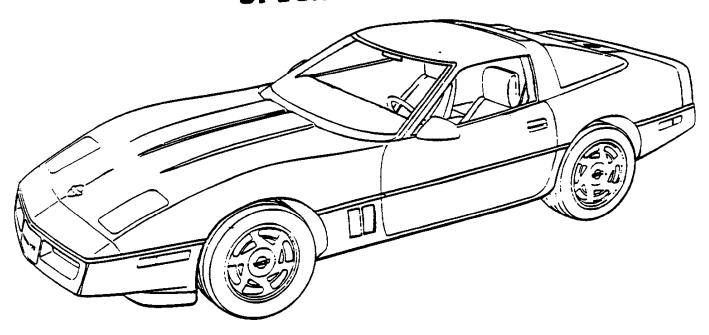


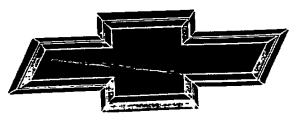
CJICHEVALLE

1990

CORVETTE

SPECIFICATIONS





C PRITITATE C BETTO OT ET



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 ZSB: 350ci, 375hp, ea

ZSC: 350ci, 245hp, 250hp, at, oc

 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 S
1YY07	Base Corvette Sport Coupe	
1YY67	Base Corvette Convertible	
AC1	Power Passenger Seat20,419	
AC3	Power Driver Seat23,109	
AQ9	Sport Seats, leather11,457	1.050.00
AR9	Base Seats, leather11,649	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	
24S	Removable Roof Panel, blue tint (coupe)7,852	
64S	Removable Roof Panel, bronze tint (coupe) .4,340	
C68	Electronic Air Conditioning Control22,497	
FX3	Selective Ride and Handling, electronic7,576	
G92	Performance Axle Ratio	
K05	Engine Block Heater1,585	
KC4	Engine Oil Cooler	
MN6	6-Speed Manual Transmission	0.00
NN5	California Emission Requirements4,035	
UJ6	Low Tire Pressure Warning Indicator	
UU8	Stereo System, Delco-Bose	823.00
U1F	Stereo System with CD, Delco-Bose 15,716	
V56	Luggage Rack (for convertible)	
Z51	Performance Handling Package (for coupe) .5,446	460.00
ZR1	Special Performance Package3,049	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	Black4,759	Bk-W	B-Bk-G-R
42	Turquoise Metallic589	Bk-S	Bk-S
53	Competition Yellow278	Bk-S-W	8k-G-S
68	Dark Red Metallic 2.353	Bk-S-W	Bk-S
80	Quasar Blue Metallic 474	Bk-S	Bk-S
81	Bright Red6.956	Bk-S-W	Bk-G-R-S
91	Polo Green Metallic 1,674	Bk-S	Bk-S
96	Charcoal Metallic878	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



© Michael Bruce Associates, Inc., 1978, 1980, 1983, 1985, 1988, 1991, 1992. All rights reserved under Pan American and Universal Copyright Conventions by Michael Bruce Associates, Inc. Reproduction without permission is prohibited. Because of the possibility of errors, exceptions, or other reasons for inaccuracy, the publisher and author disclaim responsibility for the accuracy of any or all information presented in this publication.

Michael Bruce Associates, Inc. acknowledges with appreciation the following enthusiasts who contributed their expertise to this and previous editions of the corverte Black Book: Notand Adams, Dan Addrége, John Angwert, Pat Baker, Jane Barthelme, Michael Boling, Kent Brooks, Barry Brown, David Burroughs, Sieve Barthelme, Dobbins, Bob Eckles, the tate Sam Folz, John Hibbert, Mike Dangremond, Dr. M. F. Dobbins, Bob Eckles, the tate Sam Folz, John Hibbert, Mike Hunt, Alan Kaplan, Paul Kitchen, Gary Konner, Ralph Kramer and staff, Jim Hrut, Alan Kaplan, Paul Kitchen, Gary Konner, Ralph Kramer and staff, Jim Hrut, Alan Kaplan, Bill Mock, Krughoff, Gary Lisk, Bill Locke, Bob Lojewski, Bob McDoman, Chip Miller, Bill Mock, Krughoff, Gary Lisk, Bill Locke, Bob Lojewski, Bob McDoman, Chip Miller, Bill Mock, Witalie, Jerry Wadsworth, Jerry Weichers and Don Williams. Thanks also to Cataway Engineering, to Mercury Marine, and to the Chevrolet Motor Division of General Motors Corporation.

Molice: The Corrette Black Book and its publisher, Michael Bruce Associates, inc. have no relationship or connection whatever with Hearst Business Media Corporation, its parent or affiliated corporations, or the Black Book published by National Auto Research Division of Hearst Business Media Corporation.

Michael Bruce Associates, Inc. and the Corvette Black Book are not associated with or sponsored by General Motors of its Chevrolet Motor Division.

Cover: Photo and design by Mike Antonick. 1963 Corvette owned by Bit Munzer; restored by Bit Munzer and Don Williams.
Printed and bound in the United States of America.

ISBN: 0-933534-35-3

Mail Order To: Michael Bruce Associates, Inc.

Post Office Box 396 Powell, Ohlo 43065

BOOK TRADE DISTRIBUTION BY:

Chicke Goods Chukernational

Okceels, Wiscomin 14078, USA

ш	
F	
2	
吊	
罗	
8	
×	
0	•
Ħ	
6	
豆	
Z	
녛	
2	
~	

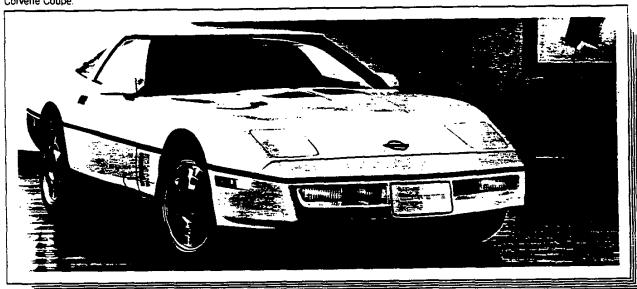
Name Street	Send Co	B E	Mail C	Name Street City	Co. Send
etState	Corvette Black Book 1953-1993 Corvette Black Book 1953-1993 @ \$11.95 each \$ Ohio residents add .72 sales tax Postage/hard shipping container 3.00 Check or money order enclosed \$	BLACK BOOK ORDER FORM	Mail Order To: Michael Bruce Associates, inc. Post Office Box 396 Powell, Ohio 43065	State	Corvette Black Book 1959-1993 Corvette Black Book 1959-1993 Ohio residents add .72 sales tax Postage/hard shipping container Check or money order enclosed \$
Zip	1953-1993 each \$ nitainer	CR FORM	sociates, inc. 96	ZIP	959-1993 sch \$ stax tainer 3.00



CORVETTE 2-Door Coupe 2-Door Convertible MODEL NUMBER 14407 14467

PASSENGER CAPACITY All Models

Corvette Coupe.



HIGHLIGHTS

- · Interior treatment is entirely new for '90 and includes newly designed instrument panel, console, cluster door frim 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 9%"
- wheels
- Optional Delco*/Base premium sound system with digital compact disc and cassette player available.
- New base cooling system negates need for a neovy-duty cooling option.

 One new exterior color, Polo Green Metallic, is introduced.

 Driver's side illuminated visor
- vanity mirror.
- vanity mirror.

 Electronic Selective Ride and Handling option (RPO FX3) available (requires Z5) Performance Handling Package).

 A Low Oil Sensor signals "Low Oil" on the Driver information Panel if level drops supplements.
- evel drops significantly

 An Engine Oil Life Monitor signals
 "Change Engine Oil" when the on-board computer calculates the need for fresh oil

EQUIPMENT AVAII ARII ITY

AVAILABILI I T	(c) the	GUATE,
Power-operated retractable halogen headlamps	\$ \$\$\$\$\$\$	\$ \$ \$
Halogen fog lamps	Ş	Ş
Dual electrically adjusted and heated mirrors	Ş	5
Full-glass rear hatch with roller cargo cover	S	NA
One-piece removable fiberglass roof panel	S	NA O
Full-folding roof	ŊA	5
PASS-Key* anti-theft system	SSSSSS	s s s s
Intermittent wiper system	Š	S
Electronic speed control with Resume Speed	Ş	S
Air conditioning	Ş	
Hented rear window	Ş	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 S	\$ \$ \$
Power door locks	Ş	Ş
Power windows	S	S
Cloth bucket seats with lateral support and back angle adjustment plus		_
wool-pad comfort liner	Ş	Š
Outside engine air induction	S	Ş
P275/40ZR-17 Eagle radial tires	S	5
17" x 9½" cast aluminum wheels	Ş	ွ
Power 4-wheel disc brakes	Ş	S
Bosch ABS II anti-lock braking system	Ş	Ş
Power rock-and-pinion steering	Ş	5
Heavy-duty Bilstein gas-charged shock absorbers	Ş	S
Undernood lamps	S	Ş
Acoustical insulation package	ดดดดดดดดดดด	, , , , , , , , , , , , , ,
Unifrome-design body structure with corrosion-resistant coating	S	S

S-Stangara NA-Not Available

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

D E

WHEEL TRIM



Standard Corvette 17" x 9½" cast aluminum wheels.

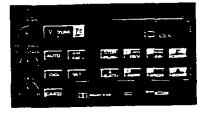
RADIOS



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



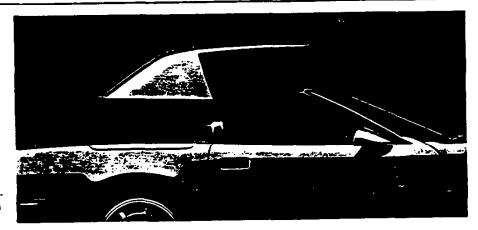
Optional Delco*/Bose Music System, with electronically tuned AM/FM stereo radio with Seek and Scan, stereo cassette tape player, digital clock and four tuned Bose stereo speakers (RPO UU8).



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.

© 1989 General Motors Corporation. All rights reserved. The Chevrolet emblem is a registered trademark of General Motors Corporation.

All illustrations and specifications in this prochure are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time, without notice, in calors, materials, specifications and models, and also to discontinue models. Chevrolet Motor Division, General Motors Corporation, Warren, Michigan, 48090.



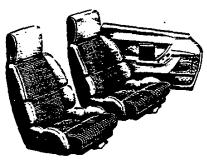
Refer to Passenger Car Order Guide for option availability and application.

SEAT TYPES & COLORS

CORVETTE STANDARD CLOTH SEAT TRIM



Standard sport cloth frim available in Black or Saddle.



Standard sport cloth rectining bucket seats with integral head restraints and wool-bad comfort liner.

CORVETTE OPTIONAL LEATHER BUCKET SEATS



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

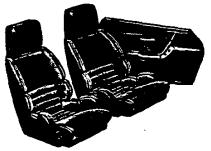


Optional leather reclining bucket seats with integral nead restraints and wool-pad comfort liner.

CORVETTE OPTIONAL SPORT SEATS WITH LEATHER TRIM*



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

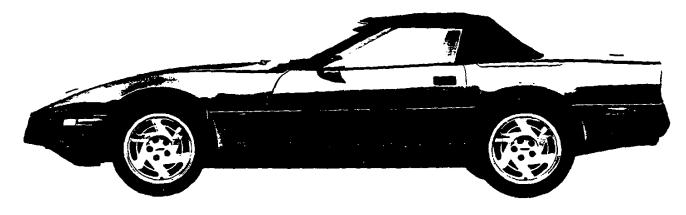


Optional articulated sport seats with leather trim."

"Available only with RPO Z51 Performance Handling Package.

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

CONVERTIBLE TOP COLORS







10T-White.

191-Black.

67T-Saddie.

PREFERRED EQUIPMENT GROUPS

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

	CORVETTE COUPE	CONVETTE CONVERTIBLE
DESCRIPTION	P.E.G.	P.E.G.
Electronic Air Conditioning	X	X
Delco ³ /Bose Music System	X	X
Power Seat (Driver's)	χ•	Χ÷
INDIVIDUAL OPTIONS		
Radio Equipment		
Delco*/Bose Music System	Χ*	Χ*
Delco*/Bose Music System with Digital Compact Disc and Cassette Player	0	0
Additional Individual Options		
Electronic Air Conditioning	χ*	X*
Performance Ratio Axle	0†	O†
Engine Block Heater	0	0
Low Tire Pressure Warning	0	0
Performance Handling Package	0t**	
Power 6-Way Seat (Passenger's)	0	0
Roof Panels-Transparent Removable-Blue Tint	Ö	
Roof Panels—Transparent Removable—Bronze Tint	0	
Roof Package (Incls. Standard Solid Panel and Transporent Blue or Bronze Tint Panels)	0	
Electronic Selective Ride and Handling (Regs. Z51)	0	
Luggage Carner (Black)		0
Hardtop, Removable		0

X-included in PE.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.

CHEVROLET SPECIFICATIONS — 1990 CORVETTA

MODELS	PASSENGERS
Coupe 1YY07	2
DIMENSIONS (inches)	
EXTERIOR Wheelbase Length (overall) Width (overall)	176.5
INTERIOR Head Room-Front Shoulder Room-Front Hip Room-Front Leg Room-Front	54.0 49.3
LUGGAGE/CARGO CAPACITY (cu. Luggage Compartment	Coupe 17.9
RATED FUEL TANK CAPACITY (ga	iions) 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-Kev 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 Whee 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**

*May be upgraded

SEAT STYLES

Glove Box

STANDARD SEATS
Cloth Standard Bucket Seat

Acoustical Insulation Package

ScotchgardTM Fabric Protector

Illuminated Drivers Vanity Mirror

OPTIONAL SEATS
Leather Bucket
Leather Adjustable Sport Bucket

CORVETT

COLOR AND TRIM SELECTION

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

interior	Trim Calor	Blue	Black	Gray	Red	Saddle
MODEL	SEAT TYPE					
[Leatner Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
17707	* Lestner Adjustable Sport Bucket	ADD8	ABBB	8QQA	AAAS	AUU8
	Cloth Bucket		HB82			ี หบบ2

^{*}Regs AC1 & AC3 Power Seats

✓ SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Biue	Black	Gray	Red	Saddle
Black	41	41	•	•	•	•	e
Sive, 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 NAS STANDARD EMISSIONS				
L98 MXO	Std	G82		
MNS		<u> </u>	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

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

	ENGIN	E (Must Order)		INTER	IOR TRIM
N.C		5.7 Liter TPI V8	425.00	A**2	Leather Bucket
11.0.		SMISSION (Must Order One)	1,050.00	A**8	Leather Adjustable Sport Bucket
N.C.		4-Speed Automatic	N.C.	H**2	Cloth Bucket
N.C.		6-Speed Manual (Regs KC4 Eng Oil		ADDIT	IONAL OPTIONS
11.0.		Cooler)	180.00	C68	Air Conditioning, Electronic (Inci
	FMISS	ION (Must Order One)			w/Group CVA1)
N.C.	NA5	· · · · · · · · · · · · · · · · · · ·	22.00	G92	Axle, Performance Ratio (N/A MN6
100.00		California Emissions			Trans) (Regs KC4 Eng Oil Cooler)
.00.00	TIRES		110.00	KC4	
N.C.		P275/40 ZR17 B/W (Base)	20.00	K05	Heater, Engine Block
	WHEE		325.00	UJ6	Low Tire Pressure Warning
N.C.		17 X 9 1/2" Aluminum Wheels (Base)	460.00	Z5 1	Performance Handling Package (Rec MN6 Trans) (Incls Special
	RADIO	EQUIPMENT			Suspension)
V.P.S.		AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape Player, Power	270.00	AC3	Power Seat, Six-Way (Driver) (Incl w/Group CVA1)
V.P.S.	UU8	Antenna and Digital Clock (Base) Delco/Bose Music System.	270.00	AC1	Power Seat, Six-Way (Passenger) (Regs AC3 Power Seat)
V.F.S.	008	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo	615.00	245	
		Cassette Tape and Digital Clock (Incl w/Group CVA1)	615.00	645	Roof Panels-Transparent Removable Bronze Tint
V.P.S.	U1F	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo	915.00	C2L	Roof Package (Incls Std Solid Panel and Transparent Panel) (Regs 24S or 64S Panel)
		Cassette Tape, Compact Disc Player and Digital Clock	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.

intenor	Trim Color	Blue	Black	Gray	Red	Saddle
MODEL	SEAT TYPE					
	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
14467	* Leather Adjustable Sport Bucket	ADD8	_AB88	8QQA	ARRS	AUU8
[Cloth Bucket		HBB2			HUU2

^{*}Regs 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	197	107/197	107/197	19T	
Blue, Med Quasar (Met)	80	80		197			671
Blue, Steel (Met)	25	25	10T/19T	10T/19T			
Charcosi, Corvette (Met)	96	96		10T/19T	10T/19T		
Polo Green, Corvette (Met)	91	91	,	19T/67T			197/677
Red. Corvette Bright	81	81		10T/19T	107/197	10T/19T	197/677
Red, Corvette Dk	68	68		10T/19T			19T/67T
Turquoise (Met)	42	42		197			67T
Yellow, Competition	53	53		10T/19T	10T/19T		19T/67T
White, Corvette	10	10	101	10T/19T	10T/18T	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	<u> </u>
	2.59	2.73	3.33
WITH NAS STANDARD EMISSIONS			
L98 MXO	Std	G92	-
MN6		} . _	Sto
WITH NN5 CALIFORNIA EMISSIONS			
L98 MXO	Std	G92	_
MN6	1 _	i _	Std

37,764.00 Model 1YY67

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

1,273.00 Preferred Equipment Group 1

Air Conditioning – Electronic
Delco/Bose Music System. Electronically Tuned AM/FM
Stereo Radio w/Seek-Scan, Stereo Cassette Tape and
Digital Clock
Power Seat (Driver)

CYA1.

X

X

X

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

REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

	ENGIN	E (Must Order)			IOR TRIM
N.C.			425.00	A**2	Leather Bucket
14.0.		SMISSION (Must Order One)	1,050.00	A**8	Leather Adjustable Sport Bucket
		4-Speed Automatic	N.C.		Cloth Bucket
N.C.	MAN	6-Speed Manual (Regs KC4 Eng	****	ADDIT	IONAL OPTIONS
N.C.		Oil Cooler)	180.00	C68	Air Conditioning, Electronic (Incl w/Group CYA1)
		ION (Must Order One)	22.00	G92	
N.C.	NA5		22.00	U 32	Trans) (Regs KC4 Eng Oil Cooler)
100.00	NN5	California Emissions	440.00		
	TIRES		140.00	V56	
N.C.		P275/40 ZR17 B/W (Base)	110.00		
	WHEE		1,995.00		
N.C.		17 X 9 1/2" Aluminum Wheels	20.00		Heater, Engine Block
14.0.		(Base)	325.00	UJ6	Low Tire Pressure Warning
	PADIC	EQUIPMENT	270.00	AC3	Power Seat, Six-Way (Driver) (Incl
V.P.S.	17AD1	AM/FM Stereo Radio w/Seek-Scan,			w/Group CYA1)
V.F.3.		Stereo Cassette Tape Player, Power Antenna and Digital Clock (Base)	270.00	AC1	Power Seat, Six-Way (Passenger) (Reqs AC3 Power Seat)
V.P.S.	UU8		1,695.00	FX3	Selective Ride and Handling,
¥.F.Q.	000	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock (Incl w/Group CYA1)			Electronic
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			

	-			
			• •	
•				
		·		

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 (ESI))
Sensitive Parts	0A-1
Vehicle Identification Plate	UA-2
Engine Identification	0A-2
Transmission Identification	0A-2
Transmission Usage	0A-5
Tire Information	0A-5
General Vehicle Lifting and	
Jacking Procedures	0A-5

)A-6
)A-6
A-10
A 11
4-11
A-12
4-13
A-14

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

NOTICE



CONTENTS SENSITIVE
TO
STATIC ELECTRICITY

26882.5A.R1

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.

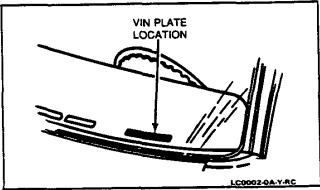


Figure 2 Vehicle Identification Number Plate Location

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.

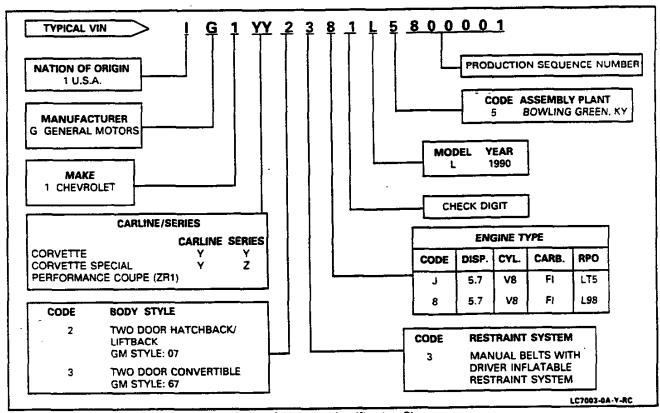


Figure 3 Vehicle Identification Chart

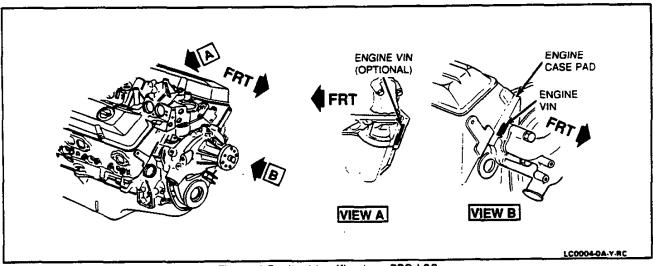


Figure 4 Engine Identification - RPO L98

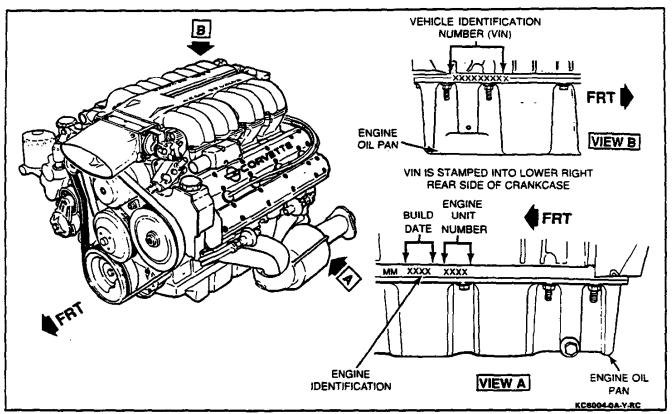


Figure 5 Engine Identification - RPO LT5

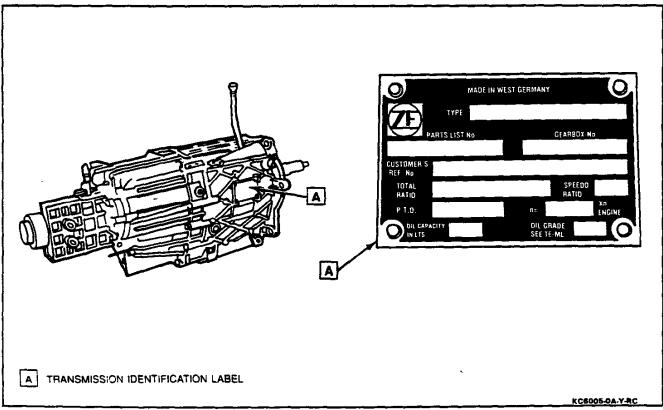


Figure 6 Manual Transmission Identification

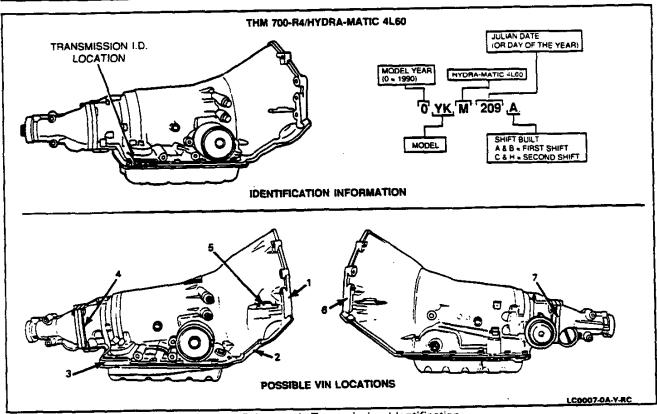


Figure 7 Automatic Transmission Identification

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 Sieeve

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

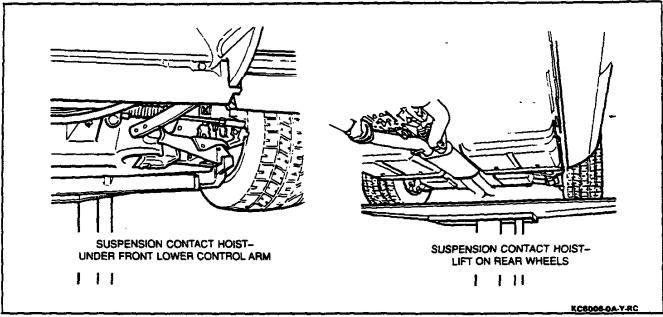


Figure 8 Vehicle Lift Points

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

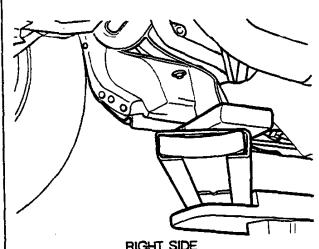
Figures 14 and 15

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.

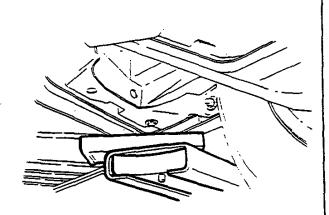
A prevailing torque bolt is designed to develop an interference between bolt and nut threads, or the threads of a tapped hole. This is accomplished by distorting some of the threads, or by using a nylon patch or adhesive.

Recommendations For Reuse:

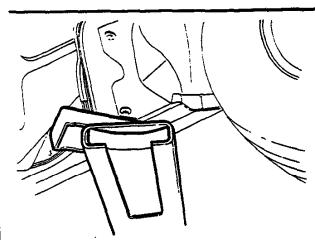
- Clean, unrusted prevailing torque nuts and bolts may be reused as follows:
 - a. Clean dirt and other foreign material from nut or bolt.
 - b. Inspect nut or bolt to assure there are no cracks, elongation, or other signs of abuse or overtightening. If there is any doubt, replace with a new prevailing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



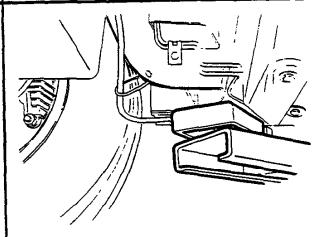
RIGHT SIDE FRAME CONTACT HOIST REARWARD OF FRONT WHEEL



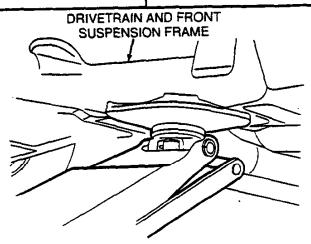
LEFT SIDE FRAME CONTACT HOIST REARWARD OF FRONT WHEEL



RIGHT SIDE FRAME CONTACT HOIST FORWARD OF REAR WHEEL



LEFT SIDE FRAME CONTACT HOIST FORWARD OF REAR WHEEL



FLOOR JACK-FRONT

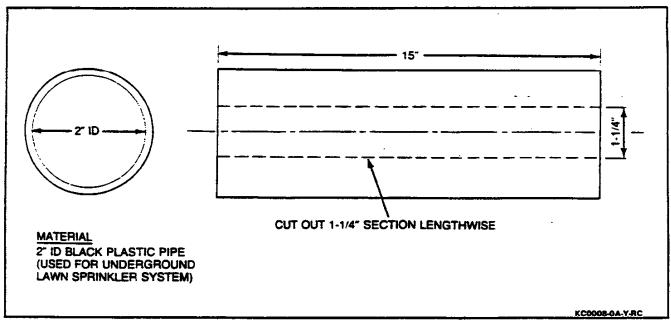


Figure 10 Support Rod Protector Sieeve

- 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.

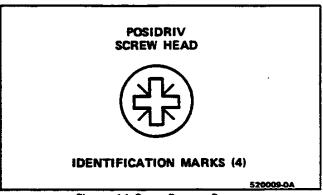


Figure 11 Cross-Recess Screw

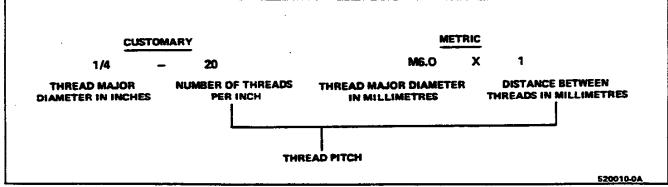


Figure 12 Thread Notation

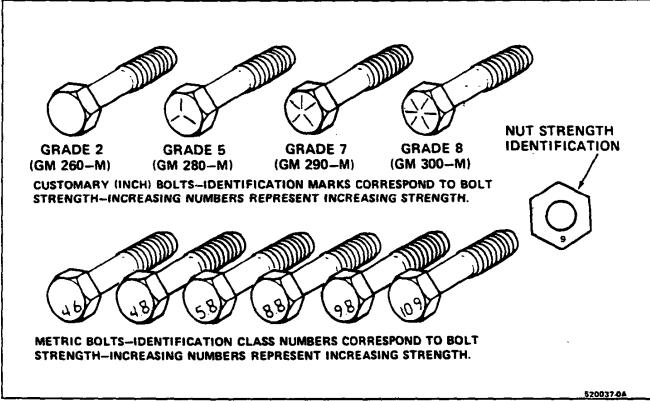
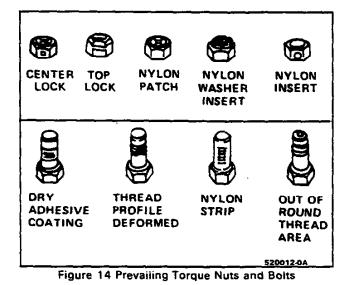


Figure 13 Fastener Strength Markings



				MET	rate:	DZES I	MM1		
			635	1	10	12	14		20
VUTS AND	N4	-	0.4	0.1	1.4	2.2	20	42	7 9
ALL METAL BOLTS	IN.	L 8 5.	4.0	7.0	12	78	25	79	, ,
ADMESIVE OR NYLON	l No		04	0.0	1.3	1.6	24	34	100
COATED BOLTS	4N. 1		4.0	5.0		755	20	20	-
) 10 CH SI				
								20	
		. 4 5.			CH SI	ZES		657	
COATED BOLTS	(N. 1	.250	.312	.375	CH 51	ZES .500	962 17	657	-
NUTS AND	Nem	.250 0.4	.312	375 1.4	CH 51	ZES 500	962 37 27	630 61	- N

Figure 15 Prevailing Torque Chart

		METRIC-ENGLISH CONVERSION TABLE	METRIC-ENGLISH C		
			160 200 ²¹²	40 120 20 40 60	40 64 40 20 50
Kilometers/ni. įkitynį	5 809.7	Miles/hour	degree Celsius (C)	(1°F-3Z) + 1.8	Degree Fahrenheit
	VELOCITY	;		TEMPERATURE	
kilometers/liter (km/l) liter/kilometer (i/km)	0.425 1 2.352 7	Miles/gal Gal/mile	newtons (N) newtons newtons	9.807 0.278 0 4.448	Kilogram Ounca Pound
	FUEL PERFORMANCE		:	FORCE	
lumens/meter ² (lm/m ²)	1.076 4	Foot candle	tonne (t)	0.801	Ton
-	LIGHT		kilograms (kg) kilograms (kg)	0.453 6 907.18	Pound Ton
joules (J = one W's)	3 600 000. or 3.6 x 10°	Kilowatt-hour		MASS	
loules	1.355 8	Foot-pound	meters ³ (m ³)	0.764 6	Yard³
11 4471	100		liters	3.785 4	Gellon
	ENERGY OR WORK		liters (I)	0.0184	
kilopascals (kPs) kilopascals	0.249 1 6.895	Inches of water Pounds/sq. in.	mm³ cm³	16 387.	Inch ³
	PRESSURE OR STRESS			VOLUME	
kilowatts (kW)	0.746	Horsepower	meters ²		Yerd ²
	POWER		centimeters (cm²)	6.45	Inch*
newton-meters (N·m) newton-meters	0.112 98 1.365 8	Pound-inch Pound-foot	•	AREA	•
	TORQUE		kilometers (km)		Mile
meter/sec² (m/s²) meter/sec²	0.304 8 0.026 4	Foot/sec ² Inch/sec ²	millimeters (mm) meters (m)	25.4 0.304 B	Foot Verd
	ACCELERATION			LENGTH	
to get equivalent number of:	py	Muttiply	to get equivalent number of:	ру	Multiply

DECIMAL AND METRIC EQUIVALENTS

			•		
Fractions	Decimal	Metric	Fractions	Decimal	Metric
	in.	MM.	•	In.	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	.1718 7 5	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	
25/64	.390625	9.92187	57/64		
13/32	.40625		29/32		
27/64		_	59/64		
7/16			15/16		
29/64			61/64		
15/32			31/32		
}	.484375		63/64		
1/2	.500	12.70000	1	1.00	25.40000
i					

520014-0A

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

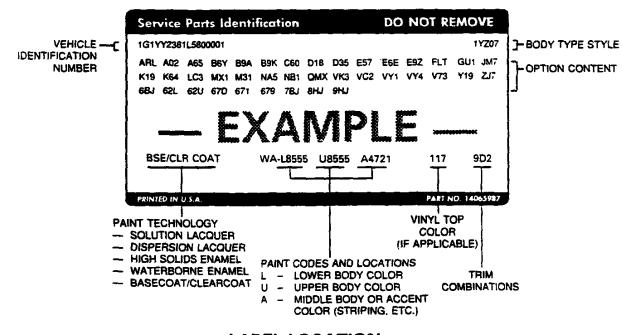
X-Value - Expansion Valve

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 af-

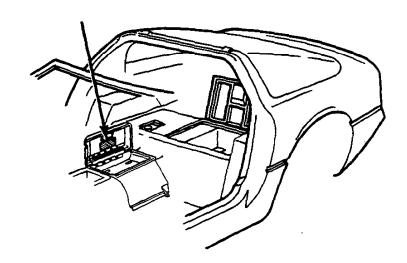
fixed to the inside of each passenger car vehicle at the assembly plant.

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



LABEL LOCATION

CORVETTE



PRODUCTION AND PROCESS CODES

ACI	The state of the s
	Passenger's Seat Adjuster, b-way rower
AC3	Driver's Seat Adjuster, 6-way Power
AJ3	
AQ9AR9	Seat. Reclining
ADO	Seat European Style Reclining
CC2	Roof Auxiliary
~~~	Doof Downlo Donal (Pleasie)
CC3	Rooi, Removable Panel (Plastic)
CF7	Roof, Removable (Non-1 ransparent)
C2L	. Roof Package, Consists of CC3 and CF7
C60	Air Conditioner, Manual Controls
C60 Air C	anditioner Automatic Electronic Controls
DL8	Mirror Heated Outside
DL0	Care Canada and Driver (26612040)
D3X	Gear, Speedometer Driven (25513049)
D4D	Gear, Speedometer Driven (2551304/)
D4L	Gear, Speedometer Driven (25513050)
D7B	Gear, Speedometer Driven (25513043)
D7C	Gear, Speedometer Driven (25513045)
D74	Missor Incide Vicor Vanity Illuminated
D/4	. Willion, history validy, indiminated
D9A	Sensor, venicle Speed (2500/224)
D9B	Sensor, Vehicle Speed (25007308)
FE1	Suspension, Soft Ride
FE7	Suspension, Heavy Duty
FX3	Ride and Handling, Electronic
GH0.	Rear Axie 3 54 Ratio
GM1	Deer Avia 250 Datio
GM1	Rear Axie, 2.37 Rado
<u>GM3</u>	Kear Axie, 3.45 Kano
GT7	Rear Axle, 3.33 Ratio
GU2	Rear Axle, 2.73 Ratio
G44	
G87	Ring Gear, 8.5 Inch
G92	Dear Arla Performance Patio
TT A	Design And I sale Esset and Deer Disc
JL9	Brakes, Ann-Lock Front and Rear Disc
J55	Brakes, Heavy Duty
KC4	
VAS	
CVA	Heater, Engine Block
K09	
K09	Generator, 120 Amp
K09	Generator, 120 Amp Generator, 105 Amp
K68LT5	Generator, 120 Amp Generator, 105 Amp Generator, 105 Amp Generator, 105 Amp Generator, 105 Amp
K09	Generator, 120 Amp Generator, 105 Amp Generator, 105 Amp Generator, 105 Amp Generator, 105 Amp Generator, 120 Amp Generator, 120 Amp Generator, 120 Amp Generator, 120 Amp
K09	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp
K09	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NN5 NK4 QA1 OA2 Wheel 17 x 9	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NN5 NK4 QA1 OA2 Wheel 17 x 9	Generator, 120 Amp Generator, 105 Amp Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NN5 NK4 QA1 QA2 Vheel, 17 x 9	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 T61 T93 UJ6	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2	Generator, 120 Amp Generator, 105 Amp Generator, 104 Color Generator, 105 Amp Generator,
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2	Generator, 120 Amp Generator, 105 Amp Generator, 104 Color Generator, 104 Color Generator, 104 Color Generator, 104 Color Generator, 105 Amp Gener
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2	Generator, 120 Amp Generator, 105 Amp Generator, 104 Color Generator, 106 Amp Generator, 107 Amp Generator, 107 Amp Generator, 108 Amp Generator, 105 Amp Generator,
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2	Generator, 120 Amp Generator, 105 Amp Generator, 107 Automatic, 4-Speed, 4L60 Generator, 106 Automatic, 4-Speed, 4L60 Generator, 108 Generator, 1
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 Wheel, 17 x 9 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a UU8 Radio, AM UXO UIF Radio, AM UXO UIF Radio, AM/FM S U19 U52 V56 XAU YAU	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NN5 NK4 QA1 QA2 Wheel, 17 x 9 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a UU8 Radio, AM UXO UIF Radio, AM/FM Stereo U19 U52 V56 XAU YAU YBE ZR1	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 Wheel, 17 x 9 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a UU8 Radio, AM UXO UIF Radio, AM UYO UIF Radio, AM/FM S U19 U52 V56 XAU YAU YBE ZR1 Z51	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 QA2 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a UU8 Radio, AM UXO UIF Radio, AM/FM S U19 U52 V56 XAU YAU YAU YBE ZR1 Z51	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 QA2 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a UU8 Radio, AM UXO UIF Radio, AM/FM S U19 U52 V56 XAU YAU YAU YBE ZR1 Z51 10T	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 QA2 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a UU8 Radio, AM UXO UIF Radio, AM/FM S U19 U52 V56 XAU YAU YAU YAU YAU YBE ZR1 Z51 10T 10U 19C	Generator, 120 Amp Generator, 105 Amp Generator, 10
K09 K68 LT5 L98 MD8 ML9 NA5 NN5 NK4 QA1 QA2 QA2 QA2 T61 T93 UJ6 UM6 Radio, AM/FM Stereo, Seek a UU8 Radio, AM UXO UIF Radio, AM/FM S U19 U52 V56 XAU YAU YAU YBE ZR1 Z51	Generator, 120 Amp Generator, 105 Amp Generator, 10

19T	Top Color, Black
193	Trim Combination, Black Leather
199	Safety Belts, Black
20U	Exterior Color, Nassau Blue Metallic
223	
229	Safety Belts, Steel Blue
24S	Roof, Blue Removable Panel
25[]	Exterior Color, Metallic
41U	
42U	Exterior Color, Turquoise Metallic
53U	Exterior Color, Competition Yellow
	Trim Combination, Cognac Cloth
601	Interior Trim, Cognac
603	Trim Combination, Cognac Leather
609	
64S	
67T	
68IJ	Exterior color, Brilliant Red Metallic
731	
733	Trim Combination, Flame Red Leather
739	Safety Belts, Flame Red
8011	Exterior Color, Medium Quasar Blue Metallic
81U	
901	
903	Trim Combination, Smoke Gray Leather
909	Safety Belts, Smoke Gray
0111	Exterior Color, Polo Green
0611	Exterior Color, Dark Smoke Gray Metallic
- 70U	Exicitor Color, Dark Shioke Gray Metanie

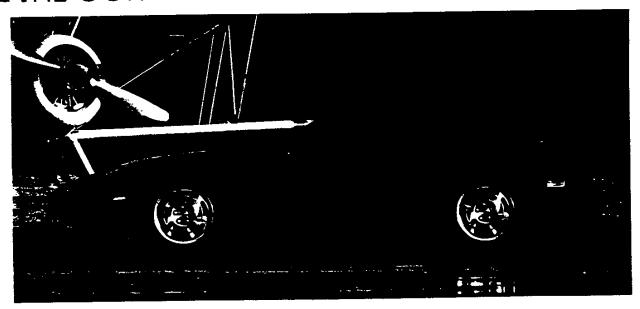
				2
				٤
				i.
•				
	•			
			• •	
		•		
	•			
			•	
		•		
			•	
-				

# NDEX

1	THE CORVETTE STORY
2	MODEL OVERVIEW
3-4	MAJOR SELLING FEATURES PRESENTATION .
5	NEW FOR '90
6-7	DRIVETRAIN FEATURES
8-9	CHASSIS FEATURES
10-11	BODY FEATURES
12-13	INTERIOR FEATURES
14-15	COLOR AND TRIM SELECTION
16-17	SPECIFICATIONS AND DIMENSIONS
18-19	EQUIPMENT SUMMARY
20	PREFERRED EQUIPMENT GROUPS

			·					
		•						
							•	
								•
					-			
						• •		
							-	
				•				
			•					
					•	•		
			-				-	
							-	
		•						
	•							
			•					
					•			
_				 _				_

# 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

## **C**ORVETTE MODEL OVERVIEW

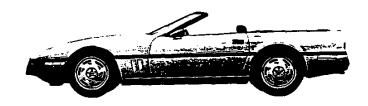
#### **C**ORVETTE COUPE

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 onepiece 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.



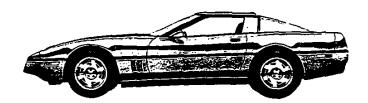
#### CORVETTE CONVERTIBLE

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.

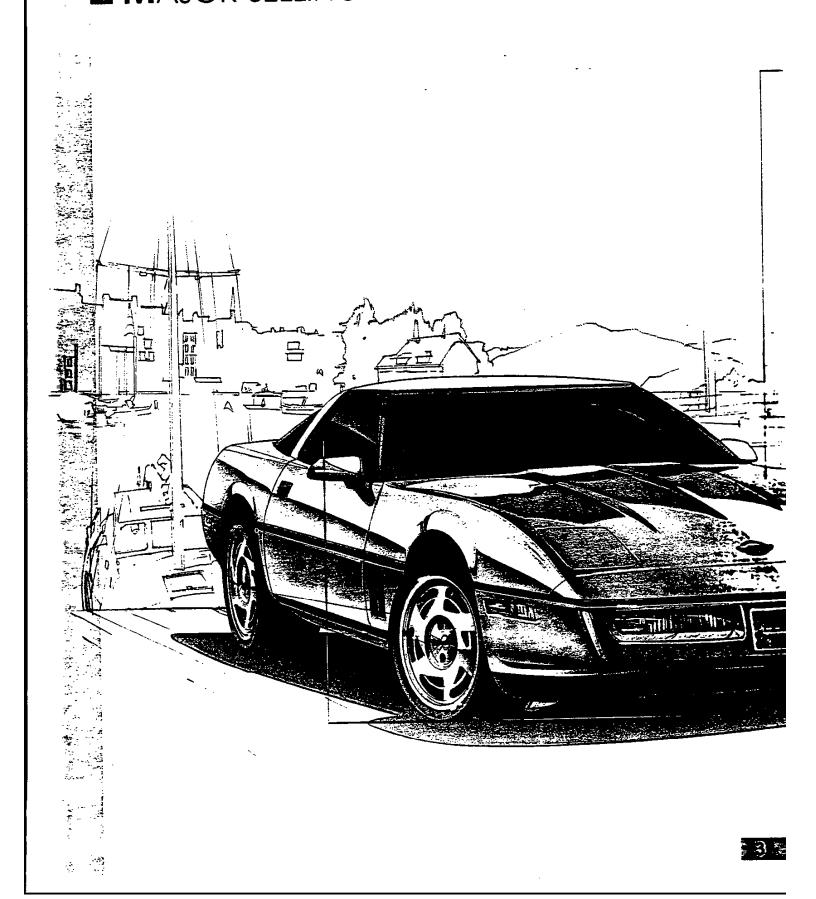


#### **C**ORVETTE ZR-1 COUPE

This new 1990 special model is powered by the potent Dual Overhead Cam, 32valve, all-aluminum 5.7-liter TPI V8. This LT5 engine produces 375 horsepower @ 5800 RPM and is teamed with the computer-controlled 6speed 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 antilock 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

#### **H**IGHLIGHTS

- 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™ stainresistant 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.





## **D**RIVETRAIN FEATURES

#### **ENGINES**

5.7-LITER V8 WITH TUNED-PORT FUEL INJECTION

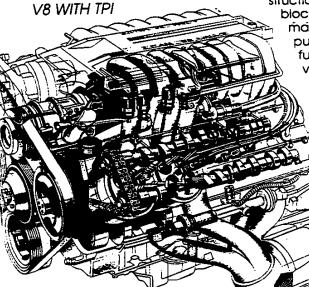
The standard source of power is the proven L98 5.7-liter (350 CID) V8 with Tuned-Port Fuel Injection. Features important to the performance-minded buyer include:

- 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 LTS 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 horse-power 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.

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 enaine 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.

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.

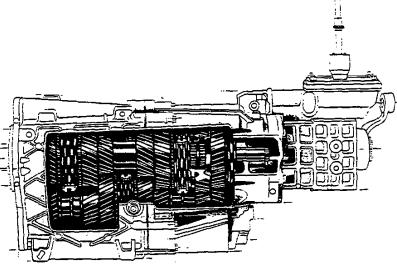
The bottom line is that this new engine delivers outstanding power and performance at both ends of the spectrum.

#### **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 precalibrated 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**

and the second of the second o	And the second s	ORDERING	AXLE
ENGINE/TRANSMISSION	AVAILABILITY	CODE	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 (GP2) performance axie option

^{*3.07.1} w/performance axie option (G92) on Coupe. 2.73.1 w/performance axie option (G92) on Convertible



#### **S**TEERING

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

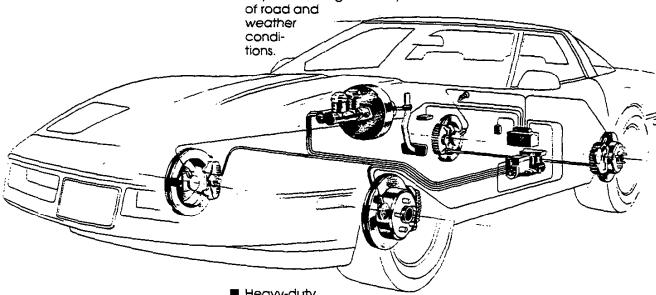
- Heavy-duty vane-type pump to ensure consistent hydraulic pressure.
- Overall ratio of 13.0:1 for quick steering response.
- 1.96 lock-to-lock turns on the Z51 handling package, for excellent turning response.
- Ability to manually steer the vehicle should hydraulic pressure drop.

#### STANDARD ANTI-LOCK BRAKES

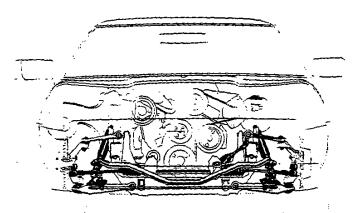
The Bosch ABS Anti-Lock Braking System nelps the driver maintain vehicle maneuverability under full braking action on most road surfaces.

This advanced computercontrolled 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 rearwheel discs provide sure response during a variety



- 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 gaspressurized 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.

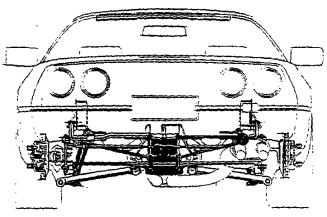
#### Selective Ride Control

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.

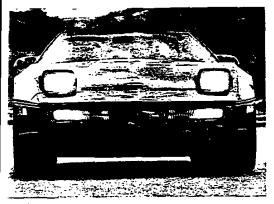




## **B**ODY FEATURES

#### **S**TYLING

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.
- Winashield 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 natch 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-gailon 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

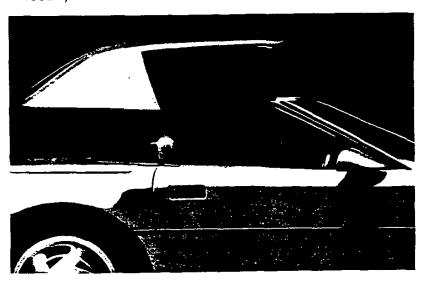
Over and above the features of the standard Coupe, the Convertible offers:

- 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 colorkeyed and can be removed or attached as needed.

#### Corvette ZR-1 High-Performance Coupe

The high-performance 32valve 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.



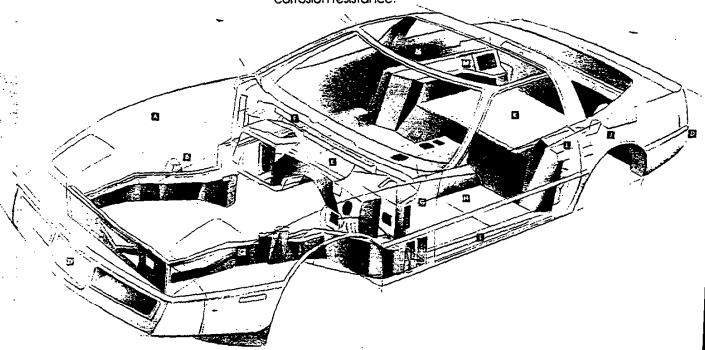
- The tires are mounted on 17-inch by 11-inch lighter weight aluminum rear wheels.
- Flared auarter panels in the rear and convex rear fascia help add to the exterior appearance.
- Reflective rectangular tail lenses and ZR-1 identification badge help other drivers identify what has passed them by.
-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

## **B**ODY PROTECTION FEATURES

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

- Lightweight fiberglass body panels that, unlike metal panels, are corrosion-free.
- High-gloss acrylic enamel basecoat with clearcoat finish, for gleaming good looks.
- Integral perimeter frame of two-sided galvanized steel, for structural rigidity and corrosion resistance.

- Sill area noise-control adhesive pads.
- Rear quarter pocket insulators.
- Cargo area insulator pads.
- Noise-control blocks to help diminish road noise.
- Rear wheelhousing/ sidewall pads.
- Sidewall and cargo area insulator pads.



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





## **INTERIOR FEATURES**

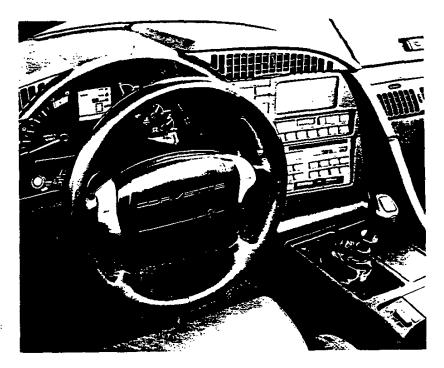
## THE COMFORT AND CONVENIENCE STORY

#### 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, heafer 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.

## TPANEL

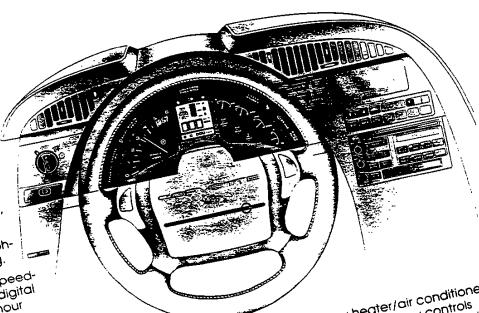
nor design ments and nree sides of the ick, easy reading ion, including: wer mirror and controls are ed on the driver's

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

w tog lamp switch. w headlamp control. r easy identification.

.ew tachometer graphas for easy monitoring.

New fuel gage and speedometer 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 a "check gages" service messages.
    - New trip computer for specific mileage refer-
      - Driver information center alerts driver of specific vehicle functions such as: full engine power, low fire pressure, low coolant. service ride select. inflatable restraint, serviceengine-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).





## **C**OLOR AND TRIM SELECTION

AT STYLES & TRIM (	COMBINATIONS	•		INTERIOR C	OLORS		
Model	Seat Type	Blue	Black	Gray	,	Red	Saddle
Corvette Coupe	Cloth Bucket		HBB2		• •		HUU2
	Leather Bucket	ADD2	ABB2	AQQ	2 /	ARR2 -	AUU2
	Leather Adjustable Sport Bucket*	ADD8	ABB8	AQQ	88	ARR8	AUU8
Corvette	Cloth Bucket		HBB2				HUU2
Convertible	Leather Bucket	ADD2	ABB2	AQQ	2	ARR2	AUU2
ZR-1 Coupe	Leather Adjustable Sport Bucket*	ADD8	ABB8	AQQ	8	ARR8	AUU8
ORVETTE COUPE A	ND ZR-1 CORVETTE COU	PE (EXTERIOR)	INTERIOR	COMBINATIO	ONS)		
Exterior Paint Colo		Color	<u> </u>	In	terior Col	ors	
	•	Code	Blue	Black	Gray	Red	Saddle
Black		41	Х	X	X	X	
Blue, Steel (Met.)		25	<del></del>	X			
Charcoal (Met.)		96		Х	X		
Green, Polo (Met.	)	91					X
Red, Bright		81		X	X	Х	X
Red, Dark (Met.)	-	68		X			X
White		10	X	X	Х	Х -	. Х
ORVETTE CONVER	TIBLE (EXTERIOR/INTERIO	R COMBINATI	ONS)		Y.		
Exterior Paint Cold		Color		Interior & C	onvertible	Top Color	S
		Code	Blue	Black	Gray	Red	Saddle
Black		41	191	10T/19T	101/191	19T	
Blue, Steel (Met.)	<del></del>	25		10T/19T			
Charcoal (Met.)	· · · · · · · · · · · · · · · · · · ·	96		10T/19T	101/191		
Green, Polo (Met	.)	91			101/191		191/67
Red, Bright		81		101/191	101/191	101/191	191/67
Red, Dark (Met.)		68		101/191			191/6/
White		10	101	101/191	101/191	10T/19T	101/67
Convertible Top C	Colors	White	1OT	Black	191	Saddle	671

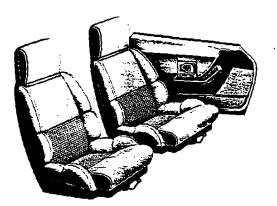
^{*}Requires RPO AC1 and AC3 Power Seats and Z51 Performance Handling Package.

#### WHEELS AND WHEEL COVERS

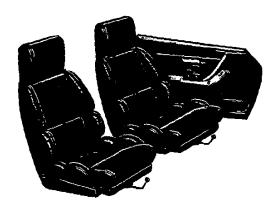


17-inch by 9 1/2-inch Cast Aluminum Wheels are standard on the Coupe and Convertible for 1990. Larger 17inch by 11-inch Cast Aluminum Wheels are only available for the rear wheels of the high-performance ZR-1 Coupe.

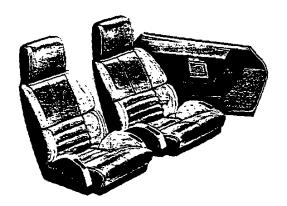
#### **S**EAT AND DOOR TRIM



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

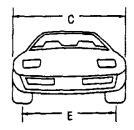


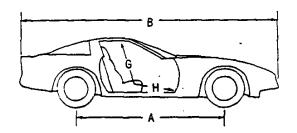
Optionally available on the Convertible and Coupe models are reclining bucket seats with leather seating surfaces, integral head restraints and wool-pad comfort liner.

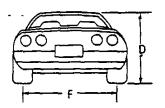


Standard on the ZR-1 and optional on the Coupe are Sport adjustable buckets with leather trim. Both driver and passenger seats feature full power adjustments for lumbar and backrest.

# SPECIFICATIONS AND DIMENSIONS







IMENSIONS			
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 clea	rance 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 — fron	53.8	53.8	53.8
Hip room — front	49.3	49.3	47.3
Luggage Compartment Co	pacity		
Usable luggage space		6.6*	17.9
Rated fuel Tank Capacity		20.0	20.0 3479
Curb Weight (approx. pour	nds) 3255	3301	
HASSIS SPECIFICATIONS	e op it in the second particular on the second	A ST C	
Brakes	Base	Convertible	ZR-1
Type	4-Wheel vented disc dual piston	4-Wheel vented disc	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			
Туре	MacPherson strut with coil springs	MacPherson strut with coil springs	MacPherson strut with coil springs
Suspension — Rear			
Туре	5-Link Independent	5-Link Independent	5-Link Independent

[&]quot;With top up, 42 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 (lbsft.)	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 ccc	630 cca
Cooling system capacity (ats.)	16.7	14.6 manual, 14.5 automatic
RANSMISSION SPECIFICATIONS	The second secon	
The second secon	4-Speed	6-Speed Manual (MN6)

4-Speed Automatic (MX0)	6-Speed Manual (MN6)	
Aluminum	Aluminum	
3.06	2.68	
1.63t	1.80	
1.00t	1.31	
0.70 <del>1</del>	1.00	
	0.75	
	0.50	
2.29	2.50	
	Automatic (MX0) Aluminum 3.06 1.63t	

tConverter clutch engagement.

^{*}SAE net.
**250 horsepower and 350 lbs.-ft. of torque with Sport Exhaust. Refer to Powerteam Availability for restrictions.

## EQUIPMENT SUMMARY

MECHANICAL	Corvette Coupe	CORVETTE Corvette Conv.	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	<u>\$</u>
Outside air induction system	S	S	S
Aluminum intake plenum, tuned crossover runner manifold	S	S	<u> </u>
Roller hydraulic valve lifters	S	S	S
Exhaust valve rotators	\$	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
	s	S	S
Single serpentine accessory drive belt	S	s	S
Computer Command Control	s		S
High energy ignition (HEI) system	s		s
Electric engine cooling fan	s	s	S
Delco Freedom maintenance-free battery	<u>s</u>	S	S
Underhood lamps	<u> </u>	s	NA NA
4-Speed automatic transmission with overdrive		<del>- 0</del>	S
6-Speed manual transmission with overdrive		<del></del>	The second was to the second
CHASSIS FEATURES		مساشارة بالمست	
Power-assisted rack-and-pinion steering	<u>s</u>	<u>s</u>	<u>\$</u>
Power-assisted 4-wheel disc brakes	S	<u>S</u>	s
Anti-lock Brake System (ABS)	S	<u>_</u> S	
Monoleaf gloss-epoxy composite transverse	_	s	s
front and rear springs	S	s	<u>s</u>
Delco/Bilstein gas-charged shock absorbers	<u> </u>	S	<u>s</u>
Forged aluminum front and rear suspension arms	<u> </u>	<u>s</u>	<u> </u>
Full independent suspension	S		<u> </u>
Zero-scrub front suspension	<u>\$</u>	<u> </u>	
FX3 Selective Ride Control	0	NA_	s
20-gailon fuel tank with electric in-tank twin turbine pump	S	S	S
TIRES/WHEELS			
17' x 9-1/2' Cast aluminum wheels	\$	S	. S*
P275/40ZR17 Eagle tires	S	S	S
and the state of t	And the second second second second		
BODY FEATURES			S
Uniframe-design body structure with corrosion-resistant coating	s	S S	S
Corrosion-resistant fiberglass body panels	S		<u> </u>
Lightweight underbody panels	<u>s</u>	<u>S</u>	<u>s</u>
Power-operated quartz-Halogen retractable headlamps	s	S	<u> </u>
Dual quartz-Halogen fog lamps in grille opening	S	<u>\$</u>	<u> </u>
Body-color soft front and rear fascias	S	<u> </u>	
Energy-absorbing bumper system	S	S	S
Front comering lamps	S	S	S
Front fender louvers	S	S	S
Full-tilting "clamshell" hood and fender assembly	S	S	<u>\$</u>
Concealed wipers with integral washers in arms	S	S	C

S—Standard O—Optional NA—Not Available *Includes *7 / *1 wheels on rear. ** includes *2*5*35ZR17 tires on rear

EXTERIOR	Corvette Coupe	Corvette Conv.	Corvette ZR-1
BODY FEATURES		er til om om gement	
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 NA	S
Power automatic retracting antenna	S	<u>\$</u>	S
Center high-mount stop lamp	S	<u>s</u>	S
Clear lens illuminating rear marker lamps	SS	S	\$
INTERIOR	A STATE OF THE PARTY OF THE PAR	Piller and Market State (1984)	and a before the first
INSTRUMENT PANEL/CONTROLS/CONSOLE		ائات در	
Analog gages for: tachometer, oil pressure, oil temperature, coolant temperature and voltmeter	<u> </u>	S	s
Electronic liquid-crystal display for:			
speedometer, odometer, trip odometer and fuel	<u>S</u>	<u> </u>	<u>\$</u>
Warning lights	S	S	\$
Driver information system; includes instant mpg,	S	s	s
average mpg and range in digital readouts  PASS-Key anti-theft ignition	<u>s</u>	<u>s</u>	<u>s</u>
Air conditioning	<u>\$</u>	<u>s</u>	<u>s</u>
He'adlamps-on reminder	<u>\$</u>	<del></del> \$	<u> </u>
Intermittent wiper system	<u>\$</u>	<del>-</del> 5	<del>- 5</del>
Electronic speed control with resume speed	<u>s</u>	s	S
Side window defoggers	S	<u>s</u>	<u>s</u>
Illuminated RH and LH visor mirrors	<u>\$</u>	S	<del>-</del>
Inside hood release	\$	<u> </u>	s
Under-dash courtesy lamps	S	s	<u>s</u>
Delco Bose Gold AM/FM Stereo Radio with Seek/Scan,	<del>_</del>	<del></del> -	<u>_</u>
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			48:
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_
Scotchgard™ fabric protector included with cloth seats	S	S	S
LUGGAGE/CARGO AREA		,	
Deep-twist floor and stowage area carpet	S	S	<u>\$</u>
Rear underfloor storage compartments (2)	S	s	<u>S</u>
Acoustical insulation package	<u>\$</u>	<u>\$</u>	<u>s</u>
Lucasaa compatment concoalment roller shade	ς	NΔ	S

Luggage compartment concealment roller shade

A ....

٠.---

S

NA

Ş

# PREFERRED EQUIPMENT GROUPS

	Corvette Coupe	Corvette Convertible	Corvette ZR-1
Packaged Options (not available individually unless indicated)	CVAI	CYA1	CZA1
Electronic Air Conditioning	X*	X*	X
Power Seat (Driver's)	X*	X*	X
RADIO EQUIPMENT	The state of the s		
Delco**/Bose Gold Music System	X*	X•	
Delco**/Bose Gold Music System with Digital Compact Disc and Cassette Player	0	0	` <b>x</b>
ADDITIONAL INDIVIDUAL OPTIONS			
Performance Ratio Axle	0**	0**	
Engine Block Heater	0	0	
Low Tire Pressure Warning	0	0	
Performance Handling Package	0		<u>\$</u>
Power 6-Way Seat (Passenger's)	0		. 0
Roof Panels — Fransparent Removable — Blue Tint	0		00
Roof Panels — Transparent Removable — Bronze Tint	0		
Roof Package (Incls. Standard Solid Panel and Transparent Blue or Bronze Tint Panels)	0_		0
Electronic Selective Ride Control and Handling (Reqs. Z51)	0		<u> </u>
Luggage Carrier (Black)		0	
Hardtop, Removable		00	

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.

[&]quot;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	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.



Motor Vehicle Manufacturers Association of the United States, Inc.

Blank Forms Provided by Technical Affairs Division



**METRIC (U.S. Customary)** 

#### **Table of Contents**

	1	Vehicle Models/Origin	O Indicates Format Change					
0	2	Power Teams	From Previous Year					
	3	Engine						
	4	Lubrication System						
	4	Diesel Information						
	5	Cooling System						
	6	Fuel System						
	7	Vehicle Emission Control						
	7	Exhaust System						
0	8-10	Transmission, Axles and Shafts						
	11	Suspension						
	12-13	Brakes						
	13	Tires and Wheels	- -					
	14-15	Steering						
	15-16	Electrical						
	17	Body — Miscellaneous Information						
	18	Restraint System						
	18	Glass						
	18	Headlamps						
	18	Frame						
	19-20	Convenience Equipment						
Ō	21-23	Vehicle Dimensions						
	24	Vehicle Fiducial Marks						
0	25	Vehicle Mass (Weight)						
	26	Optional Equipment Differential Mass	(Weight)					
	27-33	Vehicle Dimensions - Definitions - Key	Sheets					
0	34	Index						

#### NOTE:

- 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).
- The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
- Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

FORM MVMA-90



Vehicle Line	CORVETTE	<u> </u>	_		
Model Year	1990	Issued	6-89	Revised(*)	

METRIC (U.S. Customary)

o Vehicle Origin

Design & development (company)	Chevrolet-Pontiac-GM of Canada
	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)		17707	2 (2/0)	45.4 (100)
2-Door Convertible (RWD)	)	1YY67	2 (2/0)	45.5 (100)
2-Door Coupe (RWD) (SPECIAL PERFORMANC	E/ZR1)	1YZ07	2 (2/0)	45.5 (100)

 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.

			Α	В	C	D	
1	Engine	Code	198	L98	L98	L98 _	
	Displacement Liters (cu. in.)		5.7 (350)	5.7 (350)	5.7 (350)	5.7 (350)	
E N			Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection	
G	Compression	mpression 9.5:1 9.5:1		9.5:1	9.5:1	9.5:1	
E SAE Net at RPM	Power kW(bhp)	186 (250) @ 4400	183 (245) @ 4000	186 (250) @ 4400	183 (245) @ 4000		
	at	Torque Newton meters (b.th.) 474 (350) @ 3200		468 (345) @ 3200	474 (350) @ 3200 468 (345) @ 3		
	Exhaust Single, dual	Dual	Dual	Dual	Dual		
T R	R Axie Ratio		ML9 Manual Transmission 6-Speed	MD8 Automatic Transmission 4-Speed	MD8 Automatic Transmission 4-Speed	MD8 Auto Transmission 4-Speed	
			3.33	2.59	3.07	2.73	

Series Av	Series Availability		Power Teams (A - B - C - D)		
Model	Code	Standard	Optional		
CORVETTE					
2-Dr. Coupe	1YY07	8	A, C		
			D.E.		
2-Dr. Convertible	1YY67	В	D, E		
		F			
2-Dr. Coupe	1YZ07				
(Special Performance/ZR1)					
	<del></del>				
· · · · · · · · · · · · · · · · · · ·					

Vehicle Line	COR	VEITE				
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	Н
	Engine	Code	L98	LT5		
	Displac Liters (	cement cu. in.)	5.7 (350)	5.7 (350)		
E SE	Induction system (FI, Carb, etc.)		Mutti-Port Fuel Injection	Multi-Port Fuel Injection		
G	Compr	ession	9.5:1	11.0:1		
N E	SAE	Power kW (bhp)	183 (245) @ 4000	280 (375) @ 5800		
	at RPM	Torque Newton meters (lb.ft.)	468 (345) @ 3200	502 (370) @ 4800		
	Exhaust Single, dual	st .	Duai	Duai		
TR	R Transaxie	nission/ ale	ML9 Manual Transmission 6-Speed	ML9 Manual Transmission 6-Speed		
A N S	Axte Ratio (std. first)		3.33	3.45		

Se	ries Availability	Power Teams (A - B - C - D)			
Model	Code	Standard	Optional		
•	<del></del>				
	·				
<u> </u>			·		
			· · · · · · · · · · · · · · · · · · ·		

Page 2.1

MVMA-90

Vehicle Line	COR	VETTE				
Model Year	1990	lasued	6-89	Revised(*)	9-89	

#### **METRIC (U.S. Customary)**

**Engine Description** Engine Code

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

#### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear,

	ongitudinal	, rear, , sonc, donc, chamber, etc.)	
			90 deg. V, Front, Longitudinal
Manufacture	r		C-P-C Group - G.M. Corporation
No. of cylind	ers		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 blok mati	å mass kg	(lbs.)(machined)	Cast Iron, 68.674 (151.5)
Cylinder bloc	ck deck hei	ight	229.4 mm (9.025 in.)
Cylinder bloc	ck length		506.2 mm (19.83 in.)
Deck clearance (minimum) (above or below block)		m)	.025 Below
Cyl. head ma	terial & ma	ss kg (lbs.)	Cast iron, 19.800 (43.7)
Cylinder hea	d volume (d	eu. cm.)	55.9
Cylinder lines	r material		Not Applicable
Head gasket (compressed	Head gasket thickness (compressed)		1.245 mm (.049 in.)
Minimum con total volume (		hamber	75.47 Combustion Chamber With Piston At Top Dead Center And All Components in Place Torqued To Specifications.
Cyl. no. syste		L. Bank	1-3-5-7
(front to rear)	) 	R. Bank	2-4-6-8
Firing order			1-8-4-3-6-5-7-2
Intake manife	old mati & n	nass[kg(ibs.)]**	Cast Aluminum, 6.117 (13.5)
Exh. menifol	d mati & ma	tss (kg (lbs.))**	iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)
Fuel required	unleaded,	. djesel, etc.	Unleaded
Fuel antiknos	Fuel antiknock index (R + M) / 2		91
	Quantit	у	2
Engine mounts		d type (elastomeric, lastic, hydraulic , etc.)	Elastomeric
		solation (sub-frame, ember, etc.)	Crossmember Mounted
Total dresser	d engine ma	ess (wt) dry	252.8 kg (557 lbs.)

#### Engine - Pistons

Material & mass, g (weight, oz.) – piston only

Impacted Cast Aluminum, ,540 (1.2)

#### **Engine Camshaft**

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

[&]quot;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:

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

#### METRIC (U.S. Customary)

**Engine Description Engine Code** 

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

	tudinal, soho, doho, e, pre-chamber, etc.)	
		90 deg. V, Front, Longitudinal
nufacturer		C-P-C Group - G.M. Corporation
o of cylinders		8
re		99mm (3.90 in.)
roke		93mm (3.66 in.)
ore spacing (C/	(I to C(L)	111.8mm (4.40 in.)
	mass kg(lbs.)(machined)	Aluminum Alloy
rlinder block d		229.24mm (9.03 in.)
ylinder block k		506.2mm (19.93 in.)
eck clearance ( bove or below	(minimum) block)	
yl, head mater	rial & mass kg (lbs.)	Aluminum Alloy, 34.01 (75)
ylinder head v	rolume (cu. cm.)	Not Available
ylinder liner m	aterial	Forged Aluminum Extrusion
lead pasket thi compressed) tinimum combi tal volume (cn	ustion chamber	40cc (2.44 cu. in.)
	L. Bank	1-3-5-7
yL no. system front to rear)	R. Bank	2-4-6-8
	In. Copies.	1-8-4-3-6-5-7-2
inng order	i meti & mass[kg(lbs.]]**	Cast Aluminum
		Stainless Steel, 14.97 (33)
	mati & mass [kg (lbs.)]**	Unleaded
	inleaded, diesel, etc.	91
nel supruock	index (R + M) / 2	2
Engine mounts	Quantity  Mati and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Hydrautic
Ì	Added isolation (sub-frame, crossmember, etc.)	·   -
Total dressed	engine mass (wt) dry***	270.5 kg. (596 lbs.)
Engine -		

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:

			Vehicle Line	COR	VETTE				
MVMA	Specifica	itions	Model Year	1990	Issued	6-89	Revised(*)		
METRIC (I	J.S. Customa	ıry)							
Engine Desc	ristion		5.7 LITER V8 (35	io CID)					
Engine Code			MULTI-PORT FUE	L INJECTI	ON RPO LE	18			
Engine - '	Valve System	ı			المستوريس والم	`			
Hydraulic lifters			Standard						
I	Number intake/ex	khaust	8/8						
Valves	Head O.D. intake	/exhaust	49.28 mm (1.94 in.)	/ 38.10 m	m (1.50 in.)				
Engine -	Connecting F	Rods			<u> </u>	<del></del>			
	[kg., (weight, lbs.)]*		Steel, .388 (.85)						
	iterline to centerline	)	144.78 mm (5.79 in.	.)					
Fngine -	Crankshaft_	-							
	[kg., (weight, lbs.)]*		Nodular Cast Iron,	23.360 (51	.50)				
	n by bearing (no.)		5	-		·			
	er of main bearings		5						
Seal (material, o		Front	Fluroelastomer / Or	Fluroelastomer / One Piece, Lip Seal					
piece design, e	tc.)	Rear	Fluroelastomer / Or	Fluroelastomer / One Piece, Lip Seal					
Engine -	Lubrication S	System							
Normal oil pres	sure[kPa(psi) <b>©</b> eng t	rpm]	41 (6) @ 1000/124	(18) @ 20	00/165 (24) @	4000 (Ho	<u> </u>		
Type oil intake	(floating, stationary)		Stationary	Stationary					
Oil filter sys. (f	ull flow,part, other)		Full Flow						
Capacity of c/c filter-refill-L (			3.8 (4.0)	3.8 (4.0)					
	Diesel Inform	nation	(NOT APPLICABL	-E)	-:-'				
Diesel engine									
	rent drain at 0 deg. F								
Injector Nozzie	Opening pressur	re(kPa/nsi)i			· · · · · · · · · · · · · · · · · · ·				
Pre-chamber (		elu: elbail)							
Fuel in-	Manufacturer								
jection pump	Туре								
Fuelini, pump	drive (bett,chain,gea	ur)							
	y vacuum source (typ								
Fuel heater (ye									
Water separat (std., opt.)									
Turbo manufa		-							
	e (oil to engine cools	nt;							

Engine - Intake System

Turbo charger - manufacturer

Super charger - manufacturer

Oil filter

(NOT APPLICABLE)

^{*} Finished State

			Vehicle Line	COR	VETTE			
MVMA	Specifica	เนอกร	Model Year	1990	issued	689	Revised(*)	
METRIC (U	.S. Custome	ery)						
Engine Descri	Intion		5.7 LITER V8 (350 CID)					
Engine Code	<b>P</b>		MULTI-PORT FUE	-	ON RPO LT	5		
Engine - V	Engine - Valve System							
Hydraulic lifters (	std., opt., NA)		Standard					
Valves	Number intake/e:	chaust	16/16					
V2.V05	Head O.D. intake	/exhaust	39mm (1.54 in.) / 35	.2mm (1.3	9 in.)			
Engine - C	onnecting F	Rods						
Material & mass [	kg., (weight, lbs.)]*							
Length(axes cent	erline to centerline	)	145.8 mm (5.74 in.)					
Engine - C	rankshaft							
Material & mass [	kg., (weight, lbs.)]°		Nitrided Forged Ste	el, 24.94 (5	5)			
End thrust taken by bearing (no.)			5					
Length & number of main bearings		5						
Seal (material, one, two Front		Fluroelastomer / On	e Piece Lip	Seal				
piace design, etc.	·/	Rear	Fluroelastomer / On	e Piece Lip	Seal			
Engine - L	ubrication S	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/tar filter-refill-L (qt.			8.55 (9)					
Engine - D	lesel Inform	nation	(NOT APPLICABLE	E)				
Diesel engine ma	nufacturer							
Glow plug, curren	rt drain at 0 deg. F							
Injector Nazzie	Туре							
	Opening pressure	e[kPa(psi)]						
Pre-chamber des	iiga	····						
Fuel in- jection pump	Manufacturer							
	Туре							
Fuel inj, pump dri	ve (belt,chain,gear	)						
Supplementary v	scuum source (type	)						
Fuel heater (yes/	no)						<del> </del>	
Water separator, description (std., Qpt.)								
Turbo manufactu	rer							
Oil cooler-type (oil to engine coolent; oil to ambient air)								
Oilfilter							· · · · · · · · · · · · · · · · · · ·	<del></del>
Engine - la	ntake Syster	m	(NOT APPLICABLE	E)				
Turbo charger - I			·					
Super charger - r								
Intercooler	·							

^{*} Finished State

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

Contant recove	rv system (std. opt, n.a.)	Standard			
Coolant recovery system (std, opt, n.a.) Coolant fill location (rad., bottle)		Bottle, Coolant Recovery			
	elief valve pressure	124.1 (18.0)			
	Type (choke, bypass)	Choke			
Circulation hermostat	Starts to open @ deg's C(F)	90.6 (195)			
	Type (centrifugal, other)	Centrifugal			
	GPM 1000 pump rpm	13			
	Number of pumps	1			
Nater Pump	Drive (V-belt, other)	Single Belt Poly "V" Accessory Drive (Serpentine)*			
· Durb	Searing type	Sealed Double Row Ball			
	Impeller material	Steel			
	Housing material	Cast Aluminum			
By-pass recirc ext.))	culation (type (inter.,	internal			
With heater - L (qt.)					
Cooling system	With air conditioner-L(qL)	Marrual 13.86 (14.65), Automatic 13.73 (14.51)			
opt. equip.[specify-L(qt.)]					
Vater jackets full length of cyl(yes,no)		Yes			
Water all arour	nd cylinder (yes, no)	Yes			
Water jackets	open at head face (yes,no)	No			
	Std., A/C, HD	A/C, Standard			
	Type (cross-flow, etc.)	Cross-Flow			
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube			
Radiator core	Mati., 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 t		Plastic			
	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	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.			
		Plastic Ring Shroud			

^{@ -} Distance Between Top Of Fins.

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

 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 LTS

Coolant recove	ry kystem (std. opt. n.a.)	Standard				
	etion (rad., bottle)	Bottle, Coolant Recovery				
Radiator cap relief valve pressure [kPa [psi]]  Type (choke, bypass)		117.2 (17.0)				
<b></b>	Type (choke, bypass)	Choke				
thermostat	Starts to open   deg's C(F)	83.7 (180)				
	Type (centrifugal, other)	Centritugal				
	GPM 1000 ритр грт	12				
	Number of pumps	1				
Water Pump	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 recirc ext.)]	ulation (type (inter.,	Internal				
With heater – L (qt.)		Not Applicable				
Cooling system	With air conditioner-L(qL)	15.81 (16.7)				
Capacity	Opt. equip.(specify-L(qt.))	Not Applicable				
Water lackets	full length of cyl(yes,no)	Yes				
Water all around cylinder (yes, no)		Yes				
Water jackets open at head face (yes,no)		Yes				
	Std., A/C, HD	A/C Standard				
	Type (cross-flow, etc.)	Cross-Flow				
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube				
Radiator core	Mati., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks				
	Width					
	Height					
	Thickness	34 (1.34)				
	Fins per inch					
Radiator and to	unk material	Plastic				
	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	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				

Vehicle Line	COR	VETTE				
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 L98

induction type: car	jel System (See supp				
njection system, etc.  Manufacturer		TPI - Tuned Port Fuel Injection			
		AC/Rochester Products			
Carburetor no. of b	parrels	None			
		Preset - No Adjustment Provided			
Point of inj. (no.)		Fuel Injectors At Inlet Ports			
i per	Constant, pulse, flow	Pulse			
njection	Control (elec., mech.)	Electronic - On Board Computer			
	Sys. press. [kPa (psi]]				
	Manual Manual	None			
dle spdrpm	Meriusi				
(spec. neutral or drive and	A 44	•			
propane if used)	Automatic	w			
intake manifold he or water thermost	eat control (exhaust atic or fixed)	Makes Thermostat			
		Water, Thermostat			
Air cleaner type		Replaceable Paper Element			
Fuel filter (type/location)		Frame Mounted			
	Type (elec. or mech.)	Electric - Dual Turbine			
Final	Location (eng., tank)	In Fuel Tank			
Fuel pump	Press. range [kPa(psi)]				
	Flow rate at regulated pressure (L (gal)/ hr @ kPa (pai))				
· ·					
Fuel Tank					
Capacity (refill L (	gallons))	75.7 (20.0)			
Location (describ		Under Rear Deck			
Attachment		Rests On Rear Frame Extension, Held With Straps			
Material & Mass (i	to (weight lbs.1)	Super Terne Coated Steel With High Density Polyethylene Liner (*)			
Filler	Location & material	Center Of Rear Deck			
pipe	Connection to tank	Botted With Gasket On Top Of Tank			
Evel time (material)		Super Terne Coated Steel			
Fuel line (material		Viton			
Fuel hose (materia		Super Terne Coated Steel			
Return line (mater	_	Super Terne Coated Steel			
Vapor line (materi		Not Applicable			
Extended	Opt., n.a.	Not Applicated			
range tank	Capacity [L (gallons)]				
	Location & material				
	Attachment				
	Opt, n.4.	Not Applicable			
Auxiliary	Capacity [L (gallons)]				
	Location & material				
Auxiliary					
Auxiliary tank	Attachment	•			
Auxiliary tank					

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

 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 LTS

nduction type: cart njection system, et	buretor, fuel ic.	TPI - Tuned Port Fuel Injection				
lanutacturer arburetor no. of barrets Sie A/F mix. Point of inj. (no.)		AC/Rochester Products None				
		OM A/F MIX.	Point of ini (nn.)	Fuel Injectors At Inlet Ports		
uel njection		Pulse				
	Constant, pulse, flow	Electronic - On Board Computer				
	Control (elec., mech.)	Not Applicable				
	Sys. press. [kPa (psi)]	None				
die spdrpm	Manual	NOTE				
spec, neutral or drive and						
ropane if	Automatic					
ntake manifold he or water thermost	at control (exhaust	<b>**</b>				
T Water the most		Water, Thermostat				
tir cleaner type		Replaceable Paper Element				
uel filter (type/location)		Frame Mounted				
	Type (elec. or mech.)	Electric - Dual Turbine				
	Location (eng., tank)	in Fuel Tank				
-pel oump	Press. range [kPa(psi)]					
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))					
Fuel Tank						
Capacity [refill L (	nelions)]	75.7 (20.0)				
Location (describe	•}	Under Rear Deck				
Attachment		Rests On Rear Frame Extension, Held With Straps				
Material & Mass [I	kg (weight lbs.))	Super Terne Coated Steel With High Density Polyethylene Liner (*)				
Filler	Location & material	Center Of Rear Deck				
pipe	Connection to tank	Bolted With Gasket On Top Of Tank				
Fuel line (material	)	Super Terne Coated Steel				
Fuel hose (materi	·	Viton				
Return line (mater		Super Terne Coated Steel				
Vapor line (materi		Super Terne Coated Steel				
ACTION HIS INVESTORS	Opt., n.a.	Not Applicable				
Extended	Capacity [L (gallons)]	"				
range tank	Location & material					
	Attach ment					
	Opt., n.a.	Not Applicable				
	Capacity (L (gallons))					
Auxiliary tank	Location & material	•				
	Attachment	•				
	Sictr switch or valve					

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

Separate fill

<b>MVMA</b>	Specif	fications
-------------	--------	-----------

Vehicle Line	CORVE	TTE				
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 L98

#### Vehicle Emission Control

İ	Type (air inject modifications,	tion, engine other)	•	Air Injection W/Computer Command Control			
		Pump or	pulse	Vane			
		Driven b	У	Serpentine - Single Belt Poly V' Drive			
	Air injection	Air distri (head, m etc.,)	bution anifold,	Exhaust Manifold And Converter (CCC Controlled)			
		Point of	entry	Exhaust Manifold Ports			
	Exhaust Gas	Type (co tlow, op orifice, o	en .	Controlled Flow			
	Recircu-	Exhaust		Inlet Manifold Exhaust Cross-Over Passage #			
chaust mission ontrol		(spacer.	exh.inj. carb., d, other)	Center Of Inlet Manifold Plenum			
		Туре		Dual-Bed			
		Number	of	2 Front And 1 Rear			
		Location(s)		Front - 1 On Each Exhaust Pipe Rear - Underbody Tunnel Below Console			
·	Catalytic Converter	Volume	(L(cu.in))	2.7822 (169.8)			
		Substra		Monolith			
		Noble metal type		Platinum (Pt), Palladium (Pd), Rhodium (Rh)			
		Noble n concen (g/cu. c	tration	0.000451 (FRT), 0.001007 (RR)			
	Type (ventilates to atmosphere, induction system, other)			Induction System			
rankcase mission lontro!	Energy source (manifold vacuum, carburetor, other)		d her)	Manifold Vacuum			
<b>CONTRACT</b>	Discharges ( manifold, oti	Discharges (to intake manifold, other		Inlet Manifold			
	Air mft(breat	her cap.ot	her)	Air Cleaner			
vapora-	Vapor vente	d to	Fueltank	Canister			
ive mission	crankcase, canister,oth	<b>⊕r</b> )	Carburetor				
Control	Vapor storaç	pe provisio	n	Canister			
lectron-	Closed loop			Yes			
c System	Open toop (v			No			

#### Fngine - Exhaust System

Engine ·		
Type (single, dual, other)	single with cross-over,	Dual
Muffler no. 6	L type (reverse flow,	2, Reverse Flow (Stainless Steel Body,
straight thru	, separate resonator) lass [kg (weight lbs.)]	Aluminum Coated Steel Inlet And Outlets)
Resonator n		None
	Branch o.d., wall thickness	Outer Pipe 63.5x.96mm (2.50x.038in.), Inner Pipe 57.0x.98mm (2.25x.038in.)
Exhaust pipe	Main o.d., wall thickness	76.2 x 1.83 mm (3.0 x .072 in.)
	Mati. & Mass [kg(wght.lbs.)]	Stainless Steel Tubing (*)
nter-	o.d. & wall thickness	57.15 x 1.83 mm (2.25 x .072 in.)
mediate pipe	Mati. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel
Tail	p.d. & wall thickness	Dual Outlets - 57.15 x 1.83mm (2.25 x .072 in.)
pipe	Mati. & 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)

Vehicle Line	COR	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 LTS

	Type (air inject modifications,	tion, engine , other)		Air Injection W/Computer Command Control
		Pump or	pulse	Vane
	1	Driven b	у	Electric
	Air injection	Air distri (head, m etc.,)		Exhaust Manifold (CCC Controlled)
		Point of entry		Exhaust Manifold
	Exhaust Gas	Type (cor flow, ope orifice, o	er .	Not Available
xhaust mission ontrol	Recircu- lation	Point of (spacer, manifold	exh.inj. carb.,	Not Available
		Туре		3 Way
		Number	of	2
		Location	n(s)	Exhaust Manifold (Close Coupled)
	Catalytic Converter	Volume	(L(cu.in))	2.0545 (125.37) Each
	•	Substra	te type	Monolith
	İ	No bie m	etal type	Platinum (Pt), Rhodium (Rh)
1		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(breat	her cap,oth	ier)	Air Cleaner
Evapora-	Vapor vented to		Fuel tank	Canister
tive Emission		crankcase, canister,other)		
Control	Vapor storage provision			Canister
Electron-	Closed loop	Circle Dob (Accine)		Yes
ic System				No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)  Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]  Resonator no. & type		2, Reverse Flow			
				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.)
			Exhaust pipe	Main o.d., wall thickness	Not Available
•	Mati, & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH810 (1,786); LH 1,215 (2,679)			
inter- mediate pipe	o.d. & well thickness	RH - 69.85 x 1.09 mm (2.75 x .04 in.); LH - 69.85 x 1.09 mm (2.75 x .04in.)			
	Mati, & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH - 2.136 (4.709); LH - 2.136 (4.709)			
Tail pipe	o.d. & walf thickness	RH & LH Outer - 69.85 x 1.37 (2.75 x .05 in.); *			
	Mati. & 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)

		-	COMPETE					
<b>MVMA</b>	MVMA Specifications		Vehicle Line CORVETTE  Model Year 1990 Issued 6-89	Revised(*)				
METRIC (	U.S. Customary	)						
Engine Desc Engine Cod	•		5.7 LITER V8 (305 CID) MULTI-PORT FUEL INJECTION RPO 198					
Transmis	sions/Transaxle	(Std., Opt.	N.A.)					
	d (manufacturer/country)		Not Applicable					
Manual 4-spee	d (manufacturer/country)	)	**					
	d (manufacturer/country)		*					
Automatic (man	ufacturer/country)		n					
	(manufacturer/country)		•					
	peed (Man/Con)		Zahnradfabrik Friedrichshafen AG (ZF) Schwabisch Gm	uend W. Germany				
Manual T	ransmission/Tra	nsaxle						
Number of forv			6					
	1st		2.68					
Ī	2nd		1.80					
Gear	3rd		1.29					
ratios	4th		1.00					
- 1	5th		.75					
t	<b>6</b> th		.50 Rev. 2.50					
Synchronous	neshing (specify gears)		All					
Shift lever loca			Rear - Trans MTD.					
Trans, case ma	t'i, & mass kg (lbs)*		Aluminum 69.0					
	Capacity [L (pt.)]		21 (.987)					
Lubricant	Type recommended		SW-30 Texaco					
		_						
Clutch (N	lanual Transmis	ssion)						
Clutch manufa			Valeo Clutches & Transmissions					
Clutch type (dry, wet; single, multiple disc)			280mm Pull Type - Dry Clutch					
Linkape (hyd	Linkage (hyd., cable, rod. lever,other)		Hydraulic Pre-Filled					
Max. pedal ef		Depressed	178 (40)					
spring load, no	rw) N (Ibs.)	Released	133 (30)					
Assist (spring.	power/percent, nominal	)	None					
Type pressure			Diaphragm					
	ad (nominal, new) N(lbs)		11,250 (2,529)					
	Facing mfgr. & matt. co	ding	Valeo F-202					
	Facing matl. & constru		Non-Asbestos Woven					

Rivets per facing

Release bearing type & method lub.
Torsional damping method, springs, hysteresis

Outside x inside dia. (nom.)

Total eff_area[sq cm(sq in)]

Thickness (pressure plate side/fly wheel side)

Rivet depth (pressure plate side/fly wheel side)

Engagement cushion method

Dual-Mass Flywheel (Non-Dampened Clutch Disc)

280 x 180mm (11.02 x 7.09 in.)

3.3/3.3mm (.130/.130) in.)

Angular Contact Ball Bearing

361.3 (56)

1.0mm (.039 in.) Cushion Springs

Clutch tacing

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

	Cassificati	long	Vehicle Line	COF	RVETTE					
IVI V IVIA	Specificat	ions	Model Year	1990	Issued	6-89	Revised(*)			
METRIC	(U.S. Customan	<b>y</b> )				_				
Engine Des	cription		5.7 LITER V8 (35	o CID)	<del> </del>					
Engine Cod	le .		MULTI-PORT FUE	L INJECT	ION RPO LT	5				
Transmis	sions/Transaxie	e (Std Opt	N.A.)							
	ed (manufacturer/country		Not Applicable							
	ed (manufacturer/country		1							
	ed (manufacturer/country		•			<del></del>				
	nufacturer/country)	···	•			······································				
	e (manufacturer/country)	)	•							
	peed (Man/Con)		Zahnradfabrik Friedi	richshaler	AG (ZF) Sch	wabisch Gn	nuend W. Germany	_		
Manual T	ransmission/Tr	ensayle				<del></del>				
Number of for			T 6				<del></del>	······································		
	1st	<del></del>	2.68	<del></del>	<del></del>		<del></del>			
	2nd		1.80	<del> </del>						
Gear	3rd		1.29,							
ratios	4th		1.00							
	5th		.75							
	6th		.50 Rev. 2.50							
Synchronous	meshing (specify gears)		All							
Shift lever loc	ation	<del></del>	Rear - Trans MTD.	Rear - Trans MTD.						
Trans. case ma	it'i. & mass kg (lbs)"		Aluminum 69.0							
	Capacity [L (pt.)]		21 (.987)							
Lubricant	Type recommended		SW-30 Texaco							
Clutch (N	lanual Transmi	ssion)								
Clutch manufa	cturer		Valeo Clutches & Tra	ensmissio	ns					
Clutch type (dry, wet; single, multiple disc)		280mm Pull Type =	COOME Built Your Dr. Obrigh							
Linkage (hyd., cable, rod, lever, other)			Hydraulic Pre-Filled	280mm Pull Type - Dry Clutch						
Max. pedal eff	<del></del>	Depressed	178 (40)							
spring load, ne	w) N (lbs.)	Released	133 (30)							
Assist (spring	power/percent, nominal)	<del></del>	None		<del></del>					
Type pressure		<u></u>	Diaphragm							
	ad (nominal, new) N(lbs)		11,250 (2,529)	-	<del></del>	<del></del>		<del></del>		
	Facing mfgr, & mati. co	ding	Valeo F-202				<del> </del>			
	Facing matl. & construc		Non-Asbestos Wove	BD		<del></del>	<del></del>			

Rivets per facing

Release bearing type & method lub.

Torsional damping method, springs, hysteresis

Outside x inside dia. (nom.) Total eff.area(sq cm(sq in))

Thickness (pressure plate side/fly wheel side)

Rivet depth (pressure plate side/fly wheel side)

Engagement cushion method

Clutch facing

Dual-Mass Flywheel (Non-Dampened Clutch Disc)

280 x 180mm (11.02 x 7.09 in.)

3.3/3.3mm (.130/.130) in.)

Angular Contact Ball Bearing

1.0mm (.039 in.) Cushion Springs

361.3 (56)

^{*} includes shift linkage, lubricant, and clutch housing. If other specify.

<b>MVMA</b>	<b>Specifications</b>
-------------	-----------------------

Vehicle Line	COR	VETTE			 
Model Veer	1990	beuzel	6-89	Revised(*)	 

METRIC (U.S. Customary)

Engine Description **Engine Code** 

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

Trade Name		4-Speed Automatic (Overdrive 4th Gear)			
Type and specia	ul features (describe)	Torque Converter With Planetary Gears			
	Location (column, floor, other)	On Floor Console			
Sear selector	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1			
	Shift interlock (yes, no, describe)				
	1st	3.06			
	2nd	1.63 @			
Gear atios	3rd	1.00 @			
	4th	0.70 @			
	Reverse	2.29			
Max. upshift sp  km/h (mph)]	eed - drive range	1-2 = 43, 2-3 = 79, 3-4 = 116 (At Wide Open Throttle)			
Max. kickdown [km/h (mph)]	speed - drive range	4-3 = 105, 3-2 = 72, 2-1 - 35			
Min. overdrive :	speed (km/h (mph))	38			
	Number of elements	3			
	Max. ratio at stall	1.85			
Torque converter	Type of cooling (air, liquid)	Liquid			
	Nominal diameter	298 (11.75)			
	Capacity factor "K"				
	Capacity (refill L(pt.))	3.8 (8.0)			
Lubricant	Type recommended	Dexron II			
Oil cooler (std. external, air, lic	, opt., N.A., internal, juid)	Standard, External, Liquid			
Trans. mass (k)	p(ibs)) & case mati.**	Aluminum			
		@ - Computer Controlled Torque Converter Clutch 2nd, 3rd, And 4th Gears.			
All Whee	I / 4 Wheel Drive	(NOT APPLICABLE)			
Desc. & type (	part-time, full-time, moving, mech., elect.,	·			
	Manufacturer and model				
Transfer case	Type and location				
Low-range ge	ar ratio				
	nnect (describe)				
Center differential	Type (bevol, 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.

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 LTS

Automatic '	Transmission/Transaxie	(NOT APPPLICABLE)
Trade Name		
Type and special	features (describe)	
	Location (column, floor, other)	
iear elector	Ltr./No. designation (e.g. PRND21)	
	Shift interlock (yes, no, describe)	
	1st	
	2nd	
Gear aties	3rd	
	4th	
	Reverse	
Max. upshift sp [km/h (mph)]	eed - drive range	
Max. kickdown: [km/h (mph)]	speed - drive range	
Min. overdrive s	speed (km/h (mph))	
	Number of elements	
	Max. ratio at stall	
Torque converter	Type of cooling (air, liquid)	
	Nominal diameter	
	Capacity factor "K"	
<del></del>	Capacity (refill L(pt.))	
Lubricant	Type recommended	
Oil cooler (std., external, air, kg	opt., N.A., internal.	
Trans. mass (kr	(ibs)) & case mati.**	
	/ 4 Wheel Drive	(NOT APPLICABLE)
Desc & type (p	ert-time, full-time, moving, mech., elect.,	
	Manufacturer and model	
Transfer case	Type and location	
Low-range ger	er ratio	
	inect (describe)	
Center differential	Type (bevet, planetary, w or w/o viscous bias, torsen, etc.)	
त्या । की का छन्।	Torona college (retreat)	

^{*}Input speed / square root of torque.

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

Vehicle Line CORVETTE

Model Year 1990 Issued 6-89

METRIC (U.S. Customary)

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

Revised(*)

9-89

o Avia Re	tio and Tooth Combinations	AUTOMATIC - MD8			MANUAL - ML9
		2.59	2.73	3.07	3.33 (1.66)
Axle ratio (or overall top gear ratio)		200 (7.875)			215.9 (8.5)
Ring gear ou	Pinion	17	15	14	12
No. of teath	Ring gear	44	41	43	40

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

fanufacture ype (straigh sternal—exte	r t tube, tube-in rnal damper, et	-tube,		Straight Tube, Internal-Extern	nal Damper			
Outer diam. x length* x wall thickness	Manual 3-speed transmission			Not Available				
	Manual 4-s	peed transmission		Not Available		<del></del>		
	Manual 5-s	peed transmission		Not Available				
	Overdrive	<u> </u>						
	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			
nter-	Type (plain, anti-friction)			None				
nediate pearing	Lub. (fitting	, prepack)						
ilip oke	Туре			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.)				
	T		Front	#1311				
	Make and s	arg. no.	Rear	#1318				
	Number us	ed		2				
Universal	Type (ball a cross)	nd trunnion,		Cross				
joints	Rr. attach(e	-bolt,clamp,etc)		Strap And Bolt				
		Type (plain, anti-friction)		Anti-Friction				
	Bearing	Lubrication (fitting, prepack)		Prepacked				
Drive taken arms or sprit	through (torqu 195)	e tube,		Driveline Beam				
Torque take arms or april	n through (toro	que tube,	····	Torque Control Arms				

^{*} Centerline to centerline of universal joints, or to centerline of attachment.

^{** -} Aluminum

MVMA									
MVMA		<b>0</b> 1		Vehicle Line	COR	VETTE			
	Speci	fications		Model Year	1990	Issued	6-89	Revised(*)	
METRIC (	U.S. Cus	tomary)							
			Ţ	5.7 LITER V8 (3	50 CID)				
Engine Des Engine Cod	•		1	MULTI-PORT FUEL INJECTION RPO LTS					
Axle Rati	o and To	oth Combina	tions	(See 'Power Tea	ms' for axie	ratio usage)			
Axle ratio (or overall top gear ratio)			3.45:1 (1.72)				<del></del>		
Ring gear o.d.				216 (8.5)					<del></del>
No. of	Pinion			11	<del></del>				
teeth	Ring gear			38					
	. 11-14								
Rear Axie	e Unit			Overhung Pinion G	ear				
	fferential (type	1)		Disc Clutches					
Timeran Sub St	Туре	<u></u>		Hypoid					
Drive pinion	Offse	ıt .		38.1 (1.50)					
No. of differen		·		2					
No. of differe		stment (shim, etc.)	<del></del> †	Shim					
Pinion/ differential	<u> </u>	ing adjustment		Shim					
Driving whee				Tapered Roller					
DUANUS MUSS	Capacity (L	= =		1.8 (3.75)					
Lubricant	Type recom			GL-5 Gear Lubrica	ant EOW	<del>-9</del> 0			
	1 sype recom	interior C							
Manufactures Type (straigh	t tube, tube-in	Rear Wheel	Drive	Straight Tube	<u></u>			<u></u> .	
Manufactures Type (straigh	t tube, tube-ir rnal damper, e	-tube, tc.)	Drive	Straight Tube					
Manufactures Type (straigh	t tube, tube-ir rnal damper, e Manual 3-s	i-tube, tc.) peed transmission	Drive	Straight Tube Not Applicable					
Manufacturer Type (straigh internal-exte	t tube, tube-ir rnal damper, e Manual 3-s Manual 4-s	-tube, tc.) peed transmission peed transmission	Drive						
Manufacturer Type (straigh internal-exter Outer diam. x	t tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s	tube, tc.) peed transmission peed transmission peed transmission		Not Applicable	1 /2 0 × 21	69 v 095) A	kuminum		
Manufacturer Type (straigh internal-exter Outer diam. x length* x wall	t tube, tube-ir mal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive	tube, tc.) peed transmission peed transmission peed transmission	Drive	Not Applicable " 76.2 x 804.9 x 2.4	1 (3.0 x 31	69 x .095) A	luminum		
Manufacturer Type (straigh internal-exter Outer diam. x length* x wall	t tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic t	to-tube, tc.) peed transmission peed transmission peed transmission 6 transmission		Not Applicable " " 76.2 x 804.9 x 2.4 Not Applicable	1 (3.0 x 31	69 x .095) A	luminum		
Manufacturer Type (straigh internal-exte  Outer diam. x length* x wail thickness	t tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic t	tube, tc.) peed transmission peed transmission peed transmission		Not Applicable " 76.2 x 804.9 x 2.4	1 (3.0 x 31	69 x .095) A	luminum		
Manufacturer Type (straigh internal-exte  Outer diam. x length*x wail thickness	t tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic t	totube, tc.) peed transmission peed transmission peed transmission 6 transmission anti-friction)		Not Applicable  "  76.2 x 804.9 x 2.4  Not Applicable  None	1 (3.0 x 31	69 x .095) A	luminum		
Manufacture Type (straigh internal-exte	t tube, tube-ir mai damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic 1 Type (plain.	totube, tc.) peed transmission peed transmission peed transmission 6 transmission anti-friction)		Not Applicable  " 76.2 x 804.9 x 2.4  Not Applicable  None  Splined	1 (3.0 x 31	69 x .095) A	luminum		
Manufacturer Type (straigh internal-exter  Outer diam. x length* x wall thickness	t tube, tube-ir rnal damper, e  Manual 3-s  Manual 4-s  Manual 5-s  Overdrive  Automatic 1  Type (plain  Lub. (fitting	peed transmission peed transmission peed transmission peed transmission 6 ransmission anti-friction)		Not Applicable  "  76.2 x 804.9 x 2.4  Not Applicable  None  Splined  32		69 x .095) A	luminum		
Manufacturer Type (straigh internal-exte  Outer diam. x length* x wail thickness  inter- mediate bearing  Slip	t tube, tube-ir rnal damper, e  Manual 3-s  Manual 4-s  Manual 5-s  Overdrive  Automatic 1  Type (plain  Lub. (fitting	peed transmission peed transmission peed transmission peed transmission 6 ransmission anti-friction)		Not Applicable  " 76.2 x 804.9 x 2.4  Not Applicable  None  Splined 32 34.95mm (1.38 in		69 x .095) A	luminum		
Manufacturer Type (straigh internal-exte  Outer diam. x length* x wail thickness  inter- mediate bearing  Slip	tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic i Type (plain Lub. (fitting Type Number of Spline o.d.	totube, tc.) peed transmission peed transmission peed transmission fransmission anti-friction) peeds		Not Applicable  "  76.2 x 804.9 x 2.4  Not Applicable  None  Splined  32		69 x .095) A	luminum		
Manufacturer Type (straigh internal-exte  Outer diam. x length* x wail thickness  inter- mediate bearing  Slip	t tube, tube-ir rnal damper, e  Manual 3-s  Manual 4-s  Manual 5-s  Overdrive  Automatic t  Type (plain  Lub. (fitting)  Type  Number of	totube, tc.) peed transmission peed transmission peed transmission fransmission anti-friction) peeds	i-Speed	Not Applicable  " 76.2 x 804.9 x 2.4  Not Applicable  None  Splined 32 34.95mm (1.38 in		69 x .095) A	luminum		
Manufacturer Type (straigh internal-exte  Outer diam. x length* x wail thickness  inter- mediate bearing  Slip	tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic i Type (plain Lub. (fitting Type Number of Spline o.d.	tetube, tc.) peed transmission peed transmission for animission anti-friction) peed transmission anti-friction) teeth	S-Speed Front	Not Applicable  " 76.2 x 804.9 x 2.4  Not Applicable  None  Splined  32  34.95mm (1.38 in  Dana #1311		69 x .095) A	luminum		
Manufacture Type (straigh internal-exter Outer diam: x length x wall thickness inter- mediate bearing Slip yoke	tube, tube-ir rnal damper, e  Manual 3-s  Manual 4-s  Manual 5-s  Overdrive  Automatic t  Type (plain  Lub. (fitting  Type  Number of  Spline o.d.  Number us	tetube, tc.) peed transmission peed transmission for animission anti-friction) peed transmission anti-friction) teeth	S-Speed Front	Not Applicable  "  76.2 x 804.9 x 2.4  Not Applicable  None  Splined  32  34.95mm (1.38 in  Dana #1311  Dana #1318		69 x .095) A	luminum		
Manufacturer Type (straigh internal-exte  Outer diam. x length* x wail thickness  inter- mediate bearing  Slip	tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic: Type (plain Lub. (fitting Type Number of Spline o.d. Make and if Number us Type (ball across)	total peed transmission peed transmission peed transmission for transmission anti-friction) peed prepack) teeth mfg. no. ed and trunnion,	S-Speed Front	Not Applicable  "  76.2 x 804.9 x 2.4  Not Applicable  None  Splined  32  34.95mm (1.38 in  Dana #1311  Dana #1318  2  Cross		69 x .095) A	luminum		
Manufacturei Type (straigh internal-exte  Outer diam. x length* x wail thickness  inter- mediate bearing  Slip yoke	tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic: Type (plain Lub. (fitting Type Number of Spline o.d. Make and if Number us Type (ball across)	to-tube, tc.) peed transmission peed transmission for transmission anti-friction) peed transmission transmission anti-friction) teeth	S-Speed Front	Not Applicable  "  76.2 x 804.9 x 2.4  Not Applicable  None  Splined  32  34.95mm (1.38 in  Dana #1311  Dana #1318  2  Cross  Strap & Bott		69 x .095) A	luminum		
Manufacturei Type (straigh internal-exte  Outer diam. x length* x wail thickness  inter- mediate bearing  Slip yoke	tube, tube-ir rnal damper, e Manual 3-s Manual 4-s Manual 5-s Overdrive Automatic: Type (plain Lub. (fitting Type Number of Spline o.d. Make and if Number us Type (ball across)	peed transmission peed transmission peed transmission foransmission anti-friction) perpack) teeth fig. no. ed and trunnion, u-bolt,clamp,etc)	S-Speed Front	Not Applicable  "  76.2 x 804.9 x 2.4  Not Applicable  None  Splined  32  34.95mm (1.38 in  Dana #1311  Dana #1318  2  Cross		69 x .095) A	luminum		

Torque Control Arms

Torque taken through (torque tube, arms or springs)

^{*}Centerline to centerline of universal joints, or to centerline of attachment.

Vehicle Line	COF	VETTE			 
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

		General Including E	Not Applicable
	Manual/automatic control		
	Type (air/hydraulic)		*
Car	Primary/assist spring		п
eveling	_	r only/4 wheel leveling	
	Single/dual rate spring		
		ple/dual ride heights	
	<u> </u>	vision for jacking	(See Attached Sheet)
	<del></del>	/opt./n.a.	Optional
		nual/automatic control	Manuai
	_	mber of damping rates	18
hock bsorber amping	Typ	e of actuation (manual/ stric motor/air, etc.)	Manual Selection & Speed Control
ontrols	5	Lateral acceleration	Not Applicable
	•	Deceleration	H
	\$	Acceleration	19
	r	Road surface	
	Typ	De	(See Attached Sheet)
hock bsorber	Ma	ke	Base - Bilstein
front & ear)	Pis	ton diameter	(See Attached Sheet)
	Ro	d diameter	Base - 12.4mm (0.5 in.), Z51, FG3: 11.3mm (0.4 in.)
Suspen	sion	- Front	
ype and de	scription	1	(See Attached Sheet)
	Ful	Il jounce	92.0mm (3.62 in.)
'rave!"	Fu	il rebound	95.0mm (3.74 in.)
	Ту	pe,(coil,leaf,other)&matl	Monoleaf, Filament Wound Glass - Epoxy Composite
Spring	ins	ulators (type & mati)	Pivot; Teflon-Filled Nylon And Aluminum, Enclosed In Rubber.
		re (coil design height	1160.0 x 110.0 x 13.22mm Standard Z51 14.3mm
	4.	.d.)	(45.7 x 3.9 x 0.52 in. Standard) (Z51 0.56 in.)
	Sp	ring rate [N/mm(lb./in.)]	Base & Convertible - 90.0 Z51 - 110.0
	Ra	te @ wheel [N/mm(lb./in)]	Base & Convertible - 24.64 Z51 - 27.98
	_		

#### Suspension - Rear

Stabilizer

Type (link, inkless, frmless)

Material & bar diameter

Type and description			(See Attached Sheet)
	Full journes		All Models - 89.0mm (3.5 in.)
Travel*	Full rebound		Base & Convertible - 76.0mm (3.0 in.), Z51 - 71.0mm (2.8 in.)
	Typelc	oil,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	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
	1f	No. of leaves	Monoleaf
	leaf	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:

HR Stl; 26.0mm (0.9 in.) Dia. - Std. 30.0mm (1.2 in.) Dia. - Z51

^{** -} Solid Painted To Protect Against Corrosion.

Vehicle Line CORVETTE

Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)
SUPPLEMENTAL PAGE

#### 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.

CORVETTE Vehicle Line 1990 issued Model Year

METRIC (U.S. Customary)

Body Type And/Or

2-DOOR	HATCHBACK	COUPE	17707

2-DOOR CONVERTIBLE 1YY67

Revised(*)

6-89

logy lype					2-DOOR HATCHBACK COUPE 1770/	
Ingine Dist	Nacemen Comin	τ -				
<u> Brakes -</u>	Servic	8			Hydraulic Power Brake Front And Rear Disc Base JL9 And Heavy Duty	
Description				ı	J55 Systems	
			c or down)		B.C.I.A. Standard Pad Guided Caliper	
brake type (std.,					B.C.I.A. Standard Pin Guided Caliper	
pt., n.a.)	dalawa			1	Rear Proportioner Integral With Master Cylinder	
alving type(p					Standard	
ower brake (: looster type(:			:		Vac 240mm Single Diaph .65 sq. in.	
sooster type(		line, pump			Engine Plenum	
·		(volume ca			Not Applicable	
acuum	Pump-ty				11	
raction		al speed re	1700		•	
Control		ine intervel				
		r (std., opt			Standard Front And Rear	
	Manufac				Bosch	
	<del></del>	ctronic, me	rch.)		Electrohydraulic	
Anti-lock		rensors or			4 Front Wheel Sensors	
levice Jevice		lock hyd. c			3 (1 Front And 1 Rear) Hydraulic	
		radd-on s			Add-On	
				-	Yes	
		Yaw control (yes, no)  Hydraulic power source			Electronic Motor Pump	
Effective area					Front Linings 209; Rear Linings 119 (W/Out Grooves)	
Gross Lng an			3		Front 53.2 x 4 = 213; Rear 29.7 x 4 = 119 (W/Grooves)	
					Front 660 Base/722 H.D; 589 Rear	
OMEDICAL P		cm (sq in))*** (F/R) Outer working diameter F/R			F-Base/302.3mm; F-H.D./327.3mm; R/302.7mm	
		00101 00101119		F/R	F-Base/222.3mm; F-H.D./247.3mm; R/232.7mm	
Aotor %	Thicknes			F/R	F-Base/20mm; F-H.D./28mm; R/20mm	
		pe (vented	/sld)	F/R	Gray Iron Vented Front, HCE Iron Vented Rear	
	+	r & width		F/R	Not Applicable	
Drum		materia!		F/R		
Wheel cylind					Front Dual Piston 38mm (1.5 in.) Rear 40.5mm (1.6 in.)	
Master cyline		Bore/	stroke	F/R	Front 22.2/20mm (.87/.79 in.) Rear 22.2/12mm (.87/.47 in.)	
Pedal arc rati					3.5:1	
Line pressure	-	00 (b.) ped	الع			
load (kPa (ps	i)				W/Power Front 8625 (1250) Rear 5175 (750)	
Lining clears	nce			F/A	Front And Rear Self Adjusting	
	1	Bonded	or riveted		Integral Mold	
		Rivet siz	•		Not Applicable	
	1	Manufac	turer		Japan Brake Industries	
	Front	Lining co	de ****		JB CP26, FE Code	
	wheel	Material			Semi-Metallic Nonasbestos	
			Pri.or out-brd		Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.)	
Brake	1	Size	Sec. or in-brd		Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.)	
		Shoe th	cknss.(no ing)		6.0mm (0.236 in.)	
lining		Bonded	or riveted		Integral Mold	
	1	Manufac	turer		Japan Brake Industries	
	Rear	Lining C	ode		JB H3H - B33, GF code	
	wheel	Materia			Semi-metallic nonasbestos	
			Pri. or out-brd		108 x 35 x 8.5mm (4.25 x 1.38 x 0.33 in.)	
	1	Size	Sec. or in-brd		94 x 35 x 8.5mm (3.70 x 1.38 x 0.33 in.)	
		Shoe thoknes (no ing)			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 P/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.

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 (S	tandard)			
	Size (load rang	ie, ply)	P275/40ZR17 B/W ~ Base  High Speed Steel Belted Radial Eagle 40ZR (Goodyear), Unidirectional		
	Type (bias, rac	fial, etc.)			
Tires	inflation pres- sure (cold) for	[ " -	240 (35)		
	recommended max. vehicle load	Rear (kPa(psi))	240 (35)  240 (35)  **English**		
	Rev/mile-at 70	D km/h(45mph)	497 4 (788)		
	Type & materia	 1	Left-Right Aluminum Alloy Road Wheels With Specific Vent Design		
	Rim (size & fla	nge type)	17 x 9.5 Front, 17 x 9.5 Rear, Left-Right Specific		
	Wheel offset		56mm (1.97 in.)		
Wheels		Type(bolt,stud)	Stud		
	Attachment	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 9154 PA		
	Storage position location (descri	on & ribe)	Horizontal Under Fuel Tank		
Tires And	Wheels (O	ptional)			
Tire size (load ran	ige, ply), rear		P315/35ZR17		
Type (bias, radial	, steel, etc.), real		High Speed Steel Belted Radial Eagle 35ZR (Goodyear)		
Wheel (type & mi	terial), 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 ran	ige, ply)				
Type (bias, radial					
Wheel (type & m		<del></del>			
Rim (size, flange					
Tire size (load ran	ige, ply)				
Type (bias, radial		c.)			
Wheel (type & ma		<del></del>			
Rim (size, flange		<del></del>			
Tire size (load ran			<del>-  </del>		
Type (bias, radia)					
Wheel (type & ma					
Rim (size, flange		<del></del>			
Spare tire and wi					
(if configuration is different than road tire or wheel, describe optional spare tre and/or wheel location & storage position)			·		
Brakes - F	arking				
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		
	Type(internal c	or external)	Not Applicable		
lf separate from	Drum diamete		*		
service brakes			· <del></del>		
	Lining size (length x width x thickness)				

Vehicle Line	COR	VETTE			
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

Manual (std., opt., f.a.)				Not Available
Power (std., opt., n.a.)				Standard
Adjustable Type steering wheel/ column (tilt, Manufacturer			Tilt And Telescopic	
				Saginaw Division
elescope, ther)		(std., opt.	n.a.)	Standard
Vheel		Manual		Not Available
hameter = W9) SAE J	1100	Power		368mm (14.5 in.)
	Out-	Wall to wi	ill (L. &. r.)	12.6 (41.3)
furning	side front	Curb to curb (l. & r.)		12.2 (40.0)
hameter n (fL)	in-	Wall to w	all (L. & r.)	Not Available
(,	side rear		urb (L & r.)	
Scrub Radi				
	Ť	Type		Not Available
	1	Manufact	urer	
Manual	Gear		Gear	
		Ratios	Overall	
	No. who	No. wheel turns(stop to stop)		
	+	Type (hydraulic, elec., etc.)		Alloy Rack And Pinion
		Manufacturer		Saginaw Division; Lt. Wt. Transverse Compact Pump
	-	Type		End Take-Off
Power	Gear	Ratios	Gear	
			Overall	13.0:1
	Pump (c	Pump (drive)		Accessory Belt Driven
	No. wh	el turns(sti	op to stop)	1.96 Turns - Z51 Handling Package
	Туре			End Take-Off
			<u> </u>	
Linkage		Location (front or rear of wheels, Other)		
_	ļ			Front Of Wheel
	Tie Roo	s (one or tv	<b>(D)</b>	2
	Inchnat	on at camb	er (deg.)	8.744
Steering		Upper		Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive
axis	Bear- ings	Lower		Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive
	(type)	Thrust		Lower Ball Joint
Steering s	oindle/knuc	kle & joint 1	уре	Upper And Lower Ball Joints; Anti-Corrosive
	Dua-	inner b	earing	51mm (2.0 in.)
Wheel spindle/	meter	Outer	pearing	51mm (2.0 in.)
hub	Thread	(si <b>2e</b> )		Not Available
	Bearin	g (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.

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 Allanment

MUGG! VIII	minent		
		Caster (deg.)	6.0 (+/-) 0.5
	Service	Camber (deg.)	0.8 (+/-) 0.5
	checking	Toe-in (outside track-mm (in.])	0.0 (+/-) .10
Front wheel at		Caster (deg.)	
curb mass (wt.)	Service reset*	Camber (deg.)	<u> </u>
• •		Toe-in (deg.)	
	Periodic M.V. in- spection	Caster (deg.)	
		Camber (deg.)	
		Toe-in (deg.)	
	Service checking	Camber (deg.)	0 (+/-) 0.5
Rear		Toe-in [outside track-mm (in.]]	0.0 (+/-) .1
wheel at	Service	Camber (deg.)	
(wt.)	reset*	Toe-in (deg.)	
	Periodic	Camber (deg.)	
	M.V. in- spection	Toe-in (deg.)	<u> </u>

^{*} Indicates pre-set, adjustable, trend set or other.

Electrical - instruments and Equipment

Speed-	Type (analog, digital, std., opt.)	Electronic Liquid Crystal-Digital
meter	Trip odometer (std., opt., n.a.)	Standard
EGR maintenan	ce indicator	Not Available
	Туре	Analog Display
Charge indicator	Warning device (light,	Standard - Warning Indicator
	audible)	And Lamp
Temperature	Туре	Analog Display
indicator	Warning device	Standard - Warning Indicator And Lamp
Oil	Type Analog Display	
pressure indicator	Warning device	Standard - Warning Indicator And Lamp
Fuei	Type	Electric Liquid Crystal-Analog
indicator	Warning device	Standard-Warning Indicator Signals - Reserve
	Type (standard)	Intermittent Control System
Wind-	Type (optional)	Not Available
Shield Wiper	Blade length	508mm (20 in.)
	Swept area (sq cm (sq in))	6920 (1072.9)
	Type (standard)	Push Button ~ Manual
Wind- shield	Type (aptions!)	Not Available
washer	Fluid level indicator	Not Available
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Available
	Type	Vibrator
Hom	Number used	2

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
Other

(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.

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

## METRIC (U.S. Customary)

Engine	Description
Engine	Code

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

Electrical	- Supply	System

FIOCTRICA	- Supply System			
	Manufacturer	Delco Remy		
	Model, std., (opt.)	75-525		
	Voltage	12		
Battery	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		
	Manufacturer	Delco Remy		
•	Rating (idle/max. rpm)	105 Amps		
Alternator	Ratio (alt. crank/rev.)	3.09		
	Output at idle (rpm, park)			
	Optional (type & rating)	None		
Regulator	Туре	Micro Circuit Unit; Integral With Alternator		

Electrical - Starting System

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

Electrical - Ignition System

	Electronic (#td, opt,n.a.)		4-
Туре	Other (spe	city)	High Energy Ignition (HFI)
	Manufactu	rer	Delco Remy
<b>0</b> -0	Model		Integral With Distributor
Cail		Engine stopped-A	
	Current	Engine idling – A	
	Manufactu	rer	AC
•	Model		FR5LS
0	Thread (mr	n)	M14 x 1.25
{Ne·	Tightening torque [Newton meters (lb. ft.)]		24-30 (18-22)
	Gap		0.89 mm (0.035 in.)
	Number pe	r cylinder	1
Diam's	Manufactu	rer	Delco Remy
Distributor	Model		

Electrical - Suppression

	Internal Afternator Capacitor, Non-Metallic High-Tension Cables, Resistor
	Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor
Locations & type	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.
·	

	Chanis	ications	Vehicle Line CORVETTE					
MIVIMA	opeciti	ications	Model Year _	1990	lssued	6-89	Revised(*)	
METRIC (	U.S. Custo	omary)	_					
Engine Desc	ription		5.7 LITER V8 (3	50 CID)	<u> </u>	-		
Engine Code	•		MULTI-PORT FU		ON RPO LT	<b>75</b>		
ria atalaal	Cumhi	Suntam						
Electrical	- Supply		Delco Remy				<u> </u>	
	Manufacture		75-695 Standard					
	Model, std.,	(001)	12					
<b>-</b>	Voltage	E cold cont	695					
Battery		eg F cold crnk	90					
		serve capacity	54	- "				
	Amps/hrs.	ZV Nr. TERB	Engine Compartm	ent Directly	Behind Left \	Wheel Oper	ning	
	Location		Delco Remy					
	Manufacture		105 Amps 50/120				<del></del>	
	Rating (idle)							
Alternator	Ratio (alt. cr		2.59					
		ile (rpm, park)	55 Amps					
-:	Optional (ty	pe & rating)	None	1-40	h Alternator			
Regulator	Туре		Micro Circuit Unit;	integral vvi	In Alternator		<del></del>	
Fiectrical	- Starting	s System						
LIGOTI IOCI.	Manufactur		Nippon Denso					
Motor	Current dra		425 Amps					
	Power ratin		1.6 (2.1)					
	Engagemen		Coaxial Solenoid					
Motor drive	Pinion enga							
GUAR	from (front,	rear)	Front					
	_							
<u>Electrical</u>	- Ignition	n System						
	Electronic	(std, opt,n.a.)				·		
Туре	Other (spec	cify)	Direct Ignition Sys	Direct Ignition System				
	Manufactu	rer	Delco Remy					<del> </del>
	Model							
Coil		Engine stopped-A						
	Current	Engine idling - A	•-					
	Manufactu	rer	AC					
	Model		FR2LS					
	Thread (mr	m)	Not Available					
Spark plug	Tightening							
	Gap		-					
	Number pe	er cylinder	1					
	Manufactu		Delco Remy					
Distributor	Adaptal		Direct Ignition					

Page 16.1

And On "Heater Only" Blower Motors And Coax Capacitor.

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

Locations & type

Electrical - Suppression

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

**METRIC (U.S. Customary)** 

Body Ty	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 S Front - Re	•		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-Com	osion Trēātment		All Encompassing Corrosion Protection Including Extensive Use Of Aluminum; Galvanization; Use Of Specially Treated Fasteners; Austentic Stainless Steel Or Specially Coated Brackets, Clamps, Clips And Braces; Use Of Aluminized Steel, Dip Painted; Use Of Materials That Resist Corrosion.			
Body -	Miscellaneous In	formation				
Type of finis	sh (lacquer, enamel, other)	_	High Solids Base Coat Enamel With High Solids Clear Coat			
	Material & mass		Sheet Molded Compound With Steel Reinforcements, 33.6 kg. (74.1 lbs.)			
Hood	Hinge location (front, rear	)	Front			
11990	Type (counterbalance, pro	op)	Hinged Clamshell Hood, W/Upper Wheelhouse Attached W/Dual Gas Struts			
	Release control (int., ext.)		Internal			
	Material & mass		Not Applicable			
T <i>runk</i> lid	Type (counterbalance, ot)	ner)	*			
	internal release control (elec., mech., n.a.)					
	Material & mass		Tempered, Tinted Safety Glass 19.05 kg. (42.0 lbs.)			
Hatch- back lid Type (counterbalance, other)		ner)	Dual Gas Struts			
DACK HO	Internal release control elec., mech., n.a.)		Electric Release, Standard (Each Door And Console Glove Box)			
Material & mass			Not Applicable			
Tuilente	Type (drop, lift, door)		,			
Tailgate	internal release control (elec., mech., n.s.)		•			
	w control (crank,	Front	None			
friction, pivi	or bower)	Rear				

Drive

None

None

 $\ensuremath{\mathfrak{D}}$  – Polypropylene Reinforced Composite Frame For Seat Cushion And Backrest.

Front Rear Front

Rear 3rd seat Front

Rear

3rd seat

MVMA-90

Window regulator type (cable, tape, flex drive, etc.)

Seat cushion type (e.g., 60/40, bucket, bench wire, foam, etc.)

Seat back type (e.g., 69/40, bucket, bench, wire, foam, etc.) Bucket Seat, Full Cloth Trim W/Wool Pad Comfort Liner @

Bucket Seat, Full Cloth Trim W/Wood Pad Comfort Liner @

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

Vehicle Line CORVETTE

Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body	Тура
------	------

2-DOOR HATCHBACK COUPE 1YY07

2-DOOR CONVERTIBLE 1YY67

Restrain	System						
Seating Positi	on		Left	Center	Right		
	Type & description (up & shoulder bett, lap beft,	First seat	3-Point Active Lap & Shoulder Belt		3-Point Active Lap & Shoulder Belt		
Active	etc.)	Second seat					
	Standard/ optional	Third seat					
	Type & description (air bag, motorized-	First seat	Air Bag Standard				
Passive	2-ppint belt, fixed belt, knee bolster, manuai- lap belt)	Second seat					
	Standard/ optional	Third seat			·		
Glass		SAE Ref No					
Windshield g surface area [ in.]]	Windshield glass exposed surface area [sq. cm. (sq. sin.)]		8710.0 (1350.0)				
Side glass ex area (sq. cm. ( total 2- sides	posed surface sq. in.)) -	S2	4007.2 (621.1)				
Backlight gla surface area [ (sq. in.)]	ss exposed sq. cm.	53	6205.0 (961.8)	2554.8 (396.0)			
Total glass ex area (sq. cm. (	posed surface sq. in.]]	S4	18922.2 (2932.9)		15272.0 (2367.1)		
Windshield g	lass (type)		Curved - Laminated Plate - Tinted				
Side glass (ty	pe)		Curved - Tempered Plate - Tinted				
Backlight gla	ss (type)		Curved - Tempered Plate - Tinted (Hatchback) Vinyl				
<u>Headlam</u>	ps						
	sealed beam, sceable bulb, etc.		Sealed Beam				
Shape			Rectangular				
Lo-beam type (2A1, 2B1, 2C1, etc.)		2B1 On Both - 1 Capsule Per Side					
Quantity		"					
Hi-beam type 2C1, etc.)	(1A1, 2A1, 1C1,						
Quantity							
Frame							
			All-Weided Steel Body-Frame C	Construction, 100% Galvanized			
Type and des frame, unitize unitized frame	cription (separate d frame, partially— e)		Bolt-On Front Crossmember To Allow Bottom Loaded Engine				

 Vehicle Line
 CORVETTE

 Model Year
 1990
 Issued
 6-89
 Revised(*)

METRIC (U.S. Customary)

<b>Body</b>	Туре
-------------	------

2-DOOR HATCHBACK COUPE 1YY07

2-DOOR CONVERTIBLE 1YY67

ur conditionin uto, temp col	g (manual, ntrol)	Standard, Four Season Manual Control
		Standard, Digital Read-Out With All Radios
lock (digital,	analog)	
ompass / the	rmometer	Not Available
onsole (floor	, overhead)	Standard, Floor
)efroster, ele		Standard
	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
Electronic	Tripminder (avg. spd. fuel)	Range, Average And Instant MPG
	Voice alert (list items)	Not Available LCD And Analog Instrumentation Standard
	Other	
	- Cinc	
Evel door loc	k (remote, key, electric)	Not Available
	Auto head on/off delay, dimming	Not Available
	Comering	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
Lemps	Fog	Standard
CEMPS	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	
	3,116	
	Day (night fauta The )	Standard, Manual
	Day / night (auto. man.)	Power Standard, Heated
Mirrors	L.H. (remote, pwr., heated)	Power Standard, Heated
	R.H.(convex, rmt, pwr, htd)	RH Standard/LH Optional
·	Visor vanity (RH/LH illum.)	THE CHARGE OF C. Spranter
Navigation (	system (describe)	None
	auto release (warn, light)	Manual Release, Tell-Tale - Standard

Vehicle Line	COR	VETTE			 
Model Year	1990	issued	6-89	Revised(*)	 

METRIC (U.S. Customary)

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

10	Deck lid(	release, pull down)					
	Door tooks (manual, auto.,		Standard Deck Lid Hatch,				
ľ	describe	system)	Standard Door Locks				
Г		2 - 4 - 6 way, etc.	6-Way Optional				
ŀ		Reclining(R.H., L.H.)	Manual Standard, Power Optional				
		Memory (R.H., L.H., preset, recline)	Not Available				
wer juipment	Seats	Lumbar, hip, thigh, Support	Power Optional				
		Heated (R.H., L.H., Other)	Not Available				
	Side win	dows	Standard				
	Vent win	dows	Not Available				
	Rear win	dows	Standard - Electric Hatch Release (3 Remote Location)				
	Conver	tible deck lid	Standard Release				
		(location, whip, 1, power)	Rear Power Antenna				
	Stan.		AM/FM Stereo Cassette				
ladio ystems	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	r (number, location)	Standard - 2 Front, 2 Rear Bose - 1 Each Door, 2 Rear				
loof: open air o liding, 'T')	or fixed (	flip-up,	Single, Full Width Lift-Off Roof Panel Conv. Fldg. Top				
peed control o	device		Standard - Eelectronic Speed & Cruise Control W/Resume Feature				
peed warn, de	ev. (light,	buzzer, etc.)	Not Available				
achometer (rp	m)		6,000				
elephone syst	tem (des	cribe)	Not Available				
heft deterrent	t 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).				

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 atherwise specified.

#### **Body Type**

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

o Width	SAE Ref. N	ło.
Tread (front)	W101	1513 (59.6)
Tread (rear)	W102	1534 (60.4)
Vehicle width	W103	1804 (71.0)
	W117	1752 (69.0)
Body width at Sg RP (front)	W120	3706 (145.9)
Vehicle width (front doors open)	W121	
Vehicle width (rear doors open)	W122	36.9
Tumble-home (deg.)	W410	
Outside mirror width		<u></u>

o Length		
Wheelbase	L101	2444 (96.2)
	L103	4483 (176.5)
Vehicle length	L104	1030 (40.5)
Overhang (front)	L105	1009 (39.7)
Overhang (rear)		2309 (90.9)
Upper structure length	L123	
Rear wheel C/L 'X' coordinate	L127	1886 (74.2)

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		

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 (degeses)	H108	10.6
Angle of departure (degrees)	H107	20.2
Ramp breakover angle (degines)	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).

<b>MVMA</b>	<b>Specifications</b>
-------------	-----------------------

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

METRIC (U.S. Customary)

**Vehicle Dimensions** 

See Key Sheets for Definitions

B-4.	T
BOOV	Type

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

Front Compartment	SAE Ref.	
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)
SpRP to heal 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
Footangle (deg.)	L48_	87.0
Design H-point front travel	L17	165.0 (6.5)
Normal driving & riding seat track tryl.	L23	146.5 (5.8)
Shoulder room	W3	1366.0 (53.8)
Hiproom	WS	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, whil cntr	L11	
Accel, heel pt. to steer, whil cntr	H17	
Undepressed floor covering thickness	H67	24 (0.9)

Front Compartment Int. Dim. Are Measured With The Seating Ref. Pt.

o Rear Compartment	(NOT APPLICABLE)	(SgRP)	mm Forward And	mm Upward of Rearmost Position.
SgRP point couple distance	L50			
Effective head room	H63			
Min. effective leg room	L51	<u> </u>		
SgRP (second to heel)	H31			
Knee clearance	L45	<u> </u>		
Shoulder room	W4			
Hip room	W6			
www. Upper body opening to ground	H51			
Back angle (deg.)	L41	<u> </u>		
Hip angle (deg.).	L43	<u> </u>		
Knee angle (deg.)	L45	<u> </u>		
Foot angle (deg.)	L47	<u> </u>		
Depressed floor covering thickn	ess H73	<u> </u>		

Luggage Compartment	Ľ
---------------------	---

Englade Competition	1		186.9 (6.6)
Usable luggage capacity [L (cu. ft.)]	V1		100.5 (0.0)
*** Liftover height	H195	902 (35.5)	

Interior Volumes (EPA Classification)

Interior Volumes (EPA Classification)	فيناكات المستقل والمستقيل المستقل والمستقل والمستقل والأسراء والمستقل والمس
Vehicle class	Mini-Compact
Interior volume index (cu. ft.)**	Not Available, On Two Passenger Vehicles
Trunk ( caron index (cu. ft.)	

^{*}See page 14. **Includes passenger and trunk / cargo index - see definition page 32.

^{***} EPA Loaded Vehicle Weight, Loading Conditions Ali Linear Dimensions Are in Millimeters (Inches)

	Vehicle Line	CORVETTE			Revised(*
MVMA Specifications	Model Year	1990 Issued		6-89	
METRIC (U.S. Customary) Vehicle Dimensions See Ke	y Sheets for Definitions				
Body Type	2-DOOR	HATCHBA	CK COUPE	1YY07	

Station Wagon - Third Seat	SAE Ref. No. (NOT APPLICABLE)
Seat facing direction	SD1
SgRP couple distance	L8S
Shoulder room	Was
Hip Room	Was
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 voi, 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).

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

## METRIC (U.S. Customary)

Body	Type
,	.,,,,

2-DOOR HATCHBACK COUPE 1YY07

2-DOOR CONVERTIBLE 1YY67

iumber*		Define Coordinate Location
		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 Bott.
ront		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.
-		<ul> <li>X - Fiducial Mark To Vertical Zero Grid Line - Rear, Measured Horizontally from The Zero Grid Line</li> <li>To Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).</li> </ul>
Rear		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).
		<ul> <li>Z - Fiducial Mark To Horizontal Zero Grid Line - Rear, Measured Vertically From The Zero Grid Line</li> <li>To Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).</li> </ul>
Fiducial Mark Number		
	W21*	552 (21.7)
	L54*	831 (32.7)*
ront	H81*	-181 (-7.1)#
	H161*	178 (7.0)
**	H163*	120 (4.7)
	W22*	296 (11.7)
	L.55*	2714 (106.9)*
lear	H82*	46 (1.8)#
	H162*	367 (14.4)
**	H184*	345 (13.6)
		* Vertical Base Grid 2000mm Line
		- ABLICE DESE GUG 2000 LEUR

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

All linear dimensions are in millimeters (inches).

^{**} EPA Loaded Vehicle Weight, Loading Conditions.

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

METRIC (U.S. Customary)

,	Vehicle Mass (weight)							
	CURB MASS, kg. (lb.)*		% PASS MASS DISTRIBUTION					
				Pass in	Front	Pass in	Rear	ETWC=
Code Model	Front	Rear	Total	Front	Rear	Front	Rear	ETWC- Code
Code	744.4	732.2	1476.6					
1YY07 2-Door Hatchback Coupe (L98 & MD8)	(1641)	(1614)	(3255)					3625
					i			•
	755.2	732.0	1497		·			2005
1YY67 2-Door Convertible (L98 & MD8)	(1665)	(1636)	(3301)					3625
			ļ	1	ľ			
				<u> </u>			Manual	3750
	793.8	784.2	1578.0	Ì			Only	3/30
1YZ07 2-Door Hatchback Coupe (ZR1)	(1750)	(1729)	(3479)	<del> </del>			City	-
(LT5 & ML9)		!	1	l		ĺ	1	
				<del>                                     </del>	<del> </del>	<u> </u>		
			1					i
		<del> </del>		<del></del>	<del> </del>	<u> </u>		
	]		1					ļ
			<del>                                     </del>		<b></b>			
		1						
		<del>                                     </del>	†					
	ł				i		<u> </u>	l
	<del>                                     </del>							
	-		<u> </u>		<u> </u>			
<u> </u>					T			1
		·		<u> </u>	<u> </u>		<u> </u>	<u> </u>
					1	l		ļ
				<u> </u>	ļ	<u> </u>	<del> </del>	<del> </del>
						1	1	
		<del> </del> _	<del> </del>		<del> </del>	<del> </del>	<del> </del>	<del> </del>
							1	
		<del> </del>	<del></del>	<del> </del>	<del></del>	+	╂───	┼
[		[					i	
	<del> </del>	<del> </del>	<del> </del>	+ -	+	-	┼──	
					1			
Į.	1 .	I		.1		<u></u>		

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 Moto	r vehicle dimensions, curb weight definition.
- ETWC - Equivalent Test Weight	ght Class - basis for U.S. Environmental Protection Agency emission certification:

Matel to F I MC code lebang below in rest w	Man Compon	
ETWC LEGEND		SHIPPING MASS (weight) Calculation (Kg. (lbs.)
A = 1000	Y = 4000 AA = 4500 BB = 4750 CC = 5000 DD = 5250 EE = 5500 FF = 5750	Shipping Mass (weight) = Curb Mass (weight) Less:  48 (106)

Vehicle Line CC Model Year 1990

CORVETTE 90 Issued

6-89

Revised(*)

## METRIC (U.S. Customary)

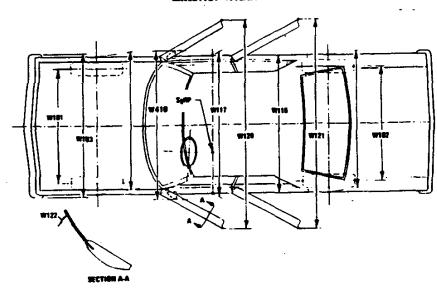
		Optional Equipment Differential Mass (weigh		t Differential Mass (weight)*	
		MASS, kg. (lb.)			Remarks
Code	Equipment	Front	Rear	Total	Restrictions, Requirements
AQ9	Custom Adjustable Seats	2.8	3.3	6.1	Power Adjust For Backrest Lateral
		(6.2)	(7.39)	(13.5)	Restraints, Lumbar Support And Back Angle, Special Cloth Trim.
					ruge, opecar cross state
B16	Leather Seat Trim	.6	1.0	1.6	As Required (Special Contour
		(1.3)	(2.2)	(3.5)	Bucket Seat).
ССЗ	Removable Plastic Roof Panel	4	-1.0	-1.4	Acrylic Plastic. Lighter, Blue
		(-0.9)	(-2.2)	(-3.1)	Tinted For Glare And Sun Load
				1	Control, Coated For Scratch
					Resistance. Not Avail. On Convt.
C68	Automatic Air Conditioning	1.0		1.0	Autometic Terrograture Control
		2.205		2.205	Automatic Temperature Control
ML9	Manual Transmission	(3.3)	1.3 (2.9)	(6.2)	
		(3.3)	(2.5)	(0.2)	
	Delco/Bose	1.5	2.9	4.4	Includes Specific AM/FM Stereo
	Premium Audio System	(3.3)	(6.4)	(9.7)	Radio With Cassette Player, Bose
	r reciniqui rauso dyotom	1	<u> </u>		Power Amplified, Direct Reflecting
			<u> </u>		Speakers (One In Each Door And At
			Ĭ		Each Side Of Luggage Area). Also
				Ļ———	Features Dolby sound, Dynamic
,			[		Noise Reduction And Automatic
		<u> </u>			Suppression System.
				4.6	Includes HD Radiator, Aux. Boost
V08	Heavy Duty Cooling Required	5.8	-1.2	(10.2)	Fan, And Oil Cooler.
	Except Base	(12.8)	(-2.6)	(10.2)	Fall, AND OR COOKS.
	Electric Defogger System (Hatch And	.2	.2	.4	
		(0.4)	(0.4)	(0.8)	Mirrors Only On Convertible.
	Outside Rear View Mirrors)	(0.7)	(0.4)	(3.0)	
<b>Z5</b> 1	Performance Handling Package, Consists Of	1.9	2.4	4.3	Includes Left-Right 17 x 9-1/2
اسه	FE7, FG3, GZ0, V01, KC4, B4P	(4.2)	(5.3)	(9.5)	Wheels, Fast Steering HD Cooling.
	Cart LOO! April 40.0! (April 20.0)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
			<del> </del>	<del>                                     </del>	
					<u> </u>
				<u> </u>	

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

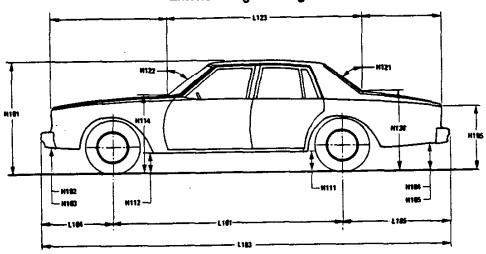
**METRIC (U.S. Customary)** 

Exterior Vehicle And Body Dimensions - Key Sheet

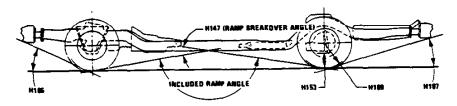
## **Exterior Width**



## Exterior Length & Height



## **Exterior Ground Clearance**

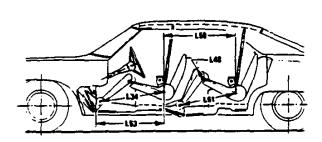


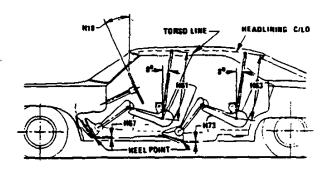
Page 27

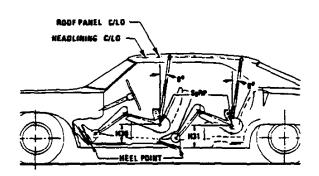
## **MVMA Specifications Form**

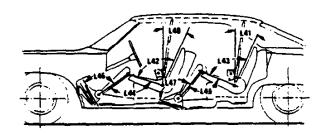
METRIC (U.S. Customary)

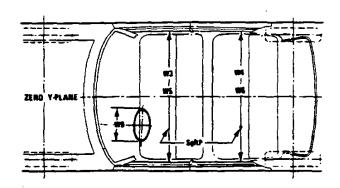
## Interior Vehicle And Body Dimensions - Key Sheet

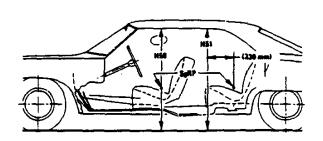










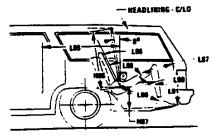


## **MVMA Specifications Form**

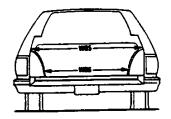
METRIC (U.S. Customary)

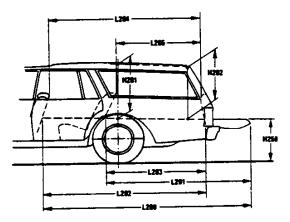
## Interior Vehicle And Body Dimensions — Key Sheet

## **Third Seat**

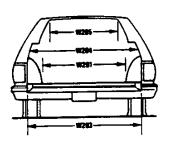


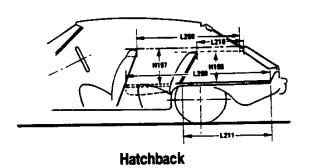
Cargo Space





**Station Wagon** 





**METRIC (U.S. Customary)** 

#### Exterior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's

design reference point which -

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design

vehicle structure: (c) Simulates the position of the pivot center of the human

torso and thigh; and

Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,"

#### Width Dimensions

TREAD-FRONT. The dimension measured between the

tire centerlines at the ground.

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.

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.

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

VEHICLE WIDTH - FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

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.
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.
OUTSIDE MIRROR WIDTH: The dimension between the W410 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

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.

VEHICLE LENGTH. The maximum dimension measured L103 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.

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.

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.

UPPER STRUCTURE LENGTH. The dimension measured L123 longitudinally from the cowl point to the deck point

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**

VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

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.
ROCKER PANEL - FRONT TO GROUND. The dimension

H112 measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground. COWL POINT TO GROUND. Measured at zero "Y" plane.

H114

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.

WINDSHIELD SLOPE ANGLE. The angle between the H122 vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "7" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18 0 m.) long drawn from the lower DLO to the intersecting point on the windshield.

DECK POINT TO GROUND. Measured at zero "Y" plane STATIC LOAD - TIRE RADIUS - REAR. Specified by the H138

H109 manufacturer in accordance with composite TIRE SECTION STANDARD.

#### **Ground Clearance Dimensions**

FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard

FRONT BUMPER TO GROUND-CURB MASS (WT) H103

Measured in the same manner as H102.

REAR BUMPER TO GROUND. The minimum dimension H104 measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

REAR BUMPER TO GROUND-CURB MASS (WT) H105

Measured in the same manner as H104.

ANGLE OF APPROACH. The angle measured between a H106 line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the from bre to ground. The limiting structural component shall be

ANGLE OF DEPARTURE. The angle measured bet 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 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.

REAR AXLE DIFFERENTIAL TO GROUND. The minimum H153 dimension measured from the rear axle differential to

MINIMUM RUNNING GROUND CLEARANCE. The mini-H156 mum dimension measured from the sprung vehicle to ground. Specify location.

**METRIC (U.S. Customary)** 

#### Interior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

#### Glass Areas Windshield area.

Side windows area. Includes the front door, rear door, vents, S2 and rear quarter windows on both sides of the vehicle.

Backlight areas. **S3** 

Total area. Total of all areas (S1 + S2 + S3). **S4** 

#### **Fiducial Mark Dimensions**

#### Fiducial Mark - Number 1

"X" coordinate.
"Y" coordinate. W21 "Z" coordinate. H81

Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. H161

H163 Fiducial Mark - Number 2

L55 "X" coordinate. W22 "Y" coordinate.

WR2 "Z" coordinate.

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

H164

#### Front Compartment Dimensions

ACCELERATOR HEEL POINT TO STEERING WHEEL L11 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

DESIGN H-POINT - FRONT TRAVEL. The dimension meas-L17 ured horizontally between the design H-point - front in the foremost and rearmost seat track positions. (See SAE

NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. L23 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). SgRP - FRONT. "X" COORDINATED. L31

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 wehicles 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.

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.

HIP ANGLE - FRONT. The angle measured between torso L-42 line and thigh centerline.

KNEE ANGLE-FRONT. The angle measured between L44 thigh centerline and lower leg centerline measured on the

FOOT ANGLE - FRONT. The angle measured between the L46 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 JB26.

SgRP-FRONT TO HEEL. The dimension measured L53 horizontally from the SgRP-front to the accelerator heel

SHOULDER ROOM-FRONT. The minimum dimension W3 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.

HIP ROOM-FRONT. The minimum dimension measured taterally 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.

STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. W9

Define if other than round.

ACCELERATOR HEEL POINT TO THE STEERING WHEEL **H7** 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.

STEERING WHEEL ANGLE. The angle measured from a H18

H30

STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.

SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point. UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane. EFFECITVE HEAD ROOM-FRONT. The dimension measured along a line 8 deep pear of vertical from the SgRP-tront. H50

**H61** 

ured along a line 8 deg. rear of vertical from the SgRP – front to the headlining plus 102 mm (4.0in.).
FLOOR COVERING THICKNESS – UNDEPRESSED – H67

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

BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP – second and the torso line. HIP ANGLE – SECOND. The angle measured between

**L43** torso line and thigh centerline.

KNEE ANGLE-SECOND. The angle measured between L45

thigh centerline and lower leg centerline. FOOT ANGLE - SECOND. The angle measured between L47 the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare toot flesh line (Reference J826).

KNEE CLEARANCE - SECOND. The minimum dimension L48 measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).

SgRP COUPLE DISTANCE-SECOND. The dimension 150 measured horizontally from the driver SgRP-front to the SaRP - second.

MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-L51 mension measured along a line from the ankle pivot center

to the SgRP - second plus 254 mm (10.0 in.). SHOULDER ROOM - SECOND. The minimum dimension W4 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.

HIP ROOM - SECOND. Measured in the same manner as W6

SGRP-SECOND TO HEEL. The dimension measured H31 vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.

UPPER BODY OPENING TO GROUND - SECOND. The

H51 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.

EFFECTIVE HEAD ROOM-SECOND. The dimension

**H63** measured along a line 8 deg. rear of vertical from the SgRP

to the headlining, plus 102 mm (4.0 in.).
FLOOR COVERING - DEPRESSED - SECOND. The di-H73 mension measured vertically from the heel point to the underbody sheet metal.

**METRIC (U.S. Customary)** 

Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

#### **Luggage Compartment Dimensions**

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

#### Interior Volumes (EPA Classification)

The interior 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.
- LB6 EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SqRP-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
- 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. 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
- H87 SGRP THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION-THIRD.

#### Station Wagon - Cargo Space Dimensions

- E200 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
- 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:

W4 x H201 x L204 1728 = 113

Measured in mm:

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

**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:

Measured in mm

 $\frac{1.506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$ 

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

Measured in mm:

$$\frac{1.204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$$

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:

Measured in mm:

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:

$$\frac{1208 + 1209 \times W4 \times H197}{2} = 1728$$

Measured in mm:

$$\frac{1208 + 1209 \times W4 \times H197}{2} = m^3 \text{ (cubic meter)}$$

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:

$$\frac{L210 + L211}{2} \times W4 \times H198$$
= 1728 = ft³

Measured in mm:

## METRIC (U.S. Customary)

## $\emptyset$ index

Subject	Page No.	Subject	Page No
Alternator	16	Passenger Capacity	,
Axle Drive, Front, Rear, All Four	2, 9, 10	Passenger Mass Distribution	
Axie Shafts	10	Pistons	
Battery		Power Brakes	
Body and Miscellaneous Information		Power, Engine	
Brakes - Parking Service		Power Steering	
_		Power Teams	
Camber		Propeller Shaft	
Camshaft	3	Pumos - Fuei	
Capacities	_	Water	_
Cooling System			
Fuel Tank	6	Radiator - Cap. Hoses, Core	
Lubricants		Ratios - Axle, Transaxle	
Engine Crankcase		Compression	
Transmission / Transaute		Steering	
Carburetor		Rear Axie	
Caster		Regulator - Alternator	
Clutch - Pedal Operated		Restraint System	
Coil, Ignition		Rims	
Connecting Rods		Rods - Connecting	
Convenience Equipment		<b>~</b>	
Cooling System		Scrub Radius	
Crankshaft		Seats	
Cylinders and Cylinder Head		Shock Absorbers, From & Rear	
Diesel Information		Spark Plugs	
Dimension Definitions		Springs - Front & Rear Suspension	
Key Sheet - Exterior	27 20 31	Stabilizer (Sway Bar) — Front & Rear	
Key Sheet - Interior		Starting System	
•		Steering	
Electrical System		Suppression - Ignition, Radio	
Emission Controls	/	Suspension - Front & Rear	
Engine - General  Bore, Stroke, Type	•	Tail Pipe	
Compression Ratio		Theft Protection	
Displacement		Thermostat, Cooling	
Firing Order, Cylinder Numbering		Tires	
General Information, Power & Torque		Toe-in	
Intake System		Torque Converter	
Power Teams		Torque - Engine	
Exhaust System	, 7	Transaxie	9
Equipment Availability, Convenience	19	Transmission - Types	2, 8. 9
Fan, Cooling	5	Transmission - Automatic	
Filters - Engine Oil, Fuel System		Transmission - Manual	
Four Wheel Drive		Transmission - Ratios	
Frame	18	Tread	
Front Suspension		Trunk Cargo Load	
Front Wheel Drive Unit		Trunk Luggage Capacity	
Fuel System	6	Turning Diameter	14
Fuel Injection	6	Unitized Construction	
Fuel Tank	6	Universal Joints, Propeller Shaft	10
Glass	18	Vaive System	4
Headiamps		Vehicle Dimensions	
Headroom - Body		Width	21
Heights		Length	21
Homs		Height	
Horsepower ~ Brake		Ground Clearance	<b>. 2</b> 1
		Front Compartment	
Ignition System		Rear Compartment	
Inflation - Tires		Luggage Compartment	
Instruments		Station Wegon - Third Seat	
		Station Wagon - Cargo Space	
Legroom		Hatchback - Cargo Space	
Lengths		Fiducial Marks	
Leveling, Suspension		Voltage Regulator	
Lifters, Valve		Water Pump	
Linings — Clutch, Brake		Weights	
Luggage Compartment		Wheel Alignment	
		Wheelbase	
Models		Wheels & Tires	
Motor Starting		Widths	
Muffler , , . ,		Windshield	
Origin	1	Windshield Wiper and Washer	

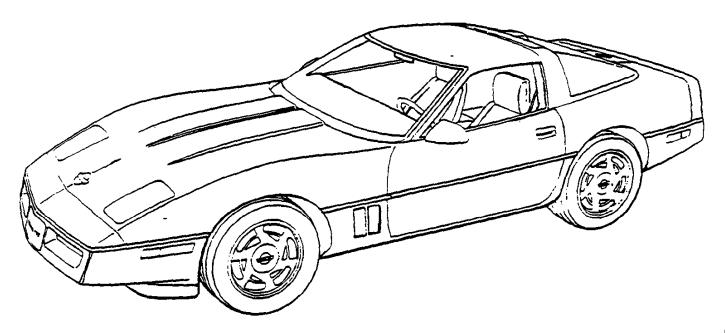


CJCHEVACLE

# 1990

## CORVETTE

## **SPECIFICATIONS**





C PATTITATE C BEATO OF ETT



## 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 ZSD: 350ci, 375hp, ac

ZSB: 350ci, 245hp, 250hp, mt, oc ZSH: 350ci, 375hp, ea

ZSC: 350ci, 245hp, 250hp, at, oc

 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 Coupe16,016	\$31,979.00
1YY67	Base Corvette Convertible	
AC1	Power Passenger Seat20,419	
AC3	Power Driver Seat23,109	270.00
AQ9	Sport Seats, leather11,457	1,050.00
AR9	Base Seats, leather11.649	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	
245	Removable Roof Panel, blue tint (coupe)7,852	615.00
645	Removable Roof Panel, bronze tint (coupe) .4,340	
C68	Electronic Air Conditioning Control22,497	
FX3	Selective Ride and Handling, electronic 7,576	
G92	Performance Axle Ratio9,362	
K05	Engine Block Heater1,585	
KC4	Engine Oil Cooler	110.00
MN6	6-Speed Manual Transmission8,100	0.00
NN5	California Emission Requirements4,035	100.00
UJ6	Low Tire Pressure Warning Indicator8,432	
UUB	Stereo System, Delco-Bose6.401	823.00
U1F	Stereo System with CD, Delco-Bose 15,716	1,219.00
V56	Luggage Rack (for convertible)1,284	
Z51	Performance Handling Package (for coupe) .5,446	
ZR1	Special Performance Package	

 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	White4,872	Bk-S-W	B-Bk-G-R-S
25	Steel Blue Metallic 813	Bk-W	B-Bk
41	Black4,759	Bk <del>.</del> 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 Metallic2,353	Bk-S-W	Bk-S
80	Quasar Blue Metallic 474	Bk-S	Bk-S
81	Bright Red6,956	Bk-S-W	Bk-G-R-S
91	Polo Green Metallic 1,674	Bk-S	Bk-S
96	Charcoal Metallic878	Bk-S	8k-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.

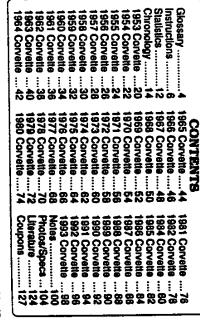
# The Corvette Black Book

1953-1993

Published by October 1992

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





O Michael Bruce Associates, Inc., 1978, 1980, 1983, 1985, 1986, 1991, 1992. All rights reserved under Pan American and Universal Copyright Conventions by Michael Bruce Associates, Inc. Reproduction without permission is prohibited. publisher and author disclaim responsibility for the accuracy of any or all information Because of the possibility of errors, exceptions, or other reasons for inaccuracy, the presented in this publication.

enthusiasts who contributed their expertise to this and previous editions of the Corvette Black Book: Notand Adams, Dan Aldridge, John Amgwert, Pat Baker, Jane Barthelme, Michele Boling, Kent Brooks, Barry Brown, David Burroughts, Sleve Dangsemond, Dr. M. F. Dobbins, Bob Eckles, the late Sam Folz, John Hibbert, Mike Hunt, Allan Kaplan, Paul Kitchen, Gary Konner, Ralph Kremer and staft, Jim Krughoff, Gary Lisk, Bill Locke, Bob Lojewski, Bob McDomman, ChipMiller, Bill Mock, Brien Pearce, John Poloney, Bill Rhodes, Jeffrey Smith, Mark & Dixle Smith, Lou Vitalle, Jerry Wadsworth, Jerry Welchers and Don Williams. Thanks also to General Motors Corporation. Callaway Engineering, to Mercury Marine, and to the Chevrolet Motor Division of Michael Bruce Associates, Inc. acknowledges with appreciation the following

National Auto Research Division of Hearst Business Media Corporation. Corporation, its parent or affiliated corporations, or the Black Book published by Inc. have no relationship or connection whatever with Hearst Business Media Notice: The Corrette Black Book and its publisher, Michael Bruce Associates,

ated with or sponsored by General Motors or its Chevrolet Motor Division. Michael Bruce Associates, Inc. and the Corvette Black Book are not associated

Munzer: restored by Bill Munzer and Don Williams. Cover: Photo and design by Mike Antonick. 1963 Corvette owned by Bil Printed and bound in the United States of America

ISBN: 0-933534-35-3

Mail Order To: Michael Bruce Associates, Inc.

Post Office Box 396 Powell, Ohio 43065

BOOK TRADE DISTRIBUTION BY:

Chargoost charmotional
Oceals, Wiscomin \$4020, USA

## BLACK BOOK ORDER FORM

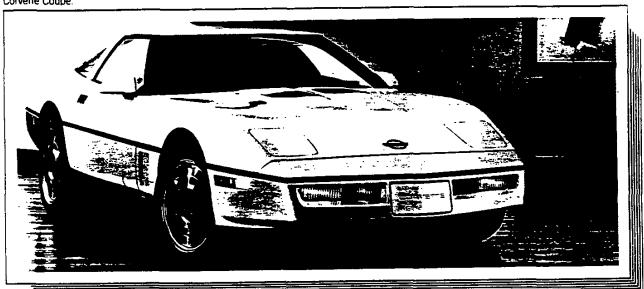
NameStreetState	Corvette Black Book 1953-1993  Corvette Black Book 1953-1993  @ \$11.95 each \$  Ohio residents add .72 sales tax  Postage/hard shipping container 3.00  Check or money order enclosed \$	BLACK BOOK ORDER FORM	Mail Order To: Michael Bruce Associates, inc. Post Office Box 396 Powell, Ohio 43065	NameState	Corvette Black Book 1953-1993 Corvette Black Book 1953-1993  © \$11.95 each \$  Ohio residents add .72 sales tax  Postage/hard shipping container Check or money order enclosed \$
Zip	1953-1993 5 each \$ sales tax container3_00 cclosed \$	ER FORM	ssociates, inc. 396	Zip	1953-1993 each \$ sles tax intainer 3.00 iosed \$



CORVETTE 2-Door Coupe 2-Door Convertible MODEL NUMBER 1YY07 14467

PASSENGER CAPACITY All Models

Corvette Coupe.



### **HIGHLIGHTS**

- Interior treatment is entirely new for '90 and includes newly designed instrument panel, console, cluster
- aoor 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"
- Optional Delco*/Base premium sound system with digital compact disc and cassette player available.
- New base cooling system negates need for a neavy-duty cooling option.
   One new extenor color, Polo Green Metallic, is introduced.
   Driver's side illuminated visor young marror.
- Drivers side illuminated visor vanity mirror.
   Electronic Selective Ride and Handling option (RPO FX3) available (requires Z5) Performance Handling Package).
   A Low Oil Sensor signals "Low Oil" on the Driver Information Panel if level drops significantly.
- level drops significantly.

   An Engine Oil Life Monitor signals "Change Engine Oil" when the on-poara computer calculates the need for fresh oil

### **EQUIPMENT** AVAII ARII ITY

Power-operated retractable halogen headiamps  Halogen fog tamps  Dual electrically adjusted and heated mirrors  S  S  Full-glass reor hatch with roller cargo cover  One-piece removable fiberglass roof panel  Full-folding roof  NA  S  PASS-Key* anti-theff system  Intermittent wiper system  S  Electronic speed control with Resume Speed  Air conditioning  Heated rear window  Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks  Power door locks  Power windows  Cloth bucket seats with lateral support and back angle adjustment plus wool-pad comfort liner  Outside engine air induction  P275/AOZR-17 Eagle radial tires  17" x 9%" cast aluminum wheels  Power 4-wheel disc brakes  Bosch ABS II anti-lock braking system  Power rock-and-pinion steering  Heavy-outy Bilstein gas-charged shock absorbers  Undernood lamps  Acoustical insulation package	AYAILADILII I	- Colope	- CONTI
Full-glass reor hatch with foller cargo cover  One-piece removable fiberglass roof panel  Full-folding roof  PASS-Key* anti-theff system  Intermittent wiper system  Signature of Signature Speed  Air conditioning  Heatled rear window  Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks  Power windows  Signature of Signature Signatu		Ş	S
Full-glass reor hatch with foller cargo cover  One-piece removable fiberglass roof panel  Full-folding roof  PASS-Key* anti-theff system  Intermittent wiper system  Signature of Signature Speed  Air conditioning  Heatled rear window  Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks  Power windows  Signature of Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signatu		ွ	ွ
Full-folding roof PASS-Key* anti-theft system Intermittent wiper system SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed Control with Resume Speed Control with Resume Speed Control with Resume Speed Control with Resume	Dual electrically adjusted and heaten mirrors	્રે	
Full-folding roof PASS-Key* anti-theft system Intermittent wiper system SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed SI SElectronic speed control with Resume Speed Control with Resume Speed Control with Resume Speed Control with Resume Speed Control with Resume	Full-glass rear hatch with roller cargo cover	ွဲ	
Heated rear window Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  S  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks Power windows  S  S  S  S  S  S  S  S  S  S  S  S  S	One-piece removable fiberglass roof panel		
Heated rear window Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  S  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks Power windows  S  S  S  S  S  S  S  S  S  S  S  S  S	Full-folding roof		ွဲ
Heated rear window Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  S  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks Power windows  S  S  S  S  S  S  S  S  S  S  S  S  S	PASS-Kev ² anti-theft system	Ş	Ş
Heated rear window Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  S  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks Power windows  S  S  S  S  S  S  S  S  S  S  S  S  S		Ş	S
Heated rear window Leather-wrapped steering wheel with Supplemental Inflatable Restraint (SIR)  S  AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna  Power door locks Power windows  S  S  S  S  S  S  S  S  S  S  S  S  S	Flectronic speed control with Resume Speed	S	Ş
AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna SSS SSPower door locks SSSPower windows SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		S	S
AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna SSS SSPower door locks SSSPower windows SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		S	
AM/FM stereo radio with Seek and Scan, cassette, four speakers and automatic power antenna S S S S S S Power door locks S S S S S S S S S S S S S S S S S S S	Leatherwanned steering wheel with Supplemental Inflatable Restraint (SIR)	S	S
automatic power antenna SSSS Power door locks SSSS Power windows SSSS Cloth burket seats with lateral support and back angle adjustment plus	ANATIN charge gardin with Sook and Scan, cassette four speakers and		
Cloth bucket seats with lateral support and back angle adjustment plus	WALLE JELEO LOCKOL OUTDING	S	S
Cloth bucket seats with lateral support and back angle adjustment plus		Š	Š
Cloth bucket seats with lateral support and back angle adjustment plus		Š	Š
wool-pad comfort liner  Outside engine dir induction  P275/40ZR-17 Eagle radial tires  17" x 9½" cast aluminum wheels  Power 4-wheel disc brakes  Bosch ABS II anti-lock braking system  Power rack-and-pinion steering	Power willows	•	_
Outside engine air indiction  P275/40ZR-17 Eagle radial tires  17" x 9½" cast aluminum wheels  Power 4-wheel disc brokes  Bosch ABS II anti-lock braking system  Power rack-and-pinion steering	Cloth bucket Seals with idealat support and back angle bajasiment plas	S	S
Durside engine dir induction P275/40ZR-17 Eagle radial tires SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		Š	Š
P275/AQZR-17 Edgle radial tires 17" x 9½" cast aluminum wheels Power 4-wheel disc brakes Bosch ABS II anti-lock braking system Power rack-and-pinion steering	Outside engine oir induction	č	Š
17" x 9½" cast diuminum wheels Power 4-wheel disc brakes Bosch ABS II anti-lock braking system Power rack-and-pinion steering		ž	ž
Power 4-wheel disc brakes Bosch ABS II anti-lock braking system S Power rack-and-pinion steering S S S		2	ž
Bosch ABS II anti-lock braking system Power rack-and-pinion steering		3	2
Power rack-and-pinion steering		2	ž
	Power rack-and-pinion steering	ွဲ	2
Heavy-auty Bilstein gas-charged shock absorbers	Heavy-auty Bilstein gas-charged shock absorbers	5	5
Undernood lamps 5 5		5	5
Acoustical insulation package	Acoustical insulation package	S	5
Uniframe-design body structure with corrosion-resistant coating S S	Uniframe-design body structure with corrosion-resistant coating	S	5

NA-Not Available S-Stangard

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

R D Ε

### WHEEL TRIM



Standard Corvette 17" x 9½" cast aluminum wheels.

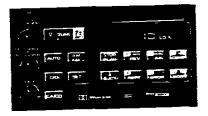
### **RADIOS**



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 UUS).



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

Appearance at radios may vary by car model.

### REMOVABLE HARDTOP OPTION



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

© 1989 General Motors Corporation. All rights reserved. The Chevrolet emblem is a registered trademark of General Motors Corporation.

All illustrations and specifications in this product are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time without notice, in colors materials, specifications and models, and also to discontinue models. Chevrolet Major Division General Motors Carporation, Warren, Michigan, 48090.



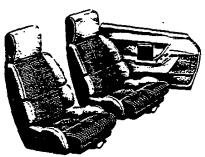
Refer to Passenger Car Order Guide for option availability and application.

### SEAT TYPES & COLORS

### CORVETTE STANDARD CLOTH SEAT TRIM



Standard sport cloth trim available in Black or Saddle.



Standara 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 rectining 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.

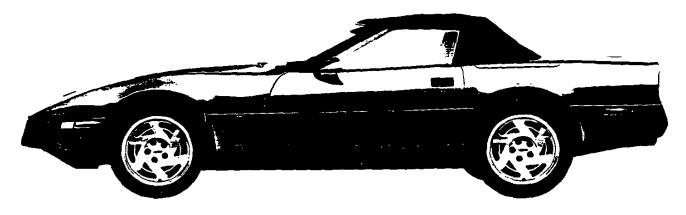


Optional articulated sport seats with leather trim."

"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-Saggle.

### PREFERRED EQUIPMENT GROUPS

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

	CORVETTE COUPE	CORVETTE CONVERTIBLE
DESCRIPTION	P.E.G.	P.E.G.
Electronic Air Conditioning	X	X
Delco */Bose Music System	Х	X
Power Seat (Driver's)	Χ*	χ*
NDIVIDUAL OPTIONS		
Radio Equipment		
Delco*/Bose Music System	X*	X*
Delco*/Bose Music System with Digital Compact Disc and Cassette Player	0	0
Additional Individual Options		<u> </u>
Electronic Air Conditioning	Χ*	X
Performance Ratio Axle	O†	Ot
Engine Block Heater	0	0
Low Tire Pressure Worning	0	0
Performance Handling Package	O†**	
Power 6-Way Seat (Passenger's)	0	00
Root Panels—Transparent Removable—Blue Tint	0	<u></u>
Roof Panels—Transparent Removable—Bronze Tint	0	
Roof Package (Incls. Standard Solid Panel and Transparent Blue or Bronze Tint Panels)	0	
Electronic Selective Ride and Handling (Regs. Z51)	Ö	<u> </u>
Luggage Carrier (Black)		0
Hardtop, Removable		0

O-Available Individual Option. *Also available us un in-*Also available as an Individual Option with Base Vehicle Group.

X-Included in P.E.G. O-Available Individual †See Order Guide for Power Team Restrictions

### CHEVROLET SPECIFICATIONS — 1990 CORVETTA

Coupe 1YY07	2
DIMENSIONS (inches)	-
EXTERIOR Wheelbase 96. Length (overall) 176. Width (overall) 71.	5
INTERIOR         Head Room-Front       36.         Shoulder Room-Front       54.         Hip Room-Front       49.         Leg Room-Front       42.	3
LUGGAGE/CARGO CAPACITY (cu. ft.) Luggage Compartment	9
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 (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 Whee 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 ScotchgardTM Fabric Protector

*May be upgraded

### **SEAT STYLES**

STANDARD SEATS
Cloth Standard Bucket Seat

OPTIONAL SEATS
Leather Bucket
Leather Adjustable Sport Bucket

CORVET

### **COLOR AND TRIM SELECTION**

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

interior	Trim Calar	Blue	Bisck	Gray	Red	Saddle
MODEL	SEAT TYPE					
	Leatner Bucket	ADD2	ABB2	AQQ2	ARR2	AUUZ
17707	* Leatner Adjustable Sport Bucket	ADD8	ABBB	8DDA	ARR8	AUU8
) ;	Cloth Bucket		HBB2			HUU2

^{*}Regs AC1 & AC3 Power Seats

### **✓ SOLID PAINT APPLICATION**

Exterior Paint Color	Color Code 1	Color Code 2	Blue	Black	Gray	Red	Saddle
Black	41	41	•	•	•	•	e
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		1			•
Turquoise (Met)	42	42		•			•
Yellow, Competition	53	53		•	•		•
Whise, Corvette	10	10	•	•	•	•	•

### **POWER TEAMS**

ENGINE OPTION CONDITION	1	AXLE RATIO	
	2.59	3.07	3.33
WITH NAS STANDARD EMISSIONS			
L98 MXO	Std	G92	_
MN6		<u> </u>	Std
WITH NN5 CALIFORNIA EMISSIONS			
L98 MXO	Std	G92	_
MN6	)	ـــ	Std

### 32,479,00 Model 1YY07

### PREFERRED VEHICLE

MUST ORDER ONE GROUP - NO DELETIONS ALLOWED

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

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

### **REGIONALIZED OPTIONS**

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

	<b>ENGIN</b>	E (Must Order)		INTER	IOR TRIM
N.C.		5.7 Liter TPI V8	425.00	A**2	Leather Bucket
	TRANS	SMISSION (Must Order One)	1,050.00	A8	Leather Adjustable Sport Bucket
N.C.	MXO	4-Speed Automatic	N.C.	H**2	Cloth Bucket
N.C.		6-Speed Manual (Regs KC4 Eng Oil		<b>ADDIT</b>	IONAL OPTIONS
		Cooler) ION (Must Order One)	180.00	C68	Air Conditioning, Electronic (Incl w/Group CVA1)
N.C.		Standard Emissions	22.00	G92	Axle, Performance Ratio (N/A MN6
100.00		California Emissions			Trans) (Regs KC4 Eng Oil Cooler)
	TIRES		110.00	KC4	Cooler, Engine Oil
N.C		P275/40 ZR17 B/W (Base)	20.00	K05	Heater, Engine Block
	WHEE		325.00		Low Tire Pressure Warning
N.C.		17 X 9 1/2" Aluminum Wheels (Base)	460.00	Z5 1	Performance Handling Package (Rem MN6 Trans) (Incls Special
	RADIC	EQUIPMENT			Suspension)
V.P.S.		AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape Player, Power	270.00	AC3	Power Seat, Six-Way (Driver) (Incl w/Group CVA1)
V.P.S.	UU8	Antenna and Digital Clock (Base) Delco/Bose Music System.	270.00	AC1	Power Seat, Six-Way (Passenger) (Regs AC3 Power Seat)
V.I .O.	000	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo	615.00	245	
		Cassette Tape and Digital Clock (Incl w/Group CVA1)	615.00	64S	Roof Panels-Transparent Removable Bronze Tint
V.P.S.	U1F	•	915.00	C2L	Roof Package (Incls Std Solid Panel and Transparent Panel) (Regs 24S or 64S Panel)
		Cassette Tape, Compact Disc Player and Digital Clock	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					
	Leather Bucket	ADD2	ABB2	AQQ2	ARR2	AUU2
14467	Leather Adjustable Sport Bucket	ADD8	ABB8	8QQA	ARRS	AUU8
	Cloth Bucket		HBB2			HUU2

^{*}Regs AC1 and AC3 Power Seats

### ✓ @CONVERTIBLE TOP SELECTOR

Exterior Paint Color	Color Code 1	Color Code 2	Blue	Black	Gray	Red	Saddle
Biack	41	41	19T	10T/19T	10T/19T	19T	
Blue, Med Quasar (Met)	80	80	{	19T			67T
Biue, Steel (Met)	25	25	10T/19T	10T/19T			
Charcoal, Corvette (Met)	96	96		10T/19T	107/197		
Polo Green, Corvette (Met)	91	91		197/677			197/677
Red. Corvette Bright	81	81		10T/19T	107/197	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	107	107/197	10T/19T	10T/19T	101/671

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

### **POWER TEAMS**

ENGINE OPTION CONDITION	AXLE RATIO						
	2.59	2.73	3.33				
WITH NAS STANDARD EMISSIONS							
L98 MXO	Std	G92	_				
MN6	l	<u> </u>	Std				
WITH NNS CALIFORNIA EMISSIONS							
L98 MXO	Std	G92					
MN6	_	) _	Std				

### 37,764.00 Model 1YY67

### PREFERRED VEHICLE

MUST ORDER ONE GROUP - NO DELETIONS ALLOWED

1,273.00 Preferred Equipment Group 1

Air Conditioning – Electronic
Delco/Bose Music System. Electronically Tuned AM/FM
Stereo Radio w/Seek-Scan, Stereo Cassette Tape and
Digital Clock
Power Seat (Driver)

CYA1

X

X

Electronically Tuned AM/FM
Stereo Radio w/Seek-Scan, Stereo Cassette Tape and
X

X

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

### **REGIONALIZED OPTIONS**

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

	ENGIN	E (Must Order)		INTER	IOR TRIM
N.C.	L98	5.7 Liter TPI V8	425.00	A**2	Leather Bucket
14.0.	TRANS	MISSION (Must Order One)	1,050.00	A**8	Leather Adjustable Sport Bucket
N.C.		4-Speed Automatic	N.C.		Cloth Bucket
N.C.	MNE	6-Speed Manual (Regs KC4 Eng		ADDIT	IONAL OPTIONS
N.C.	MINO	Oil Cooler)	180.00	C68	Air Conditioning, Electronic (Incl
	EMISS	ION (Must Order One)			w/Group CYA1)
N.C.	NA5		22.00	G92	Axle, Performance Ratio (N/A MN6
100.00					Trans) (Reqs KC4 Eng Oil Cooler)
100.00	TIRES		140.00	V56	Carrier, Luggage: Black
N.C.		P275/40 ZR17 B/W (Base)	110.00	KC4	Cooler, Engine Oil
14.0.	WHEE		1,995.00	CC2	Hardtop, Removable
N.C.		17 X 9 1/2" Aluminum Wheels	20.00	KO5	Heater, Engine Block
14.0.		(Base)	325.00	<b>UJ6</b>	
	PADIC	EQUIPMENT	270.00	AC3	Power Seat, Six-Way (Driver) (Incl
V.P.S.		AM/FM Stereo Radio w/Seek-Scan,			w/Group CYA1)
V.F.S.		Stereo Cassette Tape Player, Power	270.00	AC1	Power Seat, Six-Way (Passenger)
		Antenna and Digital Clock (Base)			(Regs AC3 Power Seat)
V.P.S.	UU8		1,695.00	FX3	Selective Ride and Handling,
V.I .O.	000	Electronically Tuned AM/FM Stereo			Electronic
		Radio w/Seek-Scan, Stereo			
		Cassette Tape and Digital Clock			
		(Incl w/Group CYA1)			
V.P.S.	U1F	Delco/Bose Music System.			
V.I .U.	• • • • • • • • • • • • • • • • • • • •	Electronically Tuned AM/FM Stereo			
		Radio w/Seek-Scan, Stereo			
		Cassette Tape, Compact Disc Player			
		and Digital Clock			
		and Diffuse and an			

### 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	0A-1
Vehicle Identification Plate	0A-2
Engine Identification	
Transmission Identification	0A-2
Transmission Usage	
Tire Information	0A-5
General Vehicle Lifting and	
Tacking Procedures	0A-5

Metric Fasteners	UA->
Fastener Strength Identification	
Prevailing Torque Fasteners	0A-6
Metric-English Conversion Table	0 <b>A-1</b> 0
Decimal and Metric Equivalents	0A-11
Abbreviations Chart	0A-12
Service Parts Identification Label	0A-13
Production and Process Codes	0A-14

### 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

### NOTICE

CONTENTS SENSITIVE
TO
STATIC ELECTRICITY

36882-0A-R1

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.

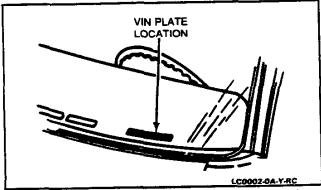


Figure 2 Vehicle Identification Number Plate Location

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.

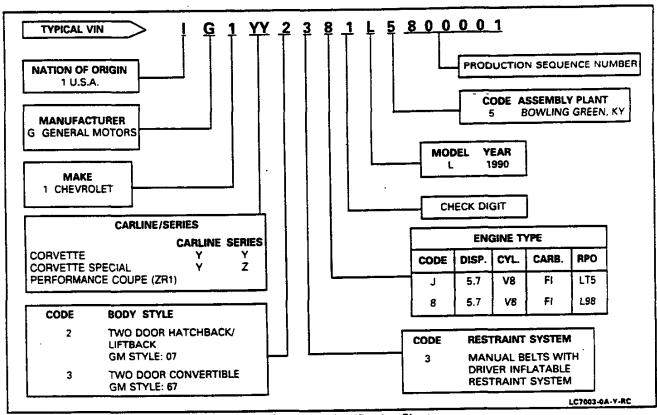


Figure 3 Vehicle Identification Chart

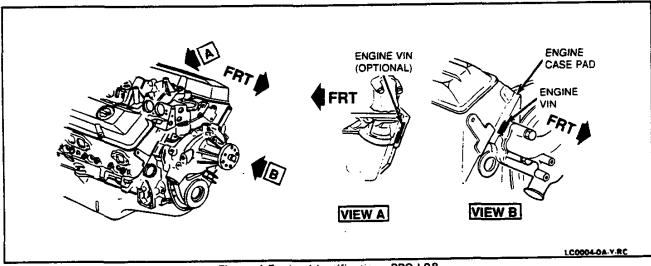


Figure 4 Engine Identification - RPO L98

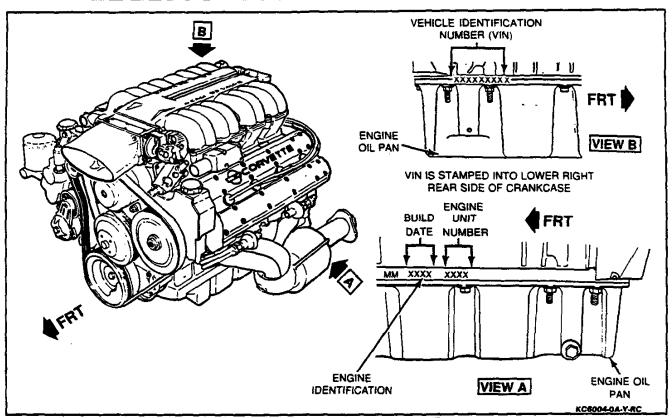


Figure 5 Engine Identification - RPO LT5

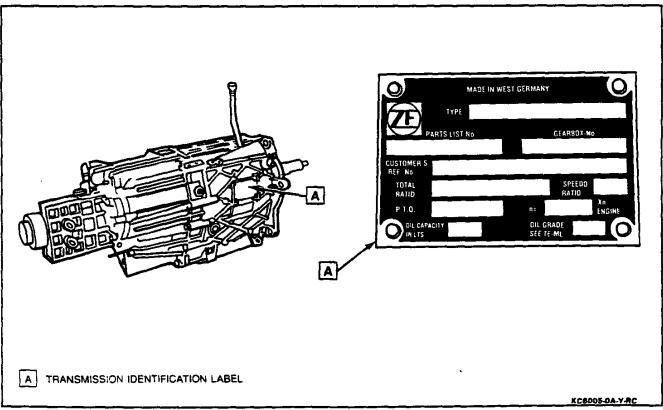


Figure 6 Manual Transmission Identification

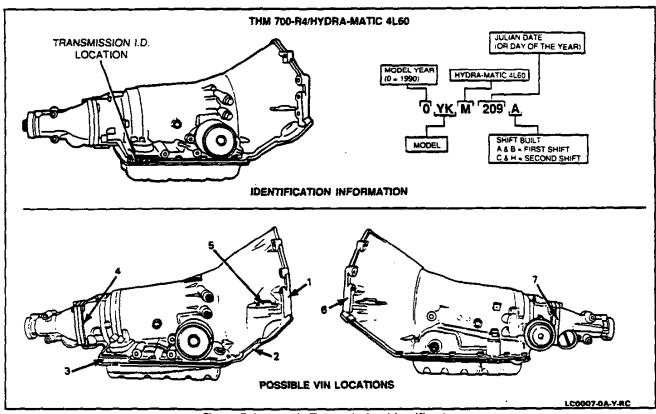


Figure 7 Automatic Transmission Identification

### 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

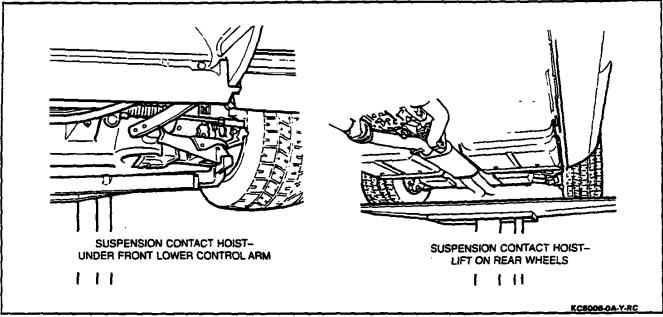


Figure 8 Vehicle Lift Points

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

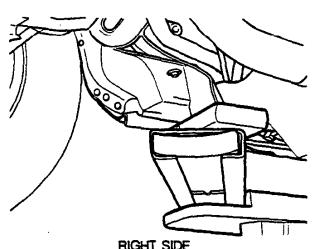
### Figures 14 and 15

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.

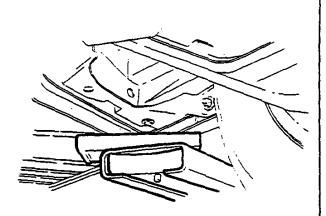
A prevailing torque bolt is designed to develop an interference between bolt and nut threads, or the threads of a tapped hole. This is accomplished by distorting some of the threads, or by using a nylon patch or adhesive.

### Recommendations For Reuse:

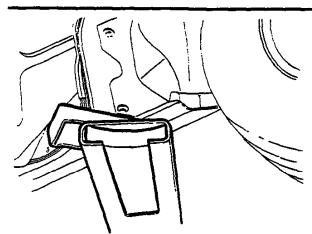
- Clean, unrusted prevailing torque nuts and bolts may be reused as follows:
  - a. Clean dirt and other foreign material from nut or bolt.
  - b. Inspect nut or bolt to assure there are no cracks, elongation, or other signs of abuse or overtightening. If there is any doubt, replace with a new prevailing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



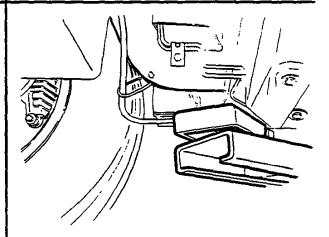
RIGHT SIDE FRAME CONTACT HOIST REARWARD OF FRONT WHEEL



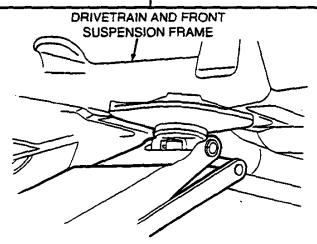
LEFT SIDE FRAME CONTACT HOIST REARWARD OF FRONT WHEEL



RIGHT SIDE FRAME CONTACT HOIST FORWARD OF REAR WHEEL



LEFT SIDE FRAME CONTACT HOIST FORWARD OF REAR WHEEL



FLOOR JACK-FRONT

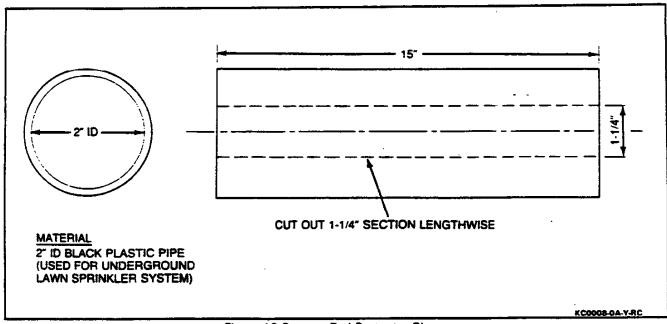


Figure 10 Support Rod Protector Sleeve

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

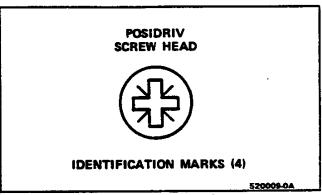


Figure 11 Cross-Recess Screw

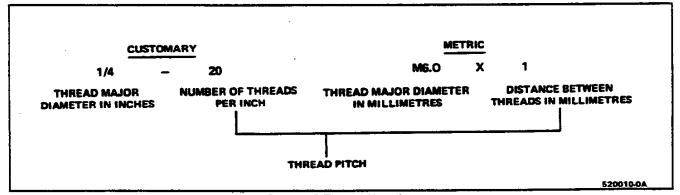


Figure 12 Thread Notation

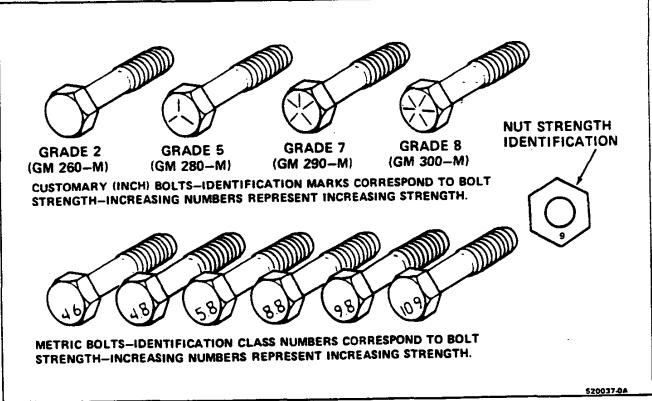


Figure 13 Fastener Strength Markings

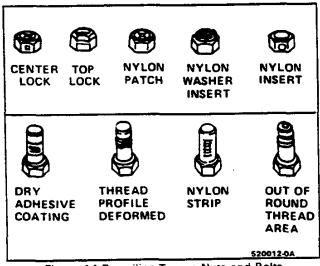


Figure 14 Prevailing Torque Nuts and Bolts

				ME	TRIC	HZES !	MM)		_
			646	3	10	12	14	11	_
GMA 2TUN	Nem IN. LES. Nem IN. LES.		0.4	0,	8 1.4	2.2	30		7.0
ALL METAL BOLTS			4.0		7.0 1Z 0.6 1.2	18	25 25		137
ADMESIVE OR NYLON						1.6	24	134	9.0
							20   29		-
COATED BOLTS	IN.	Les.	4.0				30	1 20	<u> </u>
	IN.	Les.	4.0		.0   10 NCH S				
	IN.	.250	.312					1 825	] <b>44</b>
COATED BOLTS	Nan				NCH S	255	567		-
COATED BOLTS		.250	.312	.375	NCH S	2E\$	567	6.25	•
COATED BOLTS	Nan	.250	.312 0.6	.375 1.4	MCH S .437	2E\$	547 22	6.7h	_

Figure 15 Prevailing Torque Chart

	þ	number of:	Multiply	ρλ	number of:
inch	LENGTH			ACCELERATION	
	25.4	millimeters (mm)	Foot/sec ²	0.304 8	meter/sec ² (m/s ² )
oot	0.3048	meters (m)	luch/sec,	0.025 4	
Yard	0.914 4 1.609	meters kilometers (km)		TORQUE	
	AREA		Pound-inch Pound-foot	0.112 98 1.355 8	newton-meters (N·m) newton-meters
Inch²	645.2 8 45	millimeters ² (mm²)		POWER	
Foot ²	0.092 9	meters? (m²)	Horsepower	0.746	kilowatts (kW)
	VOLUME			PRESSURE OR STRESS	
Inch³ 16	16 387.	яп ³	Inches of water Pounds/sq. in.	0.249 1 6.895	kilopascals (kPs) kilopascals
	0.016 4	liters (1)		ENERGY OR WORK	
Quert Gellon Yard³	0.846 4 3.785 4 0.764 6	liters liters meters³ (m³)	BTU Foot-pound	1 055. 1.355 8	joules (J) Joules
	MASS		Kilowatt-hour	3 600 000. or 3.6 × 10°	S AA PLO = C) Salnoi
Pound	0.453 6 907.18	kilograms (kg) kilograms (kg)		LIGHT	
Ton	0.907	tonne (t)	Foot candle	1.078 4	lumens/meter ² (lm/m ² )
	FORCE			FUEL PERFORMANCE	
Kilogram Ounce	9.807 0.278 0 4.448	newtons (N) newtons	Miles/gal Gal/mile	0.425 1 2.352 7	kilometers/liter (km/l) liter/kilometer (l/km)
	TEMPERATURE			VELOCITY	
Degree Fahrenheit (†	(†°F-32) + 1.8	degree Celsius (C)	Miles/hour	1.609 3	kilometers/hr. (km/h)
**************************************	98.6 80 120 20 40 60	160 200212 161 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>		

Figure 16 Metric-English Conversion Table

### **DECIMAL AND METRIC EQUIVALENTS**

Fractions	Decimal	Metric	Fractions	Decimal	Metric
	in.	MM.	•	in.	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. <del>6</del> 8437
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	. <b>65625</b>	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		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			57/64		
13/32	.40625	10.31875	29/32		23.01875
27/64		10.71562	59/64		23.41562
7/16 29/64	.4375	11.11250 11.50937	15/16		
15/32			61/64 31/32		24.20937 24.60625
	.484375			.984375	
1/2	.500		1		
*****		12.7000			4.5. <del>40</del> 000

### 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/Transaxie

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 Throttie 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 -lanition

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

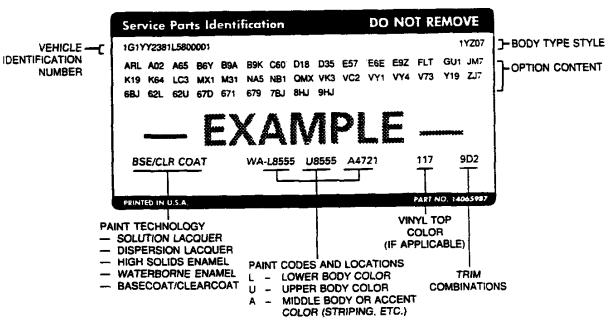
LC0018-0A-Y-RC

### 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 af-

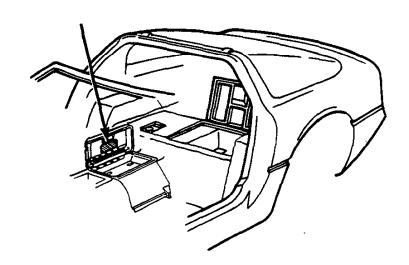
fixed to the inside of each passenger car vehicle at the assembly plant.

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



### LABEL LOCATION

CORVETTE



LC0019-0A-Y-RC

### PRODUCTION AND PROCESS CODES

ACI	Passenger's Seat Adjuster, 6-way Power
AC3	Driver's Seat Adjuster, o-way rower
A T3	
A 00	Seat. Reciming
AR9	Roof Auxiliary
CC2 CC3	Roof Removable Panel (Plastic)
CE7	Root, Removable (Non-1 ransparent)
COT	Roof Package, Consists of CC3 and CF/
C60	Air Conditioner, Manual Controls
C60 Air (	Conditioner, Automatic Electronic Controls
DL8	Geor Speedometer Driven (25513049)
D4D	Gear, Speedometer Driven (25513047)
D4I	Gear. Speedometer Driven (25513050)
D7B	Gear. Speedometer Driven (20013043)
D7C	Gear, Speedometer Driven (20010040)
D74	Mirror, Inside Visor Vanity, Illuminated
D9A	Sensor, Vehicle Speed (25007224)
D9B	Suspension, Soft Ride
FE7	Suspension, Heavy Duty
FX3	Ride and Handling, Electronic
GH0	Rear Axie, 3.34 Katio
GM1	Rear Axie, 2.39 Katio
GM3	Rear Axie, 3.45 Katio
GT7GU2	Pear Axle, 3.33 Ratio
G44	Rear Axie, 3.07 Ratio
G87	
G92	
Π 9	Brakes, Anti-Lock Front and Rear Disc
J55	Cooler Engine Oil
K05	Heater, Engine Block
K09	Generator, 120 Amp
K 68	Generator, 105 Amp
LT5	Engine, Gas, 8 Cyl, 5.7L, MPF1, OHC
L98	Transmission Automatic 4-Speed 41.60
ML9.	Transmission, Manual, 6-speed, ZF
NA5	Emission System, Federal
NINIS	Emission System, California
NK4	Steering Wheel, Sport Leather
NK4	Wheel, I / X 9.5, Styled Aluminum
T61	Lighting Daytime Running
TO 2	LAMP LAU AND SUD SUCCIAL
1116	Indicator, Low Tire Pressure Warning
LIM6 Radio AM/EM Stereo Seek	and Scan, Auto Rev. Cassette, Clock, ETN
UU8 Radio, Al	W/FM Stereo, Cassette, Dolly, Clock, DTR Speaker System Delco/Rose, 6 Speaker
IIIF Radio AM/FM	Stereo. Cassette With Compact Disc Player
II10	Cluster, Kilometers and Miles
1152	Cluster, Electronic
V56	Carrier, Luggage (Convertible)
XAUYAU	Tire, Rear, P275/40 ZR17
VDC	11re Rear, P313/33 ZR1/
<b>7D</b> 1	Special Performance Coupe Package
	TO TT - Jline Declease
751	PPHOTOSTICE DAILUME LACKARD
751	PPHOTOSTICE DAILUME LACKARD
10T	Trim Combination, Black Cloth
751	Trim Combination, Black Cloth

	Top Color, Black
19T 193	Trim Combination, Black Leather
193 199 20U	Safety Belts, Black
199	Exterior Color Nassau Blue Metallic
20U	Interior Trim, Steel Blue
221	Trim Combination, Steel Blue Leather
223	Safety Belts, Steel Blue
229 24S	Roof, Blue Removable Panel
24S 25U	Exterior Color, Metallic
41U	Exterior Color, Turquoise Metallic
53U	Exterior Color, Competition Yellow
53U	Tim Combination Comac Cloth
60C	Interior Trim Compac
60C	Tim Combination Counce Leather
603	Trim Comoniation, Cognic Science
609	Poof Bronze Removable Panel
64S	Top Color, Saddle Vinyl
67T	Exterior color Brilliant Red Metallic
67T	Interior Trim, Flame Red
731	Tim Combination Flame Red Leather
731	Safety Belts, Flame Red
739	Color Medium Quasar Rive Metallic
80U	Exterior Color, Weditini Quasar Blue Mediani
Q1T1	Exterior Color, Dright
903	Safety Balts Smoke Grav
909	Emeries Color Polo Green
	Exterior Color, Dark Smoke Gray Metallic
0611	Extenor Color, Dark Smoke Gray Metamo

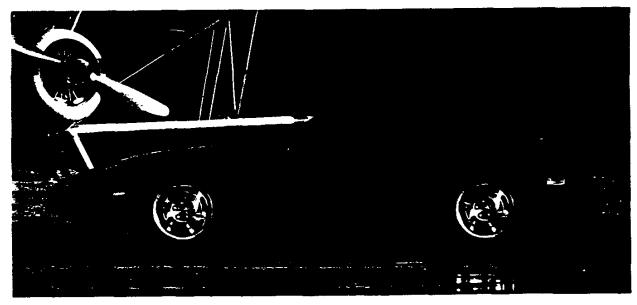
•						• 1
		•				;
			 ·			
				,		

### NDEX

THE CORVETTE STORY	1
MODEL OVERVIEW	2
MAJOR SELLING FEATURES PRESENTATION	3-4
NEW FOR '90	5
DRIVETRAIN FEATURES	6-7
CHASSIS FEATURES	8-9
BODY FEATURES	10-11
INTERIOR FEATURES	12-13
COLOR AND TRIM SELECTION	14-15
SPECIFICATIONS AND DIMENSIONS	16-17
EQUIPMENT SUMMARY	18-19
PREFERRED EQUIPMENT GROUPS	20

	·	 -		
				·
			• •	
	-			
				·
	•			
•				

### 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.

### **C**ORVETTE MODEL OVERVIEW

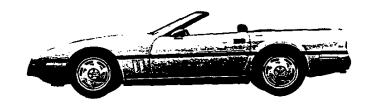
### **CORVETTE COUPE**

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 onepiece 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.



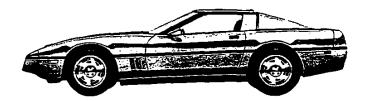
### **CORVETTE CONVERTIBLE**

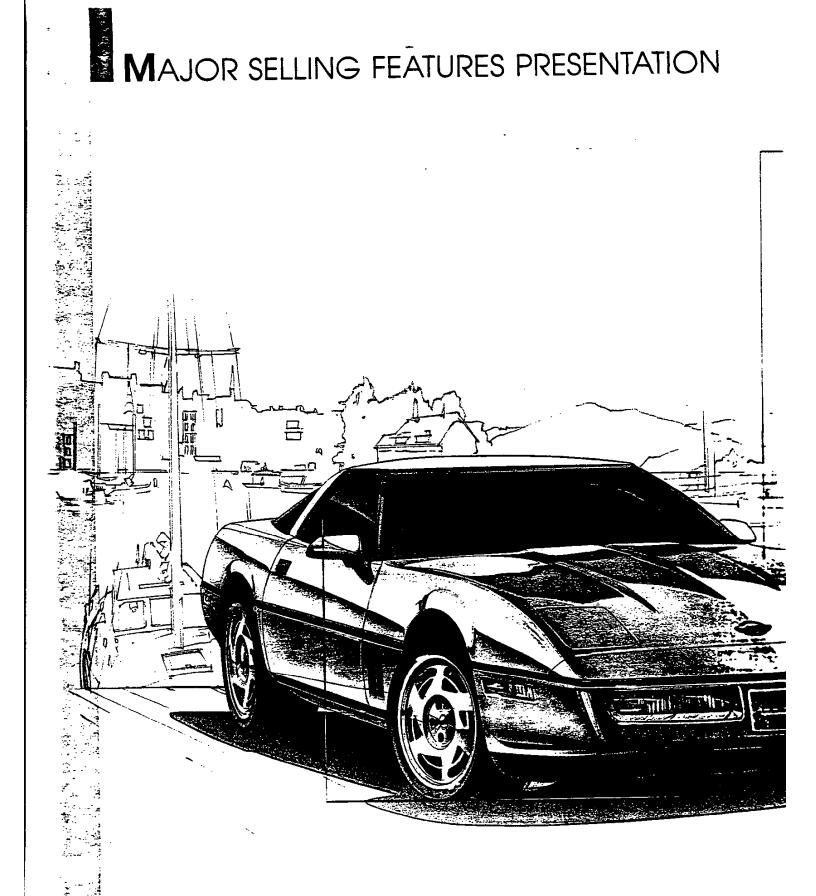
The Convertible includes all of the features of the standard Coupe, plus a manually-operated top, for the fun of open-air driving. A concealed top-well maintains Corvette's sleek appearance and a specially tuned, fully independent suspension ensures that the Convertible handles like the Corvette Coupe.



### CORVETTE ZR-1 COUPE

This new 1990 special model is powered by the potent Dual Overhead Cam, 32valve, all-aluminum 5.7-liter TPI V8. This LT5 engine produces 375 horsepower @ 5800 RPM and is teamed with the computer-controlled 6speed manual transmission with 5th and 6th overdrive aears 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.







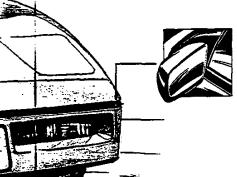
### **DRIVETRAIN FEATURES**

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™ stainresistant 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.





# **D**RIVETRAIN FEATURES

### **ENGINES**

**5**.7-LITER V8 WITH TUNED-PORT FUEL INJECTION

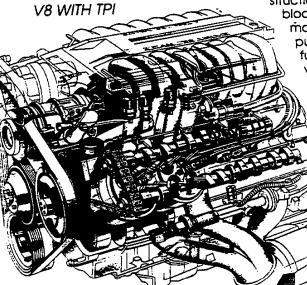
The standard source of power is the proven L98 5.7-liter (350 CID) V8 with Tuned-Port Fuel Injection. Features important to the performance-minded buyer include:

- 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 LTS 5.7-LITER DOHC



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 horse-power 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.

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.

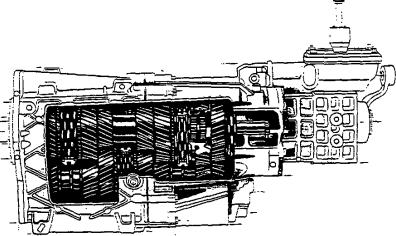
The bottom line is that this new engine delivers outstanding power and performance at both ends of the spectrum.

### 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 precalibrated 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**

<ul> <li>W. Allestander May referred with a set of secret and control of the</li></ul>	The state of the s	ORDERING	AXLE
ENGINE/TRANSMISSION	AVAILABILITY	CODE	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 Spart Exhaust included on Coupes with 6-Speed Manual OD transmission and on Coupes with 4-Speed Automatic OD transmission and (GP2) performance axie option.



# **C**HASSIS 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:

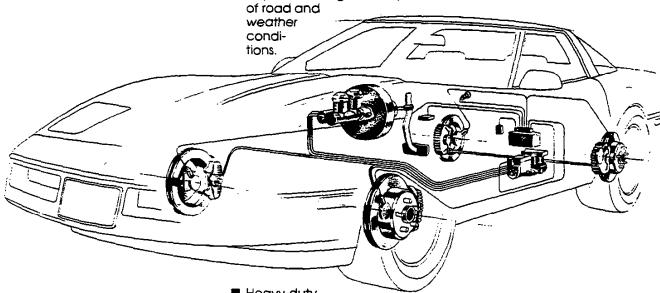
- Heavy-duty vane-type pump to ensure consistent hydraulic pressure.
- Overall ratio of 13.0:1 for quick steering response.
- 1.96 lock-to-lock turns on the Z51 handling package, for excellent turning response.
- Ability to manually steer the vehicle should hydraulic pressure drop.

## STANDARD ANTI-LOCK BRAKES

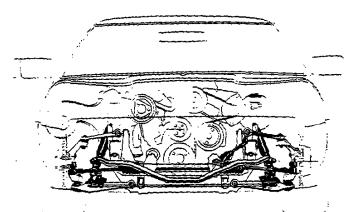
The Bosch ABS Anti-Lock Braking System nelps the driver maintain vehicle maneuverability under full braking action on most road surfaces.

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 rearwheel discs provide sure response during a variety



- 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 gaspressurized 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.

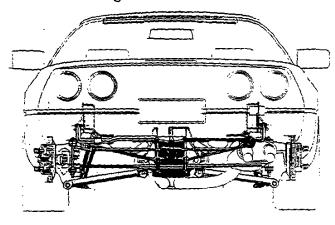
### Selective Ride Control

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.

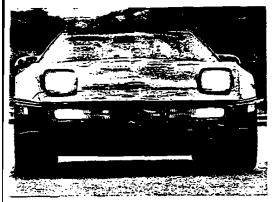




# **B**ODY FEATURES

## 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 natch 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-gailon 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-boit locks are standard for added security.

### Corvette Convertible

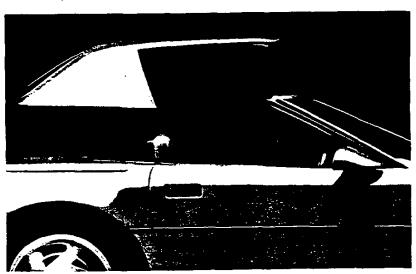
Over and above the features of the standard Coupe, the Convertible offers:

- 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 colorkeyed and can be removed or attached as needed.

### Corvette ZR-1 High-Performance Coupe

The high-performance 32valve 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.



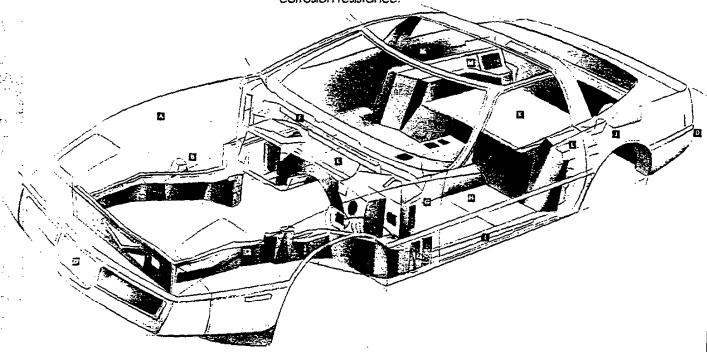
- The tires are mounted on 17-inch by 11-inch lighter weight aluminum rear wheels.
- Flared auarter panels in the rear and convex rear fascia help add to the exterior appearance.
- Reflective rectangular tail lenses and ZR-1 identification badge help other drivers identify what has passed them by.
-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

# **B**ODY PROTECTION FEATURES

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

- Lightweight fiberglass body panels that, unlike metal panels, are corrosion-free.
- High-gloss acrylic enamel basecoat with clearcoat finish, for gleaming good looks.
- Integral perimeter frame of two-sided galvanized steel, for structural rigidity and corrosion resistance.

- Sill area noise-control adhesive pads.
- Rear quarter pocket insulators.
- 3 Cargo area insulator pads.
- Noise-control blocks to help diminish road noise.
- Rear wheelhousing/ sidewall pads.
- Sidewall and cargo area insulator pads.



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





# **NTERIOR FEATURES**

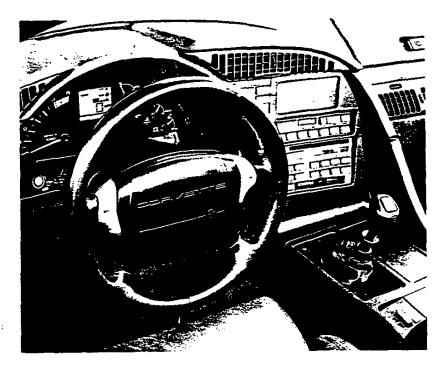
# THE COMFORT AND CONVENIENCE STORY

### 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.

# TPANEL

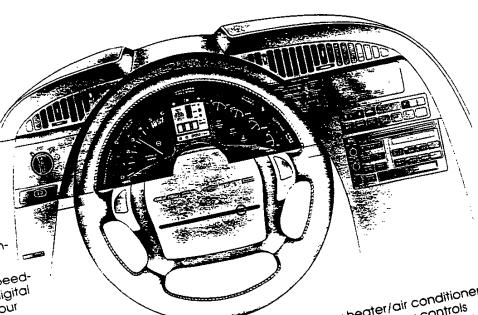
ments and ments and three sides of the lick, easy reading fion, including: wer mirror and controls are and on the driver's

enter console, with gned driver and gned driver seat gner power seat ois, selective ride rols (where availards), and disc; cassette age space.

w fog lamp switch.
w headlamp control,
r easy identification.

.ew tachometer graphcs for easy monitoring.

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



- New analog and digital gages, including oil temperature and pressure, perature and coolant 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 olerts driver of specific vehicle functions such as: vehicle functions such as: full engine power, low tire pressure, low coolant, pressure, low coolant, pressure ride select, inflat-service ride select, inflat-service ride select, inflat-service restraint, service-able restraint, service-engine-soon, battery light and service anti-lock brakes.
- New heater/air conditioner system with new controls system with new controls and graphics, for accurate temperature settings. The temperature settionic (C68) optional Electronic (C68) optional Electronic Air Conditioning controls allow digital temperature allow digital temperature setting for precise climate 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
    and quality. Optional
    compact disc and cascompact disc and cassette player provides
    sette player provides
    sette player be sound
    leading-edge sound
    reproduction. Speed
    reproduction. Speed
    reproduction speed
    reproduction speed
    reproduction speed
    reproduction speed
    reproduction speed
    reproduction speed
    reproduction speed
    required of the required (refer to the
    sound Systems Tab for
    more information).





# COLOR AND TRIM SELECTION

EAT STYLES & TRIM C	COMBINATIONS		-	INTERIOR C	OLORS		ماند دي.
Model	Seat Type	Blue	Biack	Gray	,	Red	Saddle
Corvette Coupe	Cloth Bucket		HBB2		• -		HUU2
	Leather Bucket	ADD2	ABB2	AQQ	2 /	ARR2	AUU2
	Leather Adjustable						
	Sport Bucket*	ADD8	ABB8		8 /	ARR8	AUU8
Corvette	Cloth Bucket		HBB2				HUU2
Convertible	Leather Bucket	ADD2	ABB2	AQQ	2	ARR2	AUU2
ZR-1 Coupe	Leather Adjustable			_	_	^ DD0	AUU8
	Sport Bucket*	ADD8	ABB8	AQQ		ARR8	AUU6
CORVETTE COUPE A	ND ZR-1 CORVETTE COU	PE (EXTERIOR/	INTERIOR			النظائم المستحدة والتناء	
Exterior Paint Colo	1	Color		ln	terior Cold	ors	
		Code	Blue	Black	Gray	Red	Saddle
Black		41	Х	X	X	X	
Blue, Steel (Met.)		25		X			
Charcoal (Met.)		96		X	X		
Green, Polo (Met.	)	91					X
Red, Bright		81		X	X	Х	Х
Red, Dark (Met.)		68	·	X			X
White	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10	X	X	X	X	Х
CORVETTE CONVER	TIBLE (EXTERIOR/INTERIO	R COMBINATI	ONS)				
Exterior Paint Cold		Color		Interior & C	onvertible	Top Color	5
EXICITO: 1 Chill Coli	•	Code	Blue	Black	Gray	Red	Saddle
Black		41	19T	10T/19T	101/191	191	
Blue, Steel (Met.)		25		101/191			
Charcoal (Met.)		96		101/191	101/191		
Green, Polo (Met	.)	91			101/191		191/67
Red, Bright		81		101/191	101/191	101/191	191/67
Red, Dark (Met.)		68		101/191			191/67
White		10	101	101/191	10T/19T	101/191	101/67
Convertible Top C	\-1	White	10T	Black	191	Saddle	671

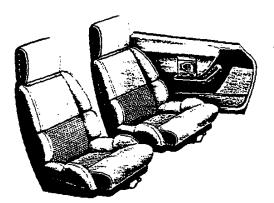
^{*}Reaures RPO AC1 and AC3 Power Seats and Z51 Performance Handling Package.

## WHEELS AND WHEEL COVERS



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

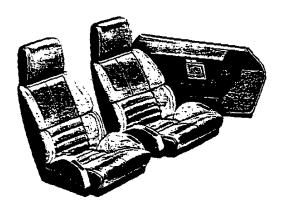
## SEAT AND DOOR TRIM



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

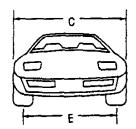


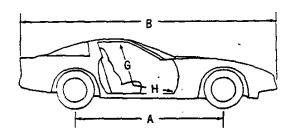
Optionally available on the Convertible and Coupe models are reclining bucket seats with leather seating surfaces, integral head restraints and wool-pad comfort liner.

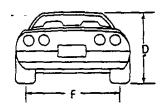


Standard on the ZR-1 and optional on the Coupe are Sport adjustable buckets with leather trim. Both driver and passenger seats feature full power adjustments for lumbar and backrest.

# SPECIFICATIONS AND DIMENSIONS







IMENSIONS			
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	চা.9
Minimum ground clear	rance 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 Ca	pacity		
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. poun	ds) 3255	3301	3479
CHASSIS SPECIFICATIONS	n again the second of the seco	A CONTRACT OF STATE O	
Brakes	Base	Convertible	ZR-1
Туре	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	<del></del>		
Туре	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			
Туре	MacPherson strut with coil springs	MacPherson strut with coil springs	MacPherson strut with coil springs
Suspension — Reat			
Туре	5-Link Independent	5-Link Independent	5-Link Independent

[&]quot;With top up, 4.2 cu. ft, with top down.



## **ENGINE SPECIFICATIONS**

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 (ibsft.)	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
lanition 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		
Туре	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	0.701	1.00
5th gear		0.75
6th gear		0.50

2.50

2.29

6th gear

Reverse

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

# **E**QUIPMENT SUMMARY

MECHANICAL	Corvette Coupe	CORVETTE Corvette Conv.	Corvette ZR-1
POWERTEAM FEATURES	•	-	
Styled engine compartment	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
Roller hydraulic valve lifters	S	\$	S
Exhaust valve rotators		S	Ş
Aluminum cylinder heads	S	S	S
Magnesium rocker covers	S	S	S
Stainless steel exhaust manifolds	<u>s</u>	S	S
Dual reverse flow mufflers	s	s	s
Single serpentine accessory drive belt	<u>s</u>	\$	\$
Computer Command Control	<u> </u>	<u>\$</u>	S
	s		s
High energy ignition (HEI) system	<u>\$</u>	<u>\$</u>	<u>s</u>
Electric engine cooling fan  Delco Freedom maintenance-free battery	<u>s</u>	<u>s</u>	<u> </u>
	<u>s</u>	<u>s</u>	<u> </u>
Underhood lamps	<u>s</u>	<del> </del>	NA NA
4-Speed automatic transmission with overdrive		<del></del>	S
6-Speed manual transmission with overdrive		<del></del>	
CHASSIS FEATURES			
Power-assisted rack-and-pinion steering	S	<u>_</u>	<u>\$</u>
Power-assisted 4-wheel disc brakes	S	S	<u> </u>
Anti-lock Brake System (ABS)	S	S	S
Monoleaf gloss-epoxy composite transverse			
front and rear springs	<u> </u>	<u>_</u> S	<u>\$</u>
Delco/Bilstein gas-charged shock absorbers	\$	S	<u>S</u>
Forged aluminum front and rear suspension arms	S	S	S
Full independent suspension	\$	S	<u> </u>
Zero-scrub front suspension	S	<u> </u>	S
FX3 Selective Ride Control		NA NA	S
20-gailon fuel tank with electric in-tank twin turbine pump	S	S	S
TIRES/WHEELS	. 1: 4/2/4/4		
17" x 9-1/2" Cast aluminum wheels	\$	s -	- S*
	<u>s</u>	<u>s</u>	S
P275/40ZR17 Eagle tires	مان مان مان مان مان مان مان مان مان مان	, <u> </u>	
BODY FEATURES			
Unitrame-design body structure with corrosion-resistant coating	S	<u></u>	S
Corrosion-resistant fiberglass body panels	S	S	S
Lightweight underbody panels	\$	S	S
Power-operated quartz-Halogen retractable headlamps	S	S	S
Dual quartz-Halogen fog lamps in grille opening	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	Š	S	S
	s		

S—Standard O—Optional NA—Not Available *Includes *7 / 11 wheels on rear. *** includes P3*5-35ZR17 tires on rear

		CORVETTE	
EXTERIOR	Corvette Coupe	Corvette Conv.	Corvette ZR-1
BODY FEATURES	The second secon		
Dual electric remote-control heated sport mirrors	S	S	<u>S</u>
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		NIA	s
(one on each door panel, one on instrument panel)	<u>\$</u> _	NA S	<u>s</u>
Power automatic retracting antenna	<u> </u>	<u>s</u>	<u>s</u>
Center high-mount stop lamp	s	<u>s</u>	<u>s</u>
Clear lens illuminating rear marker lamps	S		
INTERIOR			
INSTRUMENT PANEL/CONTROLS/CONSOLE		angarangan di Sala Pangarangan Mangarangan dan kabupatèn	
Analog gages for: tachometer, oil pressure, oil		_	
temperature, coolant temperature and voltmeter	<u>.</u> \$	S	\$
Electronic liquid-crystal display for:	•		S
speedometer, odometer, trip odometer and fuel	<u>\$</u>	<u>\$</u>	<u>s</u>
Warning lights	S		
Driver information system; includes instant mpg,	S	S	s
average mpg and range in digital readouts	<u>s</u>	S	S
PASS-Key anti-theff ignition	<u> </u>	s	S
Air conditioning	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  Delco Bose Gold AM/FM Stereo Radio with Seek/Scan,			
Delco Bose Gold AM/FM Stereo Radio With Seek/300H, 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	<u>S</u>	\$
Driver side Supplemental Inflatable Restraint System	S	S	S
SEATS/DOOR PANELS			
Contour-shell cloth bucket seats with	^	c	c
lateral support and back angle adjustment	<u>s</u>	<u> </u>	<u> </u>
Soft-padded and carpeted door panels	<u>s</u>		<u>s</u>
Power windows and door locks	S	<u> </u>	
High-intensity interior lamps on door and pillar (Coupe) or in rear compartment (Conv.)	S	s	<u></u>
Scotchgard™ fabric protector included with cloth seats	S	\$	3
LUGGAGE/CARGO AREA		<u>.</u> .	S
Deep-twist floor and stowage area carpet	<u>\$</u> S	s	S
Rear underfloor storage compartments (2)	<u>s</u> s	<u>s</u>	<u>s</u>
Acoustical insulation package	<u>\$</u>	NA NA	<u>s</u>
Luggage compartment concealment roller shade		147	

Luggage compartment concealment roller shade

"··· **** , · · = '

ART COLOR

# PREFERRED EQUIPMENT GROUPS

	Corvette Coupe	Convertible	Corvette 2R-1
Packaged Options (not available individually unless indicated)	CVA1	CYA1	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	0	0	X
ADDITIONAL INDIVIDUAL OPTIONS			
Performance Ratio Axle	0**	0••	
Engine Block Heater	0	0	<u></u>
Low Tire Pressure Warning			<u> </u>
Performance Handling Package	0**		S
Power 6-Way Seat (Passenger's)	0	0	<u> </u>
Roof Panels — Transparent Removable — Blue Tint	0		
Roof Panels — Transparent Removable — Bronze Tint	0	<u> </u>	0
Roof Package (Incls. Standard Solid Panel and Transparent Blue or Bronze Tint Panels)	0		0
Electronic Selective Ride Control and Handling (Reqs. Z51)	0		S
Luggage Carrier (Black)		. 0	<u> </u>
Hardtop, Removable			<u> </u>

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	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.



Motor Vehicle Manufacturers Association of the United States, Inc.

Blank Forms Provided by Technical Affairs Division



**METRIC (U.S. Customary)** 

# **Table of Contents**

	1	Vehicle Models/Origin  O Indicates Format Chang From Previous Year
0	2	Power Teams From Previous Year
_	3	Engine
	4	Lubrication System
	4	Diesel Information
	5	Cooling System
	6	Fuel System
	7	Vehicle Emission Control
	7	Exhaust System
0	8-10	Transmission, Axles and Shafts
	11	Suspension
	12-13	Brakes
	13	Tires and Wheels
	14-15	Steering
	15-16	Electrical
	17	Body — Miscellaneous Information
	18	Restraint System
	18	Glass
	18	Headlamps
	18	Frame
	19-20	Convenience Equipment
·O	21-23	Vehicle Dimensions
	24	Vehicle Fiducial Marks
0	25	Vehicle Mass (Weight)
	26	Optional Equipment Differential Mass (Weight)
	27-33	Vehicle Dimensions Definitions - Key Sheets
C	34	Index

### 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



Vehicle Line	CORV	ETTE			
Modet Year	1990	Issued	6-89	Revised(*)	<u></u>

# 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

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)		14407	2 (2/0)	45.4 (100)
2-Door Convertible (RWD)		1¥Y67	2 (2/0)	45.5 (100)
2-Door Coupe (RWD) (SPECIAL PERFORMANCE/Z	R1)	1Y <b>Z</b> 07	2 (2/0)	45.5 (100)

 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.

			Α	В	C	D
	Engine	Code	L98	L98	L98	L98
	Displai Liters (	cement (cu. in.)	5.7 (350)	5.7 (350)	5.7 (350)	5.7 (350)
EZ	inducti (Fi, Car	ion system rb, etc.)	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Mutti-Port Fuel Injection	Multi-Port Fuel Injection
G	Compr	ession	8.5:1	9.5:1	9.5:1	9.5:1
E	SAE	Power kW(bhp)	186 (250) @ 4400	183 (245) @ 4000	186 (250) @ 4400	183 (245) @ 4000
	at RPM	Torque Newton meters (lb.ft.)	474 (350) @ 3200	468 (345) @ 3200	474 (350) @ 3200	468 (345) <b>@</b> 3200
	Exhau Single,		Dual	Dual	Dual	Dual
TR	Transm Transa	nission/ ude	ML9 Manual Transmission 6-Speed	MD8 Automatic Transmission 4-Speed	MD8 Automatic Transmission 4-Speed	MD8 Auto Transmission 4-Speed
A N S	Axis R (std. fi		3.33	2.59	3.07	2.73

Series	Availability	Power Tear	ns (A - B - C - D)
Model	Code	Standard	Optional
CORVETTE			
2-Dr. Coupe	1YY07	В	A, C
2-Dr. Convertible	1YY67	В	D, E
2-Dr. Coupe	1YZ07 .		
(Special Performance/ZR1)		<del></del>	
			_ <del></del>
			<del></del>
<del></del>			

Vehicle Line	COF	VETTE				
Model Year	1990	lasued	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	Н
	Engine	Code	L98	LTS		
Ì	Displac Liters (	cement cu. in.)	5.7 (350)	5.7 (350)		
E	inducti (FI, Car	on system rb, etc.)	Multi-Port Fuel Injection	Multi-Port Fuel Injection		
G	Compr	ession	9.5:1	11.0:1		
N E	SAE	Power kW(bhp)	183 (245) @ 4000	280 (375) @ 5800		
	at RPM	Tarque Newton meters (lb.ft.)	468 (345) @ 3200	502 (370) @ 4800		
	Exhau Single,	st , dual	Dual	Dual	ļ	
T R	Transs Transa	nission/ xie	ML9 Manual Transmission 6-Speed	ML9 Manual Transmission 6-Speed		
AZS	Axle R (std. fi		3.33	3.45		

	Series Availability	Power	Teams (A - B - C - D)
Model_	Code	Standard	Optional
-			
<u> </u>			
		<u></u>	
•			
<del> </del>			

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

## **METRIC (U.S. Customary)**

**Engine Description Engine Code** 

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

## ENGINE - GENERAL

			<del></del>		
Type & descri flat, location, transverse, lo onv, hemi, we	front, mid ngitudinal	rear,	•		
			90 deg. V, Front, Longitudinal		
Manufacturer			C-P-C Group - G.M. Corporation		
No. of cylinde	15		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 bick mati & mass kg(lbs.)(machined)		lbs.)(machined)	Cast Iron, 68.674 (151.5)		
Cylinder block	k deck hei	ght	229.4 mm (9.025 in.)		
Cylinder block	k length		506.2 mm (19.93 in.)		
Deck clearant (above or belo		m)	.025 Below		
Cyl. head mat	erial & ma	ss kg (lbs.)	Cast iron, 19.800 (43.7)		
Cylinder head	l volume (d	u. cm.)	55.9		
Cylinder liner	material		Not Applicable -		
Head gasket 1 (compressed)			1.245 mm (.049 in.)		
Minimum com total volume (i		namber	75.47 Combustion Chamber With Piston At Top Dead Center And All Components in Place Torqued To Specifications.		
Cyl. no. syste		L. Bank	1-3-5-7		
(front to rear)		R. Bank	2-4-6-8		
Firing order			1-8-4-3-6-5-7-2		
Intake manifo	id mati & r	nass[kg(lbs.)]**	Cast Aluminum, 6.117 (13.5)		
Exh. manifold	mati & mi	ss (kg (lbs.)]**	Iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)		
Fuel required	uniesded,	diesel, etc.	Unleaded		
Fuelantiknoc	k index (A	+ M) / 2	91		
	Quantit	y	2		
Engine mounts		d type (elastomeric, astic, hydraulic , etc.)	Elastomeric		
		solation (sub-frame, ember, etc.)	Crossmember Mounted		

## Engine - Pistons

Total dressed engine mass (wt) dry

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

252.8 kg (557 lbs.)

### **Engine Camshaft**

Engine	Camsnan	الله الكان الكان الكان الكان الكان الأن يها البين البين النبي أنه يأسي المراجع البين البين المراجع المراجع بين المراجع الم
Location		In Cylinder Block "V" Above Crankshaft
Material & F	uss kg (weight, lbs.)	
		Steel, 4.200 (9.3)
Drive	Chain/belt	Chain
type	Width/pitch	15.976 x 12.7 mm (.625 x .5 in.)

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

METRIC (U.S. Customary)

**Engine Description Engine Code** 

5.7 LITER V6 (350 CID) MULTI-PORT FUEL INJECTION RPO LTS

lat, location,	iption (inline, V, angle, front, mid, rear, ingitudinal, sohc, dohc, edge, pre-chamber, stc.)	
		90 deg. V, Front, Longitudinal
Aanufacturei	-	C-P-C Group - G.M. Corporation
lo. of cylind		8
Bore		99mm (3.90 in.)
troke		93mm (3.66 in.)
	(C/L to C/L)	111.8mm (4.40 in.)
	& mass kg(lbs.)(machined)	Aluminum Alloy
	ck deck height	229.24mm (9.03 in.)
Cylinder blo		506.2mm (19.93 in.)
Deck clearan above or be	ice (minimum) low block)	
Cyl. head mi	aterial & mass kg (lbs.)	Aluminum Alloy, 34.01 (75)
Cylinder hea	ld volume (cu. cm.)	Not Available
Cylinder line	r material	Forged Aluminum Extrusion
Head gasket (compressed		
Minimum co total volume	m bustion chamber (cm. cu.)	40cc (2.44 cu. in.)
Cyl. no. sysi	tem L. Bank	1-3-5-7
(front to rea	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
	fold mati & mass[kg(lbs.]]**	Cast Aluminum
	ild mati & mass [kg (lbs.)]**	Stainless Steel, 14.97 (33)
	d unleaded, diesel, etc.	Unleaded
	ock index (R + M) / 2	91
910010000	Quantity	2
Engine mounts	Mati and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Hydraulic
	Added isolation (sub-frame, crossmember, etc.)	
	ed engine mass (wt) dry***	270.5 kg. (596 ibs.)

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

Engine	Camsnan	
Location		In Cylinder Head Above Valves
Material & I	mass kg (weight, Ibs.)	9.07 (20) Induction Hardened Cast Iron
Drive	Chain/bett	Chain
type	Width Initch	

[&]quot;Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine.
"Finished state.
""Oressed engine mass (weight) includes the following:

RAV/RA A	Specifica	atione	Venicle Line	CORV	EIIE				
IAI A IAIW	Specifice	1110113	Model Year	1990	Issued	6-89	Revised(*)		
METRIC (	J.S. Customa	ary)							
Engine Desc Engine Code	ription		5.7 LITER V8 (350 MULTI-PORT FUEL		N RPO L9	3			
Engine - \	/alve System	n							
Hydraulic lifters			Standard						
	Number intake/ex	xhaust	8/8						
Valves	Head O.D. intake	/exhaust	49.28 mm (1.94 in.) /	38.10 mm	(1.50 in.)				
Engine - C	Connecting F	Rods							
Material & mass	[kg., (weight, lbs.)]*		Steel, .388 (.85)						
Length(axes cen	terline to centerline)	)	144.78 mm (5.79 in.)						
Engine - (	Crankshaft_								
Material & mass	[kg., (weight, lbs.)]°		Nodular Cast Iron, 2	3.360 (51.5	0) .				
End thrust taker	by bearing (no.)		5						
Length & numbe	r of main bearings		5						
Seaf (material, or		Front	Fluroelastomer / One	Piece, Lip	Seal				
piece design, etc	-) 	Rear	Fluroelastomer / One	Piece, Lip	Seal				
Engine ~ l	ubrication S	System							
Normal oil press	ure(kPa(psi) @ eng n	pm]	41 (6) @ 1000/124 (1	18) @ 2000,	/165 (24) @	4000 (Hot	)		
Type oil intake (1	loating, stationary)		Stationary						
Oil filter sys. (fu	l flow,part, other)		Full Flow						
Capacity of c/ca fitter-refill-£ (q	se,less L)		3.8 (4.0)						
Engine - I	Diesel Inform	nation	(NOT APPLICABLE	)					
Diesel engine ma	nufacturer								
Glow plug, curre	nt drain at 0 deg. F								
Injector Nozzie	Туре								
	Opening pressure	e[kPa(psi)]	<u> </u>						
Pre-chamber de	sign		<u> </u>						
Fuel in- jection pump	Manufacturer		<u> </u>						
Jecon bamb	Туре		<u> </u>						·
Fuel inj, pump di	ive (belt,chain,gear	)	<u> </u>						
Supplementary	acuum source (type	)	<u> </u>				·		
Fuel heater (yes	/no)		<u> </u>						
Water separator (std., opt.)	, description								
Turbo manufacti	irer								
Oil cooler-type ( oil to ambient air	oil to engine contant )	t;							
Oil filter						_		<del></del>	
Engine - l	ntake Syster	m	(NOT APPLICABLE	)					
Turbo charger -									
Super charger -	manufacturer								
Intercooler									

^{*}Finished State

Vehicle Line	CORV	ETTE_			
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 LTS

ydraulic lifters (s	std., opt., NA)		Standard	
	Number intake/e	khaust	16/16	
alves	Head O.D. intake	/exhaust	39mm (1.54 in.) / 35.2mm (1.39 in.)	
ngine - C	onnecting F	Rods		
	kg., (weight, lbs.)]*			<del></del>
ength(axes cent	erline to centerline	)	145.8 mm (5.74 in.)	
Engine – C	rankshaft kg., (weight, lbs.)	· · · · · · · · · · · · · · · · · · ·	Nitrided Forged Steel, 24.94 (55)	
nd thrust taken			5	
		<del></del>	5	
Length & number of main bearings  Seal (material, one, two piece design, etc.)  Rear		T	Fluroelastomer / One Piece Lip Seal	
		I Front	Flutoelastomer / One Flede up 36a	
piece design, etc	<u>-)</u>	Rear	Fluroelastomer / One Piece Lip Seal	
Engine - L	ubrication	Rear		
Engine — L Normal oil pressu	_ubrication (	Rear System	Fluroelastomer / One Piece Lip Seal	
Engine - L Normel oil pressu Type oil intake (f	ubrication ure(kPa(psi) • eng	Rear System	Fluroelastomer / One Piece Lip Seal 345-450 (50-60) @ 2000	
Engine - L Normel oil pressu Type oil intake (f	ubrication ure(kPa(psi) @ engiloating, stationary) If flow,part, other)	Rear System	Fluroelastomer / One Piece Lip Seal  345-450 (50-60) @ 2000  Stationary	
Engine — L Normal oil pressu Type oil intake (fi Oil filter sys. (full Capacity of c/ca	ubrication ure(kPa(psi) @ engiloating, stationary) If flow,part, other)	Rear System	Fluroelastomer / One Piece Lip Seal  345–450 (50–60) @ 2000  Stationary Full Flow	
Engine — L Normal oil pressu Type oil intake (fi Oil titter eye. (full Capacity of c/ca fitter-refill—L (qt Engine — L Diesel engine ma	Librication  ure[kPa(psi)  eng. loating, stationary) liflow,part, other) se,less L)  Diesel informanufacturer	Rear System rpm)	Fluroelastomer / One Piece Lip Seal  345-450 (50-60) @ 2000  Stationary Full Flow  8.55 (9)	
Engine — L Normal oil pressu Type oil intake (fi Oil titter eye. (full Capacity of c/ca fitter-refill—L (qt Engine — L Diesel engine ma	Librication (ure(kPa(psi) @ eng. loating, stationary) if flow,part, other) se,less	Rear System rpm)	Fluroelastomer / One Piece Lip Seal  345-450 (50-60) @ 2000  Stationary Full Flow  8.55 (9)	
Engine — L Normal oil pressu Type oil intake (fi Capacity of c/ca filter-refill—L (qt Engine — L Diesel engine ma Glow plug, curre	ubrication  ure[kPa(psi)  eng. loating, stationary] Iflow,part, other) se,less L)  Diesel Informaturar anufacturar ent drain at 0 deg. F	Rear System  Tom  mation	Fluroelastomer / One Piece Lip Seal  345-450 (50-60) @ 2000  Stationary Full Flow  8.55 (9)	
Engine — L Normal oil pressu Type oil intake (fi Capacity of c/ca filter-refill—L (qt Engine — I Diesel engine ma Glow plug, curre	ubrication sure[kPa(psi) @ eng. loating, stationary] liflow,part, other) se,less L) Diesel informaturar anufacturar ant drain at 0 deg. F	Rear System  Tom  mation	Fluroelastomer / One Piece Lip Seal  345-450 (50-60) @ 2000  Stationary Full Flow  8.55 (9)	
Engine — L Normal oil pressu Type oil intake (fi Capacity of c/ca filter-refill—L (qt Engine — L Diesel engine ma Glow plug, curre	Librication  ure(kPa(psi)  eng. loating, stationary) liflow,part, other) se,less L)  Diesel Informanufacturer ent drain at 0 deg. F  Type Opening pressu	Rear System  Tom  mation	Fluroelastomer / One Piece Lip Seal  345-450 (50-60) @ 2000  Stationary Full Flow  8.55 (9)	
Engine — L Normal oil pressu Type oil intake (fi Oil fitter sys. (full Capacity of c/ca fitter-refill—L (qt Engine — I Diesel engine ma Glow plug, curre Injector Nozzie	Librication  ure(kPa(psi)  eng. loating, stationary) liflow,part, other) se,less L)  Diesel Informanufacturer ent drain at 0 deg. F  Type Opening pressu	Rear System  Tom  mation	Fluroelastomer / One Piece Lip Seal  345-450 (50-60) @ 2000  Stationary Full Flow  8.55 (9)	

Nozzie	Opening pressure(kPa(psi))	
Pre-chamber des	sign	
Fuel in-	Manufacturer	
jection pump	Туре	
Fuelinj, pump dri	ve (belt,chain,gear)	
Supplementary vi	ecuum source (type)	
Fuel heater (yes/	no)	
Water separator, description (std., opt.)		
Turbo manufactu	rer -	
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

Vehicle Line	COR	VETTE			
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

Coolant recove	ry system (std, opt, n.a.)	Standard		
	ation (rad., bottle)	Bottle, Coolant Recovery		
tadiator cap re	lief valve pressure			
kPa (psi))	·	124.1 (18.0)		
	Type (choke, bypass)	Choke		
Circulation hermostat	Starts to open @ deg's C(F)	90.6 (195)		
	Type (centrifugal, other)	Centrifugal		
	GPM 1000 ритр грт	13		
	Number of pumps	1		
/ater ump	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)*		
	Bearing type	Sealed Double Row Bali		
	Impeller material	Steel		
	Housing material	Cast Aluminum		
	ulation (type (inter.,			
xt.)]	- Light (man)	Internal		
	With heater - L (qt.)			
coting ystem	With air conditioner-L(qt.)	Manual 13.86 (14.65), Automatic 13.73 (14.51)		
apacity	Opt. equip.(specify-L(qt.))			
Vater lackets	full length of cyl(yes,no)	Yes		
	nd cylinder (yes, no)	Yes		
	open at head face (yes,no)	No		
	Std., A/C, HD	A/C, Standard		
	Type (cross-flow, etc.)	Cross-Flow		
	Construction (fin & tube			
	mechanical, braze, etc.)	Fin & Tube		
tadiator ore	Mati., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks		
	Wigth	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 t	tank material	Plastic		
	Stg., elec., opt.	Electric, Standard		
	Number of blades & type	5-Blades, High Efficiency Curved Blades And		
	(flex, solid, material)	Ring Shroud, Plastic		
	Diameter & projected width	423.0 mm (16.7 in.)		
_	Ratio(fan to crnkshft.rev.)			
Fan	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.

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

Vehicle Line	CORVETTE				
Modei 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 LTS

colant recove	ry system (std. opt, n.e.)	Standard		
Coolant fill location (rad., bottle) Radiator cap relief valve pressure kPa (psi))		Bottle, Coolant Recovery		
		117.2 (17.0)		
	Type (choke, bypass)	Choke		
irculation sermostat	Starts to open @ deg's C(F)	83.7 (180)		
	Type (centrifugal, other)	Centrifugal		
	GPM 1000 ритр грт	12		
	Number of pumps	1		
ater ump	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)		
•	Bearing type	Sealed Double Row Ball		
	Impelier material	Steel		
	Housing material	Cast Aluminum		
	culation (type (inter.,			
xt.)]		Internal		
	With heater - L (qL)	Not Applicable		
cooling system	With air conditioner-L(qt.)	15.81 (16.7)		
apacity	Opt. equip.(specify-L(qt.))	Not Applicable		
Managingkata	full length of cyl(yes,no)	Yes		
	nd cylinder (yes, no)	Yes		
	open at head face (yes,no)	Yes		
PARIE JACKOL	Std., A/C, HD	A/C Standard		
	Type (cross-flow, etc.)	Cross-Flow		
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube		
Radiator	Mati., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks		
core	Width			
	Height Thickness	34 (1.34)		
	Fins per inch			
		Plastic		
Radiator end	tank material	Electric, Standard		
	Std., elec., opt.	5 Blades High Efficiency Curved Blades And		
	Number of blades & type (flex, solid, material)	Ring Shroud Plastic		
		299mm (11.77 in.)		
	Diameter & projected width	Not Applicable		
Fan	Ratio(fan to crnkshft.rev.)	Temp Switch		
	Fan cutout type	Electric		
	Drive type (direct, remote)	2100		
	RPM at idle (elec.)	(150)		
	Motor rating(wattage)(elec)  Motor switch (type & location) (elec.)	Temp Switch		
	Switch point (temp., pressure) (elec.)	106 deg. C.		
	Fan shroud (material)	Plastic Ring Shroud		

Vehicle Line	COR	VETTE				
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 L98

uretor, fuel				
~	TPI - Tuned Port Fuel Injection			
	AC/Rochester Products			
rreis	None			
	Preset - No Adjustment Provided			
Point of ini. (no.)	Fuel Injectors At Inlet Ports			
	Pulse			
	Electronic - On Board Computer			
	None			
Mariosi				
Automatic				
it control (exhaust tic or fixed)	Water, Thermostat			
	Replaceable Paper Element			
	Frame Mounted			
ation)				
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))				
	1 (40.0)			
alions))	75.7 (20.0)			
<u> </u>	Under Rear Deck			
	Rests On Rear Frame Extension, Held With Straps			
g (weight lbs.)]	Super Terne Coated Steel With High Density Polyethylene Liner (*)			
Location & meterial	Center Of Rear Deck			
Connection to tank	Botted With Gasket On Top Of Tank			
	Super Terne Coated Steel			
ın	Viton			
	Super Terne Coated Steel			
ai)				
al)	Super Terne Coated Steel			
10)	Super Terme Coated Steel			
Opt., n.e.	Super Terne Coated Steel  Not Applicable			
Opt., n.e. Capacity [L (gallons)]	Super Terne Coated Steel  Not Applicable			
Opt., n.e. Capacity (L (gallons)) Location & material	Super Terne Coated Steel  Not Applicable			
Opt., n.e. Capacity [L (gallons)] Location & material Attachment	Super Terne Coated Steel  Not Applicable  """  """  """  """  """  """  """			
Opt., n.e. Capacity [L (gallons)] Location & material Attachment Opt., n.e.	Super Terne Coated Steel  Not Applicable  """  """  """  """  """  """  """			
Opt., n.e. Capacity [L (gallons)] Location & material Attachment Opt., n.e. Capacity [L (gallons)]	Super Terne Coated Steel  Not Applicable  Not Applicable  Not Applicable			
Opt., n.e. Capacity [L (gallons)] Location & material Attachment Opt., n.e. Capacity [L (gallons)] Location & material	Super Terne Coated Steel  Not Applicable  Not Applicable  Not Applicable  """  Not Applicable  """			
	Type (elec. or mech.)  Location (eng., tank)  Press. range [kPa(psi)]  Flow tregulated pressure (L (pal)/hr @ kPa (psi))  alions]]			

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

Vehicle Line	COR	VETTE				
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 LTS

duction type: carb ejection system, et	ouretor, fuel C.	TPI - Tuned Port Fuel Injection				
		AC/Rochester Products				
lanufacturer		None				
arburetor no. of b	arrets	Preset - No Adjustment Provided				
lle A/F mix.		Fuel Injectors At Inlet Ports				
	Point of inj. (no.)	Pulse				
ivel njection	Constant, pulse, flow	Electronic - On Board Computer				
•	Control (elec., mech.)	Not Applicable				
	Sys. press. [kPa (psi)]					
ile spdrpm	Manual	None				
pec. neutral r drive and						
ropane if sed)	Automatic					
100,						
ntake manifold he ir water thermosti	at control (exhaust atic or fixed)	Water, Thermostat				
Lir cleaner type		Replaceable Paper Element				
uel filter (type/loc	eation)	Frame Mounted				
Ser man (type not	Type (elec. or mech.)	Electric - Dual Turbine				
	Location (eng., tank)	In Fuel Tank				
ue!	Press. range [kPa(psi)]					
оимр	Flow rate at regulated pressure (L (pal)/hr @ kPa (psi))					
Fuel Tank	osilons li	75.7 (20.0)				
Location (describe		Under Rear Deck				
Attachment		Rests On Rear Frame Extension, Held With Straps				
Material & Mass (I	a (weight the II)	Super Terne Coated Steel With High Density Polyethylene Liner (*)				
Filler	Location & material	Center Of Rear Deck				
pipe pipe	Connection to tank	Bolted With Gasket On Top Of Tank				
Fuel line (material)		Super Terne Coated Steel				
		Viton				
Fuel hose (materia		Super Terne Coated Steel				
Return line (mater	<del></del>	Super Terne Costed Steel				
Vapor line (materi	Opt., n.a.	Not Applicable				
Extended	Capacity [L (gations)] **	*				
range tank	Location & material	•				
	Attachment					
	Opt., n.a.	Not Applicable				
	Capacity (L (gallens))					
A	Location & material	,				
Auxiliary tank						
	Attachment					
	Sictr switch or valve					

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

Separate fill

Vehicle Line	CORV	ETTE				
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 L98

# Vehicle Emission Control

	Type (air injections, modifications,	tion, engin , other)	•	Air Injection W/Computer Command Control			
		Pump or	pulse	Vane			
		Driven t	у	Serpentine - Single Belt Poly V' Drive			
	Air injection	Air distr (head, m etc.,)	ibution senifold,	Exhaust Manifold And Converter (CCC Controlled)			
		Point of	entry	Exhaust Manifold Ports			
i	Exhaust Gas	Type (cz flow, ap orifice,	ontrolled	Controlled Flow			
	Recircu- lation	Exhaus	t source	Inlet Manifold Exhaust Cross-Over Passage #			
xhaust mission longroj		(spacer.	exh.inj. carb., d, other)	Center Of Inlet Manifold Plenum			
		Туре		Dual-Bed			
	Ì	Number	ref	2 Front And 1 Rear			
		Locatio	n(s)	Front - 1 On Each Exhaust Pipe Rear - Underbody Tunnel Below Console			
	Catalytic Converter	Volume	(L(cu.in))	2.7822 (169.8)			
	Comounts	Substra		Monolith			
		Noble	netal type	Platinum (Pt), Palladium (Pd), Rhodium (Rh)			
		Noble r concen (p/cu. c	tration	0.000451 (FRT), 0.001007 (RR)			
	Type (ventilat atmosphere, system, other	induction		Induction System			
Crankcase Mission Control	Energy source vacuum, carb	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum			
	Discharges ( manifold, oth	Discharges (to intake manifold, other		Inlet Manifold			
	Air init(breat)	Air init(breather cap, other)		Air Cleaner			
Evapora-	Vapor vente	to to	Fuel tank	Canister			
ive Emission	crankcase, canister, other	er)	Carburetor	-			
Control	Vapor storag	e provisio	n	Canister			
Electron-	Closed loop	(yes/no)		Yes			
ic System	Open loop (yes/no)			No			

### Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Dual
Muffier no. & type (reverse flow, straight thru, separate resonator) Material & Mass (sp (weight ibs.))		Reverse Flow (Stainless Steel Body,     Aluminum Coated Steel Inlet And Outlets)
Resonator no. & type		None
	Branch o.d., wall thickness	Outer Pipe 63.5x.96mm (2.50x.038in.), Inner Pipe 57.0x.96mm (2.25x.038in.)
Exhaust pipe	Main o.d., wall thickness	76.2 x 1.83 mm (3.0 x .072 in.)
•	Mati. & Mass [kg(wght.lbs.)]	Stainless Steel Tubing (*)
Inter-	p.d. & wall thickness	57.15 x 1.83 mm (2.25 x .072 in.)
mediate Pipe	Matt. & Mass [kg(wght.lbs.]]	Aluminized Stainless Steel
Tail	o.d. & wall thickness	Dual Outlets - 57.15 x 1.83mm (2.25 x .072 in.)
pipe	Mati. & 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)

Vehicle Line	COR	VETTE				_
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

	Type (air inject	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
		Pump or i	putse	Vane
		Driven by	y	Electric
	Air injection	Air distri (head, mi etc.,)		Exhaust Manifold (CCC Controlled)
		Point of	ntry	Exhaust Manifold
	Exhaust Gas	Type (cor flow, ope orifice, o	₽Ñ	Not Available
xhaust mission	Recircu- lation	Exhaust Point of	exh.inj.	
ontol		(spacer, manifold	carb., i, other)	Not Available
		Туре	·	3 Way
		Number	of	2
	Catalytic Converter	Location	n(s)	Exhaust Manifold (Close Coupled)
		Volume	(L(cu.in))	2.0545 (125.37) Each
		Substrat	te type	Monolith
		Noble m	etal type	Platinum (Pt), Rhodium (Rh)
		Noble m concent (g/cu. cr	ration	0.001844 Each
	Type (ventilates to atmosphere, induction system, other)			Induction System
Crankcase mission Control	Energy source (manifold vacuum, carburetor, other)		i Her)	Manifold Vacuum
Evapora- tive Emission Control	Discharges (to intake manifold, other			Intake Plenum
	Air init(breather cap, other)		ner)	Air Cleaner
	Vapor venter	i to	Fuel tank	Canister
	crankcase, canister,other) Carbo		Carburetor	
	Vapor storag	e provision	1	Canister
iectron-	n- Closed loop (yes/no)			Yes
ic System	Open loop (yes/no)			No

## Engine - Exhaust System

Type (single, single with cross-over, dual, other)  Muttier no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.))  Resonator no. & type		- Dual		
		2, Reverse Flow		
		2		
	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.)		
Exhaust pipe	Main o.d., wall thickness	Not Available		
	Mati. & Mass [kg(wght.lbs.)]	Aluminized Stainless Steel/RH810 (1.786); LH 1.215 (2.679)		
nter-	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.)		
mediate pipe	Mati. & Mass [kg(wght.ibs.)]	Aluminized Stainless Steel/RH - 2.136 (4.709); LH - 2.136 (4.709)		
Tail prpe	p.d. & wail thickness	RH & LH Outer - 69.85 x 1.37 (2.75 x .05 in.); *		
	Mati. & Mass (kg(woht.lbs.))	Aluminized Stainless Steel/RH & LH Outer .700 (1.544); **		
		(and the second		

^{*} RH & LH inner - 69.85 x 1.37 mm (2.75 x .05 in.)

^{**} RH & LH inner - .652 (1.437)

Vehicle Line	COR	/ETTE			
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/Transaxie (Std.,	Opt., N.A.)
Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-speed (manufacturer/country)	
Manual S-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 1st 2.68

Gear	1st	2.68
	2nd	1.80
	3rd	1,29
ratios	4th	1.00
	5th	.75
	6th	.50 Rev. 2.50
Synchronou	s meshing (specify gears)	Ali
Shift lever k	ocation	Rear - Trans MTD.
Trans. case	mat'i. & mass kg (lbs)*	Aluminum 69.0
Lubricant	Capacity [L (pt.)]	21 (.987)
	Type recommended	SW-30 Texaco
	1	

### Clutch (Manual Transmission)

Clutch manufacturer			Valeo Clutches & Transmissions
Clutch type (dry, wet; single, multiple disc)			280mm Pull Type - Dry Clutch
Linkage (hy	/d., cable, rod, lever,other)		Hydraulic Pre-Filled
	effort (nom.	Depressed	178 (40)
spring load	, new) Ñ (ibs.)	Released	133 (30)
Assist (spri	ng, power/percent, nomina	in	None
Type pressure plate springs			Diaphragm
Total spring load (nominal, new) N(lbs)			11,250 (2,529)
	Facing mfgr. & matt. 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.)
Clutch	Total eff.area[sq cm(sq in)]		361.3 (56)
facing	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)

 $[\]ensuremath{^{\circ}}$  includes shift linkage, lubricant, and clutch housing. If other specify,

Vehicle Line	COR	VETTE			
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 LT5

Transmis	sions	Transaxle	(Std	Opt	N.A.)
11414311113	3.0.0	CIGHIOGALO		0	4400.401

Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-apsed (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/Transaxie

1st   2.68	Number of 1	forward speeds	6
State		1st	2.68
### ### ##############################		2nd	1.80
4th		3rd	129,
eth .50 Rev. 2.50  Synchronous meshing (specify gears) All  Shift lever location Rear - Trans MTD.  Trans, case mat'l. & mass kg (libs)* Aluminum 89.0  Capacity [L (pt.]] 21 (.987)	ranos	4th	1.00
Synchronous meshing (specify gears)  All  Shift lever location  Trans, case mat'l. & mass kg (lbs)*  Capacity [L (pt.]]  All  All  All  All  All  All  All		5th	.75
Shift lever location Rear - Trans MTD.  Trans, case mat'l. & mass kg (lbs)" Ajurninum 69.0  Capacity [L (pt.]] 21 (.987)		6th	.50 Rev. 2.50
Trans, case met'l. & mass kg (lbs)* Aluminum 69.0  Lubricant 21 (.987)	Synchronou	us meshing (specify gears)	All
Lubricant Capacity [L (pt.]) 21 (.987)	Shift lever l	ocation	Rear - Trans MTD.
Lubricant	Trans, case	mat'i. & mass kg (ibs)*	Aluminum 69.0
Type recommended SW-30 Texaco	Lubricant	Capacity [L (pt.)]	21 (.987)
		Type recommended	SW-30 Texaco
		1	
		ļ	1

## Clutch (Manual Transmission)

Ckrtch man	ufacturer		Valso Clutches & Transmissions
Clutch typi disc)	e (dry, wet; single, multiple		280mm Pull Type - Dry Clutch
Linkage (h)	rd., cable, rod, lever,other)		Hydraulic Pre-Filled
	effort (nom.	Depressed	178 (40)
spring load	, new) Ñ (lbs.)	Released	133 (30)
Assist (spri	ng, power/percent, nomina	ŋ	None
Type press	ure plate springs		Diaphragm
Total spring	load (nominal, new) N(lbs)		11,250 (2,529)
	Facing mfgr. & matl. coding		Valeo F-202
Clutch	Facing matt. & constru	ction	Non-Asbestos Woven
	Rivets per facing		9
	Outside x inside dia. (r	iom.)	280 x 180mm (11.02 x 7.09 in.)
	Total off-area(sq cm(s	in))	361.3 (56)
facing	Thickness (pressure p side/fly wheel side)	late	3.3/3.3mm (.130/.130) in.)
	Rivet depth (pressure side/fly wheel side)	plate	1.0mm (.039 in.)
	Engagement cushion method		Cushion Springs
Refease be	aring 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.

<b>MVMA</b>	<b>Specifications</b>
-------------	-----------------------

Vehicle Line	CORV	ETTE			
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

Trade Name		4-Speed Automatic (Overdrive 4th Gear)	
ype and specia	l features (describe)	Torque Converter With Planetary Gears	
	Location (column, floor, other)	On Floor Console	
lear elector	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1	
	Shift interlock (yes, no, describe)		
	1st	3.06	
	2nd	1.63 @	
Gear atios	3rd	1.00 @	
	4th	0.70 @	
	Reverse	2.29	
Max. upshift sp km/h (mph)]	eed - drive range	1-2 = 43, 2-3 = 79, 3-4 = 116 (At Wide Open Throttle)	
Max. kickdown (km/h (mph)]	speed – drive range	4-3 = 105, 3-2 = 72, 2-1 - 35	
Min. overdrive :	speed (km/h (mph)]	38	
<u> </u>	Number of elements	3	
Torque converter	Max. ratio at stall	1.85	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	298 (11.75)	
	Capacity factor "K"		
	Capacity (refill L(pt.))	3.8 (6.0)	
Lubricant	Type recommended	Dexron II	
Oil cooler (std. external, air, lic	, opt., N.A., internal, quid)	Standard, External, Liquid	
Trans, mass ik	g(ibs)] & case mati.**	Aluminum	
	- 1 1	@ - Computer Controlled Torque Converter Clutch 2nd, 3rd, And 4th Gears.	
All Wheel / 4 Wheel Drive		(NOT APPLICABLE)	
Dags & brook	part-time, full-time, moving, mech., elect.,		
	Manufacturer and model		
Transfer case	Type and location		
Low-range ge	ar ratio		
	nnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)		
Att s & att mer	Torque split(% frt/rear)		

^{*}Input speed / square root of torque.

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

<b>MVMA</b>	Specification	าร
-------------	---------------	----

Vehicle Line	CORV	ETTE			
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 LTS
Automatic Transmission/Transaxie	(NOT APPPLICABLE)
Trade Name	

Trade Name		
Type and special	features (describe)	
	Location (column, floor, other)	
Gear selector	Ltr./No. designation (e.g. PRND21)	
	Shift interlock (yes, no, describe)	
	1st	
_	2nd	
Gear ratios	3rd	
	4th	
	Reverge	
Max. upshift spe [km/h (mph)]	ed - drive range	
Max. kickdown s [km/h (mph)]	peed – drive range	
Min. overdrive s	psed [km/h (mph]]	
	Number of elements	
Torque converter	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
	Capacity factor "K"	
	Capacity (refill L(pt.)]	
Lubricant	Type recommended	
Oil cooler (std., c external, air, liqu	opt., N.A., internal, iid)	
Trans. mass [kg(	lbs)) & case mati.**	
All Wheel	/ 4 Wheel Drive	(NOT APPLICABLE)
Desc. & type (pa	urt-time, full-time, noving, mech., elect.,	
	Manufacturer and model	
Transfer		

o All Wheel	/ 4 Wheel Drive	(NOT APPLICABLE)	
Desc. & type (pa 2/4 shift while a chain/gear, etc.)	irt-time, full-time, noving, mech., elect.,		
Transfer	Manufacturer and model		
case	Type and location		
Low-range gear	ratio		
System disconn	ect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous blas, torsen, etc.)		
	Torque split(% frt/rear)		

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

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 L98

a Aula Batia an	d Tooth Combinations	AUTOMATIC - MD8			eJM - JAUNAM
		2.59	2.73	3.07	3.33 (1.66)
Axle ratio (or overall 1	top gear fatto;	200 (7.875)			215.9 (8.5)
Ring gear o.d.		17	15	14	12
No. of Pinio		44	41	43	40

o Rear Axle Unit

Description		Overhung Pinion Gear	
	ifferential (type)	Disc Clutches	
	Туре	Hypoid	
Drive pinion	Offset	38.1 (1.50)	
No. of differe		2	
Pinion/	Adjustment (shim, etc.)	Shim	
differential	Bearing adjustment	Shim	
Driving whee	I bearing (type)	Tapered Roller	
	Capacity (L (pt.))	1.8 (3.75)	
Lubricant	Type recommended	GL-5 Gear Lubricant EOW-90	
	<del></del>	-	

o Propeller Shaft - Rear Wheel Drive

⊺ype (straigh nterna⊢exte	t tube, tube-in- mai damper, eti			Straight Tube, Internal-Extern	nal Damper			
	Manual 3-sp	eed transmission		Not Available				
luter iam. x	Manual 4-sp	eed transmission		Not Available				
ength" x vali	Manual 5-sp	eed transmission		Not Available				
hickness	Overdrive							
	Automatic tr	ansmission	**	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		
nter-	Type (plain,	enti-friction)		None				
nediate searing	Lub. (fitting,	prepack)						
	Туре			Splined				
Slip Yoke	Number of t	eeth		Manual Trans 32 Automatic Trans 26				
	Spline o.d.		·	Manual Trans 34.95mm (1.	38 in.) Automatic Trans 29.7mm	(1.17 m.)		
			Front	#1311				
	Make and m	tg. no.	Rear	#1318		· · · · · · · · · · · · · · · · · · ·		
	Number use	d		2				
Universal	Type (ball as cross)	nd trunnion,		Cross				
joints	Rr. attach(u	-bolt,clamp,stc)		Strap And Bolt				
		Type (plain, anti-friction)		Anti-Friction				
	Bearing	Lubrication (fitting, prepack)		Prepacked				
Drive taken arms or spri	through (torque	tube,		Driveline Beam				
Torque take arms or spri	n through (torq ngs)	ue tube,		Torque Control Arms				

^{*} Centerline to centerline of universal joints, or to centerline of attachment.

^{** -} Aluminum

	- 121	Vehicle Li	e COR	VETTE			
MVMA Spe	citications	Modei Ye	r 1990	Issued	6-89	Revised(*)	
METRIC (U.S. C	Customary)						
		5.7 LITER V	(350 CID)				
Engine Description			FUEL INJECT	ON RPO LT	5		
Engine Code			_				
Axle Ratio and	Tooth Combina		Teams' for axid	rauo usage)			
Axle ratio (or overall top	gear ratio)	3.45:1 (1.72)				-	
Ring gear o.d.		216 (8.5)					
No. of Pinion		38					
Ring ger	<u>er</u>	30					
Rear Axle Unit							
		Overhung Pini	on Gear				
Description	/tume)	Disc Clutches					
Limited slip differential	Туре	Hypoid					
Drive pinion 💆	Offset	38.1 (1,50)					
No. of differential pinion		2					
	Adjustment (shim, etc.)	Shim					
differential	Bearing adjustment	Shim					
Driving wheel bearing (		Tapered Rolle	r				
	ty [L (pt.)]	1.8 (3.75)					<del></del>
Lubricant Type re	commended	GL-5 Gear Lu	bricant EOW	-90			
		1					
Describer Share	t - Dear Wheel	Drive				_	
Manufacturer Type (straight tube, tu)	t - Rear Wheel	Drive Straight Tube					
Manufacturer Type (straight tube, tul internal-external damp	be-in-tube, er, etc.)	_	9				
Manufacturer Type (straight tube, ful internal-external damp  Manua  Outer	be-in-tube, er, etc.) II 3-speed transmission	Straight Tube	В				
Manufacturer Type (straight tube, tul internal-external damp Outer Outer diam. x length' x	be-in-tube, ier, etc.) il 3-speed transmission il 4-speed transmission	Straight Tube	9				
Manufacturer Type (straight tube, ful internal-external damp  Outer diam x length x	be-in-tube, ler, etc.) Il 3-speed transmission Il 4-speed transmission Il 5-speed transmission	Straight Tube Not Applicable	9 2.41 (3.0 x 31	.69 x .095) A	uminum		
Manufacturer Type (straight tube, tul internal-external damp Outer diam. x length x wall thickness Overdi	be-in-tube, ler, etc.) Il 3-speed transmission Il 4-speed transmission Il 5-speed transmission	Straight Tube Not Applicable	2.41 (3.0 x 31	.69 x .095) A	luminum		
Manufacturer Type (straight tube, tul internal-external damp  Outer diam. x length' x wall thickness Overdi Autom	be-in-tube, ler, etc.) II 3-speed transmission II 4-speed transmission II 5-speed transmission	Straight Tube Not Applicab " " 3-Speed 76.2 x 804.9	2.41 (3.0 x 31	.69 x .095) A	luminum		
Manufacturer Type (straight tube, tul internal-external damp  Outer diam. x length x wall thickness  Overdi  Autom  Inter- mediate	be-in-tube, ler, etc.)  Il 3-speed transmission  Il 5-speed transmission rive 6  actic transmission	Straight Tube Not Applicab " " " " " " " " " " " " " " " " " " "	2.41 (3.0 x 31	.69 x .095) A	luminum		
Manufacturer Type (straight tube, tul internal-external damp  Outer diam. x length x wall thickness Overdi Autom  Inter- mediate	be-in-tube, per, etc.)  13-speed transmission  14-speed transmission  15-speed transmission  rive  6  atic transmission  plain, anti-friction)	Straight Tube Not Applicab " " " " " " " " " " " " " " " " " " "	2.41 (3.0 x 31	.69 x .095) A	luminum		
Manufacturer Type (straight tube, tul internal-external damp  Outer diam. x length' x wall thickness Overdi Autom  Inter- mediate bearing Lub. (f  Slip	be-in-tube, per, etc.)  13-speed transmission  14-speed transmission  15-speed transmission  rive  6  atic transmission  plain, anti-friction)	Straight Tube Not Applicab "	2.41 (3.0 x 31	.69 x .095) A	luminum		
Manufacturer Type (straight tube, tul internal-external damp  Outer diam. x length x wall thickness Overdi Autom  Inter- mediate bearing Lub. (f  Slip	be-in-tube, ler, etc.) il 3-speed transmission il 5-speed transmission rive latic transmission plain, anti-friction) litting, prepack)	Straight Tube Not Applicab " "- S-Speed 76.2 x 804.9 Not Applicab None Splined	( 2.41 (3.0 x 31 e	.69 x .095) A	luminum		
Manufacturer Type (straight tube, tui internal-external damp Outer diam. x length' x wall thickness Overdi Autom Inter- mediate boaring Lub. (f Slip yoke Numb-	be-in-tube, ler, etc.)  Il 3-speed transmission  Il 5-speed transmission  Il 5-speed transmission  rive 6 latic transmission  plain, anti-friction)  litting, prepack)  er of teeth  s.d.	Straight Tube Not Applicab  " " " " " " " " " " " " " " " " " "	( 2.41 (3.0 x 31 e	.69 x .095) A	uminum		
Manufacturer Type (straight tube, tui internal-external damp Outer diam. x length x wall thickness Overdi Autom Inter- mediate bearing Lub. (f Slip yoke Numb-	be-in-tube, ler, etc.) il 3-speed transmission il 5-speed transmission rive latic transmission plain, anti-friction) litting, prepack)	Straight Tube Not Applicab  "- 3-Speed 76.2 x 804.9 Not Applicab None Splined 32 34.95mm (1.	( 2.41 (3.0 x 31 e	.69 x .095) A	Juminum		
Manufacturer Type (straight tube, tul internal-external damp  Outer diam. x length x wall thickness  Overdi Autom  Inter- mediate bearing Lub. (ff Slip yoke Numbi Spline Make	be-in-tube, ler, etc.)  Il 3-speed transmission  Il 5-speed transmission  Il 5-speed transmission  rive 6 latic transmission  plain, anti-friction)  litting, prepack)  er of teeth  s.d.	Straight Tube Not Applicab  " " " " " " " " " " " " " " " " " "	( 2.41 (3.0 x 31 e	.69 x .095) A	Juminum		
Manufacturer Type (straight tube, tul internal-external damp Outer diam. x length' x wall thickness Overdi Autom Inter- mediate bearing Lub. (f Spline Numb Spline Numb Type ( Numb Type)	be-in-tube, lef, etc.) ld 3-speed transmission ld 4-speed transmission ld 5-speed transmission rive 6 latic transmission plain, anti-friction) litting, prepack) er of teeth lo.d. and mfg. no. er used (ball and trunnion,	Straight Tube Not Applicab " "- S-Speed 76.2 x 804.9 Not Applicab None Splined 32 34.95mm (1. Front Dana #1311 Rear Dana #1318	( 2.41 (3.0 x 31 e	.69 x .095) A	Juminum		
Manufacturer Type (straight tube, tul internal-external damp Outer diam. x length' x wall thickness Overdi Autom Inter- mediate bearing Lub. (f Spline Make:  Numb Type (cross) Universal	be-in-tube, lef, etc.) ld 3-speed transmission ld 4-speed transmission ld 5-speed transmission rive 6 latic transmission plain, anti-friction) litting, prepack) er of teeth lo.d. and mfg. no. er used (ball and trunnion,	Straight Tube Not Applicab  "" "-Speed 76.2 x 804.9 Not Applicab None  Splined 32 34.95mm (1. Front Dana #1311 Rear Dana #1318 2 Cross	( 2.41 (3.0 x 31 e	.69 x .095) A	luminum		
Manufacturer Type (straight tube, tui internal-external damp Outer diam. x length' x wall thickness Overdi Autom Inter- mediate bearing Slip yoke Numb Spline Make Universal inints	be-in-tube, ler, etc.)  Il 3-speed transmission li 4-speed transmission li 5-speed transmission rive 6 latic transmission plain, anti-friction) litting, prepack)  er of teeth loo.d.  and mfg. no.  er used (ball and trunnion, )  tach(u-bott, clamp, etc)	Straight Tube Not Applicab " "- S-Speed 76.2 x 804.9 Not Applicab None Splined 32 34.95mm (1. Front Dana #1311 Rear Dana #1318	( 2.41 (3.0 x 31 e	.69 x .095) A	Juminum		
Manufacturer Type (straight tube, tul) internal-external damp  Outer diam x length x wall thickness  Overdi Autom  Intermediate bearing yoke  Numb Sptine  Make  Universal joints  Manua  Manua Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp)	be-in-tube, ler, etc.)  Il 3-speed transmission li 4-speed transmission li 5-speed transmission rive  Exact transmission plain, anti-friction) littung, prepack)  er of teeth loo.d. and mfg. no. ler used (bell and trunnion,  tach(u-bolt, clamp, etc)  Type (plain, anti-friction)	Straight Tube Not Applicab  "" "-Speed 76.2 x 804.9 Not Applicab None  Splined 32 34.95mm (1. Front Dana #1311 Rear Dana #1318 2 Cross	( 2.41 (3.0 x 31 e	.69 x .095) A	Juminum		
Manufacturer Type (straight tube, tui internal-external damp  Outer diam. x length' x wall thickness  Overdi Autom  Inter- mediate bearing  Slip yoke  Numb  Sptine  Universal ioints	be-in-tube, ler, etc.)  Il 3-speed transmission li 4-speed transmission li 5-speed transmission rive  Exact transmission plain, anti-friction) littung, prepack)  er of teeth loo.d. and mfg. no. ler used (bell and trunnion,  tach(u-bolt, clamp, etc)  Type (plain, anti-friction)	Straight Tube Not Applicab  "	( 2.41 (3.0 x 31 e	.69 x .095) A	Juminum		
Manufacturer Type (straight tube, tul) internal-external damp  Outer diam x length x wall thickness  Overdi Autom  Intermediate bearing yoke  Numb Sptine  Make  Universal joints  Manua  Manua Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp) Type (international damp)	be-in-tube, lef, etc.)  Il 3-speed transmission li 4-speed transmission li 5-speed transmission rive 6 latic transmission plain, anti-friction) littung, prepack)  er of teeth lo.d. and mfg. no. lef used (bell and trunnion,  ttach(u-boit, clamp, etc)  Type (plain, anti-friction) Itype (plain, anti-friction) Ing Lubrication (fitting, prepack)	Straight Tube Not Applicab  "	( 2.41 (3.0 x 31 e	.69 x .095) A	Juminum		

Torque Control Arms

Torque taken through (torque tube, arms or springs)

^{*} Centerline to centerline of universal joints, or to centerline of attachment.

<b>MVMA</b>	Specifi	cations
-------------	---------	---------

Vehicle Line	COR	VETTE			 
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

		General Including	Not Applicable
	Mar	rual/automatic control	*
	Type (air/hydraulic)  Primary/assist spring	e (air/hydraulic)	7
ar			
veling	Rea	r only/4 wheel leveling	
	Sing	sle/dual rate spring	
	Sing	e/dual ride heights	*
	-	vision for jacking	(See Attached Sheet)
	Std	./opt./n. <b>z</b> .	Optional
	Mat	nual/automatic control	Manual
	Nur	mber of damping rates	18
hock bsorber amping	Typ	e of actuation (manual/ ctric motor/air, etc.)	Manual Selection & Speed Control
ontrols	5	Lateral acceleration	Not Applicable
		Deceleration	
	5	Acceleration	H .
	1 5	Road surface	
	Туг	98	(See Attached Sheet)
hock bsorber	Ma	ke	Base - Bilstein
ront & sar)	Pis	ton diameter	(See Attached Sheet)
-	Bo	d diameter	Base - 12.4mm (0.5 in.), Z51, FG3: 11.3mm (0.4 in.)

### Suspension - Front

Type and des	cription	(See Attached Sheet)
	Full jounce	92.0mm (3.62 in.)
Travet*	Full rebound	95.0mm (3.74 in.)
	Type,(coil,leaf,other)&mati	Monoleaf, Filament Wound Glass - Epoxy Composite
	insulators (type & mati)	Pivot, Teflon-Filled Nylon And Aluminum, Enclosed in Rubber.
Ci	Size (coil design height	1160.0 x 110.0 x 13.22mm Standard Z51 14.3mm
Spring	& i.d.)	(45.7 x 3.9 x 0.52 in. Standard) (Z51 0.56 in.)
	Spring rate [N/mm(lb./in.)]	Base & Convertible - 90.0 251 - 110.0
	Rate @ wheel [N/mm(lb./in)]	Base & Convertible - 24.64 Z51 - 27.98
	Type (link, lnkless, frmless)	Link
Stabilizer	Material & bar diameter	HR Sti; 26.0mm (0.9 in.) Dia Std. 30.0mm (1.2 in.) Dia ZS1

### Suspension - Rear

Type and des	cription		(See Attached Sheet)
	Full jo	unce	All Models - 89.0mm (3.5 in.)
Travel*			Base & Convertible - 76.0mm (3.0 in.), Z51 - 71.0mm (2.8 in.)
Tyr		coil,leaf,other)&matl	Monoleaf, Filamount Wound Glass - Epoxy Composit
		ength x width, coil	Base - 1236 x 57.0 x 22.2mm, Z51 - 25.0mm
	desig	n height & i.d.)	(Base - 48.7 x 2.24 x 0.87 in.) (Z51 - 0.98 in.)
Spring	Spring	rate (N/mm (lb/in))	Base 40.0 (233.0), Z51 - 57.8 (330.0) Conv 40.0 (233.0)
Spring		wheel (N/mm (lb/in))	Base 26.36 (130.2), 251 - 35.68 (173.6) Conv 26.36 (130.2)
	-	tors(type & material)	Dual Rubber Polyisoprene
	11	No. of leaves	Monolear
	leaf	Shackle(comp or tens)	Tension
	Tynei	ink,inkless,frmless)	Link
Stabilizer	<u> </u>	nal & bar diameter	HR Steel; Base - 19.0mm (.75 in.) Solid, Z51 - 24.0mm (0.94 in.) **
Track bar (ty			None
Track bar (ty	<u>ve)</u>		Solid Rejected To Protect Against Corrosion.

^{*} Define load condition:

^{** -} Solid Painted To Protect Against Corrosion.

Vehicle Line CORVETTE

Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)
SUPPLEMENTAL PAGE

#### 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.

#### CORVETTE Vehicle Line **MVMA** Specifications 6-89 Revised(*) Issued 1990 Model Year **METRIC (U.S. Customary)** 2-DOOR CONVERTIBLE 1YY67 Body Type And/Or 2-DOOR HATCHBACK COUPE 1YY07 **Engine Displacement** Brakes - Service Hydraulic Power Brake Front And Rear Disc Base JL9 And Heavy Duty Description J55 Systems B.C.I.A. Standard Pad Guided Caliper Front (disc or drum) Manufacturer and B.C.I.A. Standard Pin Guided Caliper Rear (disc or drum) Rear Proportioner Integral With Master Cylinder Valving type(prop,delay,metering,other) Standard Power brake (std., opt., n.a.) Vac 240mm Single Diaph .65 sq. in. Booster type(rmt,intgrl,vac., hyd.,etc.) Engine Plenum Source (inline, pump, etc.) Not Applicable Reservoir (volume cu. in.) Vacuum Operational speed range Traction Control Type engine intervention Standard Front And Rear Front/rear (std., opt., n.a) Bosch Manufacturer Electrohydraulic Type (electronic, mech.) 4 Front Wheel Sensors Number sensors or circuits Anti-lock 3 (1 Front And 1 Rear) Hydraulic No. anti-lock hyd. circuits Add-On Integral or add-on system Yes Yaw control (yes, no) Electronic Motor Pump Hydraulic power source Front Linings 209; Rear Linings 119 (W/Out Grooves) Effective area (sq. cm. (sq. in.))* Front 53.2 x 4 = 213; Rear 29.7 x 4 = 119 (W/Grooves) Gross Ling area [sq cm (sq in)] **(F/A) Front 660 Base/722 H.D; 589 Rear Swept area [sq cm (sq in)]**** (F/R) F-Base/302.3mm; F-H.D./327.3mm; R/302.7mm F/R Outer working diameter F-Base/222.3mm; F-H.D./247.3mm; R/232.7mm Inner working diameter % Rotor F-Base/20mm; F-H.D./28mm; R/20mm F/R Thickness Gray Iron Vented Front, HCE Iron Vented Rear F/R Mati & type (vented/sid) F/R **Not Applicable** Diameter & width Type and material Front Dual Piston 38mm (1.5 in.) Rear 40.5mm (1.6 in.) Wheel cylinder bore Front 22.2/20mm (.87/.79 in.) Rear 22.2/12mm (.87/.47 in.) F/R Bore/stroke Master cylinder Pedal arc ratio Line pressure at 445 N (100 lb.) pedal load [kPa (psi)] W/Power Front 8625 (1250) Rear 5175 (750) Front And Rear Self Adjusting Lining clearance Integral Mold Bonded or riveted Not Applicable **Rivet size** Japan Brake Industries Manufacturer JB CP26, FE Code Lining code ** Front Semi-Metallic Nonasbestos Material Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.) Pri.or out-brd Front 135 x 40 x 9.5mm (5.31 x 1.57 x 0.37 in.) Sec. or in-brd 6.0mm (0.236 in.) Brake lining Shoe thcknss.(no ing) Integral Mold Bonded or riveted Japan Brake Industries Manufacturer JB H3H - B33, GF code

Semi-metallic nonasbestos

108 x 35 x 8.5mm (4.25 x 1.38 x 0.33 in.)

94 x 35 x 8.5mm (3.70 x 1.38 x 0.33 in.) O.B. 4mm (0.157 in.), I.B. 5.5mm (0.216 in.)

Lining code

Pri. or out-ord

Material

Rear

Shoe thaknes (no Ing) *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 P/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.

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

	Wheels (SI		P275/40ZR17 B/W - Base
	Type (bias, rad		High Speed Steel Belted Radial Eagle 40ZR (Goodyear), Unidirectional
res	inflation pres- sure (cold) for	Front (kPm(psi))	240 (35)
	recommended max, vehicle load	Rear [kPa(psi)]	240 (35) mct English 497 E ( 788)
	Rev/mile-at 70	0 km/h(45mph)	497 = (788)
	Type & materia		Left-Right Aluminum Alloy Road Wheels With Specific Vent Design
	Rim (size & fla		17 x 9.5 Front, 17 x 9.5 Rear, Left-Right Specific
	Wheel offset		56mm (1.97 in.)
heels		Type(bolt,stud)	Stud
	Attachment	Circle diameter	120.7mm (4.75 in.)
		Number & size	5 Hex Nuts, One Anti-Theft; M12 x 1.5 - 6H
Tin	Tire and wheel		T155/70D17, (17 x 4 Wheel) 60 PSI 4154 PA
pare	Storage positi	ion &	Horizontal Under Fuel Tank
	location (desc		
	d Wheels (C		P315/35ZR17
ire size (load	d Wheels (C	optional)	P315/35ZR17  High Speed Steel Belted Radial Eagle 35ZR (Goodyear)
ire size (load ype (bias, rad	d Wheels (C range, ply), rear dial, steel, etc.), rea	optional)	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)
ire size (load 'ype (bias, rat Vheel (type &	d Wheels (C range, ply), rear dial, steel, etc.), rear material), rear	optional)	
re size (load ype (bias, rat /heel (type & im (size, flan	d Wheels (C range, pty), rear sial, steel, etc.), rea material), rear ige type and offset	optional)	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)  Left-Right Aluminum Alloy Road Wheels W/Specific Vent Design
ire size (load ype (bias, rat /heel (type & lim (size, flan ire size (load	d Wheels (C range, pty), rear stal, steel, etc.), rea material), rear ge type and offset range, pty)	optional)	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)  Left-Right Aluminum Alloy Road Wheels W/Specific Vent Design
ire size (load ype (bias, rat Vheel (type & lim (size, flan ire size (load ype (bias, ra	d Wheels (C range, ply), rear dial, steel, etc.), rea material), rear ge type and offset range, ply) dial, steel, nylon, e	optional)	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)  Left-Right Aluminum Alloy Road Wheels W/Specific Vent Design
re size (load ype (bias, rat theel (type & im (size, flan ire size (load ype (bias, ra /heel (type 8	d Wheels (C range, pty), rear sial, steel, etc.), rear material), rear ge type and offset range, pty) dial, steel, nylon, e k material)	ptional)  pr  h,rear  tc.)	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)  Left-Right Aluminum Alloy Road Wheels W/Specific Vent Design
ire size (load ype (bias, rat Vheel (type & lim (size, flan ire size (load ype (bias, ra Wheel (type & lim (size, flan	d Wheels (C range, ply), rear dial, steel, etc.), rear material), rear ge type and offset range, ply) dial, steel, nylon, e material)	ptional)  pr  h,rear  tc.)	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)  Left-Right Aluminum Alloy Road Wheels W/Specific Vent Design
ire size (load ype (bias, rat Vheel (type & lim (size, flan ire size (load ype (bias, ra Wheel (type & him (size, flan ire size (load	d Wheels (C range, ply), rear dial, steel, etc.), rear material), rear ge type and offset range, ply) dial, steel, nylon, e material)	ptional)  pricer  tc.)	High Speed Steel Belted Radial Eagle 35ZR (Goodyear)  Lett-Right Aluminum Alloy Road Wheels W/Specific Vent Design

DIGNOS	Parking	D. D. Colores Auto Coble Adjust	
Type of contro	<b>!</b>	Lever Apply, Button Release, Auto Cable Adjust	
Location of co		Inner Left Door Sill	
Operates on	<u> </u>	Integral Rear Caliper Lock Plate Actuator	
<u> </u>	Type(internal or external)	Not Applicable	
i separate rom	Drum diameter		
prakes	Lining size (length x	N	

Rim (size, flange type and offset)
Tire size (load range, pty)
Type (bias, radial, steel, nylon, etc.)

(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)

Wheel (type & material)
Rim (size, flange type and offset)
Spare tire and wheel size

Vehicle Line	COR	VETTE		·	
Model Year	1990	Issued	6-89	Revised(*)	

METRIC (U.S. Customary)

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

Manual (std., opt., n.a.)			Not Available				
Power (std., opt., n.a.)			Standard				
Adjustable Type steering wheel/ column (tilt, Manufacturer			Tilt And Telescopic				
				Saginaw Division			
elescope, other)		(std., opt.	, n.a.)	Standard			
Vheel		Manual		Not Available			
diameter ** (W9) SAE J1100		Power		368mm (14.5 in.)			
	Out-	Wall to wi	ii (l. & r.)	12.6 (41.3)			
Turning	side front	Curb to curb (L & r.)		12.2 (40.0)			
siameter n (ft.)	In-	Wall to wi	II (I. & r.)	Not Available			
,	side rear	Curb to c	urb (l. & r.)	"			
Scrub Radiu	.s •						
	<u> </u>	Type		Not Available			
		Manufact	wrer	••			
Manual	Gear	Ratios	Gear				
	Į.		Overall	••			
-	No. whe	(o. wheel turns(stop to stop)					
	Type (h	Type (hydraulic, elec., etc.)		Alloy Rack And Pinion			
		Manufacturer		Saginaw Division; Lt. Wt. Transverse Compact Pump			
		Туре		End Take-Off			
Power	Gear	Gear					
	1	Ratios	Overali	13.0:1			
	Pump (drive)			Accessory Belt Driven			
	No. wheel turns(stop to stop)			1.96 Turns - 251 Handling Package			
	Туре	<del>                                     </del>		End Take-Off			
Linkage		Location (front or rear of wheels, other)					
				Front Of Wheel			
	Tie Rod	s (one or tw	(0)	2			
	Inclinati	on at camb	er (deg.)	8.744			
Steering	Bear-	Upper		Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive			
axis	ings	Lower		Ball Joint (M/M W/Anti-Friction Washer); Anti-Corrosive			
	(1994)	(type) Thrust		Lower Bail Joint			
Steering sp	indle/knuc	kle & joint t	уре	Upper And Lower Ball Joints; Anti-Corrosive			
\albac!	Dia- meter	Inner b	earing	51mm (2.0 in.)			
Wheel spindle/	meter	Outer t	pearing	51mm (2.0 in.)			
hub	Thread	(51 <b>2</b> e)		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.

	Specifi	cations	Vehicle Line CORVETTE  Model Year 1990 Issued 6-89 Revised(*)
			MODE TO STATE OF THE STATE OF T
METRIC (	J.S. Custo	mary)	
lody Type A ingine Dispi			2-DOOR HATCHBACK COUPE 1YY07 2-DOOR CONVERTIBLE 1YY
Wheel All	anment		
		Caster (deg.)	6.0 (+/-) 0.5
	Service	Camber (deg.)	0.8 (+/-) 0.5
	checking	Toe-in (outside track-mm (in.))	0.0 (+/-) .10
ront rheel at		Caster (deg.)	
urb mass	Service reset*	Camber (deg.)	
v1.)		Toe-in (deg.)	
	<b> </b>	Caster (deg.)	
	Periodic M.V. in-	Camber (deg.)	
	spection	Toe-in (deg.)	
	+	Camber (deg.)	0 (+/-) 0.5
lear	Service checking	Toe-in [outside track-mm (in.)]	0.0 (+/-) .1
heel at	Service	Camber (deg.)	
n.)	reset*	Toe-in (deg.)	
	Periodic	Camber (deg.)	
	M.V. in-	Toe-in (deg.)	
	- Instrum	trend set or other. ents and Equi	pment *
Speed-		المختصات	
Speed- ometer	Type (analo	· 	Electronic Liquid Crystal-Digital
	std., opt.)	g, digital, ter (std., opt.,	Electronic Liquid Crystal-Digital Standard
	Trip odome	· 	
meter GR maintena	Trip odome	· 	Standard
GR maintena	std., opt.)  Trip odome n.a.)  hose indicator  Type  Warning de	ter (std., opt.,	Standard Not Available
GR maintena	Trip odome n.a.)  nce indicator  Type	ter (std., opt.,	Standard Not Available Analog Display
GR maintena Charge ndicator	std., opt.)  Trip odome n.a.)  hose indicator  Type  Warning de	ter (std., opt.,	Standard  Not Available  Analog Display  Standard - Warning Indicator
GR maintena	rid., opt.) Trip odome n.a.) nce indicator Type Warning de audible)	ter (std., opt.,	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp
GR maintena Charge Indicator Compensure Indicator	std., opt.) Trip odome n.a.) nce indicator Type Warning de audible)	ter (std., opt.,	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display
GR maintena Charge Indicator Comperature Indicator	std., opt.) Trip odome n.a.) nce indicator Type Warning de audible) Type Warning de	ter (std., opt., vice (light,	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp
GR maintenal harge idicator emperature idicator iii ressure indicator	std., opt.) Trip odome n.a.) Trip odome n.a. Type Warning de audible) Type Warning ds Type	ter (std., opt., vice (light,	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display
GR maintenar Charge Indicator Charge Indicator Charge Char	std., opt.) Trip odome n.a.) Trip odome n.a. Type Warning de audible) Type Warning de Type Warning de	ter (std., opt., vice (light,	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp
GR maintenar Charge Indicator Charge Indicator Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Charge Char	atd., opt.) Trip odome n.a.) Trip odome n.a.) Type Warning de audible) Type Warning de Type Warning de	ter (std., opt., vice (light, vice	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Electric Liquid Crystal-Analog
CAR maintenar Charge Indicator Cemperature Indicator Coliterature Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indi	std., opt.) Trip odome n.b.) Trip odome n.b.) Type Warning de audible) Type Warning de Type Warning de Type Warning de	vice (light, vice dard)	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Electric Liquid Crystal-Analog  Standard-Warning Indicator Signals - Reserve
EGR maintenal Charge Indicator Temperature Indicator Oil pressure Indicator Fuel Indicator Wind- shield	std., opt.) Trip odome n.a.) Trip odome n.a.) Type Warning de audible) Type Warning de Type Warning de Type Warning de	ter (std., opt., vice (light, vice	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Electric Liquid Crystal-Analog  Standard-Warning Indicator Signals - Reserve  Intermittent Control System
EGR maintenar Charge Indicator Temperature Indicator Oil pressure Indicator Fuel Indicator Wind- shield	std., opt.) Trip odome n.a.) Trip odome n.a.) Type Warning de audible) Type Warning de Type Warning de Type Warning de Type Warning de Type Warning de	ter (std., opt., vice (light, vice	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Electric Liquid Crystal-Analog  Standard-Warning Indicator Signals - Reserve  Intermittent Control System  Not Available
EGR maintenal Charge indicator Temperature indicator Oil pressure indicator Fuel indicator wind- anield wiper	std., opt.) Trip odome n.a.) Trip odome n.a.) Type Warning de audible) Type Warning de Type Warning de Type Warning de Type Warning de Type Warning de	ter (std., opt., vice (light, vice vice dard) th a (sq cm (sq in))	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Electric Liquid Crystal-Analog  Standard-Warning Indicator Signals - Reserve  Intermittent Control System  Not Available  508mm (20 in.)
EGR maintenas Charge indicator Temperature indicator Oil pressure indicator Fuel indicator	std., opt.) Trip odome n.a.) Trip odome n.a.) Type Warning de audible) Type Warning de Type Warning de Type Warning de Type Warning de Type Sarning de Type Warning de	vice (light, vice vice vice vice vice vice vice dard) vial th talsq cm (sq in))	Standard  Not Available  Analog Display  Standard - Warning Indicator  And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Analog Display  Standard - Warning Indicator And Lamp  Electric Liquid Crystal-Analog  Standard-Warning Indicator Signals - Reserve  Intermittent Control System  Not Available  508rnm (20 in.)  6920 (1072.9)

Tell-Tale Lights Warning Of Unfastaned 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 Other (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),

Not Available Vibrator

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.

Hom

Rear window wiper, wiper/washer (std., opt., n.z.)

Туре

Number used

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

	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525
	Voltage	12
Sattery	Amps at 0 dag F cold cmk	525
	Minutes-reserve capacity	90
	Amps/hrs 20 hr. rate	54
	Location	Engine Compartment Directly Behind Left Wheel Opening
	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps
Alternator	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

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

Electrical - Ignition System

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

Electrical - Suppression

	Internal Alternator Capacitor, Non-Metallic High-Tension Cables, Resistor
	Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor
Locations & type	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						
ALA IAI 🗡	IAMA Shecilicanons			1990	Issued	6-89	Revised(*)		
METRIC (U	.S. Custo	emary)							
Engine Descri	lotion		5.7 LITER V8 (3	50 CID)					
Engine Code	•		MULTI-PORT FUI	EL INJECT	ON RPO LT	<u> </u>			
_		_							
<u> lectrical</u>	- Supply	System	J Dalas Berry			<u> </u>		<del></del>	
!	Manufacturer		Delco Remy						
,	Model, std.,	(opt)	75-695 Standard						
	Voltage		12			··· <del>···</del>			
Battery		g F cold cmk	695			·			
		erve capacity	90		<del></del>				
	Amps/hrs	20 hr. rate	54 Engine Compartme	net Disasth	Robind Loft I	Mhoel One	nina		
	Location			arit Directly	Sermia Coll 1	Wileel Obe			
	Manufacture	or	Delco Remy						
	Rating (idle/	max. rpm)	105 Amps 50/120		<del></del> -		<del></del>		
Alternator	Ratio (alt. cr	ank/rev.)	2.59						
	Output at id	e (rpm, park)		55 Amps					
	Optional (tyr	oe & rating)	None Micro Circuit Unit; Integral With Alternator						
Regulator	Туре		Micro Circuit Unit;	integral Wi	n Alternator				
Electrical -	- Starting	System	The same						
	Manufacture		Nippon Denso						
Motor	Current dra	n -20 deg F	425 Armps						
	Power ratin	<del></del>		1.6 (2.1)					
Mator	Engagemen	t type	Coaxial Solenoid						
drive	Pinion enga from (front,	ges rear)	Front						
	.L	·	110111						
Electrical -	- Ignition	System							
		std, opt,n.a.)							
Туре	Other (spec	sify)	Direct Ignition System						
	Manufactur	·er	Delco Remy						
	Model								
Coil		Engine stopped-A							
	Current	Engine idling – A	T						
	Manufactu	rer	AC						
Spark plug	Model		FR2LS						
	Thread (mn	n)	Not Available						
	Tightening								
	Gar								
	Gap Number pe	e cwlinder	1			<del></del>			
	Manufactu		Delco Remy						
Distributor		· · · · · · · · · · · · · · · · · · ·	Direct Ignition	<del> </del>					
	Model		1 2000 191000						

Electrical - Suppression

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.

. #\/R# A	Specification	ns	Vehicle Line CORVETTE				
MVMA Specifications			Model Year 1990 Issued 6-89 Revised(*)				
/IETRIC	(U.S. Customary)						
lody 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				
		<del></del>	Around. "Unibase" Paint Process, Final Clear Coat Paint Finish.  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.				
kumper Sy front - Rea			Pascia, Asai Salinia Hotoyootta Seessi.				
Anti-Corrosion Treatment			All Encompassing Corrosion Protection Including Extensive Use Of Aluminum; Galvanization; Use Of Specially Treated Fasteners; Austentitic Stainless Steel Or Specially Coated Brackets, Clamps, Clips And Braces; Use Of Aluminized Steel, Dip Painted; Use Of Materials That Resist Corrosion.				
		amation					
_	Miscellaneous Inf	Offication	High Solids Base Coat Enamel With High Solids Clear Coat				
ype or times	Material & mass		Sheet Molded Compound With Steel Reinforcements, 33.6 kg. (74.1 lbs.)				
	Hinge location (front, rear		Front				
iood	Type (counterbalance, pro	p)	Hinged Clamshell Hood, W/Upper Wheelhouse Attached W/Dual Gas Struts				
	Release control (int., ext.)		Internal				
	Material & mass		Not Applicable				
Frænk id	Type (counterbalance, oth internal release control (elec., mech., n.a.)	(er)					
	Material & mass		Tempered, Tinted Safety Glass 19.05 kg. (42.0 lbs.)				
Hatch-	Type (counterbalance, oth	er)	Dual Gas Struts				
back lid	Internal release control elec., mech., n.a.)		Electric Release, Standard (Each Door And Console Glove Box)				
	Material & mass		Not Applicable				
P-11	Type (drop, lift, door)		W				
Tailgate Internal release control (elec., mech., n.a.)			•				
Vent windo	w control (crank,	Front	None				
		Rear					
Window reg (cable, tape	guiator type , flex drive.	Front	Drive				
etc.)		Rear	None  Bucket Seat, Full Cloth Trim W/Wool Pad Comfort Liner @				
Seat cushion type (e.g., 60/40, bucket, bench wire, foam, atc.)							
		I Mass	None				

None

3rd seat

Front

Rear 3rd seat

MVMA-90

Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)

Bucket Seat, Full Cloth Trim W/Wood Pad Comfort Liner @

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

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

Vehicle Line CORVETTE

Model Year 1890 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

**Body Type** 

2-DOOR HATCHBACK COUPE 1YY07

Restrain	t System						
Seating Posit			Left	Center	Right		
	Type & description (lap & shoulder bett, lap bett,		3-Point Active Lap & Shoulder Belt		3-Point Active Lap & Shoulder Bett		
Active	etc.)	Second seat					
	Standard/ optional	Third seat					
Passive	Type & description (air bag, motorized-	First seat	Air Bag Standard				
	2-point belt, fixed belt, knee botster, manual- (ap belt)	Second seat					
	Standard/ optional	Third			-		
Glass		SAE Ref No					
Windshield ( surface area in.)]	lass exposed [sq. cm. (sq.	\$1	8710.0 (1350.0)				
Side glass ex area (sq. cm. total 2- side:	posed surface (sq. in.)] –	\$2	4007.2 (621.1)				
Backlight gla surface area (sq. in.))		\$3	6205.0 (961.8) 2554.8 (396.0)				
Total glass e: area (sq. cm.	oposed surface (sq. in.)]	<b>S4</b>	18922.2 (2932.9) 15272.0 (2367.1)				
Windshield (	plass (type)		Curved - Laminated Plate - Tinted				
Side glass (ty	/P®)		Curved - Tempered Plate - Tinted				
Backlight gli	uss (type)		Curved - Tempered Plate - Tinted (Hatchback) Vinyl				
Headlan	nps						
Description halogen, rep	- sezied beam, isceable bulb, etc.		Sealed Beam				
Shape			Rectangular				
Lo-beam type (2A1, 2B1, 2C1, etc.)		2B1 On Both - 1 Capsule Per Side					
Quantity							
Hi-beam typ 2C1, etc.)	e (1A1, 2A1, 1C1,						
Quantity							
Frame							
Type and description (separate frame, unitzed frame, partially-unitzed frame)		All-Welded Steel Body-Frame C Bolt-On Front Crossmember To					

Vehicle Line CORVETTE

Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Body	Type
~~,	1364

2-DOOR HATCHBACK COUPE 1YY07

	ence Equipment (standa	e, opinorea, reserving
Air conditioni auto, temp co	ng (manual, ntrol)	
		Standard, Four Season Manual Control
Clock (digital	analog)	Standard, Digital Read-Out With All Radios
Compass / th	ermameter	Not Available
Console (floo	r, overhead)	Standard, Floor
Defroster, ek	c, backlight	Standard
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
Electronic	,,	
	Tripminder (avg. spd. fuel)	Range, Average And Instant MPG
		Not Available
	Voice slert (list items)	LCD And Analog Instrumentation Standard
	Other	
uel door loc	t (remote, key, electric)	Not Available
	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 tock, ignition	Standard - Inside Door Lock-Door Open, Delay When Closed
	Engine compartment	Standard
amps.	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	
		·
-	Day / night (auto. man.)	Standard, Manual
	L.H. (remote, pwr., heated)	Power Standard, Heated
Mirrors	R.H.(convex, rmt, pwr, htd)	Power Standard, Heated
	Visor vanity (RH/LH illum.)	RH Standard/LH Optional
lavigation sy	stem (describe)	None
	uto release (warn. light)	Manual Release, Tell-Tale - Standard

Vehicle Line CORVETTE

Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

Engine Description Engine Code 2-DOOR HATCHBACK COUPE 1YY07

Conveni	ence E	quipment (standard	I, optional, n.a.)				
	Deck lid(release, pull down)						
Power equipment	Door to	ks (manuel, auto.,	Standard Deck Lid Hatch,				
	describe system)		Standard Door Locks				
		2-4-6 way, etc.	6-Way Optional				
	1	Reclining(R.H., L.H.)	Manual Standard, Power Optional				
		Memory (R.H., L.H., preset, recline)	Not Available				
	Seats	Lumbar, hip, thigh, support	Power Optional				
		Heated (R.H., L.H., other)	Not Available				
			Standard				
	Side wi	<del></del>	Not Available				
	Vent wi		Standard - Electric Hatch Release (3 Remote Location)				
	Rear wi		Standard Release				
	+	rtible deck lid	Stalland House				
		a (location, whip, id, power)	Rear Power Antenna				
Radio systems	Stan.	AM/FM Stereo Cassette					
	Opt.	AM, FM, sterec, tape, compact disc, graphic equalizer, theft deterrent, radio preppackage, headphone jacks, etc.	AM/FM Stereo Cassette/Bose AM/FM Stereo Cassette/Compact Disc/Bose				
	Speak	er (number, location)	Standard - 2 Front, 2 Rear Bose - 1 Each Door, 2 Rear				
Roof: open- sliding, 'T')	air or fixed	(1lip-up,	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.)		h humas eta l	Not Available				
Tachometer (rpm)		1, 002241, 4(0.)	6,000				
Telephone system (describe)		scribe)	Not Available				
Theft deterrent system			"VATS" System Includes Special Module With Resistor Decoder And Ignition Key				
. 110.1 40.601		···	With Embedded Pellets Of Specified Resistance. Built-In Time Lag, Forces				
			Delay Between Atterripts To Start Vehicle With Improper Key. Also Includes				
			Anti-Theft Horn Alarm System With Starter Enable (Doors And Hatch).				

Vehicle Line	COR	VETTE			
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 Ret. no. refers to the definition published in SAE Recommended Practice J1100 Motor Vehicle Dimunsions, unless otherwise specified.

Body T	уре
--------	-----

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

Width	SAE Ref. I	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

O Lengui		
Wheelbase	L101	2444 (96.2)
Vehicle length	L103	4483 (176.5)
Overhang (front)	L104	1030 (40.5)
	L105	1009 (39.7)
Overhang (rear)	L123	2309 (90.9)
Upper structure length	L127	1886 (74.2)
Rear wheel C/L 'X' coordinate		1

### o Height **

neigni	البونساب بيسبوس		**
Passenger distribution (front/rear)	PD1,2,3		***
Trunk/carpo load			**
Vehicle height	H101	1186 (46.7)	1178 (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 **

GIOGILO CIOGIGIA		
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)	H108	10.6
Angle of departure (degrees)	H107	20.2
Ramp breakover angle (degrees)	H147	12.3
Axie 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.

All Linear Dimensions Are in Millimeters (inches).

EPA Loaded Vehicle Weight is the Base Vehicle Weight Plus All Coolant and Fluids Necessary For Operation Plus 190% Of The Fuel Capacity, Plus The Weight Of All Options And Accassories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

<b>MVMA</b>	<b>Specifications</b>
-------------	-----------------------

Vehicle Line	COR	VETTE			
Mode! Year	1990	Issued	6-89	Revised(*)	

METRIC (U.S. Customary)

**Vehicle Dimensions** 

See Key Sheets for Definitions

Body	TVD4

- 1		
	2-DOOR HATCHBACK COUPE 1YY07	2-DOOR CONVERTIBLE 1YY67
	5	

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 heal 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.)	1.44	130.0	
Footangle (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*	ws	380.0 (15.0)	
Steering wheel angle (deg.)	H18	18.3	
Accel, heel pt. to steer, whil ontr	L11		
Accel, heelpt, to steer, whi, entr	H17		-
Undepressed floor covering thickness	H67	24 (0.9) Front Compartment Int. Dim. Are Mea	

		Front Compartment inc Danc Are measured with the ceasing from a				
Rear Compartment (NOT APPLICABLE)		(SgRP)	mm Forward And	mm Upward of Rearmost Position.		
SgRP point couple distance	LS0					
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)

Interior Volumes (EFA Classification)	والمستقل والمستقل المستقل والمستقل والم
Vehicle class	Mini-Compact
Interior volume index (cu. ft.)**	Not Available, On Two Passenger Vehicles
Truck / caree index (tu. ft.)	

^{*}See page 14. This includes passenger and trunk / cargo index — see definition page 32.

^{***} EPA Loaded Vehicle Weight, Loading Conditions All Linear Dimensions Are in Millimeters (inches)

<b>MVMA</b> Specifications
MANUA OPOCINOS

Vehicle Line	COR	VETTE			
Model Year	1990	lasued	6-89	Revised(*)	

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for Definitions

**Body Type** 

2-DOOR HATCHBACK COUPE 1YY07

Seat facing direction	SD1	 
SgRP couple distance	L85	 
Shoulder room	Was	 
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)	1204
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

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	
ront 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)
lidden cargo vol. index [cu.m.(cu.ft.)]	V4	
Cargo volume index-rear of 2-seat	V11	<b>-</b>

^{*} EPA Loaded Vehicle Weight, Loading Conditions

All Linear Dimensions Are in Millimeters (inches).

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

METRIC (U.S. Customary)

2-DOOR HATCHBACK COUPE 1YY07

2-DOOR CONVERTIBLE 1YY67

lumber"		Define Coordinate Location							
		<ul> <li>X - Fiducial Mark To Vertical Zero Grid Line - Front Measured Horizontally, From The Zero Grid Line</li> <li>To The Front Fiducial Mark Located On Top Of The Front Seat Adjuster Mounting Bolt.</li> </ul>							
ront		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.							
		<ul> <li>X - Fiducial Mark To Vertical Zero Grid Line - Rear, Measured Horizontally from The Zero Grid Line</li> <li>To Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).</li> </ul>							
Rear		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).							
		<ul> <li>Z - Fiducial Mark To Horizontal Zero Grid Line - Rear, Measured Vertically From The Zero Grid Line</li> <li>To Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).</li> </ul>							
Fiducial Mark Number									
	W21*	552 (21.7)							
	L54°	831 (32.7)*							
Front	H81°	-181 (-7.1)#							
	H161*	178 (7.0)							
**	H163*	120 (4.7)							
	w22*	296 (11.7)							
	L55*	2714 (106.9)*							
Rear	H82*	46 (1.8)#							
	H162*	367 (14.4)							
**	H164*	345 (13.6)							
**									
**	1 11.0-	* Vertical Base Grid 2000mm Line							

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

All linear dimensions are in millimeters (inches).

^{**} EPA Loaded Vehicle Weight, Loading Conditions.

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

METRIC (U.S. Customary)

		Vehicle Mass (weight)							
		CURB MASS, kg. (lb.)*		% PASS MASS DISTRIBUTION					
					Pass In	Pront	Pass in		ETWC-
Code	Model	Front	Rear	Total	Front	Rear	Front	Rear	ETWC** Code
C000		744.4	732.2	1476.6		i			. 1
1YY07	2-Door Hatchback Coupe (L98 & MD8)	(1641)	(1614)	(3255)					3625
· · · · ·									1
		ļ <u>.</u>		1.05					
		755.2	732.0	1497				-	3625
1YY67	2-Door Convertible (L98 & MD8)	(1665)	(1636)	(3301)					3020
							i		
		793.8	784.2	1578.0				Manuai	3750
43/707	2-Door Hatchback Coupe (ZR1)	(1750)	(1729)	(3479)				Only	
	75 & ML9)	1	, , , , , , , , , , , , , , , , , , ,						
(L	13 ot MCS)							<u> </u>	
	, ,								
	·							ļ	<u> </u>
								į.	
	·				<b></b>		<del> </del>	<del> </del>	-
			1		!		Ì		
		<u> </u>	ļ	<del>                                       </del>		-		<del>                                     </del>	
ŀ		Ì	1						
		+		<del> </del>	<del> </del>			<del> </del>	
İ								.]	
		+		<del>                                     </del>	1				
								<u></u>	
				<u> </u>	<u> </u>	<u> </u>	ļ		
			T		1	1		1	
			<del> </del>	<u> </u>	ļ	ļ		<del> </del>	<del> </del>
	•	1		1	1				1
		<del>- </del>	<del> </del>	<del> </del>		┼	<del> </del>	<del>                                     </del>	<del> </del>
1				1	1			İ	1
<del></del>		-	+	+	<del>                                     </del>	1	<del>                                     </del>	1	1
1		1		1		-		<u> </u>	
1									

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 v	ehicle dimensions, curb weight definition. t Class – basis for U.S. Environmental Protection	Access emission certifications.
** ETWÇ - Equivalent Test Weigh:	Class - Danis for U.S. Environmental Protection	whereth amession on a management
D-4 CT141C 4- 1a	anne balaw for tast weight class	

	ETWC	LEGEND		SHIPPING MASS (weight) Calculation (Kg. (lbs.)		
A = 1000 B = 1125 C = 1250 D = 1375 E = 1500 F = 1625 G = 1750 H = 1875	; = 2000 J = 2125 K = 2250 L = 2375 M = 2500 N = 2625 O ± 2750 P ± 2875	Q = 3000 R = 3125 S = 3250 T = 3375 U = 3500 V = 3625 W = 3750 X = 3875	Y = 4000 Z = 4250 AA = 4500 BB = 4750 CC = 5000 DD = 5250 EE = 5500 FF = 5750	Shipping Mass (weight) = 48 (106)	Curb Mass (weight) Less:	
				Daws Of		

Vehicle Line CORVETTE

Model Year 1990 Issued 6-89 Revised(*)

METRIC (U.S. Customary)

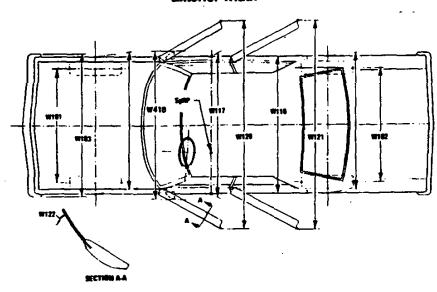
		Op	tional Ed	uemqiup	nt Differential Mass (weight)*	
			MASS, kg. (it	).)	Remarks	
Code	Equipment	Front	Rear	Total	Remarks Restrictions, Requirements	
AQ9	Custom Adjustable Seats	2.8	3.3	6.1	Power Adjust For Backrest Lateral	
		(6.2)	(7.39)	(13.5)	Restraints, Lumbar Support And Back	
-					Angle, Special Cloth Trim.	
B16	Leather Seat Trim	.6	1.0	1.6	As Required (Special Contour	
		(1.3)	(2.2)	(3.5)	Bucket Seat).	
			-1.0	-1.4	Acrylic Plastic. Lighter, Blue	
CC3	Removable Plastic Roof Panel	4	(-2.2)	(-3.1)	Tinted For Giare And Sun Load	
		(-0.9)	(-2.2)	(-3.1)	Control, Coated For Scratch	
					Resistance. Not Avail. On Convt.	
					Resistance. Not Avail. On Cont.	
C68	Automatic Air Conditioning	1.0		1.0		
		2.205		2.205	Automatic Temperature Control	
	-					
ML9	Manual Transmission	1.5	1.3	2.8		
		(3.3)	(2.9)	(6.2)		
	Delco/Bose	1.5	2.9	4.4	Includes Specific AM/FM Stereo	
	Premium Audio System	(3.3)	(6.4)	(9.7)	Radio With Cassette Player, Bose	
	Fremulti Adolo System	(0.0)	(5.1)		Power Amplified, Direct Reflecting	
					Speakers (One in Each Door And At	
		<del></del>			Each Side Of Luggage Area). Also	
					Features Dolby sound, Dynamic	
				<del>                                     </del>	Noise Reduction And Automatic	
					Suppression System.	
V08	Heavy Duty Cooling Required	5.8	-1.2	4.6	Includes HD Radiator, Aux. Boost	
	Except Base	(12.8)	(-2.6)	(10.2)	Fan, And Oil Cooler.	
	Electric Defogger System (Hatch And	.2	2	.4		
	Outside Rear View Mirrors)	(0.4)	(0.4)	(0.8)	Mirrors Only On Convertible.	
<b>2</b> 51	Performance Handling Package, Consists Of	1.9	2.4	4.3	Includes Left-Right 17 x 9-1/2	
	FE7, FG3, GZ0, V01, KC4, B4P	(4.2)	(5.3)	(9.5)	Wheels, Fast Steering HD Cooling.	
,			ļ			

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

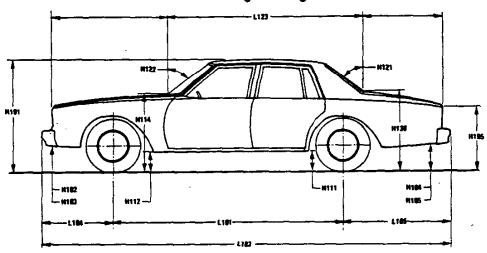
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

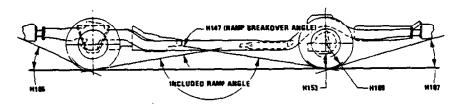
## **Exterior Width**



## **Exterior Length & Height**



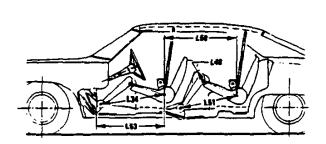
### **Exterior Ground Clearance**

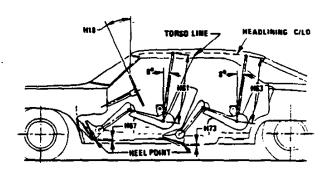


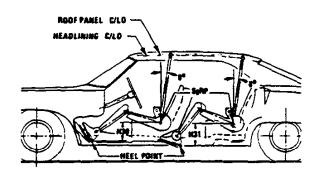
Page 27

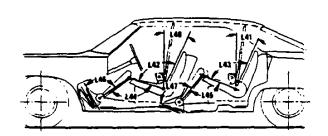
# MVMA Specifications Form METRIC (U.S. Customary)

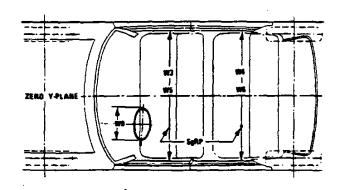
### Interior Vehicle And Body Dimensions - Key Sheet

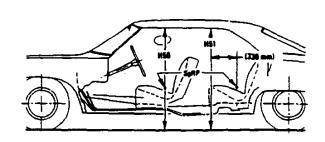










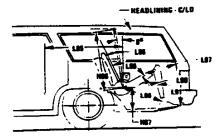


## **MVMA Specifications Form**

METRIC (U.S. Customary)

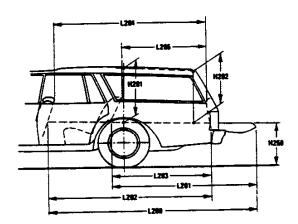
## Interior Vehicle And Body Dimensions — Key Sheet

### **Third Seat**

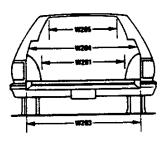


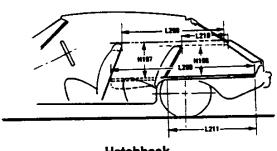
**Cargo Space** 





**Station Wagon** 





Hatchback

**METRIC (U.S. Customary)** 

#### Exterior Vehicle And Body Dimensions - Key Sheet **Dimensions Definitions**

#### Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's

design reference point which -

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design

vehicle structure:

(c) Simulates the position of the pivot center of the human

torso and thigh; and

(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,".

#### Width Dimensions

W101 TREAD-FRONT. The dimension measured between the

tire centerlines at the ground.

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.

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.

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.
VEHICLE WIDTH - FRONT DOORS OPEN. The dimension W120 measured between the widest point on the front doors in maximum hold-open position.

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. TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle W122 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.

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**

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.

VEHICLE LENGTH. The maximum dimension measured L103 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.

OVERHAND - FRONT. The dimension measured longitudi-L104 nally 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.

OVERHANG - REAR. The dimension measured longitudi-L105 nally 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.

UPPER STRUCTURE LENGTH. The dimension measured 1 123 longitudinally from the cowl point to the deck point.

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**

VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

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.

ROCKER PANEL - FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom

of the rocker panels, excluding flanges, to ground.

COWL POINT TO GROUND. Measured at zero "Y" plane. H114

BACKLIGHT SLOPE ANGLE. The angle between the H121 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.
WINDSHIELD SLOPE ANGLE. The angle between the

H122 vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "7" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18 0 m.) long drawn from the lower DLO to the intersecting point on the windshield.

DECK POINT TO GROUND. Measured at zero "Y" plane H138

STATIC LOAD - TIRE RADIUS - REAR. Specified by the H109 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 from bumper to ground, including bumper guards, if standard

FRONT BUMPER TO GROUND-CURB MASS (WT) H103 Measured in the same manner as H102.

REAR BUMPER TO GROUND. The minimum dimension H104 measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

REAR BUMPER TO GROUND-CURB MASS (WT) H105 Measured in the same manner as H104.

ANGLE OF APPROACH. The angle measured between a H106 line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the from tre to ground. The limiting structural component shall be designated.

ANGLE OF DEPARTURE. The angle measured between a H107 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 RAMP BREAKOVER ANGLE. The angle measured be-H147 tween 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.

REAR AXLE DIFFERENTIAL TO GROUND. The minimum H153 dimension measured from the rear axle differential to

ground.
MINIMUM RUNNING GROUND CLEARANCE. The mini-H156 mum dimension measured from the sprung vehicle to ground. Specify location.

**METRIC (U.S. Customary)** 

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

#### Glass Areas

- Windshield area.
- Side windows area. Includes the front door, rear door, vents, **S2** and rear quarter windows on both sides of the vehicle.
- Backlight areas. **S**3
- Total area. Total of all areas (S1 + S2 + S3). 54

#### Fiducial Mark Dimensions

#### Fiducial Mark - Number 1

- 'X" coordinate. 154
- W21 "Y" coordinate.
- "Z" coordinate. H81
- Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. H161
- H163 Flducial Mark - Number 2
- L55
- "X" coordinate. "Y" coordinate. W22
- "Z" coordinate. W82
- Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. H162
- H164

#### Front Compartment Dimensions

- ACCELERATOR HEEL POINT TO STEERING WHEEL L11 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.
- DESIGN H-POINT FRONT TRAVEL. The dimension meas-117 ured horizontally between the design H-point-front in the foremost and rearmost seat track positions. (See SAE
- NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. L23 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).
  SGRP FRONT. "X" COORDINATED.
  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 toot 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.
- BACK ANGLE-FRONT. The angle measured between a vertical line through the SgRP-front and the torso line. If L-40 the seatback is adjustable, use the normal driving and riding
- position specified by the manufacturer.

  HIP ANGLE FRONT. The angle measured between torso 1.42 line and thigh centerline.
- KNEE ANGLE-FRONT. The angle measured between L44 thigh centerline and lower leg centerline measured on the
- FOOT ANGLE FRONT. The angle measured between the L46 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.
- SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel 1.53
- point.
  SHOULDER ROOM-FRONT. The minimum dimension W3 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.

- HIP ROOM~FRONT. The minimum dimension measured **W**5 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.
- STEERING WHEEL MAXIMUM OUTSIDE DIAMETER.
- Define if other than round. ACCELERATOR HEEL POINT TO THE STEERING WHEEL H7 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.
- STEERING WHEEL ANGLE. The angle measured from a H18
- H30
- STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel. 
  SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point. 
  UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane. 
  EFFECITVE HEAD ROOM-FRONT. The dimension measured along a line 8 deep rear of vertical from the SgRP-front. H50
- H61 ured along a tine 8 deg. rear of vertical from the SgRP - front
- to the headlining plus 102 mm (4.0in.).
  FLOOR COVERING THICKNESS UNDEPRESSED -H67 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**

- BACK ANGLE-SECOND. The angle measured between
- a vertical line through the SgRP second and the torso line. HIP ANGLE SECOND. The angle measured between L43
- torso line and thigh centerline.

  KNEE ANGLE SECOND. The angle measured between L45
- thigh centerline and lower leg centerline.

  FOOT ANGLE SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and L47 heel of the three-dimensional devices bare foot flesh line (Reference J826).
- KNEE CLEARANCE SECOND. The minimum dimension L48 measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- SORP COUPLE DISTANCE-SECOND. The dimension L50 measured horizontally from the driver SgRP-front to the SgRP - second.
- MINIMUM EFFECTIVE LEG ROOM-SECOND. The di-L51 mension measured along a line from the ankle pivot center
- to the SgRP second plus 254 mm (10.0 in.).
  SHOULDER ROOM SECOND. The minimum dimension W4 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
- HIP ROOM SECOND. Measured in the same manner as **W**6
- SgRP-SECOND TO HEEL. The dimension measured H31 vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- UPPER BODY OPENING TO GROUND-SECOND. The H51 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.
- EFFECTIVE HEAD ROOM-SECOND. The dimension H63 measured along a line 8 deg. rear of vertical from the SgRP
- to the headlining, plus 102 mm (4.0 in.). FLOOR COVERING DEPRESSED SECOND. The di-H73 mension measured vertically from the heel point to the underbody sheet metal.

**METRIC (U.S. Customary)** 

Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

#### **Luggage Compartment Dimensions**

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

#### Interior Volumes (EPA Classification)

The Interior 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
- L90 KNEE ANGLE THIRD. Measured in the same manner as 1.45
- 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. 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
- H87 SgRP THIRD TO HEEL POINT.
  SD1 SEAT FACING DIRECTION THIRD.

### Station Wagon - Cargo Space Dimensions

- E200 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.
  - 203 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:

Measured in mm:

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

**METRIC (U.S. Customary)** 

#### Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

HIDDEN LUGGAGE CAPACITY - REAR OF FRONT SEAT. V4 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.

TRUCKS AND MPV'S WITH OPEN AREA. **V**5

Measured in inches:

Measured in mm:

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

TRUCKS AND MPV'S WITH CLOSED AREA. **V6** 

Measured in inches:

Measured in mm:

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

HIDDEN LUGGAGE CAPACITY-REAR OF SECOND **V8** 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. STATION WAGON CARGO VOLUME INDEX.

V10

Measured in inches:

Measured in mm:

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).

CARGO LENGTH AT FRONT SEATBACK HEIGHT. The L208 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.

CARGO LENGTH AT FLOOR - FRONT - HATCHBACK.

L209 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 "

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.

CARGO LENGTH AT FLOOR-SECOND HATCHBACK. L211 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.

FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

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

HATCHBACK. V3

Measured in inches:

Measured in mm:

$$\frac{1208 + 1209 \times W4 \times H197}{2} = m^3 \text{ (cubic meter)}$$

HIDDENLUGGAGE CAPACITY - REAR OF FRONT SEAT. VA 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.

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

Measured in inches:

$$\frac{1210 + 1211 \times W4 \times H198}{2} = ft^3$$

Measured in mm:

$$\frac{L210 + L211}{2} \times W4 \times H198$$

$$= m^3 \text{ (cubic meter)}$$

## METRIC (U.S. Customary)

## Ø Index

Subject	Page No.	Subject	Page No
Alternator	16	Passenger Capacity	
Ademator	2 9 10	Passenger Mass Distribution	25
Axle Drive, Front, Rear, All Four	. ,	Passenger Mass Distribution	3
Axie Shafts	10	Pistons	
Battery	16	Power Brakes	
Body and Miscellaneous Information	17	Power, Engine	
Brakes - Parking Service	12. 13	Power Steering	14
DIBRES-Parking Service		Proper Teams	2
Camber		Procedur Shaft	
Camshaft	3	Pumpe - Fuel	<b></b>
Capacities	_	Water	<b>S</b>
Cooling System	5	Radiator - Cap, Hoses, Core	4
Fuel Tank	6	Ratios - Axle. Transaxle	2 0 10
Lubricants		Ratios - Axie. Transaxie	
Engine Crankcase	4	Compression	14
Transmission / Transmile		Steering	286
Rear Axie	10	Transmission : Transaxle	2.10
Corturator		Rear Axie	
Castor	15	Regulator - Afternator	
Clutch - Pedal Operated	8	Restraint System	
Coil, Ignition	16	Rims	
Connecting Bods	4	Rods - Connecting	4
Convenience Equipment	19-20	Scools Bordins	14
Cooling System		Come	17
Crankshaft	4	Shock Absorbers, Front & Rear	
Cylinders and Cylinder Head	3	Spark Plugs	16
		Speedometer	15
Diesel Information	4	Springs - Front & Rear Suspension	
Dimension Definitions		Stabilizer (Sway Bar) - Front & Rear	. 11
Key Sheet - Exterior		Starting System	16
Key Sheet - Interior	28, 29, 31, 32, 33	Steering	14
Electrical System	15. 16	Steering	16
Emission Controls	7	Suppression - Ignition, Radio	
		Suspension - Front & Rear	
Engine - General Bore, Stroke, Type	9	Tail Pipe	.,
Compression Ratio		Their Protection	<i>.</i> 20
Displacement	23	Thermostat Cooling	
Firing Order, Cylinder Numbering	3	Tirac	
General Information, Power & Torque		Top-in	. <i></i> . <i></i> 15
Intake System	4	Tomus Convertor	
Power Teams	2	Torrise - Frome	2, 8, 9
Exhaust System	7	Transavia	
Exhaust System	10	Transmission - Types	
Equipment Availability, Convenience		Transmission - Automatic	
Fan, Cooling	5	Transmission - Manual	. , , , , , , , , , , , , , 2, 6
Filters - Fngine Oil, Fuel System		Transmission - Ratios	2, 8, 8
Four Wheel Drive	10	Trans	21
Frame	18	Trick Caroo Load	
Front Suspension		Total Lucasaa Canacity	
Ernet Wheel Drive Litit		Turning Diameter	14
Fuel System	6		10
Fuel Injection	,,,,,,,,,, <b>,</b>	Unitized Construction	4
Fuel Tank	6	Universal Joints, Propeller Shaft	
Giass		Valve System	4
		Volunto Demonsione	
Headiamps	18	S& Code	
Headroom - Body	22, 23	Lanoth	2
Hoinhts	, . , . , . ,	Height	, , , , , , , , , , , , , <b>2</b> '
Horns	15	Ground Clearance	<i></i> 2º
Horsepower - Brake		Eroot Compartment	
Ignition System		Rear Compartment	2
Inflation - Tires	13	Luggage Compartment	2
Interior Volumes	22	Station Wagon - Third Seat	2
Instruments	15	Station Wagon - Cargo Space	2
		Hatchback - Cargo Space	2
Legroom		Fiducial Marks	2
Learths		Voltage Regulator	1
Leveling Succession			
Litters Value	4	Water Pump	. , ,
Lieuwer - Chutch Brake		Weights	
Lubrication — Engine Transmission / Transaxle	4, 8, 9	Wheel Shanmont	
Luggage Compartment	<i>.</i> <b>22</b>	Wheelbase	2
Models		Wheele & Tires	
Models	16	Wheel Spindle	
Muffler		Widths	
		Windshield	
Origin		Windshield Wiper and Washer	

