22	28	43

520013-0A

Figure 15 Prevailing Torque Chart

Multiply	by	to get equivalent number of:
	LENGTH	
Inch	25.4	millimeters (mm)
Foot	0.304 8	meters (m)
Yard	0.914 4	meters
Mile	1.609	kilometers (km)
	AREA	
Inch^2	645.2	millimeters^2 (mm^2)
	6.45	centimeters^2 (cm^2)
Foot^2	0.092 9	meters^2 (m^2)
Yard^2	0.836 1	meters^2
	VOLUME	
Inch^3	16 387.	mm^3
	16.387	cm^3
	0.016 4	liters (l)
Quart	0.946 4	liters
Gallon	3.785 4	liters
Yard^3	0.764 6	meters^3 (m^3)
	MASS	
Pound	0.453 6	kilograms (kg)
Ton	907.18	kilograms (kg)
Ton	0.907	tonne (t)
	FORCE	
Kilogram	9.807	newtons (N)
Ounce	0.278 0	newtons
Pound	4.448	newtons
	TEMPERATURE	
Degree Fahrenheit	(t°F-32) ÷ 1.8	degree Celsius (C)

Multiply	by	to get equivalent number of:
	ACCELERATION	
Foot/sec^2	0.304 8	meter/sec^2 (m/s^2)
Inch/sec^2	0.025 4	meter/sec^2
	TORQUE	
Pound-inch	0.112 98	newton-meters (N·m)
Pound-foot	1.355 8	newton-meters
	POWER	
Horsepower	0.746	kilowatts (kW)
	PRESSURE OR STRESS	
Inches of water	0.249 1	kilopascals (kPa)
Pounds/sq. in.	6.895	kilopascals
	ENERGY OR WORK	
BTU	1 055.	joules (J)
Foot-pound	1.355 8	joules
Kilowatt-hour	3 600 000. or 3.6 x 10^6	joules (J = one W's)
	LIGHT	
Foot candle	1.076 4	lumens/meter^2 (lm/m^2)
	FUEL PERFORMANCE	
Miles/gal	0.425 1	kilometers/liter (km/l)
Gal/mile	2.352 7	liter/kilometer (l/km)
	VELOCITY	
Miles/hour	1.609 3	kilometers/hr. (km/h)

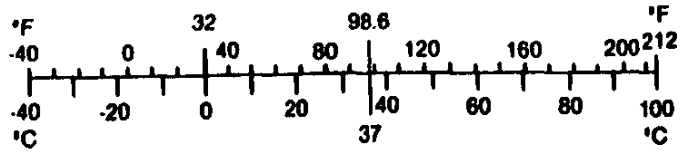


Figure 16 Metric-English Conversion Table

METRIC-ENGLISH CONVERSION TABLE

DECIMAL AND METRIC EQUIVALENTS

Fractions	Decimal In.	Metric MM.	Fractions	Decimal In.	Metric MM.
1/64	.015625	.39688	33/64	.515625	13.09687
1/32	.03125	.79375	17/32	.53125	13.49375
3/64	.046875	1.19062	35/64	.546875	13.89062
1/16	.0625	1.58750	9/16	.5625	14.28750
5/64	.078125	1.98437	37/64	.578125	14.68437
3/32	.09375	2.38125	19/32	.59375	15.08125
7/64	.109375	2.77812	39/64	.609375	15.47812
1/8	.125	3.1750	5/8	.625	15.87500
9/64	.140625	3.57187	41/64	.640625	16.27187
5/32	.15625	3.96875	21/32	.65625	16.66875
11/64	.171875	4.36562	43/64	.671875	17.06562
3/16	.1875	4.76250	11/16	.6875	17.46250
13/64	.203125	5.15937	45/64	.703125	17.85937
7/32	.21875	5.55625	23/32	.71875	18.25625
15/64	.234375	5.95312	47/64	.734375	18.65312
1/4	.250	6.35000	3/4	.750	19.05000
17/64	.265625	6.74687	49/64	.765625	19.44687
9/32	.28125	7.14375	25/32	.78125	19.84375
19/64	.296875	7.54062	51/64	.796875	20.24062
5/16	.3125	7.93750	13/16	.8125	20.63750
21/64	.328125	8.33437	53/64	.828125	21.03437
11/32	.34375	8.73125	27/32	.84375	21.43125
23/64	.359375	9.12812	55/64	.859375	21.82812
3/8	.375	9.52500	7/8	.875	22.22500
25/64	.390625	9.92187	57/64	.890625	22.62187
13/32	.40625	10.31875	29/32	.90625	23.01875
27/64	.421875	10.71562	59/64	.921875	23.41562
7/16	.4375	11.11250	15/16	.9375	23.81250
29/64	.453125	11.50937	61/64	.953125	24.20937
15/32	.46875	11.90625	31/32	.96875	24.60625
31/64	.484375	12.30312	63/64	.984375	25.00312
1/2	.500	12.70000	1	1.00	25.40000

520014-0A

Figure 17 Decimal and Metric Equivalents

LIST OF AUTOMOTIVE ABBREVIATIONS WHICH MAY BE USED IN THIS MANUAL

ABS - Anti Lock Braking System
A/C - Air Conditioning
Adj - Adjust
A/F - Air/Fuel (As in Air Fuel Ratio)
AIR - Air Injection Reaction System
ALDL - Assembly Line Diagnostic Link
Alt. - Altitude
AMP - Ampere(s)
AT - Automatic Transmission/Transaxle
ATC - Automatic Temperature Control
ATDC - After Top Dead Center

BARO - Barometric Absolute Pressure Sensor
Bat. - Battery
Bat. + - Positive Terminal
BCM - Body Control Module
BHP - Brake Horsepower
BP - Back Pressure
BTDC - Before Top Dead Center

Cat. Conv. - Catalytic Converter
CC - Cubic Centimeter
- Converter Clutch
CCC - Computer Command Control
CB - Citizens Band (Radio)
CCM - Central Control Module
CCOT - Cycling Clutch Orifice Tube
CCP - Controlled Canister Purge
CEMF - Counter Electromotive Force
CID - Cubic Inch Displacement
CLOOP - Closed Loop
CLTBI - Closed Loop Throttle Body Injection
CO - Carbon Monoxide
CO2 - Carbon Dioxide
Conv. - Converter
CP - Canister Purge
CTS - Coolant Temperature Sensor
Cu. In. - Cubic Inch
Cyl. - Cylinder (s)

DERM - Diagnostic Energy Reserve Module
Diff. - Differential
DIS - Direct Ignition System
Distr. - Distributor

EAC - Electric Air Control Valve
EAS - Electric Air Switching Valve
ECC - Electronic Climate Control
ECM - Electronic Control Module
ECS - Emission Control System
ECU - Engine Calibration Unit
EEC - Evaporative Emission Control
EFI - Electronic Fuel Injection
EGR/TVS - Exhaust Gas Recirculation/ Thermostatic Vacuum Switch
EMF - Electromotive Force
EOS - Exhaust Oxygen Sensor
ESC - Electronic Spark Control
EST - Electronic Spark Timing

ETC - Electronic Temperature Control
ETR - Electronically Tuned Receiver
Exh. - Exhaust

Fed. - Federal (All States Exc. Calif)
FMVSS - Federal Motor Vehicle Safety Standards
Ft. Lb. - Foot Pounds (Torque)

gal. - Gallon
GND - Ground
GPM - Gallons per minute

HC - Hydrocarbons
HD - Heavy Duty
HEI - High Energy Ignition
Hg - Mercury
Hi Alt. - High Altitude
HP - Horsepower
HVAC - Heater-Vent-Air Conditioning
HVACM - Heater-Vent-Air Conditioning Module
HVM - Heater-Vent Module

IAC - Idle Air Control
IC - Integrated Circuit
ID - Identification
- Inside Diameter
IGN -Ignition
IHP - Indicated Horsepower
INJ - Injection
I/P - Instrument Panel
ISC - Idle Speed Control

km - Kilometers
km/hr - Kilometers Per Hour
KV - Kilovolts (Thousand of Volts)
km/L - Kilometers Per Liter
kPa - Kilopascals

L - Liter
Lb. or lb. - pound
Lbs. Ft. - Pounds Feet (Torque)
LCD - Liquid Crystal Display
LED - Light Emitting Diode
LF - Left Front
LR - Left Rear
LTPWS - Low Tire Pressure Warning System

Man. Vac. - Manifold Vacuum
MAP - Manifold Absolute Pressure
MAT - Manifold Air Temperature Sensor
M/C - Mixture Control
mm - millimeters
MPG - Miles Per Gallon
MPFI - Multi-Port Fuel Injection
MPH - Miles Per Hour
MT - Manual Transmission
MV - Millivolt

N m - Newton Meters (Torque)
NOx - Nitrogen, Oxides of

OD - Outside Diameter
OHC - Overhead Cam
OL - Open Loop
OXY - Oxygen
O2 - Oxygen
O2 - Oxygen (Sensor)

PASS Key - Personalized Automotive Security System
PB - Power Brakes
PCV - Positive Crankcase Ventilation
PFI - Port Fuel Injection
PN - Park, Neutral
PROM - Programmable, Read Only Memory
P/S - Power Steering
PSI - Pounds Per Square Inch
Pt. - Pint

Qt. - Quart
R - Resistance
Ref. - Reference
RF - Right Front
RPM - Revolutions Per Minute
RPO - Regular Production Option
RR - Right Rear
RTV - Room Temperature Vulcanizing (Sealer)
RVR - Response Vacuum Reducer
RWD - Rear Wheel Drive

SAE - Society of Automotive Engineers
SI - System International
SIR - Supplemental Inflatable Restraint
Sol - Solenoid
SRC - Selective Ride Control
Syn - Synchronizer

TACH - Tachometer
TCC - Transmission Converter Clutch
TDC - Top Dead Center
TPS - Throttle Position Sensor
T.V. - Throttle Valve
TVS - Thermal Vacuum Switch

UJT - Universal Joint
UTD - Universal Theft Deterrent

V - Volt (s)
V-8 - Eight Cylinder Engine - Arranged in a "V"
Vac - Vacuum
VATS - Vehicle Anti-Theft System
VIN - Vehicle Identification Number
V-REF - ECM Reference Voltage
VSS - Vehicle Speed Sensor

W/ - With
W/B - Wheel Base
W/O - Without
WOT - Wide Open Throttle

X-Value - Expansion Valve

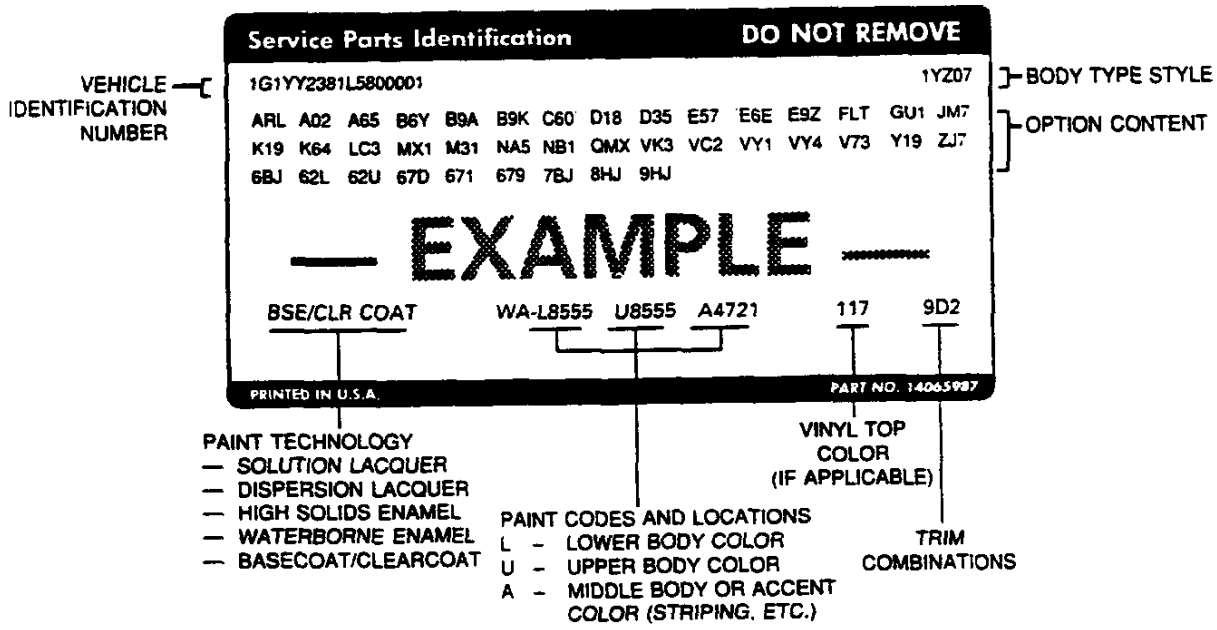
LC0018-0A-Y-RC

Figure 18 Abbreviations Chart

SERVICE PARTS IDENTIFICATION LABEL

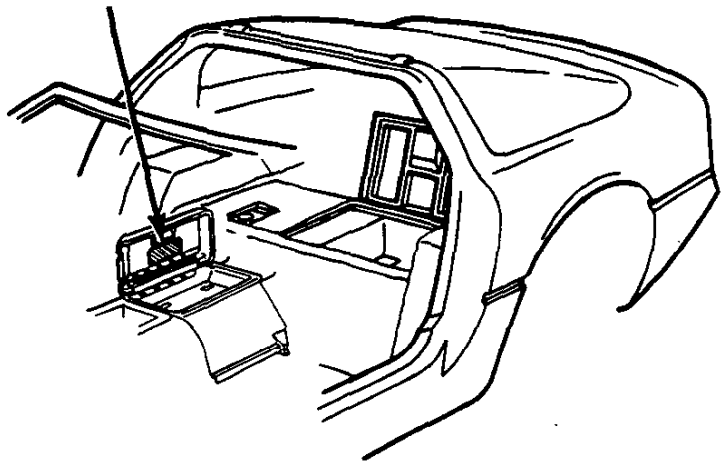
The Service Parts Identification Label provides identification of vehicle equipment to assist in servicing and determining replacement parts. Included on this label will be regular production options (RPO's) as well as standard and mandatory options. The label will be affixed to the inside of each passenger car vehicle at the assembly plant.

For additional information on the Service Parts Identification Label, see a GM Parts Catalog.



LABEL LOCATION

CORVETTE



LC0019-0A-Y-RC

Figure 19 Service Parts Identification Label

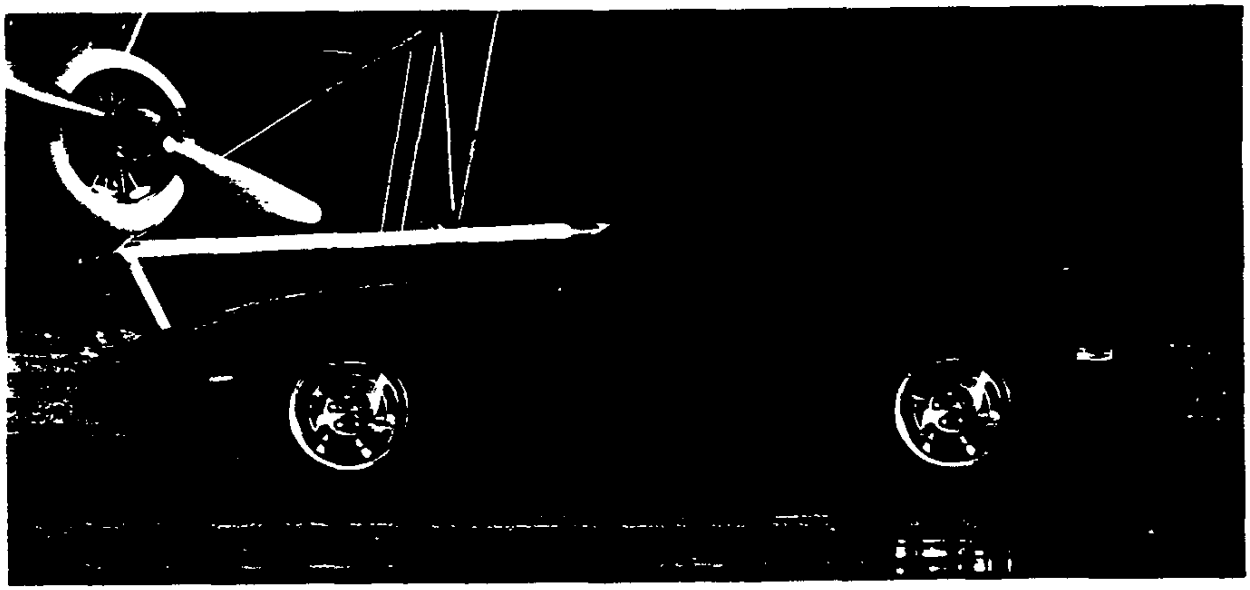
PRODUCTION AND PROCESS CODES

ACI ..... Passenger's Seat Adjuster, 6-way Power
AC3 ..... Driver's Seat Adjuster, 6-way Power
AJ3 ..... Restraint System, Inflatable
AQ9 ..... Seat, Reclining
AR9 ..... Seat, European Style Reclining
CC2 ..... Roof, Auxiliary
CC3 ..... Roof, Removable Panel (Plastic)
CF7 ..... Roof, Removable (Non-Transparent)
C2L ..... Roof Package, Consists of CC3 and CF7
C60 ..... Air Conditioner, Manual Controls
C68 ..... Air Conditioner, Automatic Electronic Controls
DL8 ..... Mirror, Heated Outside
D3X ..... Gear, Speedometer Driven (25513049)
D4D ..... Gear, Speedometer Driven (25513047)
D4L ..... Gear, Speedometer Driven (25513050)
D7B ..... Gear, Speedometer Driven (25513043)
D7C ..... Gear, Speedometer Driven (25513045)
D74 ..... Mirror, Inside Visor Vanity, Illuminated
D9A ..... Sensor, Vehicle Speed (25007224)
D9B ..... Sensor, Vehicle Speed (25007308)
FE1 ..... Suspension, Soft Ride
FE7 ..... Suspension, Heavy Duty
FX3 ..... Ride and Handling, Electronic
GH0 ..... Rear Axle, 3.54 Ratio
GM1 ..... Rear Axle, 2.59 Ratio
GM3 ..... Rear Axle, 3.45 Ratio
GT7 ..... Rear Axle, 3.33 Ratio
GU2 ..... Rear Axle, 2.73 Ratio
G44 ..... Rear Axle, 3.07 Ratio
G87 ..... Ring Gear, 8.5 Inch
G92 ..... Rear Axle, Performance Ratio
JL9 ..... Brakes, Anti-Lock Front and Rear Disc
J55 ..... Brakes, Heavy Duty
KC4 ..... Cooler, Engine Oil
K05 ..... Heater, Engine Block
K09 ..... Generator, 120 Amp
K68 ..... Generator, 105 Amp
LT5 ..... Engine, Gas, 8 Cyl, 5.7L, MPFI, OHC
L98 ..... Engine, Gas, 8 Cyl, 5.7L, MPFI
MD8 ..... Transmission, Automatic, 4-Speed, 4L60
ML9 ..... Transmission, Manual, 6-speed, ZF
NA5 ..... Emission System, Federal
NN5 ..... Emission System, California
NK4 ..... Steering Wheel, Sport Leather
QA1 ..... Wheel, 17 x 9.5, Styled Aluminum
QA2 ..... Wheel, 17 x 9.5 Front, 17 x 11 Rear, Styled Aluminum
T61 ..... Lighting, Daytime Running
T93 ..... Lamp, Tail and Stop Special
UJ6 ..... Indicator, Low Tire Pressure Warning
UM6 ..... Radio, AM/FM Stereo, Seek and Scan, Auto Rev. Cassette, Clock, ETR
UU8 ..... Radio, AM/FM Stereo, Cassette, Dolby, Clock, ETR
UXO ..... Speaker System, Delco/Bose, 6 Speaker
UIF ..... Radio, AM/FM Stereo, Cassette With Compact Disc Player
U19 ..... Cluster, Kilometers and Miles
U52 ..... Cluster, Electronic
V56 ..... Carrier, Luggage (Convertible)
XAU ..... Tire, Front, P275/40 ZR17
YAU ..... Tire, Rear, P275/40 ZR17
YBE ..... Tire, Rear, P315/35 ZR17
ZR1 ..... Special Performance Coupe Package
Z51 ..... Performance Handling Package
10T ..... Top Color, Arctic White
10U ..... Exterior Color, Arctic White
19C ..... Trim Combination, Black Cloth
191 ..... Interior Trim, Black

19T ..... Top Color, Black
193 ..... Trim Combination, Black Leather
199 ..... Safety Belts, Black
20U ..... Exterior Color, Nassau Blue Metallic
22I ..... Interior Trim, Steel Blue
223 ..... Trim Combination, Steel Blue Leather
229 ..... Safety Belts, Steel Blue
24S ..... Roof, Blue Removable Panel
25U ..... Exterior Color, Metallic
41U ..... Exterior Color, Black
42U ..... Exterior Color, Turquoise Metallic
53U ..... Exterior Color, Competition Yellow
60C ..... Trim Combination, Cognac Cloth
60I ..... Interior Trim, Cognac
603 ..... Trim Combination, Cognac Leather
609 ..... Safety Belts, Cognac
64S ..... Roof, Bronze Removable Panel
67T ..... Top Color, Saddle Vinyl
68U ..... Exterior color, Brilliant Red Metallic
73I ..... Interior Trim, Flame Red
733 ..... Trim Combination, Flame Red Leather
739 ..... Safety Belts, Flame Red
80U ..... Exterior Color, Medium Quasar Blue Metallic
81U ..... Exterior Color, Bright Red
90I ..... Interior Trim, Smoke Gray
903 ..... Trim Combination, Smoke Gray Leather
909 ..... Safety Belts, Smoke Gray
91U ..... Exterior Color, Polo Green
96U ..... Exterior Color, Dark Smoke Gray Metallic

INDEX

THE CORVETTE STORY



INTRODUCTION

Since its introduction in 1953, Corvette has offered everything a sports car must have — outstanding performance, superior handling, exquisite styling. For 1990, Corvette enhances the tradition.

The ZR-1 bursts onto the scene, combining the unmistakable Corvette silhouette with an impressive array of leading edge technology. That technology includes the Lotus-designed 32-valve engine, making the ZR-1 the fastest production car in the world.

The 1990 Corvette offers more than raw power. Engineers have added a number of refinements, including:

- A completely redesigned interior, with new instrument panel, door trim panels and console. This new interior creates the sense and feel of a "jet fighter cockpit."
- New Supplemental Inflatable Restraint System for protection during frontal impacts.

MARKET POSITION

Corvette has staked out a clear position in the market. It attracts affluent professionals, at or nearing their peak earning years. In general, they are people who want more than basic transportation.

Corvette buyers are bold, unconventional, and have a penchant for style and performance. They are achievers who very likely have reached the top rank in their field. For many buyers, owning a Corvette is a true indication that they're in the elite society. Corvette owners expect the best in everything they do — and in everything they own.

Remember, too, what influences these buyers: performance qualities such as 0 to 60 times; horsepower and cornering ability; and a perception of image.

More than the ultimate driving machine, Corvette is a reflection of owners' personalities, status and accomplishments.

*MAJOR COMPETITORS**

The list of Corvette's main competitors looks like a "Who's Who" of automotive supercars, including:

- The Corvette Coupe faces off against Porsche 944, the 944T and the new Chrysler/Maserati TC.
- Japanese sports cars may also be considered Coupe competition. These cars include: Nissan 300ZX Turbo, Mazda RX7 Turbo and Toyota Supra Turbo.
- Convertible competition consists primarily of: Cadillac Allante, Mazda RX7, Mercedes 560, Porsche 911 Cabriolet, Ferrari and Lotus Elan.
- The ZR-1 competition includes performance supercars such as: Porsche 911, 911 Carrera and 928 GT; the Ferrari Testarossa and the Lamborghini Countach.

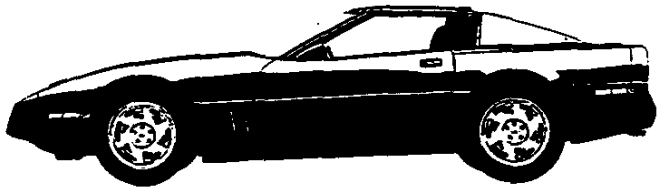
As the competition increases in the sports car field, Corvette stays miles ahead.

* Refer to *The Comparison Book* (available Dec. 1989) for specific Corvette advantages.

CORVETTE MODEL OVERVIEW

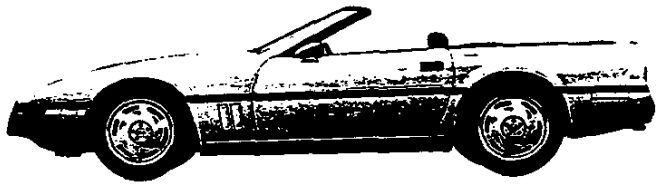
CORVETTE COUPE

The Coupe mixes tradition with new technology to offer the highest quality Corvette ever made. A substantial list of standard equipment includes the L98 5.7-liter V8 with Tuned-Port Fuel Injection for outstanding power at low and top ends. In addition, amenities such as a one-piece removable roof panel provide the open-air fun of a convertible with the lockable security of a coupe. And the totally redesigned interior adds to the car's racy feel.



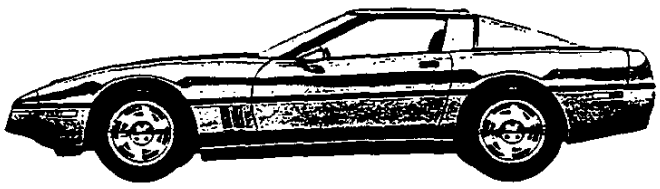
CORVETTE CONVERTIBLE

The Convertible includes all of the features of the standard Coupe, plus a manually-operated top, for the fun of open-air driving. A concealed top-well maintains Corvette's sleek appearance and a specially tuned, fully independent suspension ensures that the Convertible handles like the Corvette Coupe.

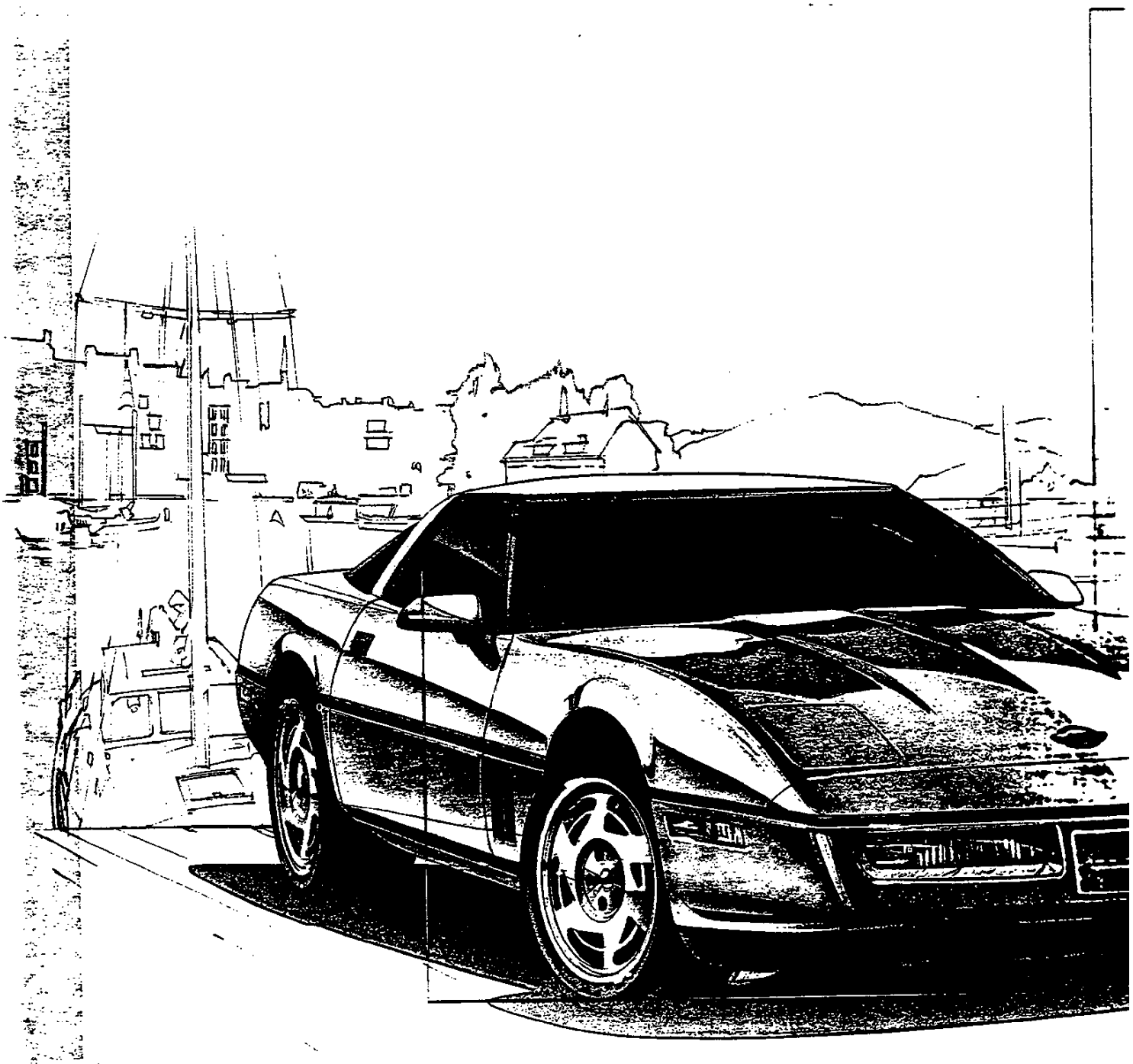


CORVETTE ZR-1 COUPE

This new 1990 special model is powered by the potent Dual Overhead Cam, 32-valve, all-aluminum 5.7-liter TPI V8. This LT5 engine produces 375 horsepower @ 5800 RPM and is teamed with the computer-controlled 6-speed manual transmission with 5th and 6th overdrive gears for efficient performance. The ZR-1 also includes: a performance handling package for optimum maneuverability; heavy-duty brakes for an extra measure of control; and P315/35ZR17 rear tires on larger 17-inch by 11-inch cast aluminum wheels for improved stability.

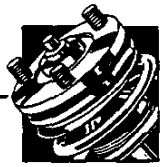


MAJOR SELLING FEATURES PRESENTATION



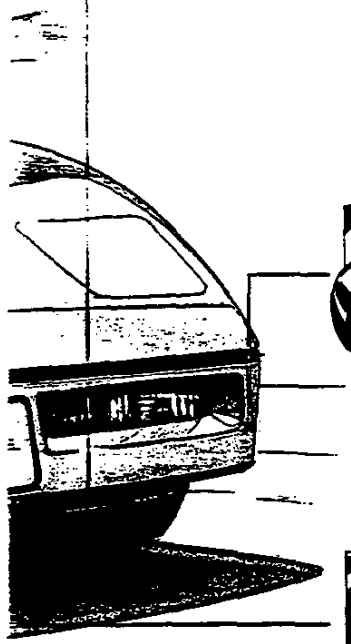
DRIVETRAIN FEATURES

The standard L98 5.7-liter TPI V8 with 245 peak horsepower is teamed with the six-speed manual transmission, providing ample power and performance to the vast majority of Corvette owners. For those with special needs, however, Corvette obliges with the high-performance ZR-1 Coupe: the only domestically produced Dual Overhead Cam, 32 valve, all aluminum engine.



CHASSIS FEATURES

To deliver the kind of handling and ride control buyers expect from a true sports car, Corvette provides standard 4-wheel independent suspension with heavy-duty Bilstein gas-pressurized shocks for consistent road manners; 13.0:1 ratio power rack-and-pinion steering for quick response and the Bosch anti-lock braking system provides excellent control.



BODY FEATURES

Unique styling is as much a part of the Corvette mystique as is its record on the track. Up front, the headlamps are concealed with electrically-controlled shrouds for protection. The body panels are made of SMC composites for corrosion protection.

INTERIOR FEATURES

A completely new interior enhances Corvette's already legendary sports car image. The instrument panel and controls enhance driver/vehicle communications, which help drivers concentrate on the road. The standard seats are Sport Cloth Buckets with optional leather trim available.

NEW FOR '90

HIGHLIGHTS

- ZR-1 High Performance Coupe available with features including:
  - — A new LT5 5.7-liter Dual Overhead Cam, 32-valve, all aluminum V8 with Tuned-Port Fuel Injection.
  - — Z51 performance handling package.
  - — Heavy-duty power disc brakes and oversize P315/35ZR17 Eagle tires on larger 17-inch by 11-inch rear wheels.
- The all new, ergonomically designed interior includes:
  - — New Supplemental Inflatable Restraint System (driver side).
  - — Center console.
  - — Lighted graphics on left-hand door and center console switches make recognition easy.
  - — New 200-watt Bose Gold Sound System features six speakers with new locations. An optional compact disc/cassette audio system is also available.
  - — Standard Scotchgard™ stain-resistant protection for cloth seats.
- In addition to the new interior, a new hybrid instrument panel is standard with the following features:
  - — A full gage package mounted on a semi-circle instrumentation pod with new Oil Life Monitors that alert the driver if the oil needs changing.
  - — Optional C68 HVAC controls now include a solar sensor for additional control over interior temperature levels.
  - — New glove box offers a convenient, lockable storage area.
- The base cooling system is upgraded so a heavy-duty option isn't required.
- One new interior color, Gray; and one new exterior color, Corvette Polo Green Metallic, will expand prospects' color choices.

DRIVETRAIN FEATURES

ENGINES

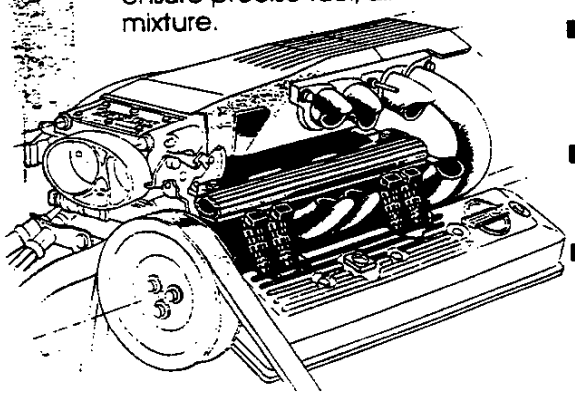
5.7-LITER V8 WITH TUNED-PORT FUEL INJECTION

The standard source of power is the proven L98 5.7-liter (350 CID) V8 with Tuned-Port Fuel Injection. Features important to the performance-minded buyer include:

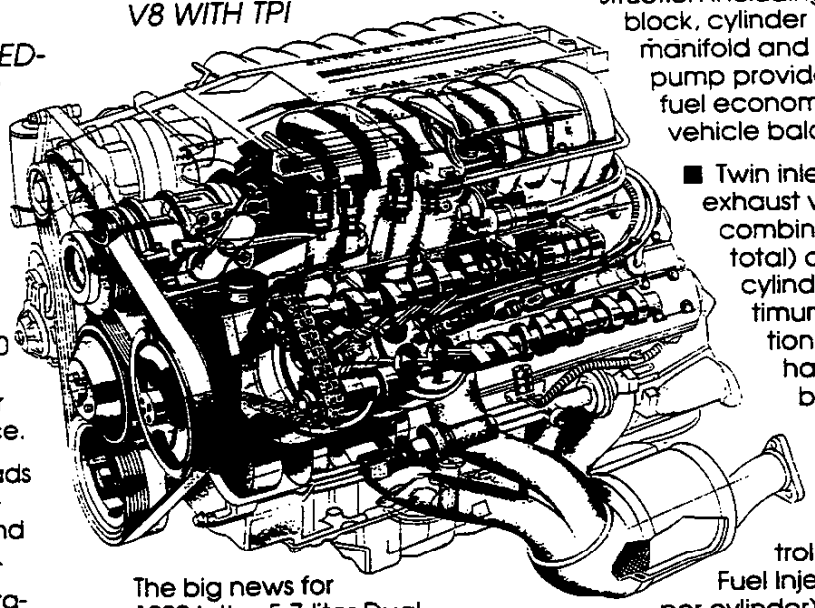
- 245 horsepower at 4000 RPM and 345 lbs.-ft. torque at 3200 RPM, for responsive performance.
- Aluminum cylinder heads and pistons, to help reduce overall weight and increase performance.
- Improved slope-back radiator design, for improved cooling.

TUNED-PORT FUEL INJECTION

This advanced-design fuel delivery system uses Multec Injectors and Tuned-Port runners. The injectors are mounted above the intake valve with one injector per cylinder. Tubular inlet runners channel air to the cylinder heads, resulting in a smooth airflow and increased engine performance. These tubular runners also contribute to a "ram" effect, forcibly moving air through the runners. The ECM computer receives inputs from over 20 sensors to ensure precise fuel/air mixture.



NEW LT5 5.7-LITER DOHC V8 WITH TPI



The big news for 1990 is the 5.7-liter Dual Overhead Cam, 32-valve all aluminum V8 (LT5), available only in the high-performance ZR-1 Coupe.

This dual-personality engine is, in fact, two engines in one. High performance and horsepower at the top end, when required, is nicely balanced by smooth and responsive low-end operation through the naturally aspirated engine. It will deliver a fuel economy rating above the federal "gas-guzzler" level and will meet all applicable emissions requirements. Highlights include:

- Cloverleaf-design fast-burn combustion chambers, to center the spark for efficient combustion of fuel.
- Dual Overhead Camshafts above each bank of cylinders, for direct lobe-to-lifter contact.
- Forged pistons, connecting rods and crankshaft for added durability.
- Cross-drilled crankshaft for superior lubrication.
- Nearly all aluminum construction including cylinder block, cylinder head inlet manifold and water pump provide better fuel economy and vehicle balance.
- Twin inlet and exhaust valve combinations (32 total) at each cylinder, for optimum induction and exhaust system breathing efficiency.
- Sixteen computer-controlled Multec Fuel Injectors (two per cylinder), to ensure precise fuel/air mixture for the full range of driving demands. After start-up, the injection system uses a sequentially modulated computer firing, to obtain precise firing at each stroke.
- Direct fire ignition system, with electronic spark control, for improved performance, fuel conservation and better driveability under varying conditions.
- Thermostatically controlled cooling and lubrication system helps extend the engine life.

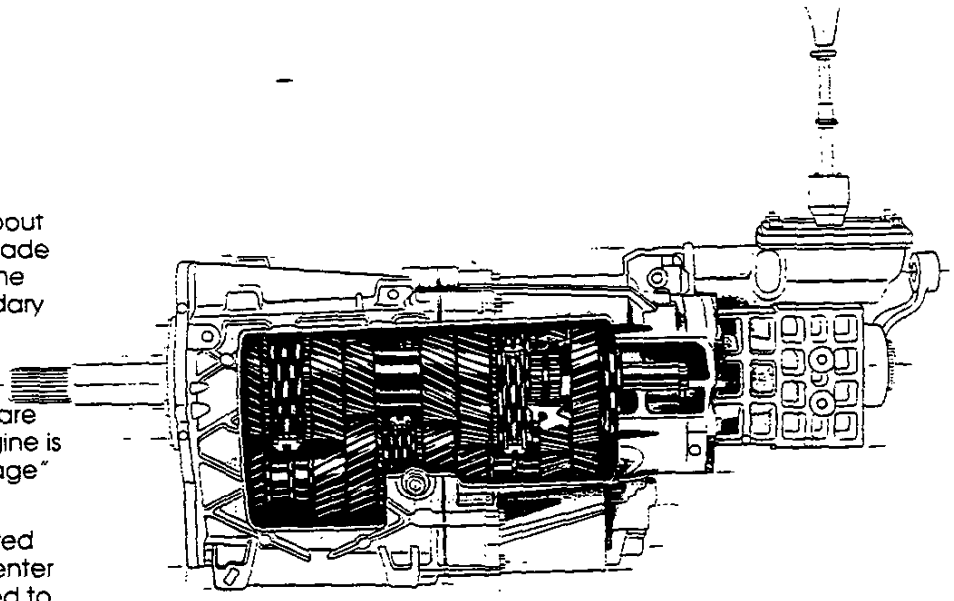
Two-Stage Design

Under normal operations like city driving and up to approximately 70 mph road load, only the primary throttle blade works eight of the sixteen injectors. This allows the engine to operate with excellent performance and efficiency for almost all driving conditions.

At full throttle, or after about 80% of primary throttle blade opening, sensors signal the ECM to open the secondary throttle inlet port blades for additional airflow. At this point the eight secondary fuel injectors are operational and the engine is at full power "second stage" mode.

A removable key-operated switch located on the center console can be activated to disable the second stage. This ensures that only the primary induction system is in operation to restrict engine output when desired.

The bottom line is that this new engine delivers outstanding power and performance at both ends of the spectrum.



TRANSMISSIONS

6-SPEED MANUAL TRANSMISSION

The 6-speed manual transmission ***(shown above)*** is available on all Corvette models for 1990 and required on the ZR-1 Coupe. Key features include:

- Fully synchronized gears (including reverse) for smooth movement up or down the speed range.
- Internal rail shift system, sealed from the elements, for easy operation, shift after shift.
- Dual pivot assembly prevents vibration from being transmitted through the transmission-mounted shifter.
- A heavy-duty pull-type clutch, with a pre-filled hydraulic actuator, accommodates the transmission's high-torque capacity.
- Computer-aided gear selection ensures the most efficient operation at all speeds. To ensure optimum fuel economy, the solenoid limits shifting into 2nd or 3rd gears during light throttle driving applications.
- A dual-mass flywheel increases engine smoothness on launch.

The gear ratios include overdrive in 5th and 6th gears for efficiency and fuel economy improvements.

4-SPEED AUTOMATIC TRANSMISSION

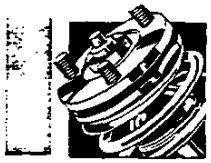
The 4-speed automatic transmission is available this year on the standard Corvette Coupe and Convertible. Its features include:

- Overdrive gearing, designed to engage at a pre-calibrated speed, lets the engine run at lower RPM at given highway speeds to enhance fuel economy.
- Once the transmission shifts into 2nd gear, a converter clutch engages to ensure a more direct linkage between the engine and transmission through all remaining forward gears, including overdrive.

POWERTEAM AVAILABILITY

ENGINE/TRANSMISSION	AVAILABILITY	ORDERING CODE	AXLE RATIO
5.7L TPI V8/4-Speed Automatic OD	Corvette Coupe — Std. Convertible — Std.	L98/MX0	2.59:1*
5.7L TPI V8/6-Speed Manual OD	Corvette Coupe — Opt. Convertible — Opt.	L98/MN6	3.33:1
5.7L TPI V8/6-Speed Manual OD	Corvette ZR-1 — Std.	LT5/MN6	3.45:1

NOTE: Sport Exhaust included on Coupes with 6-Speed Manual OD transmission and on Coupes with 4-Speed Automatic OD transmission and (G92) performance axle option.
*3.07:1 w/performance axle option (G92) on Coupe. 2.73:1 w/performance axle option (G92) on Convertible.



CHASSIS FEATURES

STEERING

Power rack-and-pinion steering is standard on all Corvette models for 1990. Designed to produce exceptional sports car handling, its features include:

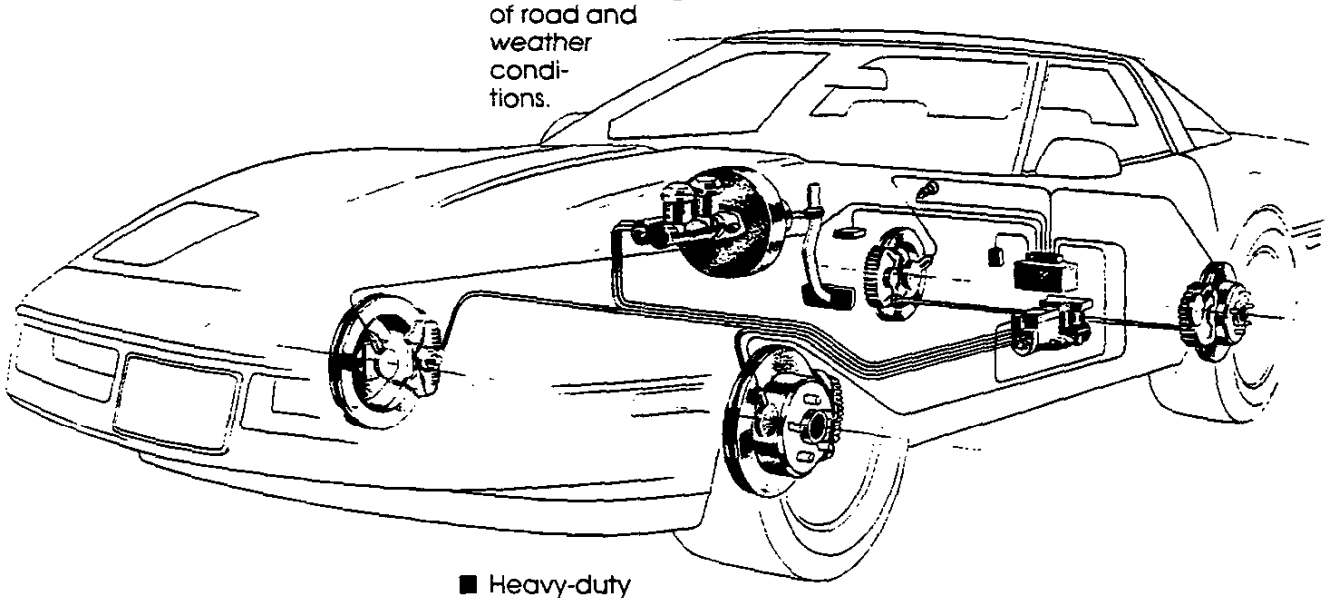
- Heavy-duty vane-type pump to ensure consistent hydraulic pressure.
- Overall ratio of 13.0:1 for quick steering response.
- 1.96 lock-to-lock turns on the Z51 handling package, for excellent turning response.
- Ability to manually steer the vehicle should hydraulic pressure drop.

STANDARD ANTI-LOCK BRAKES

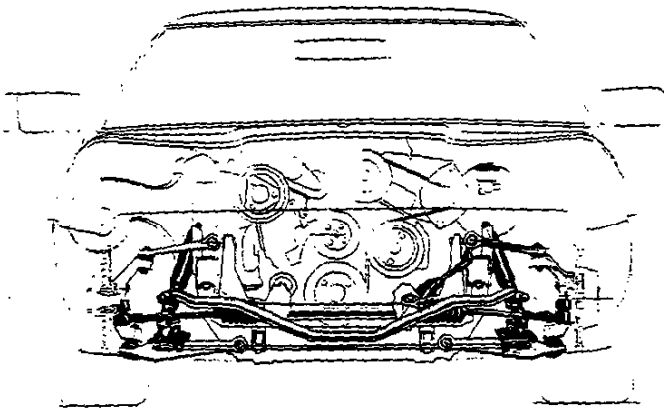
The Bosch ABS Anti-Lock Braking System helps the driver maintain vehicle maneuverability under full braking action on most road surfaces.

This advanced computer-controlled system constantly monitors the speed of each wheel as the brakes are applied. Based on signals it receives from sensors at each wheel, it makes adjustments up to 15 times per second to ensure that each pair of front and rear brakes has sufficient hydraulic pressure to do their job without lock-up. Features include:

- Standard front and rear-wheel discs provide sure response during a variety of road and weather conditions.



- Heavy-duty brakes are standard on the ZR-1 for impressive stopping response.
- Parking brake system is integral to rear discs and the handle returns to the down position when released.

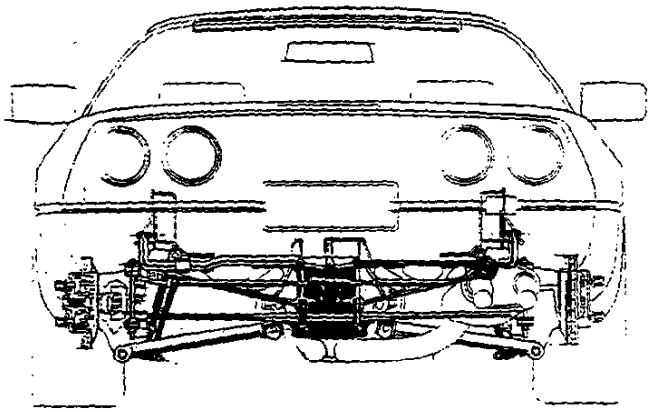


Corvette's zero-scrub radius front suspension is designed to meet — or exceed — world-class sports car standards. Its innovative features include:

- Major components made of high-strength forged aluminum alloy, to maximize strength while minimizing weight.
- Single fiberglass monoleaf springs instead of conventional coil springs, for improved ride control.
- High-strength tubular steel stabilizer bar, to enhance maneuverability.
- Heavy-duty Bilstein gas-pressurized shocks, to help ensure that tires stay in contact with the road.

Designed as the perfect complement to Corvette's front suspension, the advanced-design rear suspension includes:

- Lightweight aluminum components to ensure strength while providing weight savings.
- Lightweight fiberglass transverse springs provide excellent control while absorbing most road shocks.
- 5-link rear-wheel design provides independent wheel action for remarkable handling.



Selective Ride Control

The Selective Ride Control is standard on the ZR-1 and optional on the Base Coupe.

Utilizing SRC shock absorbers, the Selective Ride Control option allows drivers to set the suspension to meet specific driving demands. The driver selects one of three settings to determine the level of ride quality desired. The three settings are:

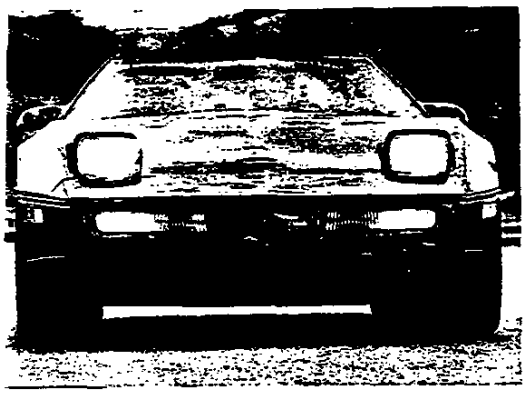
- *Tour* — Touring for the "softest," everyday driving.
- *Sport* — For a comfortable response.
- *Perf* — Or Performance for "stiff," controlled handling.

Both the setting the driver selects, and the vehicle's speed (determined through the vehicle speed sensor—VSS) indicate to the ECM the level of ride quality desired. The ECM then adjusts the damping rod in the shock absorber assemblies to any of the six valving positions within each setting, for the proper reaction.

BODY FEATURES

STYLING

The 1990 model is pure vintage Corvette. This classic sports car includes the following features:



Corvette Coupe

Corvette Coupe offers more than just great looks. Among its features are:

- Twin underhood lamps, for extra illumination.
- Clamshell hood opening for easy access to the engine compartment.
- Retractable headlamps for improved aerodynamics, and retractable glass protection.
- Dual Halogen fog lamps provide added illumination and a stylish appearance.
- Windshield angled 64 degrees for rakish appearance and enhanced aerodynamics.
- One-piece removable roof panel allows open-air driving or closed Coupe quiet and security.
- Rear stop lamp is mounted high atop the frameless glass hatch for improved visibility from the rear.
- Full-opening glass hatch has concealed hinges for an improved appearance.
- Gas filler is concealed, to enhance smooth styling.
- 20-gallon fuel tank with a positive displacement roller vane electric fuel pump, for dependable performance.
- Clear lenses on rear side marker lamps, for improved visibility.
- Power outside mirrors are heated for unimpaired vision to the rear in inclement weather.
- P275/40ZR17 Goodyear unidirectional Eagle tires are standard on the Coupe and Convertible for excellent traction and response.
- 17-inch by 9 1/2-inch Cast Aluminum Wheels are corrosion-resistant and show a distinctive appearance.
- Wheel-bolt locks are standard for added security.

Corvette Convertible

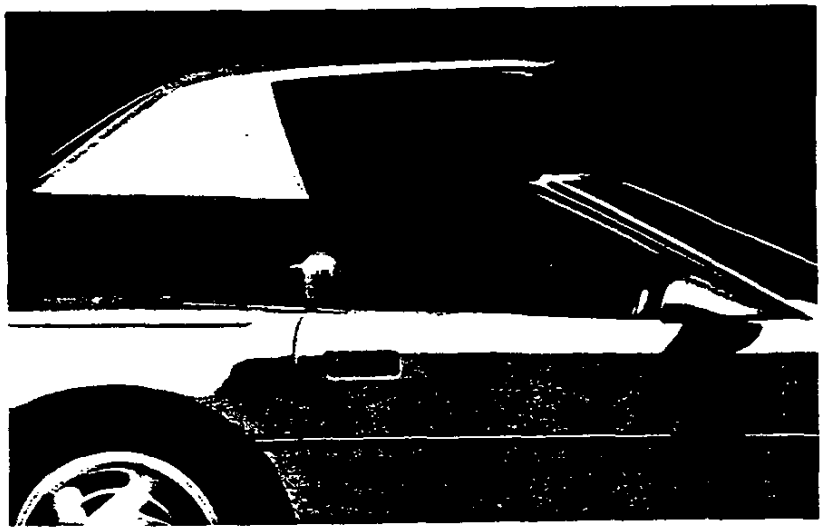
Over and above the features of the standard Coupe, the Convertible offers:

- A manually operated soft top with headliner and acrylic rear window. The top is available in Black, Saddle or White.
- A Convertible hardtop option is available. With this feature the entire 58-lb. fiberglass roof is color-keyed and can be removed or attached as needed.

Corvette ZR-1 High-Performance Coupe

The high-performance 32-valve engine is the major story, but the ZR-1 has other charms, such as:

- Massive P315/35ZR17 rear tires provide the highest performance required of a street machine.

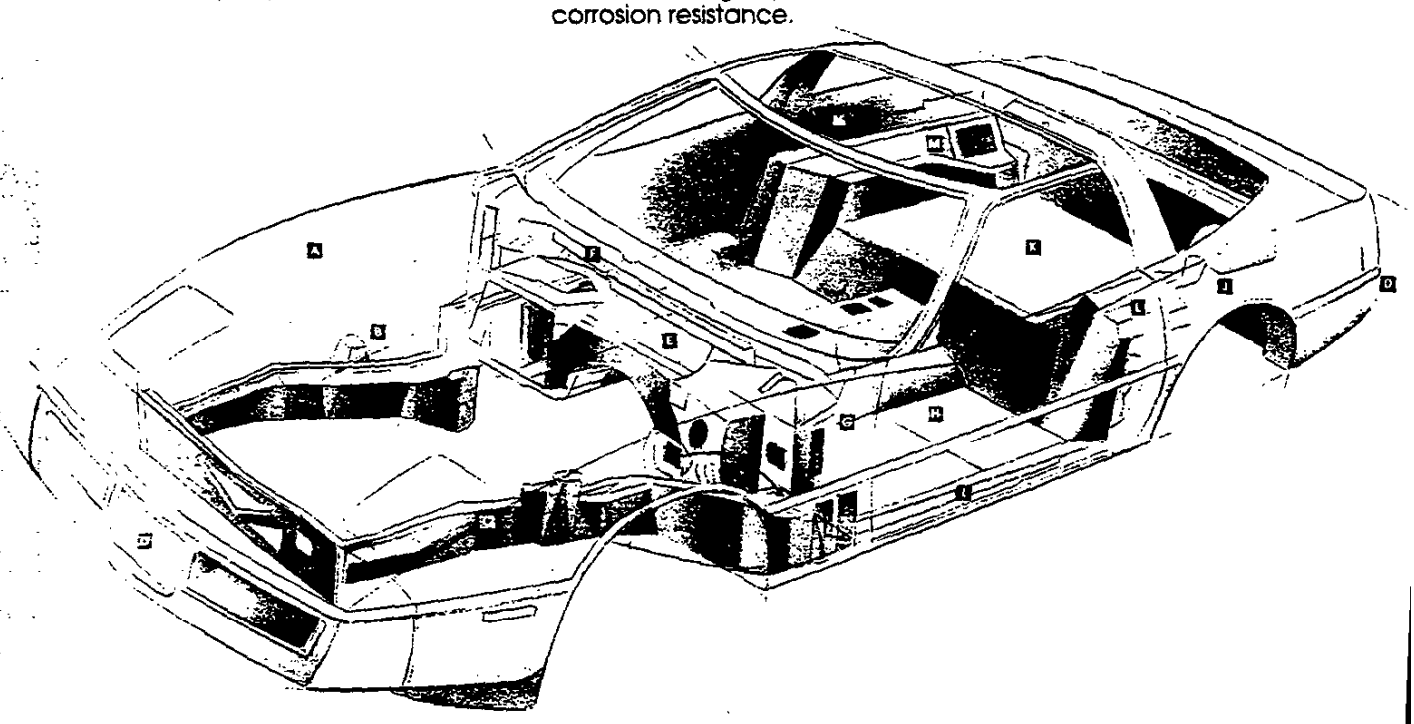


- The tires are mounted on 17-inch by 11-inch lighter weight aluminum rear wheels.
- Flared quarter panels in the rear and convex rear fascia help add to the exterior appearance.
- Reflective rectangular tail lenses and ZR-1 identification badge help other drivers identify what has passed them by.
- Dual exhausts are longer than the standard exhausts and are square-tipped for a more sporty flair.

BODY PROTECTION FEATURES

To provide the staying power that all destined-to-become-classic sports cars are famous for, Corvette offers:

- A Lightweight fiberglass body panels that, unlike metal panels, are corrosion-free.
- B High-gloss acrylic enamel basecoat with clearcoat finish, for gleaming good looks.
- C Integral perimeter frame of two-sided galvanized steel, for structural rigidity and corrosion resistance.
- J Sill area noise-control adhesive pads.
- K Rear quarter pocket insulators.
- L Cargo area insulator pads.
- M Noise-control blocks to help diminish road noise.
- N Rear wheelhousing/ sidewall pads.
- O Sidewall and cargo area insulator pads.



- D Concealed energy-absorbing front and rear bumpers, to resist scrapes and dings.
- E Transmission sound deadener for a quieter ride.
- F Cowl-area insulation.
- G Under-dash insulation and sound absorption.
- H Body floor insulator pads.

INTERIOR FEATURES

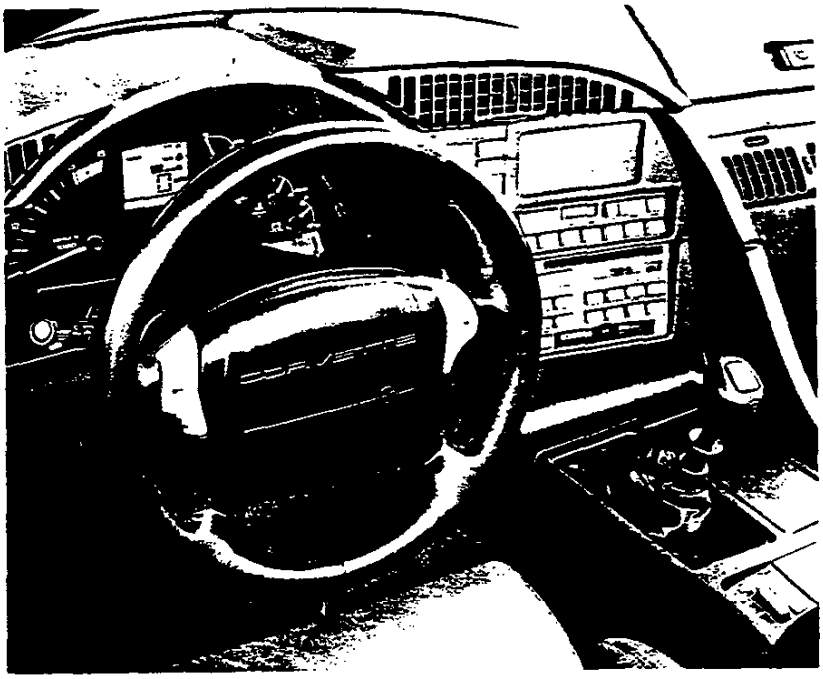
THE COMFORT AND CONVENIENCE STORY

Completely New Interior

The interior is "ergonomically" correct, which means that it has been scientifically designed for human comfort. Seats are deeply contoured for firm lateral support and feature reclining seatbacks for a higher degree of comfort. Standard cloth buckets or optional leather-trimmed buckets include a wool-pad liner for maximum comfort and support. For even greater luxury, optional leather adjustable sport buckets are available with power six-way adjustment.

Some interior appointments include:

- Roller shade-type cargo cover and twin-covered storage bins for secure cargo carrying and neat appearance.
- Body vent pressure system for refreshing ventilation of the cockpit.
- Rear hatch release at each door and in console allows fingertip actuation.
- PASS-Key® Anti-Theft System disables the starter and fuel delivery systems if the wrong key is tried in the ignition.
- Standard air conditioning cools and dehumidifies the interior as desired.
- New glove box offers convenient lockable storage area.
- Electronic speed control with resume speed allows fingertip control to maintain a steady speed.



- Power door locks and window controls for button-touch convenience.
- Intermittent wiper system lets the driver control the speed of the windshield wipers.
- Leather steering wheel adds a sporty flair.
- The steering wheel has the air bag Supplemental Inflatable Restraint System which, in conjunction with safety belts, adds to driver protection.

The combined appearance of the instrumentation, console, information center controls, heater and air conditioner controls, and the six-speaker Bose audio system makes Corvette's well-appointed interior look even more like a jet fighter cockpit than before.

T PANEL

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controls are
ed on the driver's

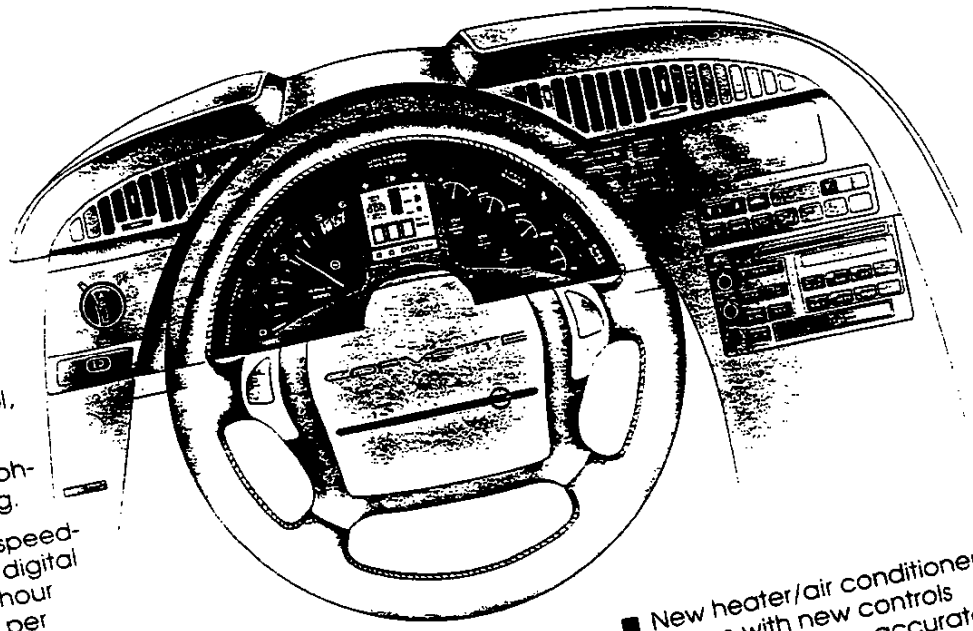
enter console, with
gned driver and
nger power seat
ols, selective ride
rols (where avail-
e), and disc/cassette
age space.

w fog lamp switch.

ew headlamp control,
r easy identification.

ew tachometer graph-
cs for easy monitoring.

New fuel gage and speed-
ometer graphics for digital
display of miles per hour
(MPH) or kilometers per
hour (Km/h).



- New analog and digital gages, including oil temperature and pressure, voltage and coolant temperature for easy checking of vehicle's operating systems.
- New driver alert lights with a "change oil" and "check gages" service messages.
- New trip computer for specific mileage reference.
- Driver information center alerts driver of specific vehicle functions such as: full engine power, low tire pressure, low coolant, service ride select, inflatable restraint, service-engine-soon, battery light and service anti-lock brakes.
- New heater/air conditioner system with new controls and graphics, for accurate temperature settings. The (C68) optional Electronic Air Conditioning controls allow digital temperature setting for precise climate control. LEDs indicate pushbutton operation.
- New Bose Gold AM/FM Stereo System with six speakers, for sound clarity and quality. Optional compact disc and cassette player provides leading-edge sound reproduction. Speed Compensated Volume reacts to the vehicle's speed and adjusts the volume up or down as required (refer to the *Sound Systems Tab* for more information).

COLOR AND TRIM SELECTION

SEAT STYLES & TRIM COMBINATIONS

Model	Seat Type	Interior Colors: Blue	Black	Gray	Red	Saddle
Corvette Coupe	Cloth Bucket		HBB2			HUU2
	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
	Leather Adjustable Sport Bucket*	ADD8	ABB8	AQQ8	ARR8	AUU8
Corvette Convertible	Cloth Bucket		HBB2			HUU2
	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
ZR-1 Coupe	Leather Adjustable Sport Bucket*	ADD8	ABB8	AQQ8	ARR8	AUU8

CORVETTE COUPE AND ZR-1 CORVETTE COUPE (EXTERIOR/INTERIOR COMBINATIONS)

Exterior Paint Color	Color Code	Interior Colors: Blue	Black	Gray	Red	Saddle
Black	41	X	X	X	X	
Blue, Steel (Met.)	25		X			
Charcoal (Met.)	96		X	X		
Green, Polo (Met.)	91					X
Red, Bright	81		X	X	X	X
Red, Dark (Met.)	68		X			X
White	10	X	X	X	X	X

CORVETTE CONVERTIBLE (EXTERIOR/INTERIOR COMBINATIONS)

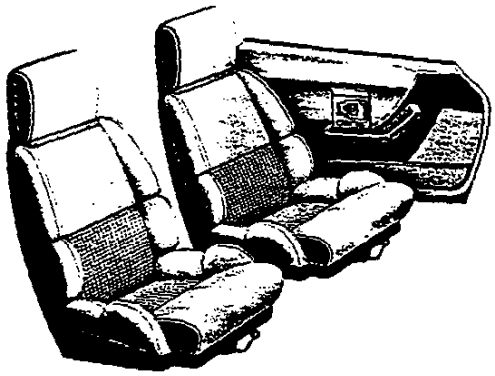
Exterior Paint Color	Color Code	Interior & Convertible Top Colors: Blue	Black	Gray	Red	Saddle
Black	41	19T	10T/19T	10T/19T	19T	
Blue, Steel (Met.)	25		10T/19T			
Charcoal (Met.)	96		10T/19T	10T/19T		
Green, Polo (Met.)	91			10T/19T		19T/67T
Red, Bright	81		10T/19T	10T/19T	10T/19T	19T/67T
Red, Dark (Met.)	68		10T/19T			19T/67T
White	10	10T	10T/19T	10T/19T	10T/19T	10T/67T
Convertible Top Colors	White 10T		Black 19T		Saddle 67T	

*Reauires RPO AC1 and AC3 Power Seats ana Z51 Performance Handling Package.

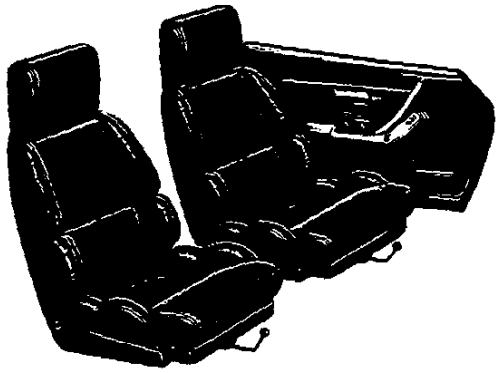
WHEELS AND WHEEL COVERS

17-inch by 9 1/2-inch Cast Aluminum Wheels are standard on the Coupe and Convertible for 1990. Larger 17-inch by 11-inch Cast Aluminum Wheels are only available for the rear wheels of the high-performance ZR-1 Coupe.

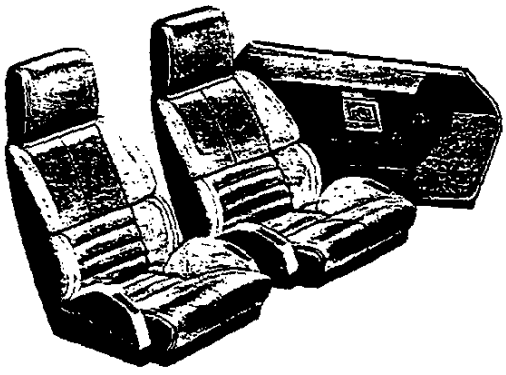
SEAT AND DOOR TRIM



The Corvette Coupe and Convertible have standard cloth-contoured bucket seats with integral head restraints, seatback recliner and wool-pad comfort liner. Color-keyed carpeting covers the lower door panel.

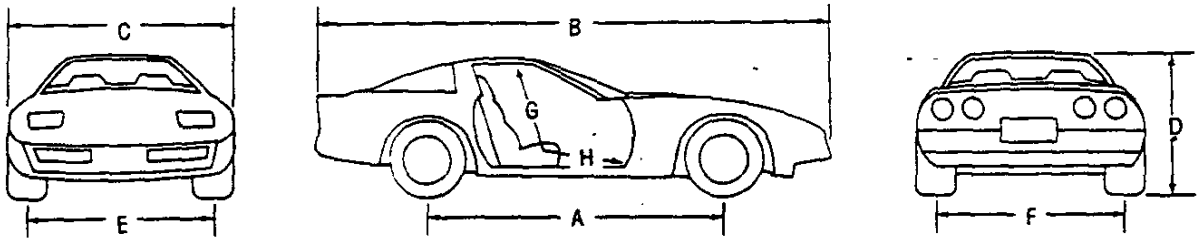


Optionally available on the Convertible and Coupe models are reclining bucket seats with leather seating surfaces, integral head restraints and wool-pad comfort liner.



Standard on the ZR-1 and optional on the Coupe are Sport adjustable buckets with leather trim. Both driver and passenger seats feature full power adjustments for lumbar and backrest.

SPECIFICATIONS AND DIMENSIONS



DIMENSIONS

Exterior Dimensions (in.)	Coupe	Convertible	ZR-1 Coupe
A Wheelbase	96.2	96.2	96.2
B Length (overall)	176.5	176.5	177.4
C Width (overall)	71.0	71.0	73.2
D Height (overall)	46.7	46.7	46.8
E Tread — front	59.6	59.6	59.6
F Tread — rear	60.4	60.4	61.9
Minimum ground clearance	4.7	4.7	4.7
Interior Roominess (in.)			
G Headroom — front	36.5	36.5	36.5
H Legroom — front	42.6	42.6	42.6
Shoulder room — front	53.8	53.8	53.8
Hip room — front	49.3	49.3	47.3
Luggage Compartment Capacity			
Usable luggage space (cu. ft.)	17.9	6.6*	17.9
Rated Fuel Tank Capacity (gallons)	20.0	20.0	20.0
Curb Weight (approx. pounds)	3255	3301	3479

CHASSIS SPECIFICATIONS

Brakes	Base	Convertible	ZR-1
Type	4-Wheel vented disc dual piston	4-Wheel vented disc dual piston	4-Wheel vented disc dual piston
Disc rotor dia. F/R (in.)	12.0/12.0	12.0/12.0	13.0/13.0
Steering			
Type	Power-assisted rack-and-pinion	Power-assisted rack-and-pinion	Power-assisted rack-and-pinion
Turning diameter curb-to-curb (ft.)	40.0	40.0	40.0
Lock-to-lock turns	2.36	2.36	1.96
Suspension — Front			
Type	MacPherson strut with coil springs	MacPherson strut with coil springs	MacPherson strut with coil springs
Suspension — Rear			
Type	5-Link Independent	5-Link Independent	5-Link Independent

*With top up, 4.2 cu. ft. with top down.

ENGINE SPECIFICATIONS

	5.7-Liter V8 (RPO LT5)	5.7-Liter V8 with TPI (RPO L98)
Engine type	90° V8 DOHC 32-Valve	90° V8-OHV
Displacement (cu. in.)	350	350
Bore and stroke (in.)	3.90 x 3.66	4.00 x 3.48
HP* @ RPM	375 @ 5800	245 @ 4000**
Torque* @ RPM (lbs.-ft.)	370 @ 5000	345 @ 3200**
Compression ratio	11.0:1	9.5:1
Fuel induction	Tuned-Port Fuel Injection (TPI)	Tuned-Port Fuel Injection (TPI)
Tailpipe(s)	Dual	Dual
Ignition system	12-volt high energy ignition	12-volt high energy ignition
Delcotron generator	120 amp	105 amp
Battery (SAE capacity rating)	630 cca	630 cca
Cooling system capacity (qts.)	16.7	14.6 manual, 14.5 automatic

TRANSMISSION SPECIFICATIONS

Type	4-Speed Automatic (MX0)	6-Speed Manual (MN6)
Case material	Aluminum	Aluminum
Gear ratios :1		
1st gear	3.06	2.68
2nd gear	1.63†	1.80
3rd gear	1.00†	1.31
4th gear	0.70†	1.00
5th gear	—	0.75
6th gear	—	0.50
Reverse	2.29	2.50

*SAE net.
**250 horsepower and 350 lbs.-ft. of torque with Sport Exhaust. Refer to Powerteam Availability for restrictions.
†Converter clutch engagement.

EQUIPMENT SUMMARY

MECHANICAL	CORVETTE Corvette Coupe	CORVETTE Corvette Conv.	CORVETTE Corvette ZR-1
POWERTEAM FEATURES			
Styled engine compartment	S	S	S
5.7L (350 CID) V8 L98 engine	S	S	NA
5.7L (350 CID) DOHC 32-Valve LT5 engine	NA	NA	S
Outside air induction system	S	S	S
Aluminum intake plenum, tuned crossover runner manifold	S	S	S
Roller hydraulic valve lifters	S	S	S
Exhaust valve rotators	S	S	S
Aluminum cylinder heads	S	S	S
Magnesium rocker covers	S	S	S
Stainless steel exhaust manifolds	S	S	S
Dual reverse flow mufflers	S	S	S
Single serpentine accessory drive belt	S	S	S
Computer Command Control	S	S	S
High energy ignition (HEI) system	S	S	S
Electric engine cooling fan	S	S	S
Delco Freedom maintenance-free battery	S	S	S
Underhood lamps	S	S	S
4-Speed automatic transmission with overdrive	S	S	NA
6-Speed manual transmission with overdrive	O	O	S
CHASSIS FEATURES			
Power-assisted rack-and-pinion steering	S	S	S
Power-assisted 4-wheel disc brakes	S	S	S
Anti-lock Brake System (ABS)	S	S	S
Monoleaf gloss-epoxy composite transverse front and rear springs	S	S	S
Delco/Bilstein gas-charged shock absorbers	S	S	S
Forged aluminum front and rear suspension arms	S	S	S
Full independent suspension	S	S	S
Zero-scrub front suspension	S	S	S
FX3 Selective Ride Control	O	NA	S
20-gallon fuel tank with electric in-tank twin turbine pump	S	S	S
TIRES/WHEELS			
17" x 9-1/2" Cast aluminum wheels	S	S	S*
P275/40ZR17 Eagle tires	S	S	S**
BODY FEATURES			
Uniframe-design body structure with corrosion-resistant coating	S	S	S
Corrosion-resistant fiberglass body panels	S	S	S
Lightweight underbody panels	S	S	S
Power-operated quartz-Halogen retractable headlamps	S	S	S
Dual quartz-Halogen fog lamps in grille opening	S	S	S
Body-color soft front and rear fascias	S	S	S
Energy-absorbing bumper system	S	S	S
Front cornering lamps	S	S	S
Front fender louvers	S	S	S
Full-tilting "clamshell" hood and fender assembly	S	S	S
Concealed wipers with integral washers in arms	S	S	S

S—Standard O—Optional NA—Not Available

*Includes 17" x 11" wheels on rear.

** Includes P315/35ZR17 tires on rear

EXTERIOR	CORVETTE Corvette Coupe	Corvette Conv.	Corvette ZR-1
BODY FEATURES			
Dual electric remote-control heated sport mirrors	S	S	S
Designed-in body side moldings	S	S	S
Single fiberglass removable roof panel	S	NA	S
Folding convertible top with aluminum framework	NA	S	NA
Hinged top stowage-well panel cover	NA	S	NA
Frameless rear hatch glass with three remote releases (one on each door panel, one on instrument panel)	S	NA	S
Power automatic retracting antenna	S	S	S
Center high-mount stop lamp	S	S	S
Clear lens illuminating rear marker lamps	S	S	S
INTERIOR			
INSTRUMENT PANEL/CONTROLS/CONSOLE			
Analog gages for: tachometer, oil pressure, oil temperature, coolant temperature and voltmeter	S	S	S
Electronic liquid-crystal display for: *speedometer, odometer, trip* odometer and fuel	S	S	S
Warning lights	S	S	S
Driver information system; includes instant mpg, average mpg and range in digital readouts	S	S	S
PASS-Key anti-theft ignition	S	S	S
Air conditioning	S	S	S
Headlamps-on reminder	S	S	S
Intermittent wiper system	S	S	S
Electronic speed control with resume speed	S	S	S
Side window defoggers	S	S	S
Illuminated RH and LH visor mirrors	S	S	S
Inside hood release	S	S	S
Under-dash courtesy lamps	S	S	S
Delco Bose Gold AM/FM Stereo Radio with Seek/Scan, Cassette, Digital Clock and four speakers	S*	S*	S
Leather-wrapped tilt steering wheel	S	S	S
Day/night rearview mirror with integral map lamps	S	S	S
Center console with lighted lockable storage compartment	S	S	S
Driver side Supplemental Inflatable Restraint System	S	S	S
SEATS/DOOR PANELS			
Contour-shell cloth bucket seats with lateral support and back angle adjustment	S	S	S
Soft-padded and carpeted door panels	S	S	S
Power windows and door locks	S	S	S
High-intensity interior lamps on door and pillar (Coupe) or in rear compartment (Conv.)	S	S	S
Scotchgard™ fabric protector included with cloth seats	S	S	S
LUGGAGE/CARGO AREA			
Deep-twist floor and stowage area carpet	S	S	S
Rear underfloor storage compartments (2)	S	S	S
Acoustical insulation package	S	S	S
Luggage compartment concealment roller shade	S	NA	S

S—Standard O—Optional NA—Not Available

*AM/FM Stereo Radio with Seek Scan Stereo Cassette Tape Player and Digital Clock with base vehicle groups only

PREFERRED EQUIPMENT GROUPS

Packaged Options (not available individually unless indicated)	Corvette Coupe CVA1	Corvette Convertible CYA1	Corvette ZR-1 CZA1
Electronic Air Conditioning	X*	X*	X
Power Seat (Driver's)	X*	X*	X
RADIO EQUIPMENT			
Delco**/Bose Gold Music System	X*	X*	
Delco**/Bose Gold Music System with Digital Compact Disc and Cassette Player	O	O	X
ADDITIONAL INDIVIDUAL OPTIONS			
Performance Ratio Axle	O**	O**	
Engine Block Heater	O	O	
Low Tire Pressure Warning	O	O	O
Performance Handling Package	O**		S
Power 6-Way Seat (Passenger's)	O	O	O
Roof Panels — Transparent Removable — Blue Tint	O		O
Roof Panels — Transparent Removable — Bronze Tint	O		O
Roof Package (Incls. Standard Solid Panel and Transparent Blue or Bronze Tint Panels)	O		O
Electronic Selective Ride Control and Handling (Reqs. Z51)	O		S
Luggage Carrier (Black)		O	
Hardtop, Removable		O	

S—Standard X—Included in Preferred Equipment Group O—Individual Option Availability

NOTE: Not to be used for ordering. Refer to Order Guide for current usage and availability.

Refer to the Sound Systems Tab for more detailed radio information.

*Also available as an individual Option with Base Vehicle Group.

**See Order Guide for content and powerteam restrictions.

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1990

Manufacturer	Chevrolet Motor Division General Motors Corporation	Vehicle Line	CORVETTE
Mailing Address	Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, Michigan 48090-9060	Issued	June, 1989
		Revised	September, 1989

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 Motor Vehicle Manufacturers Association of the United States, Inc.

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.

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Motor Vehicle Manufacturers Association
of the United States, Inc.

Blank Forms Provided by Technical Affairs Division

FORM MVMA-90

MVMA Specifications

METRIC (U.S. Customary)

Table of Contents

O Indicates Format Change From Previous Year

NOTE:

1. This form uses both SI metric units and U.S.Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
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) specs. 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 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

o Vehicle Origin

Design & development (company)	Chevrolet-Pontiac-GM of Canada
Where built (country)	U.S.A.
Authorized U.S. Sales marketing representative	Chevrolet Motor Division

o Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
CORVETTE				
2-Door Coupe (RWD)		1YY07	2 (2/0)	45.4 (100)
2-Door Convertible (RWD)		1YY67	2 (2/0)	45.5 (100)
2-Door Coupe (RWD) (SPECIAL PERFORMANCE/ZR1)		1YZ07	2 (2/0)	45.5 (100)

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)
Power Teams

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

			A	B	C	D
ENGINE	Engine Code		L98	L98	L98	L98
	Displacement Liters (cu. in.)		5.7 (350)	5.7 (350)	5.7 (350)	5.7 (350)
	Induction system (FI, Carb, etc.)		Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection
	Compression ratio		9.5:1	9.5:1	9.5:1	9.5:1
	SAE Net at RPM	Power kW (bhp)	186 (250) @ 4400	183 (245) @ 4000	186 (250) @ 4400	183 (245) @ 4000
		Torque Newton meters (lb.ft.)	474 (350) @ 3200	468 (345) @ 3200	474 (350) @ 3200	468 (345) @ 3200
	Exhaust Single, dual		Dual	Dual	Dual	Dual
TRANS	Transmission/ Transaxle		ML9 Manual Transmission 6-Speed	MD8 Automatic Transmission 4-Speed	MD8 Automatic Transmission 4-Speed	MD8 Auto Transmission 4-Speed
	Axle Ratio (std. first)		3.33	2.59	3.07	2.73

Series Availability		Power Teams (A – B – C – D)	
Model	Code	Standard	Optional
CORVETTE			
2-Dr. Coupe	1YY07	B	A, C
2-Dr. Convertible	1YY67	B	D, E
2-Dr. Coupe (Special Performance/ZR1)	1YZ07	F	

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)
Power Teams

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

			E	F	G	H
ENGINE	Engine Code		L98	LT5		
	Displacement Liters (cu. in.)		5.7 (350)	5.7 (350)		
	Induction system (FI, Carb, etc.)		Multi-Port Fuel Injection	Multi-Port Fuel Injection		
	Compression ratio		9.5:1	11.0:1		
	SAE Net at RPM	Power kW (bhp)	183 (245) @ 4000	280 (375) @ 5800		
		Torque Newton meters (lb.ft.)	468 (345) @ 3200	502 (370) @ 4800		
	Exhaust Single, dual		Dual	Dual		
TRANS	Transmission/ Transaxle		M19 Manual Transmission 6-Speed	M19 Manual Transmission 6-Speed		
	Axle Ratio (std. first)		3.33	3.45		

Series Availability		Power Teams (A – B – C – D)	
Model	Code	Standard	Optional

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO L98

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group – G.M. Corporation
No. of cylinders		8
Bore		101.6 mm (4.00 in.)
Stroke		88.4 mm (3.48 in.)
Bore spacing (C/L to C/L)		111.8 mm (4.40 in.)
Cyl blck matl & mass kg(lbs.)(machined)		Cast Iron, 68.674 (151.5)
Cylinder block deck height		229.4 mm (9.025 in.)
Cylinder block length		506.2 mm (19.93 in.)
Deck clearance (minimum) (above or below block)		.025 Below
Cyl. head material & mass kg (lbs.)		Cast Iron, 19.800 (43.7)
Cylinder head volume (cu. cm.)		55.9
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		1.245 mm (.049 in.)
Minimum combustion chamber total volume (cm. cu.)		75.47 Combustion Chamber With Piston At Top Dead Center And All Components In Place Torqued To Specifications.
Cyl. no. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass[kg(lbs.)]**		Cast Aluminum, 6.117 (13.5)
Exh. manifold matl & mass (kg (lbs.)]**		Iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		91
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	Crossmember Mounted
Total dressed engine mass (wt) dry***		252.8 kg (557 lbs.)

Engine – Pistons

Material & mass, g (weight, oz.) – piston only	Impacted Cast Aluminum, .540 (1.2)

Engine Camshaft

Location		In Cylinder Block "V" Above Crankshaft
Material & mass kg (weight, lbs.)		Steel, 4.200 (9.3)
Drive type	Chain/belt	Chain
	Width/pitch	15.976 x 12.7 mm (.625 x .5 in.)

*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:

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description
Engine Code

5.7 LITER V8 (350 CID)
MULTI-PORT FUEL INJECTION RPO LT5

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group – G.M. Corporation
No. of cylinders		8
Bore		99mm (3.90 in.)
Stroke		93mm (3.66 in.)
Bore spacing (C/L to C/L)		111.8mm (4.40 in.)
Cyl blck matl & mass kg(lbs.)(machined)		Aluminum Alloy
Cylinder block deck height		229.24mm (9.03 in.)
Cylinder block length		506.2mm (19.93 in.)
Deck clearance (minimum) (above or below block)		
Cyl. head material & mass kg (lbs.)		Aluminum Alloy, 34.01 (75)
Cylinder head volume (cu. cm.)		Not Available
Cylinder liner material		Forged Aluminum Extrusion
Head gasket thickness (compressed)		
Minimum combustion chamber total volume (cm. cu.)		40cc (2.44 cu. in.)
Cyl. no. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass[kg(lbs.)]***		Cast Aluminum
Exh. manifold matl & mass [kg (lbs.)]***		Stainless Steel, 14.97 (33)
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		91
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Hydraulic
	Added isolation (sub-frame, crossmember, etc.)	–
Total dressed engine mass (wt) dry***		270.5 kg. (596 lbs.)

Engine – Pistons

Material & mass, g (weight, oz.) – piston only	Cast Aluminum, 6.35 (14)

Engine Camshaft

Location		In Cylinder Head Above Valves
Material & mass kg (weight, lbs.)		9.07 (20) Induction Hardened Cast Iron
Drive type	*Chain/belt*	Chain
	Width/pitch	

*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:

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	8/8
	Head O.D. intake/exhaust	49.28 mm (1.94 in.) / 38.10 mm (1.50 in.)

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Steel, .388 (.85)
Length(axes centerline to centerline)	144.78 mm (5.79 in.)

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]*		Nodular Cast Iron, 23.360 (51.50)
End thrust taken by bearing (no.)		5
Length & number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	Fluroelastomer / One Piece, Lip Seal
	Rear	Fluroelastomer / One Piece, Lip Seal

Engine – Lubrication System

Normal oil pressure[kPa(psi) @ eng rpm]	41 (6) @ 1000/124 (18) @ 2000/165 (24) @ 4000 (Hot)
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow,part, other)	Full Flow
Capacity of c/case,less filter-refill-L (qt.)	3.8 (4.0)

Engine – Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0 deg. F		
Injector Nozzle	Type	
	Opening pressure[kPa(psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel inj. 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 CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	16/16
	Head O.D. intake/exhaust	39mm (1.54 in.) / 35.2mm (1.39 in.)

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]*	
Length(axes centerline to centerline)	145.8 mm (5.74 in.)

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]*		Nitrided Forged Steel, 24.94 (55)
End thrust taken by bearing (no.)		5
Length & number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	Fluroelastomer / One Piece Lip Seal
	Rear	Fluroelastomer / One Piece Lip Seal

Engine – Lubrication System

Normal oil pressure[kPa(psi) @ eng rpm]	345-450 (50-60) @ 2000
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow,part, other)	Full Flow
Capacity of c/case,less filter-refill-L (qt.)	8.55 (9)

Engine – Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0 deg. F		
Injector Nozzle	Type	
	Opening pressure[kPa(psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel inj. 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 CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO L98

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)		Standard
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery
Radiator cap relief valve pressure [kPa (psi)]		124.1 (18.0)
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open @ deg's C(F)	90.6 (195)
Water Pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	13
	Number of pumps	1
	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)*
	Bearing type	Sealed Double Row Ball
	Impeller material	Steel
	Housing material	Cast Aluminum
By-pass recirculation [type (inter., ext.)]		Internal
Cooling system capacity	With heater - L (qt.)	--
	With air conditioner-L(qt.)	Manual 13.86 (14.65), Automatic 13.73 (14.51)
	Opt. equip.[specify-L(qt.)]	--
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
	Matl., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks
	Width	599.5 mm (23.6 in.)
	Height	382.4 mm (15.0 in.)
	Thickness	23.5 mm (0.9 in.) Base, 34.0 mm (1.3 in.) V01
	Fins per inch @	2.5
Radiator end tank material		Plastic
Fan	Std., elec., opt.	Electric, Standard
	Number of blades & type (flex, solid, material)	5-Blades, High Efficiency Curved Blades And Ring Shroud, Plastic
	Diameter & projected width	423.0 mm (16.7 in.)
	Ratio(fan to crnkshft.rev.)	--
	Fan cutout type	Temp. Switch
	Drive type (direct, remote)	Electric
	RPM at idle (elec.)	2100
	Motor rating(wattage)(elec)	150
	Motor switch (type & location) (elec.)	Temp. Switch
	Switch point (temp., pressure) (elec.)	106 deg. C.
	Fan shroud (material)	Plastic Ring Shroud

@ - Distance Between Top Of Fins.

* - 21.36mm (0.84") Wide, 5.20mm (0.20") Thick With Uniform Dynamic Tensioner.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LT5

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)		Standard
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery
Radiator cap relief valve pressure [kPa (psi)]		117.2 (17.0)
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open @ deg's C(F)	83.7 (180)
Water Pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	12
	Number of pumps	1
	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)
	Bearing type	Sealed Double Row Ball
	Impeller material	Steel
	Housing material	Cast Aluminum
By-pass recirculation [type (inter., ext.)]		Internal
Cooling system capacity	With heater - L (qt.)	Not Applicable
	With air conditioner-L(qt.)	15.81 (16.7)
	Opt. equip.[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)		Yes
Radiator core	Std., A/C, HD	A/C Standard
	Type (cross-flow, etc.)	Cross-Flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube
	Matl., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks
	Width	
	Height	
	Thickness	34 (1.34)
	Fins per inch	
Radiator end tank material		Plastic
Fan	Std., elec., opt.	Electric, Standard
	Number of blades & type (flex, solid, material)	5 Blades High Efficiency Curved Blades And Ring Shroud Plastic
	Diameter & projected width	299mm (11.77 in.)
	Ratio(fan to crnkshft.rev.)	Not Applicable
	Fan cutout type	Temp Switch
	Drive type (direct, remote)	Electric
	RPM at idle (elec.)	2100
	Motor rating(wattage)(elec)	(150)
	Motor switch (type & location) (elec.)	Temp Switch
	Switch point (temp., pressure) (elec.)	106 deg. C.
	Fan shroud (material)	Plastic Ring Shroud

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO L98

Engine – Fuel System (See supplemental page for details of Fuel Inj, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		TPI – Tuned Port Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset – No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injectors At Inlet Ports
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic – *On Board Computer*
	Sys. press. [kPa (psi)]	
Idle spd.–rpm (spec. neutral or drive and propane if used)	Manual	None
		"
	Automatic	"
		"
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, Thermostat
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Frame Mounted
Fuel pump	Type (elec. or mech.)	Electric – Dual Turbine
	Location (eng., tank)	In Fuel Tank
	Press. range [kPa(psi)]	
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	

Fuel Tank

Capacity [refill L (gallons)]		75.7 (20.0)
Location (describe)		Under Rear Deck
Attachment		Rests On Rear Frame Extension, Held With Straps
Material & Mass [kg (weight lbs.)]		Super Terne Coated Steel With High Density Polyethylene Liner (*)
Filler pipe	Location & material	Center Of Rear Deck
	Connection to tank	Bolted With Gasket On Top Of Tank
Fuel line (material)		Super Terne Coated Steel
Fuel hose (material)		Viton
Return line (material)		Super Terne Coated Steel
Vapor line (material)		Super Terne Coated Steel
Extended range tank	Opt., n.a.	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., *n.a.*	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Sictr switch or valve	"
	Separate fill	"

(*) – 13.600 kg. (30.0 lbs.)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LT5

Engine – Fuel System (See supplemental page for details of Fuel Inj, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		TPI - Tuned Port Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset - No Adjustment Provided
Fuel injection	Point of inj. (no.)	Fuel Injectors At Inlet Ports
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic - On Board Computer
	Sys. press. [kPa (psi)]	Not Applicable
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	None
		"
	Automatic	"
		"
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, Thermostat
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Frame Mounted
Fuel pump	Type (elec. or mech.)	Electric - Dual Turbine
	Location (eng., tank)	In Fuel Tank
	Press. range [kPa(psi)]	
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	

Fuel Tank

Capacity [refill L (gallons)]		75.7 (20.0)
Location (describe)		Under Rear Deck
Attachment		Rests On Rear Frame Extension, Held With Straps
Material & Mass [kg (weight lbs.)]		Super Terne Coated Steel With High Density Polyethylene Liner (*)
Filler pipe	Location & material	Center Of Rear Deck
	Connection to tank	Bolted With Gasket On Top Of Tank
Fuel line (material)		Super Terne Coated Steel
Fuel hose (material)		Viton
Return line (material)		Super Terne Coated Steel
Vapor line (material)		Super Terne Coated Steel
Extended range tank	Opt., n.a.	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Sletr switch or valve	"
	Separate fill	"

(*) - 13.600 kg. (30.0 lbs.)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO L98

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Vane
		Driven by	Serpentine - Single Belt Poly 'V' Drive
		Air distribution (head, manifold, etc.,)	Exhaust Manifold And Converter (CCC Controlled)
		Point of entry	Exhaust Manifold Ports
	Exhaust Gas Recircu-lation	Type (controlled flow, open orifice, other)	Controlled Flow
		Exhaust source	Inlet Manifold Exhaust Cross-Over Passage #
		Point of exh.inj. (spacer, carb., manifold, other)	Center Of Inlet Manifold Plenum
	Catalytic Converter	Type	Dual-Bed
		Number of	2 Front And 1 Rear
		Location(s)	Front - 1 On Each Exhaust Pipe Rear - Underbody Tunnel Below Console
		Volume [L(cu.in)]	2.7822 (169.8)
		Substrate type	Monolith
		Noble metal type	Platinum (Pt), Palladium (Pd), Rhodium (Rh)
		Noble metal concentration (g/cu. cm.)	0.000451 (FRT), 0.001007 (RR)
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		Inlet Manifold
	Air inlt(breather cap,other)		Air Cleaner
Evapora-tive Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister
		Carburetor	--
	Vapor storage provision		Canister
Electron-ic 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 (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		2, Reverse Flow (Stainless Steel Body, Aluminum Coated Steel Inlet And Outlets)
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	Outer Pipe 63.5x.86mm (2.50x.038in.), Inner Pipe 57.0x.86mm (2.25x.038in.)
	Main o.d., wall thickness	76.2 x 1.83 mm (3.0 x .072 in.)
	Matl. & Mass [kg(wght.lbs.)]	Stainless Steel Tubing (*)
Inter-mediate pipe	o.d. & wall thickness	57.15 x 1.83 mm (2.25 x .072 in.)
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel
Tail pipe	o.d. & wall thickness	Dual Outlets - 57.15 x 1.83mm (2.25 x .072 in.)
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel

(*) - 2.29 (.09) Air Gap Between Pipes For Heat Control And Sound Dampening.
(**) - Muffler & Tail Pipe Unit L.H. 6.565 (14.5) R.H. 6.565 (14.5)

MVMA Specifications

Vehicle Line: CORVETTE
Model Year: 1990 Issued: 6-89 Revised(*): 9-89

METRIC (U.S. Customary)

Engine Description
Engine Code

5.7 LITER V8 (350 CID)
MULTI-PORT FUEL INJECTION RPO LT5

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Vane
		Driven by	Electric
		Air distribution (head, manifold, etc.,)	Exhaust Manifold (CCC Controlled)
		Point of entry	Exhaust Manifold
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Not Available
		Exhaust source Point of exh.inj. (spacer, carb., manifold, other)	Not Available
	Catalytic Converter	Type	3 Way
		Number of	2
		Location(s)	Exhaust Manifold (Close Coupled)
		Volume [L(cu.in)]	2.0545 (125.37) Each
		Substrate type	Monolith
		Noble metal type	Platinum (Pt), Rhodium (Rh)
		Noble metal concentration (g/cu. cm.)	0.001844 Each
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 Plenum
	Air inlt(breather cap,other)		Air Cleaner
Evaporative Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister
		Carburetor	—
	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 (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		2, Reverse Flow
Resonator no. & type		2
Exhaust pipe	Branch o.d., wall thickness	RH – 69.85 x 1.09mm (2.75 x .04 in.); LH – 69.85 x 1.09mm (2.75 x .04 in.)
	Main o.d., wall thickness	Not Available
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH – .810 (1.786); LH 1.215 (2.679)
Intermediate pipe	o.d. & wall thickness	RH – 69.85 x 1.09 mm (2.75 x .04 in.); LH – 69.85 x 1.09 mm (2.75 x .04in.)
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH – 2.136 (4.709); LH – 2.136 (4.709)
Tail pipe	o.d. & wall thickness	RH & LH Outer – 69.85 x 1.37 (2.75 x .05 in.); *
	Matl. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH & LH Outer .700 (1.544); **

* RH & LH Inner – 69.85 x 1.37 mm (2.75 x .05 in.)

** RH & LH Inner – .652 (1.437)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (305 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

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

Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	"
Automatic (manufacturer/country)	"
Auto. overdrive (manufacturer/country)	"
Manual 6-Speed (Man/Con)	Zahnradfabrik Friedrichshafen AG (ZF) Schwabisch Gmuend W. Germany

Manual Transmission/Transaxle

Number of forward speeds		6
Gear ratios	1st	2.68
	2nd	1.80
	3rd	1.29
	4th	1.00
	5th	.75
	6th	.50 Rev. 2.50
Synchronous meshing (specify gears)		All
Shift lever location		Rear - Trans MTD.
Trans. case mat'l. & mass kg (lbs)*		Aluminum 69.0
Lubricant	Capacity [L (pt.)]	21 (.987)
	Type recommended	SW-30 Texaco

Clutch (Manual Transmission)

Clutch manufacturer		Valeo Clutches & Transmissions
Clutch type (dry, wet; single, multiple disc)		280mm Pull Type - Dry Clutch
Linkage (hyd., cable, rod, lever, other)		Hydraulic Pre-Filled
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed	178 (40)
	Released	133 (30)
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N(lbs)		11,250 (2,529)
Clutch facing	Facing mfgr. & matl. coding	Valeo F-202
	Facing matl. & construction	Non-Asbestos Woven
	Rivets per facing	9
	Outside x inside dia. (nom.)	280 x 180mm (11.02 x 7.09 in.)
	Total eff.area[sq cm(sq in)]	361.3 (56)
	Thickness (pressure plate side/fly wheel side)	3.3/3.3mm (.130/.130) in.)
	Rivet depth (pressure plate side/fly wheel side)	1.0mm (.039 in.)
	Engagement cushion method	Cushion Springs
Release bearing type & method lub.		Angular Contact Ball Bearing
Torsional damping method, springs, hysteresis		Dual-Mass Flywheel (Non-Dampened Clutch Disc)

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

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

Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	"
Automatic (manufacturer/country)	"
Auto, overdrive (manufacturer/country)	"
Manual 6-Speed (Man/Con)	Zahnradfabrik Friedrichshafen AG (ZF) Schwabisch Gmuend W. Germany

Manual Transmission/Transaxle

Number of forward speeds		6
Gear ratios	1st	2.68
	2nd	1.80
	3rd	1.29,
	4th	1.00
	5th	.75
	6th	.50 Rev. 2.50
Synchronous meshing (specify gears)		All
Shift lever location		Rear - Trans MTD.
Trans. case mat'L & mass kg (lbs)*		Aluminum 69.0
Lubricant	Capacity [L (pt.)]	21 (.987)
	Type recommended	SW-30 Texaco

Clutch (Manual Transmission)

Clutch manufacturer		Valeo Clutches & Transmissions
Clutch type (dry, wet; single, multiple disc)		280mm Pull Type - Dry Clutch
Linkage (hyd., cable, rod, lever, other)		Hydraulic Pre-Filled
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed	178 (40)
	Released	133 (30)
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N(lbs)		11,250 (2,529)
Clutch facing	Facing mfgr. & matl. coding	Valeo F-202
	Facing matl. & construction	Non-Asbestos Woven
	Rivets per facing	9
	Outside x inside dia. (nom.)	280 x 180mm (11.02 x 7.09 in.)
	Total eff.area[sq cm(sq in)]	361.3 (56)
	Thickness (pressure plate side/fly wheel side)	3.3/3.3mm (.130/.130) in.)
	Rivet depth (pressure plate side/fly wheel side)	1.0mm (.039 in.)
	Engagement cushion method	Cushion Springs
Release bearing type & method lub.		Angular Contact Ball Bearing
Torsional damping method, springs, hysteresis		Dual-Mass Flywheel (Non-Dampened Clutch Disc)

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description
Engine Code

5.7 LITER V8 (350 CID)
MULTI-PORT FUEL INJECTION RPO L98

○ Automatic Transmission/Transaxle

Trade Name		4-Speed Automatic (Overdrive 4th Gear)
Type and special features (describe)		Torque Converter With Planetary Gears
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)	
Gear ratios	1st	3.06
	2nd	1.63 @
	3rd	1.00 @
	4th	0.70 @
	Reverse	2.29
Max. upshift speed – drive range [km/h (mph)]		1-2 = 43, 2-3 = 79, 3-4 = 116 (At Wide Open Throttle)
Max. kickdown speed – drive range [km/h (mph)]		4-3 = 105, 3-2 = 72, 2-1 – 35
Min. overdrive speed [km/h (mph)]		38
Torque converter	Number of elements	3
	Max. ratio at stall	1.85
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298 (11.75)
	Capacity factor "K"*	
Lubricant	Capacity (refill L(pt.)]	3.8 (8.0)
	Type recommended	Dexron II
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, External, Liquid
Trans. mass [kg(lbs)] & case matl.**		Aluminum

@ - Computer Controlled Torque Converter Clutch 2nd, 3rd, And 4th Gears.

○ All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

Desc. & type (part-time, full-time, 2/4 shift while moving, mech., 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(% frt/rear)	

* Input speed / square root of torque.
** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

o Automatic Transmission/Transaxle (NOT APPPLICABLE)

Trade Name		
Type and special features (describe)		
Gear selector	Location (column, floor, other)	
	Ltr./No. designation (e.g. PRND21)	
	Shift interlock (yes, no, describe)	
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	Reverse	
Max. upshift speed – drive range [km/h (mph)]		
Max. kickdown speed – drive range [km/h (mph)]		
Min. overdrive speed [km/h (mph)]		
Torque converter	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
	Capacity factor "K"*	
Lubricant	Capacity (refill L(pt.)]	
	Type recommended	
Oil cooler (std., opt., N.A., internal, external, air, liquid)		
Trans. mass [kg(lbs)] & case matl.**		

o All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Desc. & type (part-time, full-time, *2/4 shift while moving, mech., 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(% frt/rear)	

* Input speed / square root of torque.
** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

○ Axle Ratio and Tooth Combinations

		AUTOMATIC - MD8			MANUAL - ML9
Axle ratio (or overall top gear ratio)		2.59	2.73	3.07	3.33 (1.66)
Ring gear o.d.		200 (7.875)			215.9 (8.5)
No. of teeth	Pinion	17	15	14	12
	Ring gear	44	41	43	40

○ Rear Axle Unit

Description		Overhung Pinion Gear
Limited slip differential (type)		Disc Clutches
Drive pinion	Type	Hypoid
	Offset	38.1 (1.50)
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Tapered Roller
Lubricant	Capacity [L (pt.)]	1.8 (3.75)
	Type recommended	GL-5 Gear Lubricant EOW-90

○ Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight Tube, Internal-External Damper		
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Available		
	Manual 4-speed transmission		Not Available		
	Manual 5-speed transmission		Not Available		
	Overdrive				
	Automatic transmission **		STEEL 63.5 x 825.5 x 165mm (2.50 x 32.5 x .065 in.)	ALUMINUM 76.2 x 825.5 x 3.05mm (3.00 x 32.5 x 0.12 in.)	Opt. (RPO-Z51) & Power Seat
Inter-mediate bearing	Type (plain, anti-friction)		None		
	Lub. (fitting, prepack)		--		
Slip yoke	Type		Splined		
	Number of teeth		Manual Trans. - 32	Automatic Trans. - 26	
	Spline o.d.		Manual Trans. - 34.95mm (1.38 in.)	Automatic Trans. - 29.7mm (1.17 in.)	
Universal joints	Make and mfg. no.	Front	#1311		
		Rear	#1318		
	Number used		2		
	Type (ball and trunnion, cross)		Cross		
	Rr. attach(u-bolt,clamp,etc)		Strap And Bolt		
	Bearing: Type (plain, anti-friction)		Anti-Friction		
	Bearing: Lubrication (fitting, prepack)		Prepacked		
Drive taken through (torque tube, arms or springs)			Driveline Beam		
Torque taken through (torque tube, arms or springs)			Torque Control Arms		

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

** - Aluminum

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description 5.7 LITER V8 (350 CID)
MULTI-PORT FUEL INJECTION RPO LT5
Engine Code

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

Axle ratio (or overall top gear ratio)		3.45:1 (1.72)
Ring gear o.d.		216 (8.5)
No. of teeth	Pinion	11
	Ring gear	38

o Rear Axle Unit

Description		Overhung Pinion Gear
Limited slip differential (type)		Disc Clutches
Drive pinion	Type	Hypoid
	Offset	38.1 (1.50)
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Tapered Roller
Lubricant	Capacity [L (pt.)]	1.8 (3.75)
	Type recommended	GL-5 Gear Lubricant EOW-90

o Propeller Shaft – Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight Tube
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Applicable
	Manual 4-speed transmission		"
	Manual 5-speed transmission		"
	Overdrive 6-Speed		76.2 x 804.9 x 2.41 (3.0 x 31.69 x .095) Aluminum
	Automatic transmission		Not Applicable
Inter-mediate bearing	Type (plain, anti-friction)		None
	Lub. (fitting, prepack)		
Slip yoke	Type		Splined
	Number of teeth		32
	Spline o.d.		34.95mm (1.38 in.)
Universal joints	Make and mfg. no.	Front	Dana #1311
		Rear	Dana #1318
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rr. attach (u-bolt, clamp, etc)		Strap & Bolt
	Bearing: Type (plain, anti-friction)		Anti-Friction
	Bearing: Lubrication (fitting, prepack)		Prepacked
Drive taken through (torque tube, arms or springs)			Driveline Beam
Torque taken through (torque tube, arms or springs)			Torque Control Arms

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

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	2-DOOR 1YY07 HATCHBACK COUPE / 2-DOOR 1YY67 CONVERTIBLE

Suspension – General Including Electronic Controls

Car leveling	Std./opt./n.a.		Not Applicable
	Manual/automatic control		"
	Type (air/hydraulic)		"
	Primary/assist spring		"
	Rear only/4 wheel leveling		"
	Single/dual rate spring		"
	Single/dual ride heights		"
	Provision for jacking		(See Attached Sheet)
Shock absorber damping controls	Std./opt./n.a.		Optional
	Manual/automatic control		Manual
	Number of damping rates		18
	Type of actuation (manual/electric motor/air, etc.)		Manual Selection & Speed Control
	sensors	Lateral acceleration	Not Applicable
		Deceleration	"
		Acceleration	"
		Road surface	"
Shock absorber (front & rear)	Type		(See Attached Sheet)
	Make		Base - Bilstein
	Piston diameter		(See Attached Sheet)
	Rod diameter		Base - 12.4mm (0.5 in.), Z51, FG3: 11.3mm (0.4 in.)

Suspension – Front

Type and description		(See Attached Sheet)
Travel*	Full jounce	92.0mm (3.62 in.)
	Full rebound	95.0mm (3.74 in.)
Spring	Type,(coil,leaf,other)&matl	Monoleaf, Filament Wound Glass - Epoxy Composite
	Insulators (type & matl)	Pivot; Teflon-Filled Nylon And Aluminum, Enclosed In Rubber.
	Size (coil design height & i.d.)	1160.0 x 110.0 x 13.22mm Standard Z51 14.3mm (45.7 x 3.9 x 0.52 in. Standard) (Z51 0.56 in.)
	Spring rate [N/mm(lb./in.)]	Base & Convertible - 90.0 Z51 - 110.0
	Rate @ wheel [N/mm(lb./in)]	Base & Convertible - 24.64 Z51 - 27.98
Stabilizer	Type (link,lnkless,frmless)	Link
	Material & bar diameter	HR Stl; 26.0mm (0.9 in.) Dia. - Std. 30.0mm (1.2 in.) Dia. - Z51

Suspension – Rear

Type and description			(See Attached Sheet)
Travel*	Full jounce		All Models - 89.0mm (3.5 in.)
	Full rebound		Base & Convertible - 76.0mm (3.0 in.), Z51 - 71.0mm (2.8 in.)
Spring	Type(coil,leaf,other)&matl		Monoleaf, Filamount Wound Glass - Epoxy Composit
	Size (length x width, coil design height & i.d.)		Base - 1236 x 57.0 x 22.2mm, Z51 - 25.0mm (Base - 48.7 x 2.24 x 0.87 in.) (Z51 - 0.98 in.)
	Spring rate [N/mm (lb/in)]		Base 40.0 (233.0), Z51 - 57.8 (330.0) Conv. - 40.0 (233.0)
	Rate @ wheel [N/mm (lb/in)]		Base 26.36 (130.2), Z51 - 35.68 (173.6) Conv. - 26.36 (130.2)
	Insulators(type & material)		Dual Rubber Polyisoprene
	If leaf	No. of leaves	Monoleaf
		Shackle(comp or tens)	Tension
Stabilizer	Type(link,lnkless,frmless)		Link
	Material & bar diameter		HR Steel; Base - 19.0mm (.75 in.) Solid, Z51 - 24.0mm (0.94 in.) **
Track bar (type)			None

* Define load condition:

** - Solid Painted To Protect Against Corrosion.

MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

PROVISIONS FOR JACKING:
Place Jackhead Between Locator Triangles On Rocker Flange Nearest To Sheet Being Changed. Make Sure Jack Is Under The Steel Flange.

SHOCK ABSORBER (FRONT AND REAR) TYPE
All: Monotube. Gas Charged.

PISTON DIAMETER
Front: Base - 25.0mm (0.98 in.), Z51 & FG3, 36.0mm (1.42 in.)
Rear: Base - 32.0mm (1.26 in.), Z51, & FG3, 46.0mm (1.81 in.)

SUSPENSION - FRONT
Independent SLA Forged Aluminum Upper And Lower Control Arms And Steering Knuckle, Transverse Monoleaf Spring And Steel Stabilizer, Spindle Offset.

SUSPENSION - REAR
Independent 5-Link Design With Tow And Camber Adjustment, Forged Aluminum Control Links And Knuckle, Transverse Monoleaf Spring Steel Tie Rods And Stabilizer Tubular U-Jointed Aluminum Driveshafts.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

2-DOOR HATCHBACK COUPE 1YY07 | 2-DOOR CONVERTIBLE 1YY67

Brakes – Service

Description				Hydraulic Power Brake Front And Rear Disc Base JL9 And Heavy Duty J55 Systems
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)			B.C.I.A. Standard Pad Guided Caliper
	Rear (disc or drum)			B.C.I.A. Standard Pin Guided Caliper
Valving type(prop,delay,metering,other)				Rear Proportioner Integral With Master Cylinder
Power brake (std., opt., n.a.)				Standard
Booster type(rmt,intgrl,vac.,hyd.,etc.)				Vac 240mm Single Diaph .65 sq. in.
Vacuum	Source (inline, pump, etc.)			Engine Plenum
	Reservoir (volume cu. in.)			Not Applicable
	Pump-type			"
Traction Control	Operational speed range			"
	Type engine intervention			"
Anti-lock device	Front/rear (std., opt., n.a)			Standard Front And Rear
	Manufacturer			Bosch
	Type (electronic, mech.)			Electrohydraulic
	Number sensors or circuits			4 Front Wheel Sensors
	No. anti-lock hyd. circuits			3 (1 Front And 1 Rear) Hydraulic
	Integral or add-on system			Add-On
	Yaw control (yes, no)			Yes
	Hydraulic power source			Electronic Motor Pump
Effective area [sq. cm. (sq. in.)]*				Front Linings 209; Rear Linings 119 (W/Out Grooves)
Gross Lng area [sq cm (sq in)] **(F/R)				Front 53.2 x 4 = 213; Rear 29.7 x 4 = 119 (W/Grooves)
Swept area [sq cm (sq in)]*** (F/R)				Front 660 Base/722 H.D; 589 Rear
Rotor %	Outer working diameter		F/R	F-Base/302.3mm; F-H.D./327.3mm; R/302.7mm
	Inner working diameter		F/R	F-Base/222.3mm; F-H.D./247.3mm; R/232.7mm
	Thickness		F/R	F-Base/20mm; F-H.D./28mm; R/20mm
	Matl & type (vented/sld)		F/R	Gray Iron Vented Front, HCE Iron Vented Rear
Drum	Diameter & width		F/R	Not Applicable
	Type and material		F/R	"
Wheel cylinder bore				Front Dual Piston 38mm (1.5 in.) Rear 40.5mm (1.6 in.)
Master cylinder	Bore/stroke		F/R	Front 22.2/20mm (.87/.79 in.) Rear 22.2/12mm (.87/.47 in.)
Pedal arc ratio				3.5:1
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]				W/Power Front 8625 (1250) Rear 5175 (750)
Lining clearance			F/R	Front And Rear Self Adjusting
Brake lining	Front wheel	Bonded or riveted		Integral Mold
		Rivet size		Not Applicable
		Manufacturer		Japan Brake Industries
		Lining code *****		JB CP26, FE Code
		Material		Semi-Metallic Nonasbestos
		****	Pri.or out-brd	Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.)
		Size	Sec. or in-brd	Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.)
		Shoe thckness.(no lng)		6.0mm (0.236 in.)
	Rear wheel	Bonded or riveted		Integral Mold
		Manufacturer		Japan Brake Industries
		Lining code *****		JB H3H – B33, GF code
		Material		Semi-metallic nonasbestos
		****	Pri. or out-brd	108 x 35 x 8.5mm (4.25 x 1.38 x 0.33 in.)
		Size	Sec. or in-brd	94 x 35 x 8.5mm (3.70 x 1.38 x 0.33 in.)
		Shoe thckness (no lng)		O.B. 4mm (0.157 in.), I.B. 5.5mm (0.216 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 circum.)
(Disc brake: Square of Outer Working Dia. – Square of Inner Working Dia. X 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 CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P275/40ZR17 B/W - Base
	Type (bias, radial, etc.)		High Speed Steel Belted Radial Eagle 40ZR (Goodyear), Unidirectional
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa(psi)]	240 (35)
		Rear [kPa(psi)]	240 (35) metric / English
	Rev/mile-at 70 km/h(45mph)		497 (798)
Wheels	Type & material		Left-Right Aluminum Alloy Road Wheels With Specific Vent Design
	Rim (size & flange type)		17 x 9.5 Front, 17 x 9.5 Rear, Left-Right Specific
	Wheel offset		56mm (1.97 in.)
	Attachment	Type(bolt,stud)	Stud
		Circle diameter	120.7mm (4.75 in.)
		Number & size	5 Hex Nuts, One Anti-Theft; M12 x 1.5 - 6H
Spare	Tire and wheel		T155/70D17, (17 x 4 Wheel) 60 PSI 9155 AA
	Storage position & location (describe)		Horizontal Under Fuel Tank

Tires And Wheels (Optional)

Tire size (load range, ply), rear	P315/35ZR17
Type (bias, radial, steel, etc.), rear	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)
Wheel (type & material), rear	Left-Right Aluminum Alloy Road Wheels W/Specific Vent Design
Rim (size, flange type and offset),rear	17 x 11 Rear, Left - Right Specific
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (load range, ply)	
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		Lever Apply, Button Release, Auto Cable Adjust
Location of control		Inner Left Door Sill
Operates on		Integral Rear Caliper Lock Plate Actuator
If separate from service brakes	Type(internal or external)	Not Applicable
	Drum diameter	"
	Lining size (length x width x thickness)	"

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Steering

Manual (std., opt., n.a.)					Not Available
Power (std., opt., n.a.)					Standard
Adjustable steering wheel/ column (tilt, telescope, other)		Type			Tilt And Telescopic
		Manufacturer			Saginaw Division
		(std., opt., n.a.)			Standard
Wheel diameter ** (W9) SAE J1100		Manual			Not Available
		Power			368mm (14.5 in.)
Turning diameter m (ft.)	Out-side front	Wall to wall (l. & r.)			12.6 (41.3)
		Curb to curb (l. & r.)			12.2 (40.0)
	In-side rear	Wall to wall (l. & r.)			Not Available
		Curb to curb (l. & r.)			"
Scrub Radius *					
Manual	Gear	Type			Not Available
		Manufacturer			—
		Ratios	Gear		—
			Overall		—
	No. wheel turns(stop to stop)				—
Power	Type (hydraulic, elec., etc.)				Alloy Rack And Pinion
	Manufacturer				Saginaw Division; Lt. Wt. Transverse Compact Pump
	Gear	Type			End Take-Off
		Ratios	Gear		—
			Overall		13.0:1
	Pump (drive)				Accessory Belt Driven
	No. wheel turns(stop to stop)				1.96 Turns - Z51 Handling Package
Linkage	Type				End Take-Off
	Location (front or rear of wheels, other)				Front Of Wheel
	Tie Rods (one or two)				2
Steering axis	Inclination at camber (deg.)				8.744
	Bear-ings (type)	Upper			Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive
		Lower			Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive
		Thrust			Lower Ball Joint
Steering spindle/knuckle & joint type					Upper And Lower Ball Joints; Anti-Corrosive
Wheel spindle/ hub	Dia-meter	Inner bearing			51mm (2.0 in.)
		Outer bearing			51mm (2.0 in.)
	Thread (size)				Not Available
	Bearing (type)				Unit Hub-Bearing Assembly With Double Row Balls; Anti-Corrosive

* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.
** See Page 22.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	6.0 (+/-) 0.5	
		Camber (deg.)	0.8 (+/-) 0.5	
		Toe-in [outside track-mm (in.)]	0.0 (+/-) .10	
	Service reset*	Caster (deg.)	—	
		Camber (deg.)	—	
		Toe-in (deg.)	—	
	Periodic M.V. inspection	Caster (deg.)	—	
		Camber (deg.)	—	
		Toe-in (deg.)	—	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	0 (+/-) 0.5	
		Toe-in [outside track-mm (in.)]	0.0 (+/-) .1	
	Service reset*	Camber (deg.)	—	
		Toe-in (deg.)	—	
	Periodic M.V. inspection	Camber (deg.)	—	
		Toe-in (deg.)	—	

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

Electrical - Instruments and Equipment *

Speedometer	Type (analog, digital, std., opt.)	Electronic Liquid Crystal-Digital
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		Not Available
Charge indicator	Type	Analog Display
	Warning device (light, audible)	Standard - Warning Indicator And Lamp
Temperature indicator	Type	Analog Display
	Warning device	Standard - Warning Indicator And Lamp
Oil pressure indicator	Type	Analog Display
	Warning device	Standard - Warning Indicator And Lamp
Fuel indicator	Type	Electric Liquid Crystal-Analog
	Warning device	Standard-Warning Indicator Signals - Reserve
Windshield wiper	Type (standard)	Intermittent Control System
	Type (optional)	Not Available
	Blade length	508mm (20 in.)
	Swept area (sq cm (sq in))	6920 (1072.9)
Windshield washer	Type (standard)	Push Button - Manual
	Type (optional)	Not Available
	Fluid level indicator	Not Available
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Available
Horn	Type	Vibrator
	Number used	2
Other		Tell-Tale Lights Warning Of Unfastened Seat Belts (FASTEN BELTS), Low Brake Line Pressure Or Parking Brake On (BRAKE), Anti-Theft Alert (SECURITY), Electronic Control Module Malfunction (CHECK ENGINE), Door Ajar (DOOR AJAR), (HATCH AJAR), (ABS ACTIVE), Select Ride Control (SERVICE RIDE CONTROL), Low Tire Pressure Warning System (Low Tire Pressure) (Service LTPWS), Antilock Brake System Check (SERVICE ABS), Low Coolant (LOW COOLANT), Inflatable Restraint (INFL REST), (CHANGE OIL), (CHECK GAUGES), (LOW OIL), (BATTERY), Drivers Information System Mileage Range, Instant And Average MPG, And Trip Odometer Also Included As Standard Equipment.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO L98

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525
	Voltage	12
	Amps at 0 deg F cold crnk	525
	Minutes–reserve capacity	90
	Amps/hrs. – 20 hr. rate	54
	Location	Engine Compartment Directly Behind Left Wheel Opening
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps
	Ratio (alt. crank/rev.)	3.09
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Unit; Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Delco Remy
	Current drain 0 deg F	350 Amps
	Power rating [kw (hp)]	1.6 (2.1)
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Rear

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		--
	Other (specify)		High Energy Ignition (HFI)
Coil	Manufacturer		Delco Remy
	Model		Integral With Distributor
	Current	Engine stopped–A	--
		Engine idling – A	--
Spark plug	Manufacturer		AC
	Model		FR5LS
	Thread (mm)		M14 x 1.25
	Tightening torque [Newton meters (lb. ft.)]		24-30 (18-22)
	Gap		0.89 mm (0.035 in.)
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		

Electrical – Suppression

Locations & type	Internal Alternator Capacitor, Non-Metallic High-Tension Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LT5

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75-695 Standard
	Voltage	12
	Amps at 0 deg F cold crnk	695
	Minutes-reserve capacity	90
	Amps/hrs. – 20 hr. rate	54
	Location	Engine Compartment Directly Behind Left Wheel Opening
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps 50/120
	Ratio (alt. crank/rev.)	2.59
	Output at idle (rpm, park)	55 Amps
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Unit; Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Nippon Denso
	Current drain –20 deg F	425 Amps
	Power rating [kw (hp)]	1.6 (2.1)
Motor drive	Engagement type	Coaxial Solenoid
	Pinion engages from (front, rear)	Front

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		--
	Other (specify)		Direct Ignition System
Coil	Manufacturer		Delco Remy
	Model		
	Current	Engine stopped-A	--
		Engine idling – A	--
Spark plug	Manufacturer		AC
	Model		FR2LS
	Thread (mm)		Not Available
	Tightening torque [Newton meters (lb. ft.)]		"
	Gap		"
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		Direct Ignition

Electrical – Suppression

Locations & type	Internal Alternator Capacitor, Non-Metallic High-Tension Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Body

Structure	Integral Perimeter Frame-Birdcage Forms Strong Unitized Body Structure. Aerodynamically Shaped Body With Deeply Angled Windshield (64 deg.), All Body Panels SMC Reinforced Composite With Molded-In Coating. Single Lift Off Roof Panel Effective Pass, Compartment Insulation Tinted Glass All Around. "Unibase" Paint Process, Final Clear Coat Paint Finish.
Bumper System Front - Rear	Front - Full-Width Honeycomb Energy Absorber Backed Up By An Impact Bar Of Strong Continuous Glass Fiber Plastic. Body Color, Glass-Reinforced Rim Fascia, Rear-Similar Honeycomb Design.
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)			High Solids Base Coat Enamel With High Solids Clear Coat
Hood	Material & mass		Sheet Molded Compound With Steel Reinforcements, 33.6 kg. (74.1 lbs.)
	Hinge location (front, rear)		Front
	Type (counterbalance, prop)		Hinged Clamshell Hood, W/Upper Wheelhouse Attached W/Dual Gas Struts
	Release control (int., ext.)		Internal
Trunk lid	Material & mass		Not Applicable
	Type (counterbalance, other)		"
	Internal release control (elec., mech., n.a.)		"
Hatch-back lid	Material & mass		Tempered, Tinted Safety Glass 19.05 kg. (42.0 lbs.)
	Type (counterbalance, other)		Dual Gas Struts
	Internal release control elec., mech., n.a.)		Electric Release, Standard (Each Door And Console Glove Box)
Tailgate	Material & mass		Not Applicable
	Type (drop, lift, door)		"
	Internal release control (elec., mech., n.a.)		"
Vent window control (crank, friction, pivot, power)		Front	None
		Rear	"
Window regulator type (cable, tape, flex drive, etc.)		Front	Drive
		Rear	None
Seat cushion type (e.g., 60/40, bucket, bench wire, foam, etc.)		Front	Bucket Seat, Full Cloth Trim W/Wool Pad Comfort Liner @
		Rear	None
		3rd seat	"
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)		Front	Bucket Seat, Full Cloth Trim W/Wood Pad Comfort Liner @
		Rear	None
		3rd seat	"

* - Gives Easy Access To Engine And Chassis Components; SMC Reinforced Composite.

@ - Polypropylene Reinforced Composite Frame For Seat Cushion And Backrest.

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Body Type

2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.) Standard/ optional	First seat	3-Point Active Lap & Shoulder Belt		3-Point Active Lap & Shoulder Belt
		Second seat			
		Third seat			
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt) Standard/ optional	First seat	Air Bag Standard		
		Second seat			
		Third seat			

Glass	SAE Ref No		
Windshield glass exposed surface area [sq. cm. (sq. in.)]	S1	8710.0 (1350.0)	
Side glass exposed surface area [sq. cm. (sq. in.)] - total 2- sides	S2	4007.2 (621.1)	
Backlight glass exposed surface area [sq. cm. (sq. in.)]	S3	6205.0 (961.8)	2554.8 (396.0)
Total glass exposed surface area [sq. cm. (sq. in.)]	S4	18922.2 (2932.9)	15272.0 (2367.1)
Windshield glass (type)		Curved - Laminated Plate - Tinted	
Side glass (type)		Curved - Tempered Plate - Tinted	
Backlight glass (type)		Curved - Tempered Plate - Tinted (Hatchback)	Vinyl

Headlamps

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

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	All-Welded Steel Body-Frame Construction, 100% Galvanized Bolt-On Front Crossmember To Allow Bottom Loaded Engine

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

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

Air conditioning (manual, auto, temp control)		Standard, Four Season Manual Control
Clock (digital, analog)		Standard, Digital Read-Out With All Radios
Compass / thermometer		Not Available
Console (floor, overhead)		Standard, Floor
Defroster, elec. backlight		Standard
Electronic	*Diagnostic monitor* (integrated, individual)	Standard - ALCL (Assembly Line Communications Link); Integrated
	Instrument cluster (list instruments)	Speedo, Tach, Oil & Coolant Temps, Oil Press, Volts, Fuel
	Keyless entry	Not Available
	Tripminder (avg. spd. fuel)	Range, Average And Instant MPG
	Voice alert (list items)	Not Available LCD And Analog Instrumentation Standard
	Other	
Fuel door lock (remote, key, electric)		Not Available
Lamps	Auto head on/off delay, dimming	Not Available
	Cornering	Front And Rear, Standard
	Courtesy (map, reading)	Standard - One Lamp In Each Door Panel Mounted On I/S R/V Mirror
	Door lock, ignition	Standard - Inside Door Lock-Door Open, Delay When Closed
	Engine compartment	Standard
	Fog	Standard
	Glove compartment	Standard - In Console & I/P
	Trunk	Standard - Two Lamps Mounted In 'B' Pillars Back Of Seat
	Illuminated entry system (list lamps, activation)	Not Applicable
	Other	—
Mirrors	Day / night (auto. man.)	Standard, Manual
	L.H. (remote, pwr., heated)	Power Standard, Heated
	R.H.(convex, rmt, pwr, htd)	Power Standard, Heated
	Visor vanity (RH/LH illum.)	RH Standard/LH Optional
Navigation system (describe)		None
Prkg. brake-auto release (warn. light)		Manual Release, Tell-Tale - Standard

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)

Engine Description / Engine Code	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

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

Power equipment	Deck lid(release, pull down)		
	Door locks (manual, auto., describe system)		Standard Deck Lid Hatch, Standard Door Locks
	Seats	2-4-6 way, etc.	6-Way Optional
		Reclining(R.H., L.H.)	Manual Standard, Power Optional
		Memory (R.H., L.H., preset, recline)	Not Available
		Lumbar, hip, thigh, support	Power Optional
		Heated (R.H., L.H., other)	Not Available
	Side windows		Standard
	Vent windows		Not Available
	Rear windows		Standard - Electric Hatch Release (3 Remote Location)
	Convertible deck lid		Standard Release
Radio systems	Antenna (location, whip, w/shield, power)		Rear Power Antenna
	Stan.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo Cassette
	Opt.		AM/FM Stereo Cassette/Bose AM/FM Stereo Cassette/Compact Disc/Bose
	Speaker (number, location)		Standard - 2 Front, 2 Rear Bose - 1 Each Door, 2 Rear
Roof: open air or fixed (flip-up, sliding, "T")			Single, Full Width Lift-Off Roof Panel Conv. Fldg. Top
Speed control device			Standard - Eelectronic Speed & Cruise Control W/Resume Feature
Speed warn. dev. (light, buzzer, etc.)			Not Available
Tachometer (rpm)			6,000
Telephone system (describe)			Not Available
Theft deterrent system			"VATS" 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 (Doors And Hatch).

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 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.*

Body Type		2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67
o Width	**SAE Ref. No.**		
Tread (front)	W101	1513 (59.6)	
Tread (rear)	W102	1534 (60.4)	
Vehicle width	W103	1804 (71.0)	
Body width at Sg RP (front)	W117	1752 (69.0)	
Vehicle width (front doors open)	W120	3706 (145.9)	
Vehicle width (rear doors open)	W121	—	
Tumble-home (deg.)	W122	36.9	
Outside mirror width	W410		
o Length			
Wheelbase	L101	2444 (96.2)	
Vehicle length	L103	4483 (176.5)	
Overhang (front)	L104	1030 (40.5)	
Overhang (rear)	L105	1009 (39.7)	
Upper structure length	L123	2309 (90.9)	
Rear wheel C/L 'X' coordinate	L127	1886 (74.2)	
o Height **			
Passenger distribution (front/rear)	PD1,2,3	**	
Trunk/cargo load		**	
Vehicle height	H101	1186 (46.7)	1179 (46.4)
Cowl point to ground	H114	845 (33.4)	
Deck point to ground	H138		
Rocker panel-front to ground	H112	175 (6.9)	
Rocker panel-rear to ground	H111	175 (6.9)	
Windshield slope angle (deg.)	H122	64.7	
Backlight slope angle (deg.)	H121	72.5	
Ground Clearance **			
Front bumper to ground	H102	124 (4.9)	
Rear bumper to ground	H104	330 (13.0)	
Bumper to ground [front at curb mass (wt.)]	H103	130 (5.1)	
Bumper to ground [rear at curb mass (wt.)]	H105	353 (13.9)	
Angle of approach (degrees)	H106	10.6	
Angle of departure (degrees)	H107	20.2	
Ramp breakover angle (degrees)	H147	12.3	
Axle differential to ground (front/rear)	H153	172 (6.8)	
Min. running ground clearance	H156	120 (4.7)	
Location of min. run. grd. clear.		Catalytic Converter	

** 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 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)
Vehicle Dimensions

See Key Sheets for Definitions

Body Type		2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67
o Front Compartment	**SAE Ref. No.**		
SgRP front, "X" coordinate	L31	3150 (124.0)	
Effective head room	H61	926.5 (36.5)	927 (36.5)
Max. eff. leg room (accelerator)	L34	1083 (42.6)	
SgRP to heel point	H30	188 (7.4)	
SgRP to heel point	L53	898 (35.4)	
Back angle (deg.)	L40	28.0	
Hip angle (deg.)	L42	98.0	
Knee angle (deg.)	L44	130.0	
Foot angle (deg.)	L46	87.0	
Design H-point front travel	L17	165.0 (6.5)	
Normal driving & riding seat track trvl.	L23	146.5 (5.8)	
Shoulder room	W3	1366.0 (53.8)	
Hip room	W5	1253 (49.3)	
*** Upper body opening to ground	H50	1103.5 (43.4)	
Steering wheel maximum diameter*	W9	380.0 (15.0)	
Steering wheel angle (deg.)	H18	18.3	
Accel. heel pt. to steer. whl. cntr	L11		
Accel. heel pt. to steer. whl. cntr	H17		
Undepressed floor covering thickness	H87	24 (0.9)	

Front Compartment Int. Dim. Are Measured With The Seating Ref. Pt. (SgRP) mm Forward And mm Upward of Rearmost Position.

o Rear Compartment (NOT APPLICABLE)			
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 (deg.)	L41		
Hip angle (deg.)	L43		
Knee angle (deg.)	L45		
Foot angle (deg.)	L47		
Depressed floor covering thickness	H73		

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	--	186.9 (6.6)
*** Liftover height	H195	902 (35.5)	

Interior Volumes (EPA Classification)

Vehicle class		Mini-Compact
Interior volume index (cu. ft.)**		Not Available, On Two Passenger Vehicles
Trunk / cargo index (cu. ft.)		--

* See page 14.
** Includes passenger and trunk / cargo index – see definition page 32.

*** EPA Loaded Vehicle Weight, Loading Conditions

All Linear Dimensions Are In Millimeters (Inches)

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

METRIC (U.S. Customary)
Vehicle Dimensions

See Key Sheets for Definitions

Body Type 2-DOOR HATCHBACK COUPE 1YY07

Station Wagon – Third Seat

	SAE Ref. No.	(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	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon – 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 [cu. m.(cu.ft.)]	V2	
Hidden cargo vol. index [cu.m.(cu.ft.)]	V4	
Cargo volume index–rear of 2–seat	V10	

Hatchback – Cargo Space

Cargo length at front seatback height	L208	792 (31.2)
Cargo length at floor (front)	L209	838 (33.0)
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	454 (17.9)
Second seatback to load floor height	H198	
Cargo volume index [cu. m. (cu. ft.)]	V3	508L (17.9)
Hidden cargo vol. index [cu.m.(cu.ft.)]	V4	—
Cargo volume index–rear of 2–seat	V11	—

*** EPA Loaded Vehicle Weight, Loading Conditions**

All Linear Dimensions Are In Millimeters (Inches).

MVMA Specifications

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body Type	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67

Vehicle Fiducial Marks

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 The 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).

Fiducial Mark Number		
Front	W21*	552 (21.7)
	L54*	831 (32.7)*
	H81*	-181 (-7.1)#
	H161*	178 (7.0)
**	H163*	120 (4.7)
Rear	W22*	296 (11.7)
	L55*	2714 (106.9)*
	H82*	46 (1.8)#
	H162*	367 (14.4)
**	H164*	345 (13.6)
		* Vertical Base Grid 2000mm Line # Horizontal Base Grid 500mm Line

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

** EPA Loaded Vehicle Weight, Loading Conditions.

All linear dimensions are in millimeters (inches).

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) 9-89

Code	Model	Vehicle Mass (weight)							
		CURB MASS, kg. (lb.)*			% PASS MASS DISTRIBUTION				
					Pass in Front		Pass in Rear		
		Front	Rear	Total	Front	Rear	Front	Rear	ETWC** Code
1YY07	2-Door Hatchback Coupe (L98 & MD8)	744.4 (1641)	732.2 (1614)	1476.6 (3255)					3625
1YY67	2-Door Convertible (L98 & MD8)	755.2 (1665)	732.0 (1636)	1497 (3301)					3625
1YZ07	2-Door Hatchback Coupe (ZR1) (LT5 & ML9)	793.8 (1750)	784.2 (1729)	1578.0 (3479)				Manual Only	3750

Curb Mass - The calculated mass of a vehicle with standard equipment only as designed with the additional load of oil, lubes, coolants, and fuel all filled to capacity.

Shipping Mass - Same as base curb weight, except 3 gallons of gasoline.

* 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.

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) Calculation (Kg. (lbs.)

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

48 (106)

MVMA Specifications

METRIC (U.S. Customary)

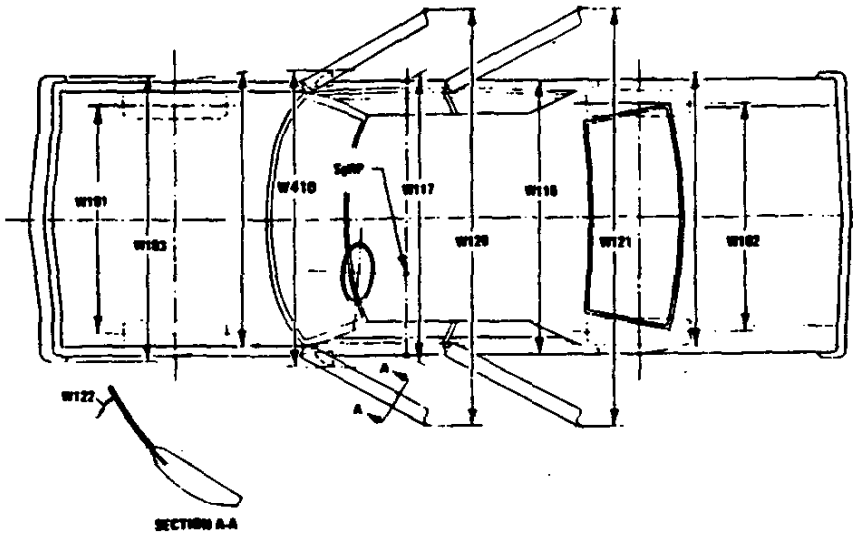
Vehicle Line CORVETTE
Model Year 1990 Issued 6-89 Revised(*) _____

		Optional Equipment Differential Mass (weight)*			
		MASS, kg. (lb.)			
Code	Equipment	Front	Rear	Total	Remarks Restrictions, Requirements
AQ9	Custom Adjustable Seats	2.8 (6.2)	3.3 (7.39)	6.1 (13.5)	Power Adjust For Backrest Lateral Restraints, Lumbar Support And Back
					Angle, Special Cloth Trim.
B16	Leather Seat Trim	.6 (1.3)	1.0 (2.2)	1.6 (3.5)	As Required (Special Contour Bucket Seat).
CC3	Removable Plastic Roof Panel	-.4 (-0.9)	-1.0 (-2.2)	-1.4 (-3.1)	Acrylic Plastic. Lighter, Blue Tinted For Glare And Sun Load
					Control, Coated For Scratch Resistance. Not Avail. On Convt.
C68	Automatic Air Conditioning	1.0 2.205	--	1.0 2.205	Automatic Temperature Control
	-				-
ML9	Manual Transmission	1.5 (3.3)	1.3 (2.9)	2.8 (6.2)	
	Delco/Bose Premium Audio System	1.5 (3.3)	2.9 (6.4)	4.4 (9.7)	Includes Specific AM/FM Stereo Radio With Cassette Player, Bose
					Power Amplified, Direct Reflecting Speakers (One In Each Door And At
					Each Side Of Luggage Area). Also Features Dolby sound, Dynamic
					Noise Reduction And Automatic Suppression System.
V08	Heavy Duty Cooling Required Except Base	5.8 (12.8)	-1.2 (-2.6)	4.6 (10.2)	Includes HD Radiator, Aux. Boost Fan, And Oil Cooler.
	Electric Defogger System (Hatch And Outside Rear View Mirrors)	.2 (0.4)	.2 (0.4)	.4 (0.8)	Mirrors Only On Convertible.
Z51	Performance Handling Package, Consists Of FE7, FG3, GZ0, V01, KC4, B4P	1.9 (4.2)	2.4 (5.3)	4.3 (9.5)	Includes Left-Right 17 x 9-1/2 Wheels, Fast Steering HD Cooling.

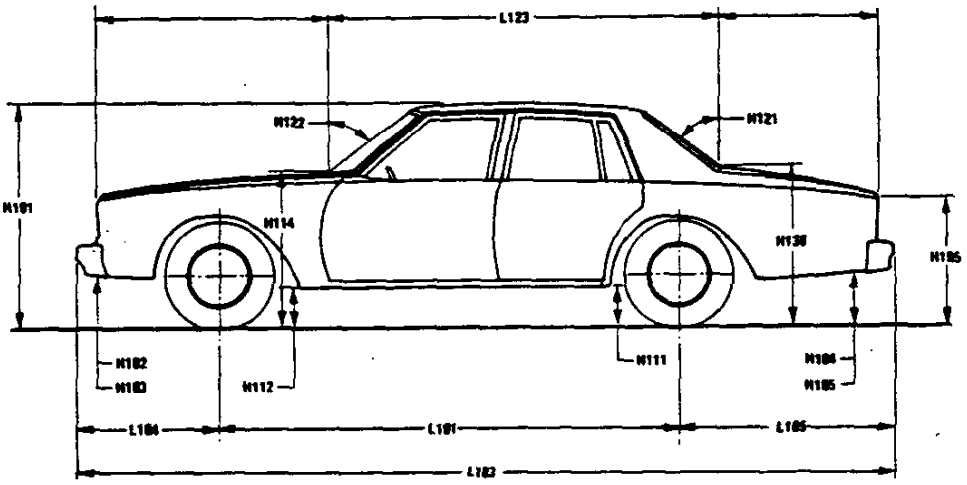
* Also see Engine - General Section for dressed engine mass (weight).

Exterior Vehicle And Body Dimensions – Key Sheet

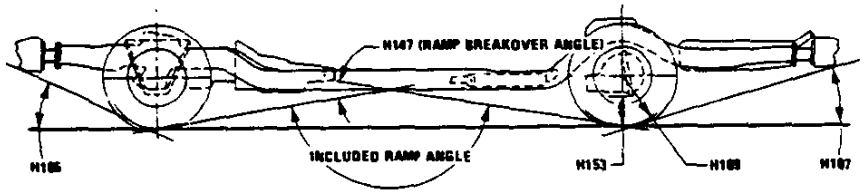
Exterior Width



Exterior Length & Height



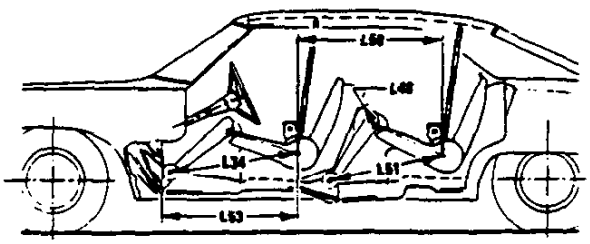
Exterior Ground Clearance

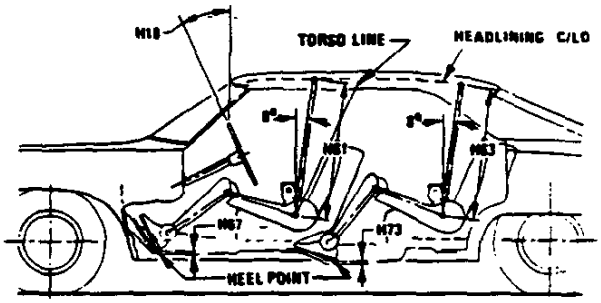


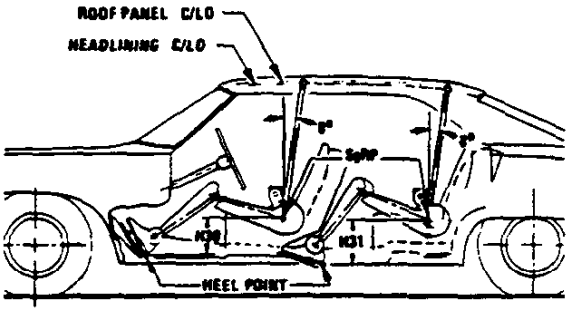
MVMA Specifications Form

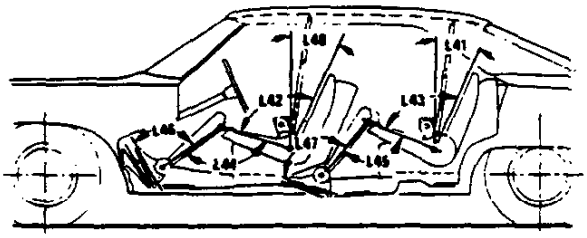
METRIC (U.S. Customary)

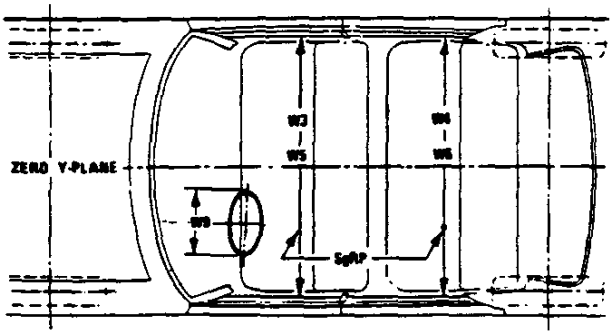
Interior Vehicle And Body Dimensions – Key Sheet

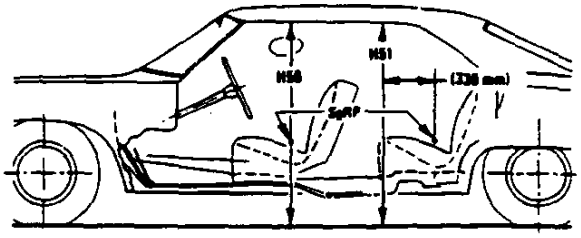






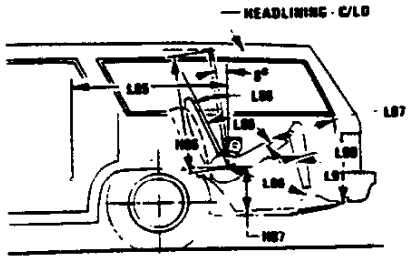


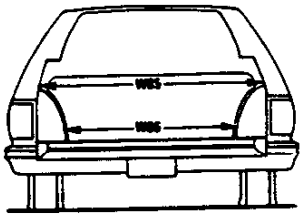




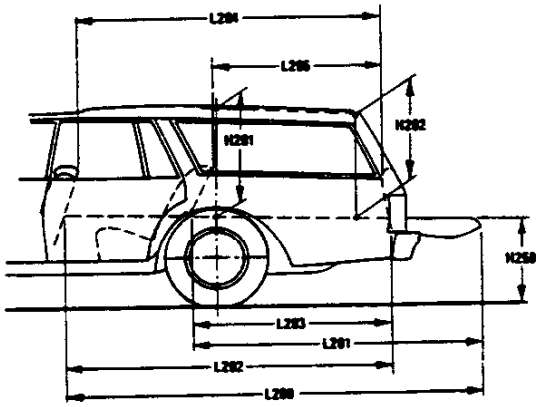
Interior Vehicle And Body Dimensions – Key Sheet

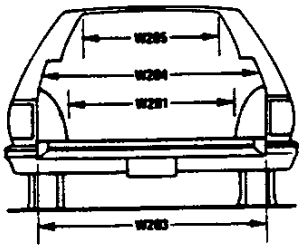
Third Seat



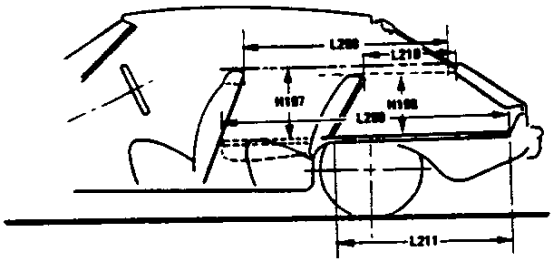


Cargo Space





Station Wagon



Hatchback

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 front 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 centerlines. 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 OVERHAND – FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks 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 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.

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.
W82 "Z" coordinate.
H162 Height "Z" coordinate to ground at curb weight.
H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

L11 ACCELERATOR HEEL 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 undepressed 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.

L-40 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.

L-42 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 measured 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 a vertical to the surface plane of the steering wheel.

H30 SgRP – FRONT TO HEEL. The dimension measured vertically 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 EFFECITVE HEAD ROOM – FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP – front to the headlining plus 102 mm (4.0in.).

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

L-41 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.

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 Volume Index is listed for each body style except two seaters. The Interior Volume Index estiamtes 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 Interior Volume Index is an estimate of the size of the passenger compartment.

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 – 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 8 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 – 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 to the rearmost point on 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 at the 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.

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.

V2 STATION WAGON

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = ft^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{ (cubic meter)}$$

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

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.

V5 TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:

$$\frac{L506 \times W505 \times H503}{1728} = ft^3$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = ft^3$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$$

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.

V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = ft^3$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = m^3 \text{ (cubic meter)}$$

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).

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.

L209 CARGO LENGTH AT FLOOR – FRONT – HATCHBACK. 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.

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT – HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed 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.

L211 CARGO LENGTH AT FLOOR – SECOND HATCHBACK. 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.

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.

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seatback to the undepressed floor covering.

V3 HATCHBACK.
Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = ft^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{ (cubic meter)}$$

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.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = ft^3$$

Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = m^3 \text{ (cubic meter)}$$

MVMA Specifications

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