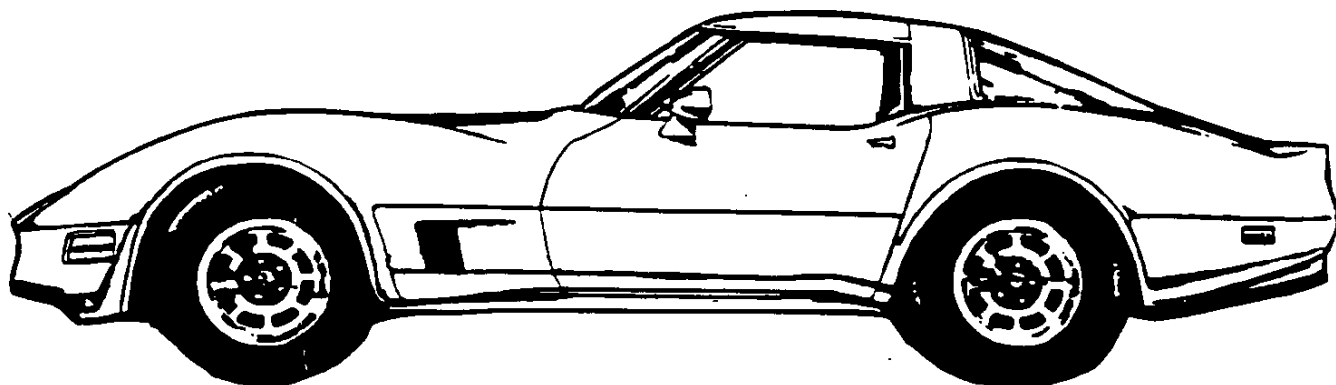






CORVETTE

1981
SPECIFICATIONS



GENUINE CHEVROLET



CORVETTE

COLOR AND TRIM SELECTION

PLEASE NOTE: The Exterior and Interior Combinations shown in the charts below and designated as recommended (R) represent the ideal combinations. Those that are shown as acceptable (A), are attractive, but less desirable than the recommended combinations

Interior Trim Color		Dk Blue	Camel	Charcoal	Dk Red	Slvr.Gray
MODEL		SEAT TYPE				
1YY87	Leather Bucket	ADD2	ACC2	AJJ2	ARR2	ALL2
	Cloth Bucket	HDD2	HCC2		HRR2	HLL2

WITH D84 CUSTOM TWO-TONE PAINT (Accent Color Must be Specified) (D60 NON-RECOMMENDED COLOR COMBINATION NOT PERMITTED)

Exterior Paint Color	Color Code		Accent Color and Ordering Code #	Dk Blue	Camel	Charcoal	Dk Red	Slvr.Gray
	L	U						
Beige	50	50	Dk Bronze (Met) 74M		R			
Claret (Met)	80	80	Dk Claret (Met) 98M		A		R	A
Silver (Met)	33	33	Dk Blue (Met) 38M	R				A
Silver (Met)	33	33	Charcoal (Met) 39M			R	A	R

= Must be Ordered

WITHOUT D84 CUSTOM TWO-TONE PAINT

PLEASE NOTE: Orders for additional Interior Trim combinations may be submitted, provided the dealer orders (D60), as verification that the requested combination is definitely desired.

Beige, Corvette	50	50		R	R	R	R	
Blue, Corvette Dark (Met)	38	38		R				R
Bronze, Corvette Dark(Mt)	74	74			R			
Charcoal, Corvette (Met)	39	39			R	R	R	R
Claret, Corvette (Met)	80	80			R		R	R
Claret, Corvette Dark(Mt)	98	98			R		R	R
Silver, Corvette (Met)	33	33		R		R	R	R

L = Lower U = Upper

PIN STRIPING WITH D84 CUSTOM TWO-TONE PAINT

Exterior Paint Color	Color Code		Accent Color and Ordering Code	Stripe (Included)
	L	U		
Beige (Met)	50	50	Dk Bronze (Met) 74M	Gold
Claret (Met)	80	80	Dk Claret (Met) 98M	Red
Silver (Met)	33	33	Dk Blue (Met) 38M	Blue
Silver (Met)	33	33	Charcoal (Met) 39M	Gray

L = Lower U = Upper

POWER TEAMS (Refer to next page for option availability and application)

ENGINE OPTION CONDITION	AXLE RATIO	
	2.72	2.87
WITH NA5 STANDARD EMISSIONS		
L81 MM4	Std	—
MX1	—	Std
WITH YF5 CALIFORNIA EMISSIONS		
L81 MM4	Std	—
MX1	Std	G92

ALPHABETICAL OPTION INDEX

(Not for ordering purposes)

Option Number	Description
AU3	DOOR LOCKS: Power
A42	SEAT POWER: Six-Way
B3W	PRELIMINARY PRICE INFORMATION
CC1	ROOF PANELS: Removable Glass
C49	DEFOGGER, REAR WINDOW: Electric
DG7	MIRRORS: Sport, Electric Twin Remote
D60	NON-RECOMMENDED COLOR COMBINATION
D84	PAINT: Custom Two-Tone
FE7	SUSPENSION EQUIPMENT: Suspension, Gymkhana
F51	SHOCK ABSORBERS: Heavy-Duty
G92	AXLE REAR: Performance Ratio
K35	SPEED CONTROL WITH RESUME SPEED: Automatic
L81	ENGINE: 5.7 Liter 4 BBL V8
MM4	TRANSMISSION: 4-Speed Manual
MX1	TRANSMISSION: Automatic
NA5	EMISSION SYSTEM: Standard Emission Equipment
N90	WHEELS, ALUMINUM
QGQ	TIRES: P225/70 R-15 B/W (Radial)
QGR	TIRES: P225/70 R-15 W/L (Radial)
QXH	TIRES: P255/60 R-15 W/L (Radial)
UL5	RADIO EQUIPMENT: Radio Delete
UM4	RADIO EQUIPMENT: Electronically Tuned Stereo Radio with 8-Track
UM5	RADIO EQUIPMENT: Electronically Tuned Stereo Radio with C.B. and 8-Track
UM6	RADIO EQUIPMENT: Electronically Tuned Stereo Radio with Cassette Tape
UN5	RADIO EQUIPMENT: Electronically Tuned Stereo Radio with C.B. and Cassette Tape
U58	RADIO EQUIPMENT: AM/FM Stereo Radio
U75	RADIO EQUIPMENT: Power Antenna
V54	CARRIER: Roof Panel
YF5	EMISSION SYSTEM: California Emission Requirements
ZN1	CHASSIS EQUIPMENT, TRAILERING

CORVETTE

REFER WEEKLY STOPS/LATEST UPDATE

MODEL
1YY87 Corvette Coupe

EMISSION SYSTEMS: MUST ORDER ONE (See Power Teams)

_____ NA5 STANDARD EMISSION EQUIPMENT

_____ YF5 CALIFORNIA EMISSION REQUIREMENTS

ENGINES: MUST ORDER ONE

AVAILABLE WITH NA5 STANDARD EMISSION EQUIPMENT
_____ L81 5.7 Liter 4 BBL V8

AVAILABLE WITH YF5 CALIFORNIA EMISSION REQUIREMENTS
_____ L81 5.7 Liter 4 BBL V8

✓ QUICK-SPEC

IF TIRE AND/OR TRANSMISSION IN QUICK-SPEC IS NOT DESIRED YOU MUST "PLUS" ANOTHER TIRE AND/OR TRANSMISSION OPTION.	6	6
Defogger, Rear Window Electric	C49	x x
Door Locks, Power	AU3	x x
Radio, Electronically Tuned Stereo w/8 Track	UM4	x N/I
Speed Control with Resume Speed (with MX1 Trans only)	K35	x x
Tires, P225/70 R-15 W/L	QGR	x N/I
Transmission, Automatic	MX1	x x
Wheels, Aluminum	N90	x x
Mirrors, Electric Twin Remote, Sport	DG7	x
Power Antenna	U75	x
Radio, Electronically Tuned Stereo w/Cassette Tape	UM6	x
Roof Panels, Removable Glass	CC1	x
Seat, Power	A42	x
Tires, P255/60 R-15 W/L	QXH	x

✓ PLEASE REVIEW OPTION RESTRICTIONS BEFORE ORDERING

Q.S.	OPTION
_____	G92 AXLE, REAR: Performance Ratio (See Power Teams Chart) (Reqs MX1 Trans and YF5 Calif)
_____	V54 CARRIER: Roof Panel
_____	ZN1 CHASSIS EQUIPMENT, TRAILERING: (Reqs MX1 Trans) (Incls FE7 Susp and HD Cooling)
615	C49 DEFOGGER, REAR WINDOW: Electric
615	AU3 DOOR LOCKS, POWER
616	DG7 MIRRORS: Sport, Electric Twin Remote
_____	B3W PRELIMINARY PRICE INFORMATION
_____	RADIO EQUIPMENT:
_____	U58 AM/FM Stereo Radio
615	UM4 Electronically Tuned Stereo Radio w/8-Track
_____	UM5 Electronically Tuned Stereo Radio w/C.B. and 8-Track
616	UM6 Electronically Tuned Stereo Radio w/Cassette Tape
_____	UL5 Radio Delete
_____	UN5 Electronically Tuned Stereo Radio w/C.B. and Cassette Tape
616	U75 Power Antenna (N/A UL5 Radio Delete, UM5 or UN5 Radio)
616	CC1 ROOF PANELS: Removable Glass
616	A42 SEAT, POWER: Six-Way (Driver's side only)
615	K35 SPEED CONTROL WITH RESUME SPEED: Automatic (Reqs MX1 Trans)
_____	SUSPENSION EQUIPMENT:
_____	FE7 Suspension, Gymkhana, Front and Rear (Incl with ZN1 Chassis Equip)
_____	F51 Shock Absorbers, Heavy-Duty (N/A ZN1 Chassis Equip or FE7 Susp)
_____	TIRES: (B/W: Blackwall, W/L: White Lettered)
_____	QGO Steel Belted Radial Ply
615	QGR P225/70 R-15 B/W (Base)
616	QXH P225/70 R-15 W/L
_____	P255/60 R-15 W/L
_____	TRANSMISSIONS: (See Power Teams Chart)
_____	MM4 4-Speed Manual
615	MX1 Automatic
615	N90 WHEELS, ALUMINUM



1

1



CORVETTE ENGINE SERIES NUMBER AND SUFFIX CHART (Cont.)

V11

1981

Engine	Cu. In. Disp.	Comp. Ratio	Bore	Stroke	Carburetor	Transmission
Turbo-Fire 350 V-8	350	9.0:1	4.0"	3-31/64"	4-Barrel	4-Spd. (2.88 Low) (M18)

1981

- 350-6 (L81) M.T., Fed. ZDA
- 350-6 (L81) A.T., Calif. ZDB
- 350-6 (L81) M.T., Calif. ZDC
- 350-6 (L81) A.T., Fed. ZDD

1981 TRANSMISSION IDENTIFICATION CODE

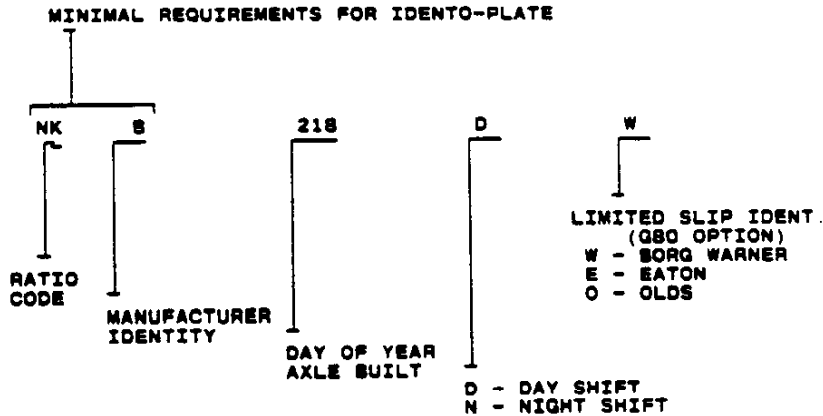
M18-4 SPD. MAN.
CC

MX3 — 3 SPD. A.T.
8JD

REAR AXLE FIELD IDENTIFICATION

Axes are manufactured by Buick Chevrolet Buffalo Chevrolet Warren Chevrolet Gear and Axle Oldsmobile Pontiac and McKinnon Divisional Manufacturer code letters will be metal stamped on the axle tube adjacent to the carrier for field identification (See example) Metal stamped on right front inboard side letters and numerals 1/4" high 3" outboard of carrier or are located on a metal tag attached to cover bolt Reference should be made to divisional service manuals for location on some models

FIELD IDENTIFICATION



MANUFACTURER IDENTITY

- B - BUICK
- O - OLDSMOBILE
- P - PONTIAC
- M - PONTIAC/CANADA
- G - CHEVROLET GEAR AND AXLE
- C - CHEVROLET BUFFALO
- K - GM OF CANADA, ST. CATHERINES (MCKINNON)
- W - CHEVROLET WARREN

MANUFACTURERS IDENTIFICATION WILL APPEAR IN THE DESCRIPTION COLUMN OF CATALOG

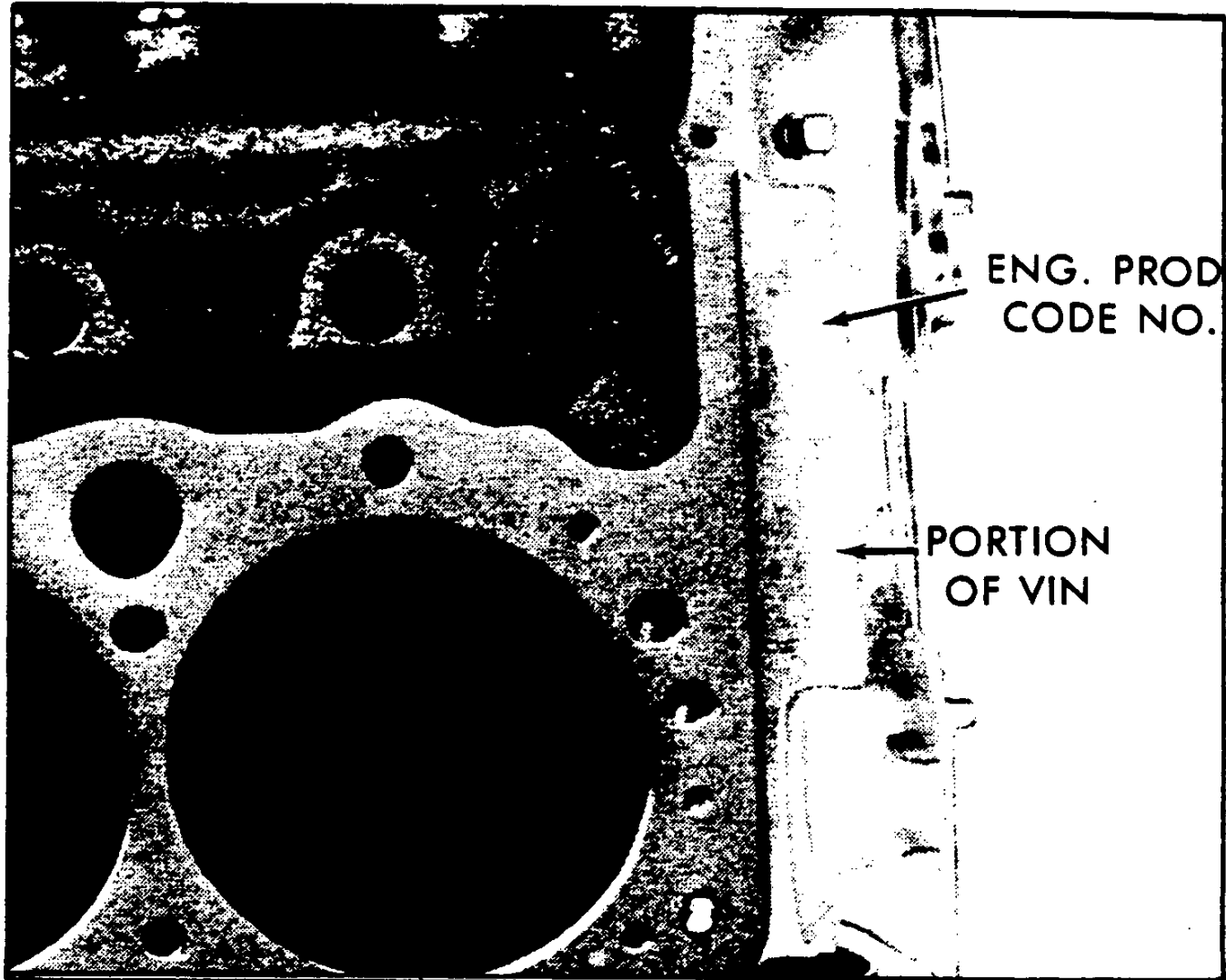
CORVETTE REAR AXLE IDENTIFICATION (Cont.)

V20

Type	Plant Identification	Type	Plant Identification
1981			
Positraction (2.87 Ratio) w/A.T.	OJ	Positraction (2.72 Ratio) w/M.T.	OK



Eight Cylinder (Gas V-8) — all except 366 and 454 C.I.D. V-8's stamped on pad immediately forward of right hand cylinder head. 366 and 454 C.I.D. V-8's stamped on pad at front top center of engine block immediately forward of the inlet manifold.



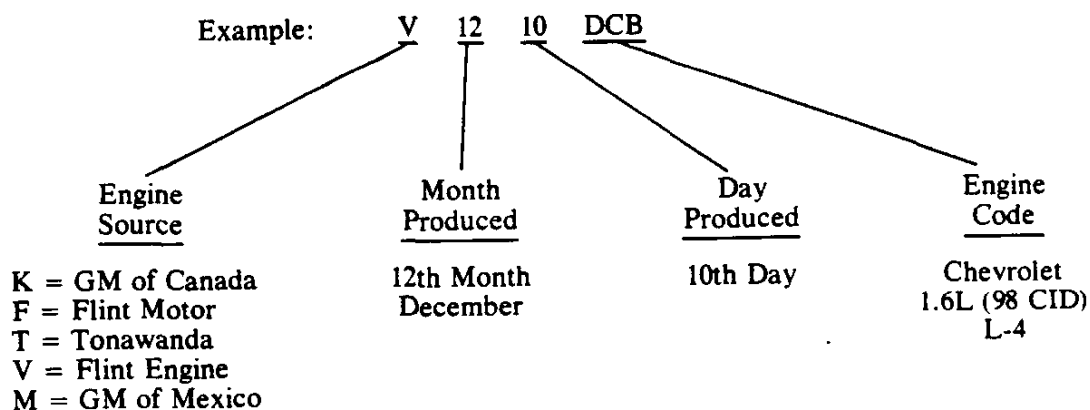


ENGINE ASSEMBLY

1981 PASSENGER CAR ENGINE PRODUCTION CODE EXPLANATION

Chevrolet produced engines will be stamped with a source, production date and engine suffix. Other General Motors produced engines used in Chevrolet vehicles will use a label affixed to the engine assembly. A complete list of all alpha codes used, regardless of manufacturer, appear in chart form on page 7. (For specific locations see engine code locations below.)

CHEVROLET ENGINE PRODUCTION CODE



ENGINE CODE LOCATIONS

L-4 1.6L (98 CID) (Chevette)

The code is stamped on a pad on the right side of the engine below the number one cylinder parallel to the cylinder case deck.

L-4 2.5L (151 CID) (Monza)

The code is stamped on a boss, distributor side, rearward of the distributor.

L-4 2.5L (151 CID) (Citation)

The code is on a sticker placed on the timing gear cover and is also stamped on the block, water pump end, just below the cylinder head. This is a two letter alpha code indicating engine type.

V-6 2.8L (173 CID) (Citation)

The code is stamped on a horizontal machined surface on the block just forward of the intake manifold.

V-6 3.8L (231 CID) (Front Mounted Distributor)

Located on the front face of the left rocker cover on a paper label.

V-6 3.8L (229 CID) (Rear Mounted Distributor)

Located on cylinder case pad immediately forward of the right cylinder head.

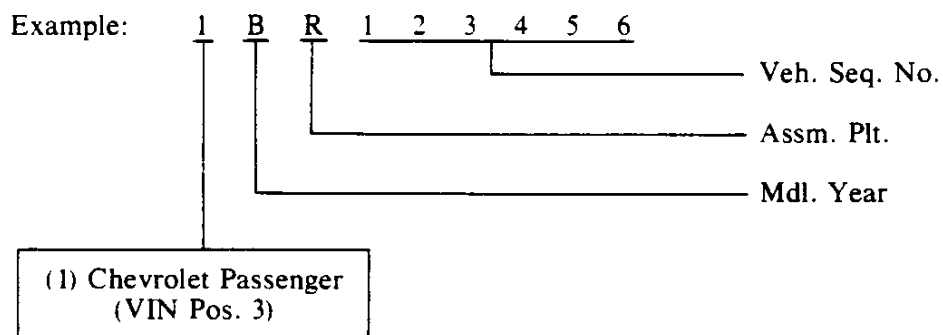
V-8 5.7L (350 CID) (Diesel)

The code is on a label located on rear face of left valve cover (see page 00 for example).

V-8 4.4L (267 CID), 5.0L (305 CID), 5.7L (350 CID)

Located on cylinder case pad immediately forward of the right cylinder head.

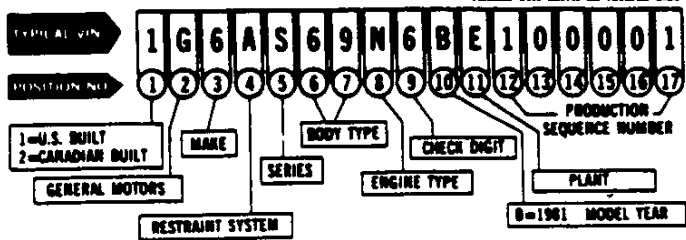
NOTE: In addition, all passenger car engines (except 3.8L, 231 CID) will have a portion of the vehicle identification number stamped near the engine production code, usually near the right hand side of the cylinder case. This condensed identification number consists of the division number, model year, assembly plant designation, and vehicle build sequence number.





1981 PASSENGER CAR VIN SYSTEM

TRUCK VIN DATA on reverse side



3 MAKE

- 1-Chevrolet
- 2-Pontiac
- 3-Oldsobile
- 4-Buick
- 5-Cadillac
- 6-GM of Canada

5 CARLINE/SERIES

- CHEVROLET**
- B - Chevette
 - J - Chevette Scooter
 - L - Impala
 - N - Caprice Classic
 - P - Camaro
 - S - Camaro Berlinaetta
 - T - Malibu
 - W - Malibu Classic
 - X - Citation
 - Y - Corvette
 - Z - Monte Carlo
- PONTIAC**
- D - LeMans
 - F - Grand LeMans
 - J - Grand Prix
 - K - Grand Prix LJ
 - L - Catalina
 - N - Bonneville
 - P - Grand Prix Brougham
 - R - Bonneville Brougham
 - S - Firebird
 - T - Firebird Esprit
 - V - Firebird Formula
 - W - Firebird Trans Am
 - Y - Phoenix
 - Z - Phoenix LJ
- OLDSMOBILE**
- B - Omega
 - E - Omega Brougham
 - G - Cutlass
 - H - Cutlass Brougham Cruiser
 - K - Cutlass Catala
 - L - Delta 88
 - M - Cutlass Supreme Brougham
 - N - Delta 88 Royale
 - P - Custom Cruiser
 - R - Cutlass Supreme
 - V - 98 Luxury
 - W - 98 Regency Brougham
 - X - 98 Regency
 - Y - Delta 88 Royale Brougham
 - Z - Toronado Brougham
- BUICK**
- B - Skylark
 - C - Skylark Limited
 - D - Skylark Sport
 - E - Century Wagon
 - H - Century
 - J - Regal
 - K - Regal Sport
 - L - Century Limited
 - M - Regal Limited
 - N - LeSabre
 - P - LeSabre Limited
 - R - LeSabre Estate
 - V - Electra Estate
 - W - Electra Park Avenue
 - X - Electra Limited
 - Y - Riviera T
 - Z - Riviera
- GM CANADA ONLY**
- B - Acadian
 - D - Bel Air
 - F - Laurentian
 - J - Acadian S
 - N - Parisienne
- CADILLAC**
- B - Fleetwood Brougham
 - D - DeVille
 - F - Fleetwood Limo
 - L - Eldorado
 - S - Seville

4 RESTRAINT SYSTEM

- A - Restraints/manual belts
- B - Restraints/automatic belts
- C - Restraints/inflatable

6-7 BODY TYPE

- 07 - Coupe 2 Door Hatchback
- 08 - Sedan 2 Door Hatchback
- 23 - Sedan 4 Door Aux Seat
- 27 - Coupe 2 Door Hatchback
- 33 - Sedan 4 Door Aux Seat Clr. Pt.
- 35 - Station Wagon 4 Door
- 37, 67, 97 - Coupe 2 Door Hatchback Special
- 68 - Sedan 4 Door Flareback Hatchback
- 69 - Sedan 4 Door Hatchback
- 87 - Coupe 2 Door Flareback Special

8 ENGINE TYPE

CODE	DISP	POWER	CLASS	RESTRAINT	ENGINE	TRANSMISSION	DRIVE
A	3.0L	200L	1 2 3 4 7				4
B	5.7L	400L	6				4
D	1.0L	DIESEL	1 7			15AUZ	
F	4.3L	200L	3				3
H	5.0L	400L	1 2 3 4 7				1 7
I	4.4L	200L	1 2 3 4 7				1 7
K	3.0L	200L	1 2				1 7
L	5.7L	400L	1				1
M	5.7L	DIESEL	1 2 3 4 6 7				3
S	4.3L	200L	2 4 7				2
T	4.0L	400L T					2
W	4.0L	400L	2 7				2
X	7.0L	200L	1 2 3 4				1
Y	5.0L	400L	7 3 4				3
Z	2.0L	200L					1
3	3.0L	400L T	1 4				4
4	4.1L	400L	3 4 6				4
5	2.5L	200L	1 2 3 4				2
6	5.7L	400L					1
9	1.6L	200L	1 7				
9	6.0L	DFI	6				6
9	6.0L	400L	6				6

DFI=DIGITAL FUEL INJECTION
T=TURBOCHARGED

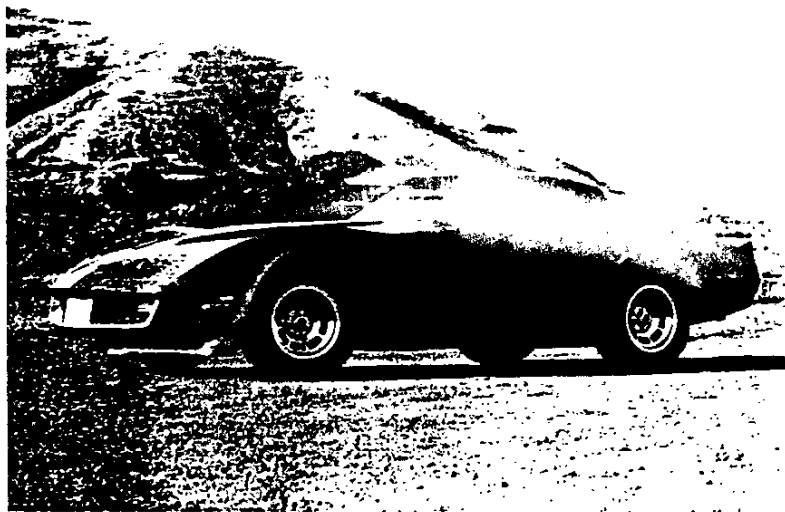
11 PLANT

PLANT	STATE	PLANT	STATE	PLANT	STATE	PLANT	STATE	PLANT	STATE		
A	Lansford	CA	M	Flint	MI	B	Warren	MI	2	Flint	MI
B	Baltimore	MD	I	Lansford	MI	S	St. Louis	MO	8	Pontiac	MI
C	Sault Ste. Marie	CA	E	Leeds	MO	T	Tarboro	NC	1	Dubuque	IA
D	Durham	NC	L	Van Nuys	CA	V	Warren	MI	2	St. Thomas	VI
E	London	MI	W	Lansford	MI	W	White Run	MI	3	Detroit	MI
F	Flint	MI	W	Riverside	OH	Z	Tarboro	NC	4	Scarborough	ON
G	Framingham	MA	P	Pontiac	MI	Y	Warren	MI	5	Banning Green	MI

The information shown is correct at time of printing, but may be changed during model year.



1981 CORVETTE



1981 Corvette
Length: 185.3 inches
Width: 69.0 inches
Height: 48.0 inches
Curb Weight: 3,307 pounds
Wheelbase: 98 inches
Tire Size: P225/70R15
Track: 58.7 inches front, 59.5 inches rear

Chevrolet photo



BLACK BOOK ORDER FORM

Send _____ copies of the

Corvette Black Book 1953-1992

@ \$11.95 each \$ _____

Ohio residents add .72 sales tax _____

Postage/hard shipping container 3.00

Check or money order enclosed \$ _____

Name _____

Street _____

City _____ State _____ Zip _____

Mail Order To: **Michael Bruce Associates, Inc.**
Post Office Box 396
Powell, Ohio 43065

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City _____ State _____ Zip _____

Mail Order To: **Michael Bruce Associates, Inc.**
Post Office Box 396
Powell, Ohio 43065



1981 CORVETTE

Production: 40,606 coupes

1981 NUMBERS

Vehicle: 1G1AY8764BS400001 thru 1G1AY8764BS431611 (St Louis)
1G1AY8764B5100001 thru 1G1AY8764B5108995 (B-Green)
• Ninth digit is a check code and varies.

Suffix: ZDA: 350ci, 190hp, mt ZDC: 350ci, 190hp, mt, ce
ZDB: 350ci, 190hp, at, ce ZDD: 350ci, 190hp, at

Block: 14010207: All

Head: 462624: All

Carburetor: Rochester Q-jet #1701 317: 350ci, 190hp, mt
Rochester Q-jet #1708 317: 350ci, 190hp, at, ce
Rochester Q-jet #17081228 350ci, 190hp, at

Distributor: 1103443: All

Alternator: 1101075, 1101085, 1103088, 1103091, 1103103

Abbreviations: at=automatic transmission, ce=california emissions,
ci=cubic inch, hp=horsepower, mt=manual transmission.

1981 FACTS

- The 1981 Corvette was the first model year to be built simultaneously in two locations. The first Corvette was completed at the new Bowling Green, Kentucky, assembly line on June 1, 1981. The last Corvette to be built at St. Louis was completed on August 1, 1981.
- Although there were no engine options for 1981, the base 350ci, 190hp L81 engine was certified for sale in California, and was available in all states including California with both 4-speed manual and automatic transmissions.
- Exterior styling carried over from 1980, but emblems did change slightly.
- The tubular stainless steel exhaust manifolds, used for 1980 Corvettes sold in California with the LG4 305ci engine, were standard with the 1981 base engine.
- Chevrolet's "computer command control" used on 1980 Corvettes sold in California became standard equipment on all 1981 Corvettes. The system automatically adjusted ignition timing and air-fuel mixture.
- Chevrolet introduced a fiberglass-reinforced monoleaf rear spring for 1981 Corvettes equipped with automatic transmissions and standard suspensions. The plastic spring weighed eight pounds compared to forty-four pounds for the steel unit it replaced.
- The anti-theft alarm system was improved in 1981 by the addition of an ignition interrupt to prevent engine start.
- All 1981 valve covers were magnesium for weight reduction.
- For improved fuel economy, 1981 Corvettes with automatic transmissions had torque converter clutches for second and third gears.
- A detail change to the 1981 Corvette interior was the color-keying of the headlamp and windshield wiper switch bezels to the interior color. In 1980, they were black regardless of interior color.
- The 1981 Corvette was the last model to have a manual transmission available until well into the 1984 production year.
- The St. Louis Corvette assembly plant continued to use lacquer paints through the end of 1981 production in that facility. Meanwhile in Bowling Green, a new paint process was developed which used enamel basecoats followed by clear topcoats.
- A power driver seat became available in Corvettes for the first time in 1981 as RPO A42. It was not available for the passenger side.

1981 OPTIONS

RPO#	DESCRIPTION	QTY	RETAIL \$
1YY87	Base Corvette Sport Coupe	40,606	\$16,258.52
AU3	Power Door Locks	36,322	145.00
A42	Power Driver Seat	29,200	183.00
CC1	Removable Glass Roof Panels	29,095	414.00
C49	Rear Window Defogger	36,893	119.00
DG7	Electric Sport Mirrors	13,567	117.00
D84	Two-Tone Paint	5,352	399.00
FE7	Gymkhana Suspension	7,803	57.00
F51	Heavy Duty Shock Absorbers	1,128	37.00
G92	Performance Axle Ratio	2,400	20.00
K35	Cruise Control	32,522	155.00
MM4	4-Speed Manual Transmission	5,757	0.00
N90	Aluminum Wheels (4)	36,485	428.00
QGR	White Letter SBR Tires, P225/70R15	21,939	72.00
QXH	White Letter SBR Tires, P255/60R15	18,004	491.92
UL5	Radio Delete	315	-118.00
UM4	AM-FM Radio, etr stereo with 8-track	8,262	386.00
UM5	AM-FM Radio, etr stereo with 8-track/CB	792	712.00
UM6	AM-FM Radio, etr stereo with cassette	22,892	423.00
UN5	AM-FM Radio, etr stereo with cassette/CB	2,349	750.00
U58	AM-FM Radio, stereo	5,145	95.00
U75	Power Antenna	32,903	55.00
V54	Roof Panel Carrier	3,303	135.00
YF5	California Emission Certification	4,951	46.00
ZN1	Trailer Package	916	110.00

• A 350ci, 190hp engine, 4-speed manual transmission or automatic transmission, T-tops, and leather/vinyl or cloth/vinyl interior trim were included in the base price.

• There were no optional Corvette engines in 1981.

• All optional radios except U58 were new style Delcos with electronic tuned receivers (etr). Available with 8-track, 8-track plus citizens band, cassette, or cassette with citizens band, the radios featured digital station tuning readout and had built-in clocks. If a 1981 Corvette had one of these radios, the standard quartz instrument panel clock was replaced with an oil temperature gauge.

1981 COLORS

CODE	EXTERIOR	QTY	WHEELS	INTERIORS
06	Mahogany Metallic	1,092	Silver	Cm-Dr
10	White	6,387	Silver	Ch-Cm-Db-Dr-Mr-Sg
13	Silver Metallic	2,590	Silver	Ch-Db-Mr-Sg
19	Black	4,712	Silver	Ch-Cm-Dr-Mr-Sg
24	Bright Blue Metallic	1	Silver	Ch-Cm-Db-Sg
28	Dark Blue Metallic	2,522	Silver	Cm-Db-Mr-Sg
52	Yellow	1,031	Silver	Ch-Cm
59	Beige	3,842	Silver	Cm-Db-Dr-Mr
75	Red	4,310	Silver	Ch-Cm-Mr-Sg
79	Maroon Metallic	1,618	Silver	Ch-Cm-Mr-Sg
84	Charcoal Metallic	3,485	Silver	Ch-Cm-Mr-Sg
33/38	Silver/Dark Blue	—	Silver	Db-Sg
33/39	Silver/Charcoal	—	Silver	Ch-Sg
50/74	Beige/Dark Bronze	—	Silver	Cm
80/98	Autumn Red/Dark Claret	—	Silver	Dr-Sg

• Suggested interiors shown. Other combinations were possible.

• Color quantities shown are for St. Louis production and should not be relied upon as exact because the total is 21 less than actual production. All two-tone combinations were painted at the new Bowling Green facility and precise paint quantity records are not currently available.

• **Interior Codes:** 152=Sg/L, 19C=Ch/C, 192=Ch/L, 29C=Db/C, 292=Db/L, 64C=Cm/C, 642=Cm/L, 67C=Dr/C, 672=Dr/L, 752=Mr/L.

• **Abbreviations:** C=Cloth, Ch=Charcoal, Cm=Camel, Db=Dark Blue, Dr=Dark Red, L=Leather, Mr=Medium Red, Sg=Silver Gray.

1981 CORVETTE



Corvette Coupe

Corvette	Model No.
Coupe	1YY87

Index

Corvette Value Features for 1981	2-4	Optional Equipment	9
Corvette Coupe	5	Power Teams	10
Interior Features	6	Body Features	11
Instrument Panel Features	7	Dimensions/Specifications	12
Color and Trim Combinations	7	Color & Trim Selections	13-15
Equipment Summary	8		

Also see Value Features and Option Features sections for additional details.

See Dealer Order Guide for latest available information.

Corvette/1

CORVETTE VALUE FEATURES FOR 1981

New Features for 1981 shown in Bold Face

ENGINE/CHASSIS

- 5.7 Liter 4-Bbl. V8 engine *standard*
- Automatic transmission or four-speed fully synchronized manual transmission *standard*
- High Energy Ignition system
- **New fiberglass-reinforced Monoleaf rear spring now standard with automatic transmission. This design eliminates interleaf friction to help reduce ride harshness. The steel multi-leaf spring is retained with manual transmission and optional Gymkhana suspension**
- Automatic transmission now has converter clutch feature in 2nd and 3rd gears
- Advanced Computer Command Control emission system now *standard*
- Lightweight magnesium valve rocker covers in black with bright ribbed surface now *standard*
- New, chrome-plated air cleaner cover
- New stainless-steel, free-flow exhaust manifolds weigh approximately 14 pounds less than the previous cast iron
- New auxiliary electric fan cuts in if supplemental cooling is needed; allows a smaller fan with fewer, lower pitched blades for reduced fan drag and quieter operation
- Sturdy frame structure with corrosion-resistant coating
- Energy-absorbing honeycomb cushion front bumper system
- Energy-absorbing rear bumper system with hydraulic cylinders
- Four-wheel power disc brakes
- Limited-slip differential
- Fully independent four-wheel suspension system *standard*
- Power steering *standard*

- Exhaust valve rotators
- **More reliable Delco Freedom II battery that never needs refilling standard. Sealed side terminals help prevent corrosion**
- Delcotron generator with built-in solid-state regulator
- Hydraulic valve lifters *standard*
- Large-diameter front stabilizer
- P225/70R-15 steel-belted radial ply blackwall tires *standard*
- Wide 15" x 8" wheels *standard*
- Long recommended service intervals (as specified in Owner's Manual) for oil change, oil filter, spark plugs, lubrication and automatic transmission fluid

BODY/EXTERIOR

- **Improved standard anti-theft system. A starter-interrupt feature disables starting circuit if forced entry is made. This disablement occurs even if the ignition switch is bypassed. The system is armed by using the manual or power door control on driver's door while the door is open. (Driver's door key lock is used to disarm system)**
 - Tinted glass *standard*
 - Dual remote control sport mirrors *standard*
 - Concealed dual-speed electric windshield wipers with integral washers in wiper arms *standard*
 - Power-operated retractable headlamps with halogen hi-beam inner units *standard*
 - Corrosion-resistant steel-reinforced fiberglass body with partial steel underbody
- ## INTERIOR
- **Headlamp and windshield wiper switch bezels molded in interior color, instead of the previous black appearance**
 - **A quartz crystal-movement clock is now standard. This is a**

- more durable and accurate timepiece than conventional mechanical-movement clocks.**
- **New extended-range rear speakers are now included with all optional stereo radios.**
- Choice of cloth and vinyl or leather and vinyl seat trim
- Air conditioning *standard*
- Power windows *standard*
- Tilt-Telescopic leather-wrapped steering wheel *standard*
- Tachometer *standard*
- AM/FM radio *standard* (may be deleted for credit)
- Voltmeter, oil pressure, fuel and temperature gages *standard*
- Trip odometer *standard*
- Console-mounted parking brake control *standard*
- Automatic seat back latches
- Roof courtesy light with time-delay and automatic door switches *standard*
- Rear luggage area with concealing roller shade

NEW OPTIONS

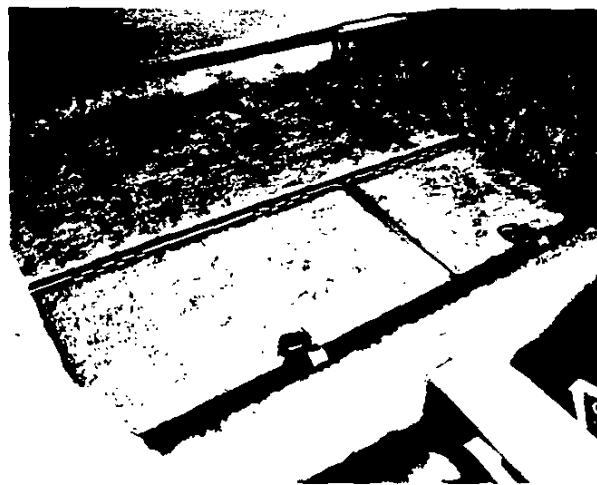
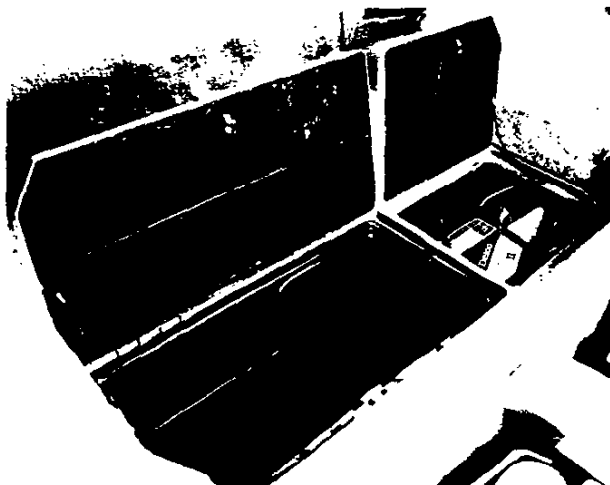
- Electronically Tuned Stereo Radio with 8-Track RPO UM4
- Electronically Tuned Stereo Radio with Cassette Tape ... RPO UM6
- Electronically Tuned Stereo Radio/Citizens Band with 8-Track ... RPO UM5
- Electronically Tuned Stereo Radio with Citizens Band and Cassette Tape RPO UN5
- Seat, Power Left Hand RPO A42
- Speed Control, Automatic w/resume speed . RPO K35
- Electric Twin Remote Sport Mirrors ... RPO DG7



Optional Electronically Tuned Stereo Radio with 8-Track



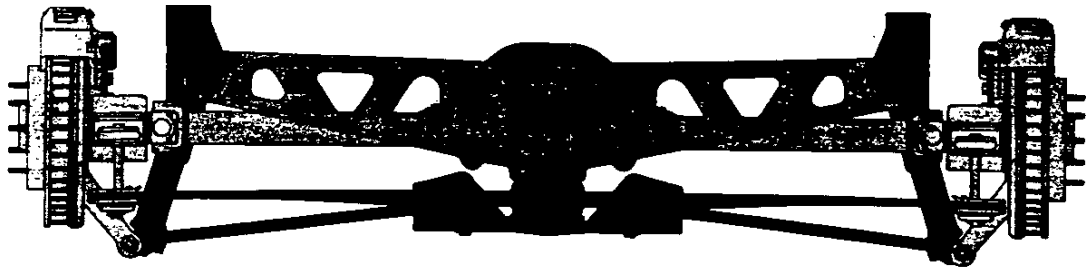
Corvette Optional Aluminum Wheels



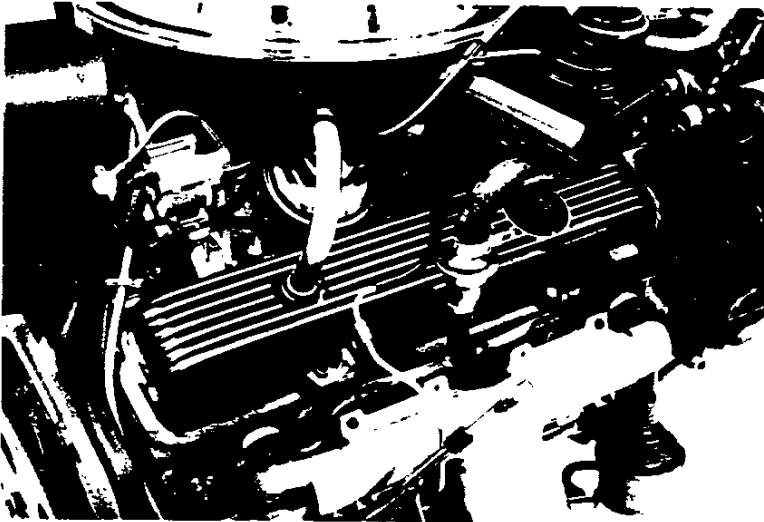
Hidden Stowage Compartment and Battery Compartment *Standard*



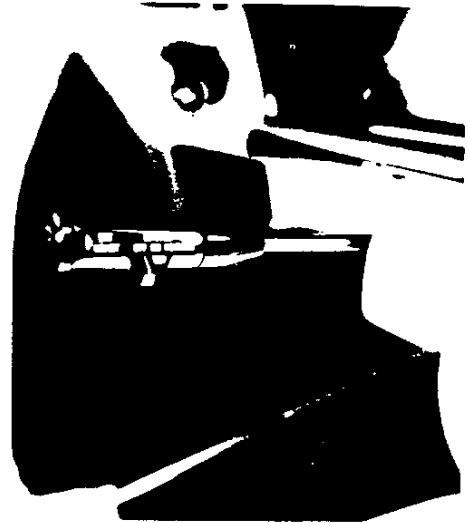
Genuine Leather-Wrapped Steering Wheel *Standard*



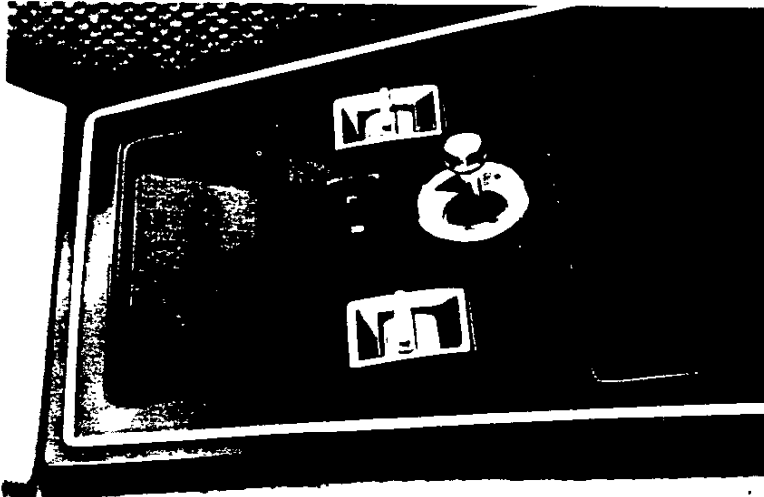
Monoleaf Fiberglass Rear Spring with Automatic Transmission *Standard*



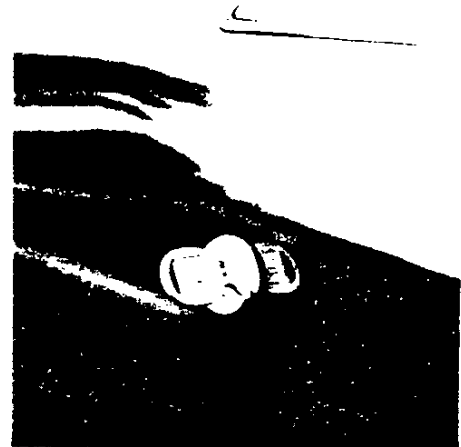
Black-Accented Magnesium Rocker Covers and Stainless Steel Exhaust Manifolds *Standard*



Optional Automatic Speed Control now has "Resume Speed" Feature



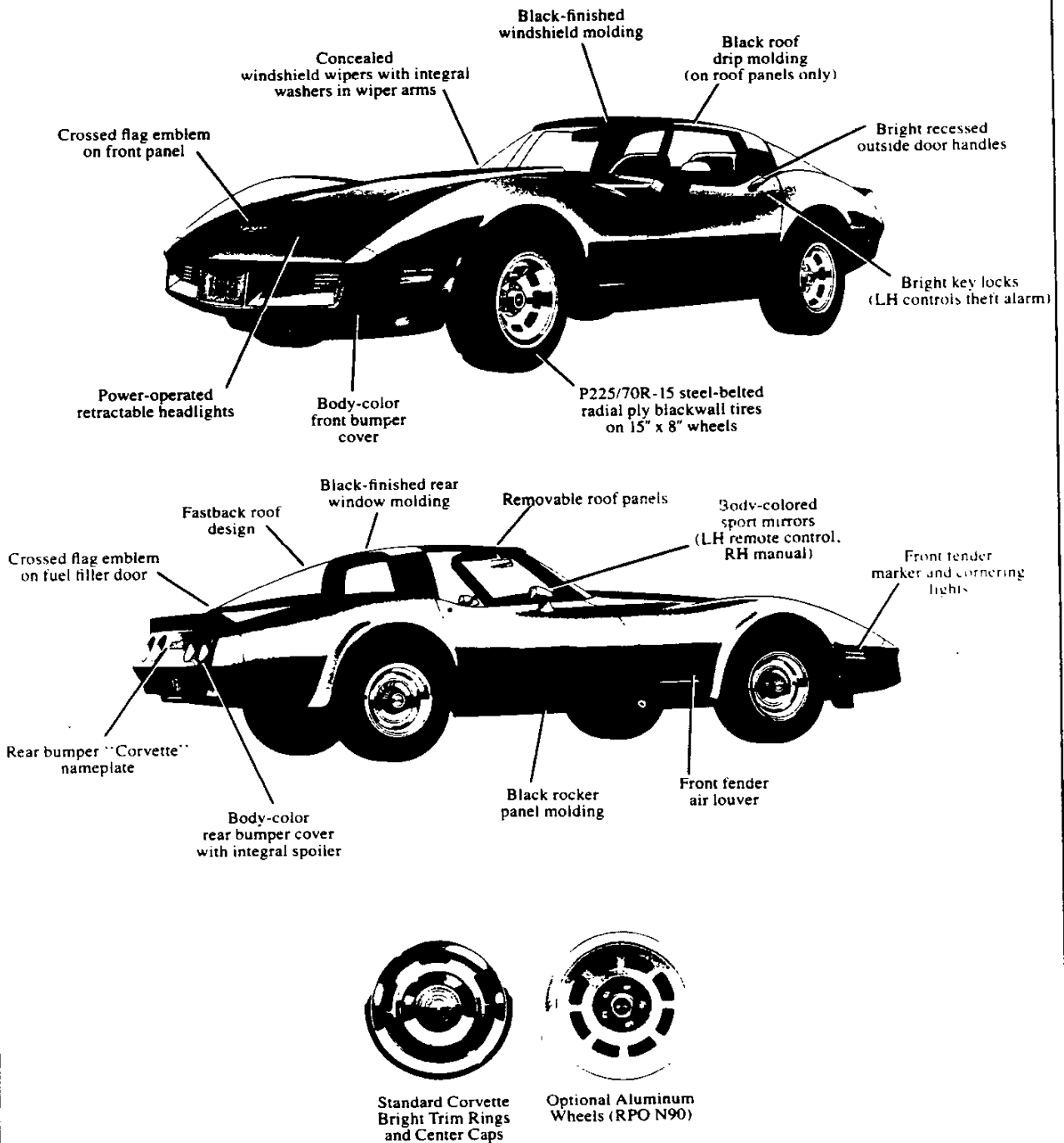
Optional Electric Twin Remote Sport Mirror Controls



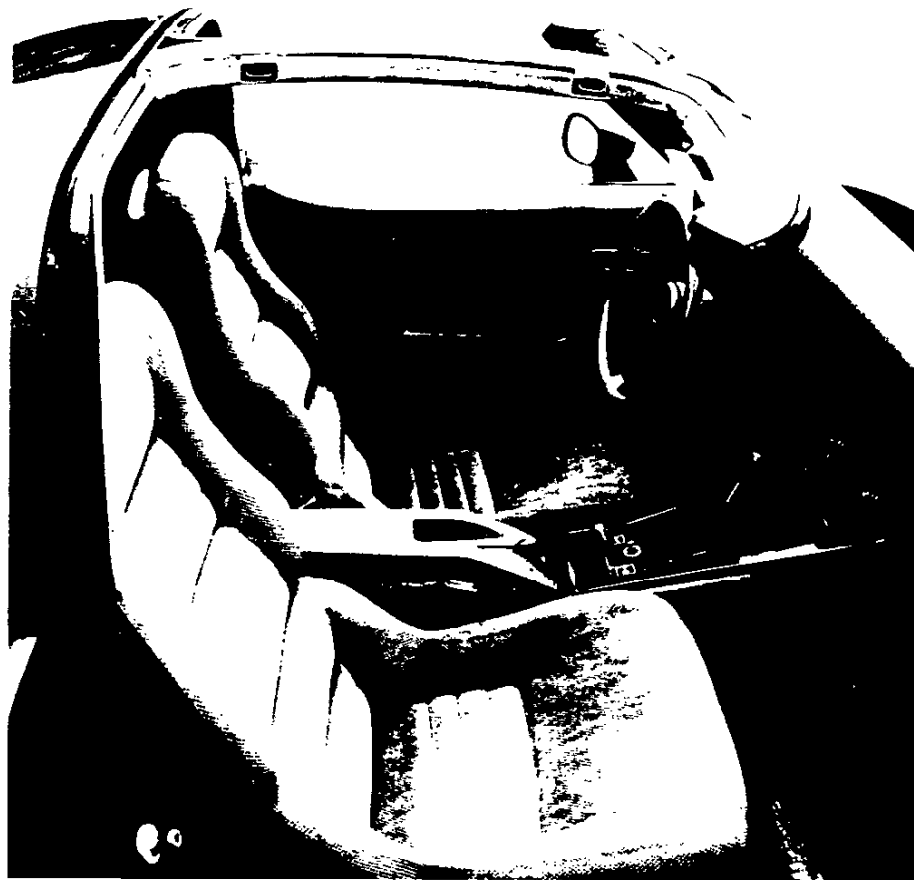
New Anti-Theft Alarm System with Starter-Interrupt Feature *Standard*

CORVETTE

Coupe



INTERIOR FEATURES

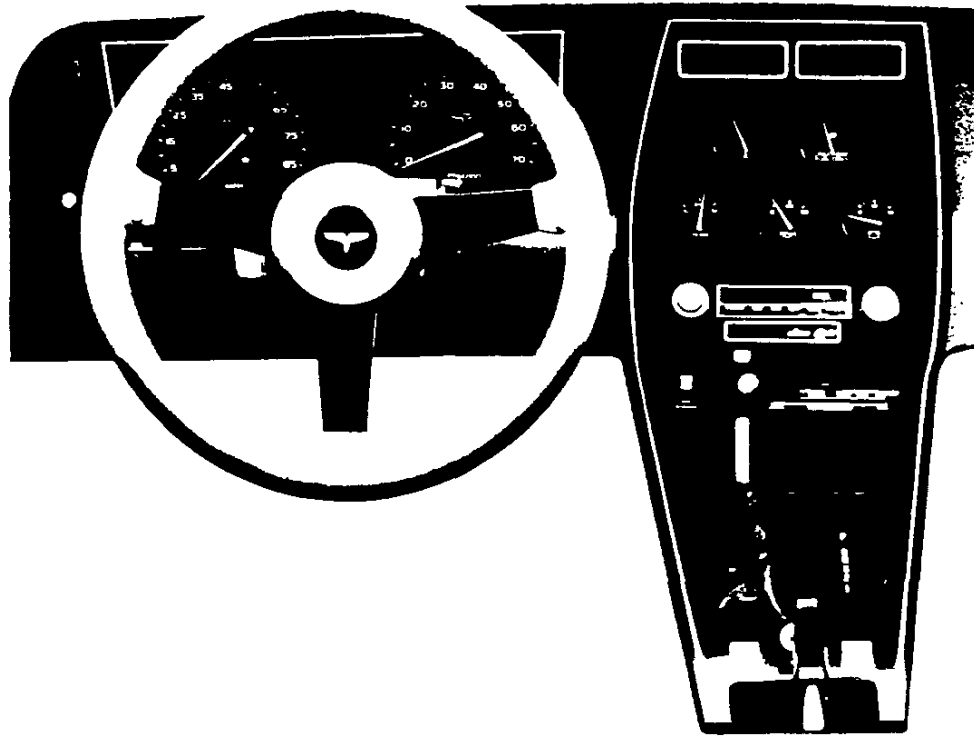


Corvette Bucket Seats Offered in Choice of Leather and Vinyl (or Cloth and Vinyl Trim Shown)

INTERIOR FEATURES

Corvette Coupe

Bucket seats with folding seat backs and inertia seat back locks	S
Forward flat-folding passenger seat back	S
Choice of leather or cloth seat trim on seating surfaces	S
Single loop seat belt system with concealed retractors	S
Color-keyed door trim panels with padded armrests, vinyl upper trim, carpeted lower kick pads, dual Sport mirror controls, and map storage pockets	S
Day night rearview mirror	S
Visor mirror, illuminated RH	S
Color-keyed instrument panel pad	S
Molded headlining with sun visor pockets	S
Center dome light between roof panels, courtesy lights under instrument panel	S
Color-keyed roof panel tie-down straps and black stowage bags	S
Color-keyed carpeting in passenger compartment and rear stowage area	S
Color-keyed floor mats	S
Luggage compartment concealment shade	S
Locking storage compartment under rear floor	S
Acoustical insulation package	S
Tinted glass (all windows)	S
Parking brake lever between bucket seats	S
S — Standard	



Corvette's Unique Instrument Panel

INSTRUMENT PANEL FEATURES

AM FM radio (may be deleted for credit)	S
Tilt-Telescopic steering column includes color-keyed, leather-wrapped 3-spoke steering wheel	S
Column-mounted lever for turn signal and headlight beam	S
Cigarette lighter in ashtray on console	S
Air conditioning and heater controls on console	S
Power window controls on console	S
Quartz Electric clock	S
7000 RPM electronic tachometer	S
Aircraft style voltmeter, temperature, oil pressure and fuel gauges	S
85 mph speedometer with trip odometer	S
Low fuel indicator	S
Headlight-on reminder buzzer	S
Intermittent windshield wiper control	S
Console mounted control for four-speed or automatic transmission	S
Bright accents on dash and console	S
Bright glove compartment door lock	S

S — Standard

Corvette Color and Trim Combinations

		INTERIOR COLORS					
		SILVER	BLACK	CAMEL	RED	RUST	DK BLUE
CORVETTE	Cloth Bucket*		X	X		X	X
	Leather Bucket**	X	X	X	X	X	X
EXTERIOR COLOR	CODE						
BEIGE	59			X	X	X	X
BLACK	19	X	X	X	X	X	
DARK BLUE (MET)	28	X		X	X		X
CHARCOAL (MET)	84	X	X	X	X		
MAROON (MET)	79	X	X	X	X		
RED	75	X	X	X	X		
SILVER	13	X	X		X		X
WHITE	10		X	X	X	X	X
YELLOW	52		X	X			

*Cloth seat cushion and seat back panels **Leather seating surfaces with vinyl side and back panels

See Dealer Order Guide for latest available information.

EQUIPMENT SUMMARY

	Corvette Coupe
EXTERIOR	
Front fender vent louvers	S
Front cornering lights	S
Dual remote outside sport mirrors	S
Retractable headlights with painted bezels	S
Body color front bumper cover with integral air dam	S
Black windshield reveal molding	S
Concealed windshield wipers with integral washers in wiper arms	S
Black rocker panel molding	S
Steel wheels with bright trim rings and center caps	S
Removable roof panels	S
Tinted glass	S
Black rear window reveal molding	S
Single outboard taillights	S
Single inboard backup lights	S
Fiberglass reinforced plastic body	S
Body color rear bumper cover with integral spoiler	S
INTERIOR	
Air conditioning	S
Power windows	S
Tilt-Telescopic steering wheel	S
Convenience Group. Includes time-delay dome and courtesy lights, headlight warning buzzer, underhood light, low fuel warning light, color-keyed floor mats, intermittent windshield wipers and RH visor vanity mirror	S
Bucket seats with folding seat backs and inertia seat back locks	S
Forward flat-folding passenger seat back	S
AM/FM radio with dual front speakers	S
85-mph speedometer with trip odometer	S
7,000-rpm electronic tachometer	S
Voltmeter, temperature, fuel and oil pressure gages	S
Quartz electric clock	S
Cigarette lighter and ashtray	S
Chrome glove compartment lock on instrument panel	S
Steering wheel with leather-wrap rim and black spokes	S
Day/night rearview mirror	S
Deep-twist floor and stowage area carpet	S
Acoustical insulation package	S
Luggage compartment concealment shade	S
POWER TEAMS/CHASSIS/MECHANICAL	
5.7 Liter 4-Bbl. V8	S
Automatic or four-speed manual transmission	S
Power steering	S
Stainless steel headers (exhaust manifolds)	S
Magnesium valve rocker covers and chrome air cleaner cover	S
Hydraulic valve lifters	S
High Energy Ignition system and a higher capacity Delco Freedom II battery with side terminals	S
Power disc brakes at all four wheels	S
P225/70R-15B steel-belted radial ply blackwall tires and 15" x 8" wheels	S
Inside hood release	S
Flow-thru ventilation system	S
Fully independent front and rear suspension	S
Sturdy frame structure with corrosion-resistant coating	S
S — Standard	

OPTIONAL EQUIPMENT

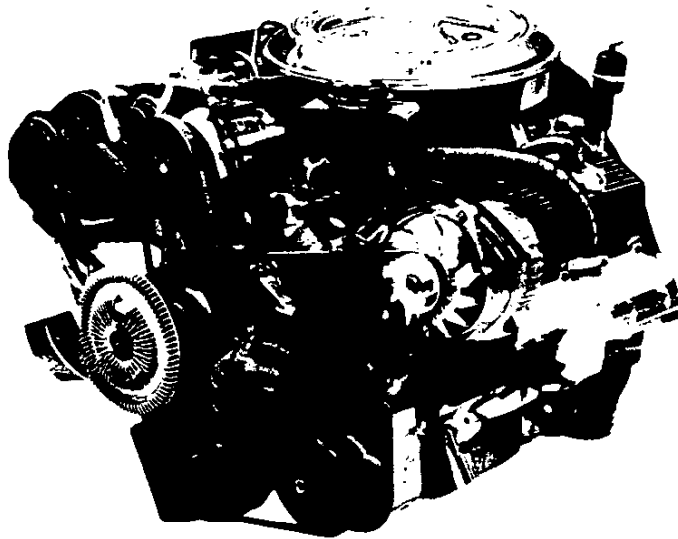
	RPO
Carrier, Roof Panel	V54
Chassis Equipment — Trailering. Includes increased cooling and Gymkhana Suspension. Available only with Automatic Transmission	ZN1
Defogger, Electric Rear Window	C49
Door Lock System, Power	AU3
Mirrors, Electric Twin Remote Sport	DG7
Radio Equipment: Includes 30" fixed height rear antenna (except with CB or Power Antenna)	
AM/FM Stereo Radio	U58
Electronically Tuned Stereo Radio with 8-Track Tape player	UM4
Electronically Tuned Stereo Radio with Cassette Tape player	UM6
Electronically Tuned Stereo/Citizens Band with 8-Track Tape player	UM5
Electronically Tuned Stereo Radio with Citizens Band and Cassette Tape	UN5
Power Antenna, NA with AM/FM Stereo/Citizens Band Radio	U75
Radio, Delete (for credit: deletes std. radio and speakers)	UL5
Seat, Power Left Hand	A42
Roof Panels, Removable Glass. Twin removable tinted glass panels	CC1
Speed Control, Automatic. Requires Automatic Transmission	K35
Suspension Equipment:	
Gymkhana. Includes rear stabilizer and bushings, higher-rate springs and special shock absorbers. Included with ZN1 chassis equipment	FE7
Shock Absorbers, Heavy-Duty. NA with Trailering Equipment or Gymkhana Suspension	F51
Tires:	
P225/70R-15 Steel-Belted Radial Ply White Lettered	QGR
P255/60R-15 Steel-Belted Radial Ply White Lettered	QXH
Transmissions:	
Four-Speed Manual. Available at no extra charge	MM4
Automatic. Available at no extra charge	MX1
Trim, Interior: (See Color and Trim Selections)	
Cloth Bucket Seat Interior. Available at no extra charge	---
Leather Bucket Seat Interior. Available at no extra charge	---
Wheels, Aluminum (four)	N90

NA — Not Available

See Dealer Order Guide for latest available information.

Corvette '9

POWER TEAMS



Standard 5.7 Liter 4-Bbl. V8 Engine

Engine	RPO No.	Power Rating*	Displacement (cubic inches)	Engine Availability	Transmissions/Rear Axle Ratios	
					Four-Speed Manual RPO MM4 Std.	Automatic RPO MX1 (1)

ALL STATES EXCEPT CALIFORNIA
(with Standard Emission System — RPO NA5)

5.7 Liter 4-Bbl. V8 (A)	L81	180	350	Std.	2.72	2.87
-------------------------	-----	-----	-----	------	------	------

CALIFORNIA ONLY
(with California Emission Requirements — RPO YF5)

5.7 Liter 4-Bbl. V8 (A)	L81	180	350	Std.	2.72	2.87
-------------------------	-----	-----	-----	------	------	------

*S.A.E. net horsepower as installed. Std. — Standard.
(1) Available in place of standard Four-Speed Manual Transmission at no extra cost.

(A) Produced by GM — Chevrolet Motor Division.

See EPA section for mileage estimates.

BODY FEATURES

Standard On 1981 Corvette

Body Structure & Features

- Sturdy frame structure with corrosion-resistant coating
- Corrosion-resistant steel-reinforced fiberglass body
- Energy-absorbing honeycomb cushion front bumper system
- Energy-absorbing rear bumper system with twin hydraulic shock absorbers
- Double-panel door and hood construction
- Tinted glass
- Anti-theft audio alarm system
- Luggage area cover shade
- Single lever roof panel locks
- Concealed dual-speed electric windshield wipers
- Power retractable headlamps with halogen hi-beam inboard units
- Acrylic finish

Chassis Features

- Power steering helps make parking and maneuvering in city traffic easy
- Power disc brakes at all four wheels
- Automatic transmission or Four-speed fully synchronized manual transmission
- Delcotron generator with built-in solid-state regulator
- High Energy Ignition system
- Coolant recovery system
- Exhaust valve rotators
- Hydraulic valve lifters

- Long recommended service intervals (as specified in Owner's Manual) for oil change, oil filter, spark plugs, chassis lubrication and automatic transmission fluid
- New, longer-life Delco Freedom II battery never needs refilling. Sealed side terminals help prevent corrosion buildup
- Front stabilizer bar
- Limited slip rear axle
- Recirculating ball steering gear with rear mounted linkage
- Fully independent front and rear suspension
- Temperature-controlled auxiliary engine radiator fan
- Early Fuel Evaporation system to hasten engine warm-up
- Tires incorporate tread wear indicator
- Direct double-acting sealed-unit hydraulic shock absorbers
- P225/70R-15 steel-belted radial ply blackwall tires and 15" x 8" wheels

Exterior Body Preparation and Paint Processes

1. Dry sand exterior body surfaces, then vacuum to remove dust.
2. Clean all surfaces with solvent.
3. Apply red rubbing putty to fill surfaces, then vacuum to remove excess putty.
4. Spray prime all exterior surfaces.
5. Bake 45 minutes at 275° F.
6. Glaze where necessary with gray putty.
7. Water sand exterior and interior surfaces and dry.
8. Glaze where necessary with gray putty.
9. Spray all exterior and interior surfaces with sealer and dry.
10. Spray acrylic finish over exterior surfaces and air dry for 3 minutes minimum (first finish coat).
11. Bake 30 minutes at 180° F.
12. Cool to room temperature and fill any minor imperfections with resin.
13. Wet sand and fill remaining imperfections with gray putty where necessary, then vacuum body.
14. Spray dark gray primer on any surfaces oversanded.
15. Repeat operation # 10 (for second finish coat).
16. Repeat operation # 10 (for third finish coat).
17. Bake 30 minutes at 180° F and cool to room temperature.
18. Mask off and spray specific areas with black finish.
19. Machine sand using mineral spirits liberally as lubricant.
20. Machine polish body to a high lustre.

DIMENSIONS/ SPECIFICATIONS

EXTERIOR DIMENSIONS

Wheelbase	98.0
Length (overall)	185.3
Width (overall)	69.0
Height (loaded)	48.0
Front tread	58.7
Rear tread	59.5
Minimum ground clearance	4.3

INTERIOR ROOMINESS

Head room	36.2
Leg room	42.1
Hip room	49.9
Shoulder room	47.5

LUGGAGE COMPARTMENT

Usable luggage space (cu. ft.)	8.4
--------------------------------	-----

FUEL TANK CAPACITY (gallons)

24.0

CURB WEIGHT (pounds)

3331

CHEVROLET NEWS



Public Relations Department • Chevrolet Motor Division
General Motors Corporation • 30007 Van Dyke Avenue
Warren, Michigan 48090 • (313) 574-884

EDITORS

September 11, 1980

FOR RELEASE _____

#8744

Chevrolet's Corvette upholds its reputation for materials innovation in 1981 with introduction of the industry's first fiberglass reinforced plastic monoleaf rear spring. Other weight reduction features are also designed to improve Corvette fuel economy.

The new spring is 33 pounds lighter than the steel multi-leaf spring it replaces. Appearing first on some Corvettes with automatic transmissions, it will be extended to the remainder of Corvette production as supplies are available.

Other 1981 Corvette weight reduction features include thinner side glass and lighter stainless steel exhaust manifolds.

Corvette for '81 offers a single engine for all 50 states -- a 5.7-liter V8 (code L81) with four-barrel quadrajet carburetion. The choice of manual or automatic transmission for all states provides California buyers with a manual unit selection for the first time in several years.

The L81 engine sports new magnesium rocker covers, stainless steel exhaust manifolds and a distinctive air breather. An auxiliary electric fan allows use of a smaller, quieter engine fan.

Rear axle ratios are 2.72 with manual transmissions and 2.87 with automatics.

-more-



Other fuel economy features involve the Computer Command Control (CCC) system, which provides more precise fuel metering plus electronic control of a torque converter clutch in both second and third speeds of the automatic transmission.

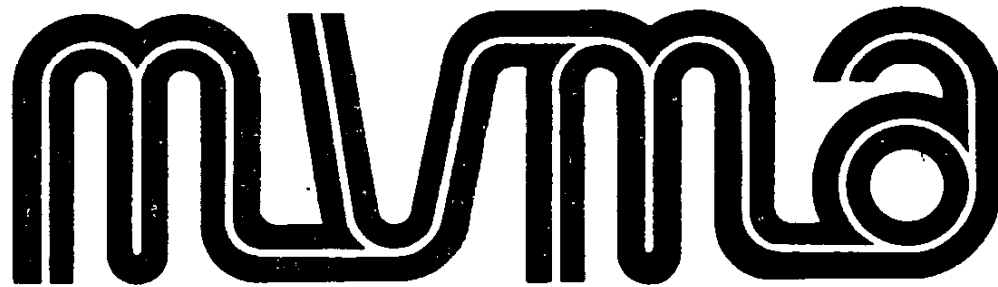
Inside the '81 Corvette, a six-way power seat is available for the first time. An electronically-tuned receiver (ETR) radio is also available with AM-FM stereo tape or cassette and citizen's band features. Extended tone-range dual rear speakers are included with all stereo radios.

A Quartz clock is standard and dual power sport mirrors are an interim production option.

The standard anti-theft alarm system has been improved through the addition of a starter interrupt feature that prevents starting the engine after any forced entry -- even when the ignition switch has been bypassed.

#





**Specifications
Form
Passenger Car**

1981

METRIC (U.S. Customary)

Manufacturer CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Car Line CORVETTE	
Mailing Address CHEVROLET ENGINEERING CENTER 30003 VAN DYKE WARREN, MICHIGAN 48090	Model Year 1981	Issued: SEPTEMBER, 1980
		Revised (*):

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown above. This specification form was developed by automobile 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 by the manufacturer

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Table of Contents

1	Car Models
2	Power Teams
3-7	Engine
7	Exhaust System
8	Fuel System
9	Cooling System
10, 11	Vehicle Emission Control
12-14	Electrical
15-17	Drive Units
18	Tires and Wheels
18, 19	Brakes
20	Steering
21	Suspension — Front and Rear
22	Body — Miscellaneous Information
22	Frame
23	Convenience Equipment
24	Vehicle Mass (Weight)
25	Optional Equipment Mass (Weight)
26-30	Car and Body Dimensions — including Fiducial Marks, Glass, Lamps and Headlamp Shape
31-35	Car and Body Dimension Key Sheets
36	Index

NOTE:

1. This form uses both SI metric units and U.S. Customary units. The Metric unit of measurement 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) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. A printed or computer tape supplement containing additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CORVETTE
Model Year 1981 Issued 9-80 Revised (*) _____
U.S. Customary Units Only

Car Models

Model Description (Include Line Drawings of Vehicles, if Desired)	Make, Car line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max Trunk/Cargo Load — Kilograms (Pounds)
<u>CORVETTE</u>	<u>MODEL NUMBER</u>	<u>FRONT</u>	
2-Door Sport Coupe	1YY87	2	

NOTE: Any specifications on the following pages that are specific to California requirements are indicated accordingly.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CORVETTE
 Model Year 1981 Issued 9-80 Revised (*) _____

Power Teams (Indicate whether standard or optional)

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

SERIES AVAILABILITY	ENGINE						TRANSMISSION	AXLE RATIO	
	Displ liters (in ³)	Carb. (Barrels)	Compr. Ratio	SAE Net at RPM		Exhaust System*		(Std. first) (Indicate A/C ratio)	
				kW (bhp)	Torque N·m (lb. ft.)			BASE	OPT.
BASE - ALL STATES	V-8 5.7 (350) (L81)	4	8.2:1	190	280	D	MAN. 4-SPD - BASE (2.88 LOW)	2.72:1	-
				@ 4200	@ 1600			2.87:1	-
							AUTO '350c'-AVAIL	2.72:1	2.87:1
LIMITED SLIP DIFFERENTIAL STANDARD EQUIPMENT. AIR CONDITIONING BASE EQUIPMENT.									

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*S - Single D - Dual

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CORVETTE
 Model Year 1981 Issued 9-80 Revised (*) _____

Engine Description/Carb.
 Engine Code

5.7 LITER V-8 (350 CID)
 4-BBL CARBURETOR
 RPO L81

Engine — General

Type (inline, V and Angle, Flat)	90°, 'V'	
Location (Front, Mid, Rear)	FRONT	
Engine installation position (transverse, longitudinal)	LONGITUDINAL	
Number of mtg. points	Front	TWO
	Rear	ONE
No. of cylinders	8	
Bore	101.6 (4.00)	
Stroke	88.4 (3.48)	
Piston Displacement cm ³ (in ³)	5735 (350)	
Bore Spacing (C/L to C/L)	111.8 (4.40)	
Cylinder Block Material	CAST ALLOY IRON	
Cylinder block deck height	229.4 (9.03)	
Deck clearance (minimum) (above or below block)	.025 BELOW	
Cylinder Head Material	CAST ALLOY IRON	
Cylinder Head Volume — cm ³	75.47	
Head Gasket Thickness (Compressed)	.021	
Head Gasket Volume — cm ³	4.60	
Minimum Combustion Chamber Volume — cm ³	73.27	
Cyl. No. system (front to rear)**	L Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing Order	1-8-4-2-6-5-7-2	
Recommended fuel (Leaded, unleaded)	UNLEADED	
Fuel antiknock index (R + M)	87	
	2	
Total dressed engine mass (wt) dry *	264.8 (584)	

Engine — Pistons

Material	CAST ALLUMINUM ALLOY	
Description and finish (Flat, dished, dome, etc.)	CLOSED SKIRT, SUMP HEAD	
Mass, g (weight, oz.) — Piston Only	604 (21.31)	
Clearance (limits)	Top land	.597 - .825 (.0235 - .0325)
	Skirt Top	.018 - .043 (.0007 - .0017)
	Bottom	
Ring groove diameter	No. 1 ring	89.94 - 90.32 (3.541 - 3.556)
	No. 2 ring	89.94 - 90.32 (3.541 - 3.556)
	No. 3 ring	90.86 - 91.24 (3.577 - 3.592)

*Dressed engine mass (weight) includes the following:

FRONT OF ENGINE FAN TO REAR FACE OF BLOCK -
 INCLUDES ENGINE MOUNTS AND ACCELERATOR CONTROLS.

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

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CORVETTE
 Model Year 1981 Issued 9-80 Revised (•) _____

Engine Description/Carb.
 Engine Code

5.7 LITER V-8 (350 CID)
 4-BBL. CARBURETOR
 RPO L81

Engine — Piston Rings

Function (top to bottom)	No. 1. oil or comp.	COMPRESSION
	No. 2. oil or comp.	COMPRESSION
	No. 3. oil or comp.	OIL
Compression	Description — Material, coating, etc.	UPPER RADIUS FACE, .0004" CHROME FLASH LOWER REVERSE TWIST, TAPERED FACE, LUBRITED
	Width	1.969 - 1.981 (.0775 - .0780)
	Gap	Upper - .25-.51 (.010-.020); Lower .33-.63 (.013-.025)
Oil	Description — material, coating, etc.	STAINLESS STEEL - 50 .051 (.002") MINIMUM CHROME
	Width	4.700-4.75 (.185-.187)
	Gap	.38-1.40 (.015-.055)
Expanders		IN OIL RING ASSEMBLY

Engine — Piston Pins

Material	CHROMIUM STEEL 1018	
Length	75.95-76.15 (2.990-3.010)	
Diameter	23.546-23.553 (.9270-.9273)	
Type	Locked in rod, in piston, floating, etc.	LOCKED IN ROD
	Bushing	In rod or piston Material
Clearance	In piston	.0063-.0089 (.00025 - .00035)
	In rod	--
Direction & amount offset in piston	MAJOR THRUST SIDE - 1.52 (.060)	

Engine — Connecting Rods

Material	1037 OR 1038 STEEL	
Mass, g (weight, oz.)	388 (13.69)	
Length (center to center)	144.6 - 144.9 (5.695 - 5.705)	
Bearing	Material & Type	PREMIUM ALUMINUM
	Overall length	20.24 (.797)
	Clearance (limits)	.033-.089 (.0013-.0035)
	End Play	.15 - .41 (.006 - .016)

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5.7 LITER V-8 (350 CID)
 4-BBL. CARBURETOR
 RPO L81

Engine — Crankshaft

Material	NODULAR CAST IRON		
Vibration damper type	RUBBER MOUNTED INERTIA		
End thrust taken by bearing (No.)	5		
Crankshaft end play	.051 - .178 (.002 - .007)		
Main bearing	Material & type	#1-G66 CONECC; #2,3,4-M400; #5 UPPER-M100; #5 LOWER W/A.T.-M400, W/M.T.-M100	
	Clearance	#1-.020-.051 (.0008-.0020); #2,3,4-.028-.058 (.0011-.0023) (A)	
	Journal dia. and bearing overall length	No. 1	62.202 x 20.37 (2.4489 x .802)
		No. 2	62.194 x 20.37 (2.4486 x .802)
		No. 3	62.194 x 20.37 (2.4486 x .802)
		No. 4	62.194 x 20.37 (2.4486 x .802)
		No. 5	62.189 x 38.94 (2.4484 x 1.533)
		No. 6	--
No. 7		--	
Dir. & amt. cyl. offset			
No. bolts/main brg. cap	2		
Crankpin journal diameter	53.31 - 53.34 (2.099 - 2.100)		

Engine — Camshaft

Location	IN BLOCK ABOVE CRANKSHAFT			
Material	CAST ALLOY IRON			
Bearings	Material	STEEL BACKED BABBITT		
	Number	5		
Type of Drive	Gear, chain or belt	CHAIN		
	Crankshaft gear or sprocket material	SINTERED IRON		
	Camshaft gear or sprocket material	ALUMINUM NYLON		
	Timing chain	No. of links	46	
		Chain or Belt	Width	15.87 (.625)
			Pitch	12.7 (.500)

(A) #5 - .043-.081 (.0017 - .0032)

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Engine — Valve System

Hydraulic lifters (Std., opt., NA)		STANDARD		
Valve rotator type (intake, exhaust)		EXHAUST		
Push rods (dia., length, material)		7.9 x 196.2 (.3125 x 7.724), WELDED STEEL TUBING, CARBONITRIDED		
Rocker ratio		1.50:1		
Operating tappet clearance (indicate hot or cold)	Intake	ZERO		
	Exhaust	ZERO		
Timing (based on top of ramp points)	Intake	Opens (*BTC)	38	
		Closes (*ABC)	92	
		Duration (deg.)	310	
	Exhaust	Opens (*BBC)	88	
		Closes (*ATC)	52	
		Duration (deg.)	320	
Valve open overlap (deg.)		90		
Intake Valve	Material		SAE-1541-H, FORGED STEEL, CHROME FLASH STEM	
	Overall length		123.95 (4.880)	
	Actual overall head dia.		49.28 (1.940)	
	Angle of seat & face (deg.)		46.45	
	Seat insert material		NONE	
	Stem diameter		8.661-8.679 (.3410 - .3417)	
	Stem to guide clearance		.025-.069 (.0010 - .0027)	
	Lift (at zero lash)		9.91 (.3900)	
	Outer Spring press. & length	Valve closed — N at mm (lb. at in.)	338 - 374 @ 43.2 (76 - 84 @ 1.70)	
		Valve open — N at mm (lb. at in.)	801 - 836 @ 31.8 (180-188 @ 1.25)	
	Inner spring press. & length	Valve closed — N at mm (lb. at in.)	SPRING DAMPER	
		Valve open — N at mm (lb. at in.)	SPRING DAMPER	
	Exhaust Valve	Material		21-2N STEEL, ALUMINIZED HEAD, CHROME FLASH STEM
		Overall length		125.0 (4.920)
Actual overall head dia.		38.1 (1.50)		
Angle of seat & face (deg.)		46.45		
Seat insert material		NONE		
Stem diameter		8.661-8.679 (.3410-.3417)		
Stem to guide clearance		.025-.069 (.0010-.0027)		
Lift (at zero lash)		10.4 (.4100)		
Outer spring press. & length		Valve closed — N at mm (lb. at in.)	338 - 374 @ 43.2 (76 - 84 @ 1.70)	
		Valve open — N at mm (lb. at in.)	827 - 863 @ 29.5 (186-194 @ 1.16)	
Inner spring press. & length	Valve closed — N at mm (lb. at in.)	SPRING DAMPER		
	Valve open — N at mm (lb. at in.)	SPRING DAMPER		

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 4-BBL. CARBURETOR
 RPO L81

Engine — Lubrication System

Type of lubrication (splash, pressure, nozzle)	Main bearings	PRESSURE
	Connecting rods	PRESSURE
	Piston pins	SPLASH
	Camshaft bearings	PRESSURE
	Tappets	PRESSURE
	Timing gear or chain	CENTRIFUGALLY OILED FROM CAMSHAFT BEARING
	Cylinder walls	PRESSURE
Oil pump type	GEAR	
Normal oil pressure-kPa (psi) at engine rpm	310 (45)	
Type oil intake (floating, stationary)	STATIONARY	
Oil filter system (full flow, part. other)	FULL FLOW	
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)	
Oil grade recommended (SAE viscosity and temperature range) MINUS 6.6°C (20°F) & ABOVE MINUS 17.7°C to +15.5°C (0 to 60°F) MINUS 6.6°C (20°F) & BELOW	20W-20, 10W-30, 10W-40, 20W-40, 20W-50 10W, 5W-30, 10W-40, 10W-30 5W-20, 10W-30	
Engine service reqmt. (SD, SE, etc.)	SF	

Engine — Exhaust System

Type (single, single with cross-over, dual, other)	DUAL	
Muffler No. & Type (reverse flow, straight thru, separate resonator)	TWO, REVERSE FLOW	
Resonator No. & type	NONE	
Exhaust Pipe	Branch O.D., wall thickness	50.8 (2.0)
	Main O.D., wall thickness	63.5 (2.50)
	Material	STAINLESS STEEL
Inter-mediate Pipe	O.D. & wall thickness	63.5 (2.50)
	Material	ALUMINUM COATED STEEL
Tail Pipe	O.D. & wall thickness	57.15 (2.25)
	Material	ALUMINUM COATED STEEL

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 RPO L81

Engine — Fuel System (See supplemental page for Details of Fuel Injection, Supercharger, Turbocharger etc. if used)

Induction type: Carburetor, fuel injection system, etc.		CARBURETOR	
Fuel Tank	Refill capacity — L (U.S. gals.)	90.9 (24) APPROXIMATELY	
	Filler location	CENTER OF REAR DECK	
Fuel Pump	Type (elec. or mech.)	MECHANICAL	
	Locations	LOWER RF OF ENGINE	
	Pressure range — kPa (psi)	52-62 (7.5-9.0)	
Fuel Filter	Type	FINE MESH PLASTIC STRAINER IN GASOLINE TANK AND	
	Locations	PAPER FILTER ELEMENT IN CARBURETOR INLET	
Carburetor	Choke type	ELECTRIC	
	Intake manifold heat control (exhaust or water)	EXHAUST	
	Air cleaner type	Standard	REPLACEABLE PAPER & CHARCOAL ELEMENT, SINGLE SNORKEL
		Optional	
	Idle spd.-rpm (spec. neutral or drive)	Manual	700
		Propane (Neu.)	
Automatic		500	
	Propane (Neu.)		
Idle A/F mix.			

INTAKE MANIFOLD — ALUMINUM

Carburetor Supplementary Information

Model Usage	Engine Displ. — L (in ³)	Transmission	Carburetors		No. Used and Type (Barrels)	Barrel Size
			Make	Model		
	5.7 (350)	MANUAL	ROCHESTER	17081217	One-4-BBL	PRI-35.1 (1.38)
		AUTOMATIC		17081218		SEC-57.2 (2.25)

Engine — Diesel Information

Glow plug	
Injector nozzle	Type
	Opening pressure—kPa. (psi)
Pre-Chamber design	
Fuel injection pump	Manufacturer
	Type
Supplementary vacuum source (type)	

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 4-BBL. CARBURETOR
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Engine — Cooling System

Coolant recovery system (std., opt., none)		STANDARD	
Radiator cap relief valve pressure — kPa (psi)		103.4 (15.0)	
Circulation thermostat	Type (choke, bypass)	CHOKE	
	Starts to open at °C (°F)	90.6 (195)	
Water pump	Type (centrifugal, other)	CENTRIFUGAL	
	GPM 1000 pump rpm		
	Number of pumps	ONE (1)	
	Drive (V-belt, other)	V-BELT	
	Bearing Type	SEALED DOUBLE ROW BALL	
By-pass recirculation type (inter., ext.)		INTERNAL	
Radiator core type (cross-flow vertical, cellular, tube and fin, other)		CROSSFLOW, TUBE & CENTER	
Cooling System Capacity (@)	With heater — L (qt.) (**)	20.4 (21.6)	
	Without heater — L (qt.)	HEATER STANDARD EQUIPMENT	
	Opt. equipment-specify — L (qt.)	20.4 (21.6)	
Water jackets full length of cyl. (yes, no)		YES	
Water all around cylinder (yes, no)		YES	
Radiator nose	Lower	Number and type (molded, straight)	ONE, MOLDED
		Inside diameter	
	Upper	Number and type (molded, straight)	ONE, MOLDED
		Inside diameter	
	By-pass	Number and type (molded, straight)	NONE
		Inside diameter	
Radiator (Core)	Standard	Width	668.0 (26.3)
		Height	429.7 (16.9)
		Thickness	40.2 (1.58)
	A/C	Width	
		Height	
		Thickness	
	Heavy duty	Width	668.0 (26.3)
		Height	431.0 (17.0)
		Thickness	68.1 (2.68)
Fan (Standard)	Number of blades & type - Flex/Solid		5, STAGGERED (*)
	Diameter		445 (17.5)
	Ratio — fan to crankshaft rev		
	Fan cutout type		CLUTCH
Drive Type-Number of Fans		V-BELT - ONE	
Fan (optional)	No. of blades and spacing		
	Diameter		NO
	Ratio — fan to crankshaft rev		OPTIONAL
	Fan cut-out type		FAN
Drive Type-Number of Fans			

(*) AUXILIARY ELECTRIC COOLING FAN STANDARD EQUIPMENT.

(**) BASE TRANSMISSION

(@) WITH AIR CONDITIONING, BASE EQUIPMENT.

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 4-BBL CARBURETOR
 RPO L81

Vehicle Emission Control

	Type (Air injection, engine modifications, other)	AIR INJECTION W/COMPUTER COMMAND CONTROL	
	Air Injection Pump	Type	
Displacement -- cm ³ (in ³)			
Drive ratio			
Drive type			
Relief valve (type)			
Air Injection System	Air distribution (head, manifold, etc.)		
	Point of entry		
	Injection tube i.d.		
	Check valve type		
	Backfire protection (type)		
Exhaust Emission Control	Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)	CONTROLLED FLOW
		Valve type	VACUUM MODULATED SHUT-OFF & METERING VALVE
		Valve location	RIGHT REAR AT MANIFOLD
		Control energy source	CARBURETOR VACUUM
		Exhaust source	MANIFOLD EXHAUST CROSSOVER
		Exhaust cooler type	NONE
		Orifice no. and size	ONE
Point of exhaust injection (spacer, carburetor, manifold, other)	INLET MANIFOLD		
Catalytic Converter System	Catalyst	Type	PLATINUM - PALLADIUM
		Volume -- L (in ³)	4.1 (250)
	Substrate type	DUAL BED	
	Container location	BENEATH UNDERBODY, BELOW PASSENGER SEAT	
Other	CARBURETOR HOT AIR	THERMOSTATICALLY CONTROLLED AIR CLEANER	
		INLET VALVE REGULATES AND MIXES HEATED	
		AIR WITH INCOMING COLD AIR TO REDUCE	
		CARBON EMISSION.	

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Vehicle Emission Control (Continued)

Crankcase Emission Control	Type (ventilates to atmos., induction system, other)	Standard	INDUCTION SYSTEM
		Optional	
	Control Unit	Make and model	A.C.
		Location	
		Energy source (manifold vacuum, carburetor, other)	MANIFOLD VACUUM
		Control method (variable orifice, fixed orifice, other)	VARIABLE ORIFICE
	Complete System	Discharges (to intake manifold, other)	INLET MANIFOLD
		Air inlet (breather cap, other)	CARBURETOR AIR INLET
		Flame arrester (screen, other)	SCREEN
	Evaporative Emission Control	Fuel Tank	Thermal expansion volume — dm ³ (ft ³)
Relief Pressure kPa (psi) and location			
Vacuum relief kPa (psi) and location			
Vapor-liquid separator type			INTEGRAL WITH FUEL TANK
Vapor vented to (crankcase, canister, other)			CANISTER
Carbu- rator		Vapor vented to (crankcase, canister, other)	CANISTER
Vapor Storage	Storage provision (crankcase, canister, other)	CANISTER	
	Volume — dm ³ (ft ³) or capacity (grams)	APPROX. 50 GRAMS STORAGE CAPACITY	
	Control valve type	CONTROLLED BY ORIFICE CARBURETOR THROTTLE BODY AND THROTTLE BLADE POSITION	

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 4-BBL. CARBURETOR
 RPO L81

Electrical — Supply System

Battery	Make and Model		DELCO 'FREEDOM II'	
	Voltage Rtg. — V — & Total Plates		12V	
	SAE Designation No. and/or capacity		115 MINUTE RESERVE CAPACITY	
	Location		STORAGE COMPARTMENT REAR OF DRIVER	
Generator or Alternator	Make		DELCO REMY	
	Model		1103103	
	Type and rating		63	
	Output at engine idle (neutral) A			
Ratio — Gen. to Cr/s rev.				
Regulator	Make		DELCO REMY	
	Model			
	Type		MICRO CIRCUIT UNIT; INTEGRAL WITH DISTRIBUTOR	
	Regulated	Voltage		
		Current A		
	Voltage test conditions	Temperature — °C (°F)		
Load A				
Other				

Electrical — Starting System

Starting Motor	Make		DELCO REMY	
	Model		1998225 - M/T; 1998222 - A/T	
Motor Drive	Engagement Type		POSITIVE SHIFT SOLENOID	
	Pinion engages from (front, rear)		REAR	
	Number of teeth	Pinion	9	
		Flywheel	Manual	153
		Auto	168	

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Electrical — Ignition System — Distributor

Distributor	Manual	1103443
	Automatic	1103443
Timing	Manual	6° BTC
	Automatic	6° BTC

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at kPa (in. of Hg.)	
	Start	Intermediate	Maximum	Start	Maximum
1103443	DOES NOT APPLY				

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Electrical — Ignition System

Type	Conventional — Std., Opt., N.A.		---
	Transistorized — Std., Opt., N.A.		---
	Other (specify)		HIGH ENERGY IGNITION (HEI)
Coil	Make		DELCO REMY
	Model		INTEGRAL WITH DISTRIBUTOR
	Current	Engine stopped — A	---
		Engine idling — A	---
Spark Plug	Make		AC
	Model		R45TS
	Thread (mm)		14
	Tightening torque — N-m (lb. ft.)		
	Gap		1.143 (.045)

Electrical — Suppression

Locations & type	
------------------	--

Electrical — Instruments and Equipment

Speedometer	Type	CIRCULAR DIAL WITH POINTER
	Trip odometer (std., opt., N.A.)	STANDARD
EGR maintenance indicator		NA
Charge Indicator	Type	VOLTMETER
	Warning device	GENERATOR WARNING LAMP
Temperature Indicator	Type	ELECTRIC GAUGE
	Warning device	NA
Oil pressure Indicator	Type	ELECTRIC GAUGE
	Warning device	NA
Fuel Indicator	Type	ELECTRIC GAUGE
	Warning device	LOW FUEL WARNING LAMP
Windshield Wiper	Type — standard	ELECTRIC, TWO-SPEED INTERMITTENT SYSTEM STANDARD
	Type — optional	NONE
	Blade length	1.60 INCH
	Swept area — cm ² (in. ²)	667.0
Windshield Washer	Type — standard	PUSHBUTTON - MANUAL
	Type — optional	NONE
	Fluid level indicator	NA
Horn	Type	VIBRATOR
	Number used	TWO
CURRENT DRAW (A) PER HORN		4.5-6.5 @ 12.5 VOLTS
Other	TACHOMETER/ANTI-THEFT ALARMS; PARKING BRAKE WARNING LIGHT AND BRAKE FAILURE WARNING LIGHTS; RESTRAINT SYSTEM WARNING LIGHT AND BUZZER. "CHOKE" WARNING LAMP IN TACH "CHECK ENGINE" WARNING LAMP - IN CENTER CONSOLE (CALIF.) HALOGEN HIGH BEAM (INNER) HEADLAMPS STANDARD	

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 4-BARREL CARBURETOR
 RPO L81

Drive Units — Clutch (Manual Transmission)

Make & type	CHEVROLET, SINGLE DRY DISC SEMI-CENTRIFUGAL CIRCULAR PLATE DIAPHRAGM, BENT FINGER DESIGN	
Type pressure plate springs		
Total spring load — N (lb.)		
No. of clutch driven discs	ONE	
Clutch facing	Material	WOVEN TYPE ASBESTOS
	Manufacturer	CHEVROLET
	Part Number	
	Rivets/Plats	40
	Rivet size	4.75 x 5.28 (.187 x .208)
	Outside & inside dia.	262.6 x 165.1 (10.34 x 6.50)
	Total eff. area - cm ² (in. ²)	655.2 (101.58)
	Thickness	3.56 (.140)
Engagement Cushion method	FLAT SPRING STEEL BETWEEN FRICTION RINGS	
Release bearing	Type & method of lubrication	SINGLE ROW BALL, PACKED AND SEALED
Torsional damping	Method: springs, friction material	COIL SPRINGS

Drive Units — Transmissions

Manual 3-speed (std., opt., N.A.)	N.A.
Manual 4-speed (std., opt., N.A.)	BASE
Manual 5-speed (std., opt., N.A.)	N.A.
Manual overdrive (std., opt., N.A.)	N.A.
Automatic (std., opt., N.A.)	OPTIONAL
Automatic overdrive (std., opt., N.A.)	N.A.

Drive Units — Manual Transmission

Number of forward speeds	4		
Transmission ratios	In first	2.88	
	In second	1.91	
	In third	1.33	
	In fourth	1.00	
	In fifth	---	
	In overdrive	---	
	In reverse	2.78	
Synchronous meshing, specify gears	ALL FORWARD GEARS		
Shift lever location	FLOOR MOUNTED IN CONSOLE		
Lubricant	Capacity — L (pt.)	1.6 (3.4)	
	Type recommended	GL-5 GEAR LUBRICANT	
	SAE viscosity number	Summer	80W OR 80W-90
		Winter	80W OR 80W-90
		Extreme cold	80W OR 80W-90

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 4-BBL CARBURETOR
 RPO L81

Drive Units — Automatic Transmission

Trade name		3-SPEED AUTOMATIC
Type (describe)		TORQUE CONVERTED WITH PLANETARY GEARS '350c'
Selector	Location	FLOOR MOUNTED IN CONSOLE
	Ltr./No. Designation	P-R-N-3-2-1
Gear Ratios	R	1.93
	D 3	1.00
	L ₁ 2	1.52
	L ₂ 1	2.52
	L ₃	
Max. upshift speed — drive range — km/h (mph)		
Max. kickdown speed — drive range — km/h (mph)		
Min. overdrive speed — km/h (mph)		---
Torque Converter	Number of elements	3
	Max. ratio at stall	2.0
	Type of cooling (air, liquid)	LIQUID
	Nominal diameter	298 (11.75)
Lubricant	Capacity — refill — L (pt.)	3.8 (8.0)
	Type recommended	DEXRON II
Special transmission features		TORQUE CONVERTER CLUTCH, 2ND & 3RD GEAR LOCK-UP

Drive Units — Axle or Front Wheel Drive Unit

DANA 8 44

Type (front, rear)		REAR	
Description		OVERHUNG PINION GEAR	
Limited Slip differential, type		STANDARD - DISC CLUTCHES	
Drive Pinion Offset		38.1 (1.50)	
Drive pinion type			
No. of differential pinions		TWO	
Pinion adjustment (shim, other)		NONE	
Pinion bearing adj. (shim, other)		SHIM	
Driving wheel bearing type		TAPERED ROLLER	
Lubricant	Capacity — L (pt.)	1.8 (3.75)	
	Type recommended	GL-5 GEAR LUBRICANT	
	SAE viscosity number	Summer	80W OR 80W-90
		Winter	80W OR 80W-90
		Extreme cold	80W OR 80W-90

Axle or Transaxle Ratio and Tooth Combinations (See "Power Teams" for axle ratio usage.)

Axle Ratio or Overall Ratio (:1)		2.87	2.72
No. of teeth	Pinion	15	18
	Ring gear or gear	43	49
Ring Gear O. D.		216 (8.50)	
Transaxle	Transfer Gear Ratio		
	Final Drive Ratio		

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5.7 LITER V-8/4-BBL
 RPO L81

Drive Units — Propeller Shaft — Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)		STRAIGHT TUBE	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	N.A.	
	Manual 4-speed trans.	63.5 x 714.5 x 2.11 (2.50 x 28.13 x .083)	
	Manual 5-speed trans.	N.A.	
	Overdrive	N.A.	
	Automatic transmission	63.5 x 713.0 x 1.65 (2.50 x 28.07 x .065)	
Inter-mediate bearing	Type (plain, anti-friction)	NONE	
	Lubrication (fitting prepack)	---	
Slip Yoke	Type	YOKE	
	Number of teeth	MAN. TRANS. - 32; AUTO. TRANS. - 27	
	Spline O.D.	MAN. TRANS. - 35.3 (1.39); AUTO. TRANS. - 29.7 (1.17)	
Universal joints	Make and Mfg. No.	Front	#1331 FRONT - #1318 REAR
		Rear	#1311 FRONT - #1318 REAR
	Number used	TWO	
	Type (ball and trunnion, cross)	CROSS	
	Rear attach (u-bolt, clamp, etc.)	STRAP AND BOLT	
Bearing	Type (plain, anti-friction)	ANTI-FRICTION	
	Lubric. (fitting, prepack)	PREPACK	
Drive taken through (torque tube or arms, springs)		TORQUE CONTROL ARMS	
Torque taken through (torque tube or arms, springs)		TORQUE CONTROL ARMS	

* Center to center of universal joints, or to centerline of rear attachment.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CORVETTE
 Model Year 1981 Issued 9-80 Revised (*) _____

Engine Description/Carb.
 Engine Code

2-DOOR FASTBACK COUPE

Drive Units — Tires And Wheels (Standard)

TIRES	Size, load range, ply		P225/70R15 (BW,WL)
	Type (bias, radial, etc.)		STEEL BELTED RADIAL
	Inflation pressure (cold) for recommended max. vehicle load	Front-kPa (psi)	240 (35)
		Rear-kPa (psi)	240 (35)
	Rev./mile—at 70 km/h (45 mph)		472 (760)
WHEELS	Type & material		SHORT SPOKE SPIDER, STEEL
	Rim (size & flange type)		15 x 8
	Wheel offset		-12.7 (-0.50)
	Attachment	Type (bolt or stud)	STUD
		Circle diameter	120.7 (4.75)
Number & size		5 HEX NUTS, 7/16-20 UNF-2B	
Spare tire and wheel (same or other)		15 x 5 WHEEL; P195/80D15 TIRE	

Drive Units — Tires And Wheels (Optional)

Size, load range, ply		P255/60R15 WL
Type (bias, radial, etc.)		STEEL BELTED RADIAL
Wheel type & material		CAST ALUMINUM
Rim (size, flange type, and offset)		15 x 8; -12.7 mm (-0.50 in)
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		
Type (bias, radial, etc.)		
Wheel type & material		
Rim (size, flange type, and offset)		
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel)		

Brakes — Parking

Type of control		GRIP HANDLE CONTROL
Location of control		ON TUNNEL, BETWEEN SEATS
Operates on		REAR BRAKE DRUMS INBOARD OF DISC ROTORS ON AXLE SHAFTS
If separate from service brakes	Type (internal or external)	INTERNAL
	Drum diameter	165 (6.50)
	Lining size (length x width x thickness)	172.2 x 31.8 x 4.44 (6.78 x 1.25 x 0.175)

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Body Type And/Or Engine Displacement

2-DOOR FAST BACK COUPE

Brakes — Service

Brake Type (std., Opt., N.A.)	Drum	Front	---
		Rear	---
	Disc	Front	STD.
		Rear	STD.
Self-adjusting (std., opt., N.A.)			STD.
Special Valving	Type (proportion, delay, metering, other)		PROPORTIONING
Power Brake (std., opt., N.A.)			STD.
Booster Type (remote, integral, vac., hyd., etc.)			INTEGRAL
Anti-skid device type (std., opt., N.A.)			N.A.
Effective area — cm ² (in. ²)*			483.2 (74.92)
Gross lining area — cm ² (in. ²)**			556.6 (86.30)
Swept area — cm ² (in. ²)***			3214.0 (498.30)
Rotor	Outer working diameter	F	298 (11.75)
		R	298 (11.75)
	Inner working diameter	F	193.5 (7.62)
		R	193.5 (7.62)
	Thickness	F	31.8 (1.25)
		R	31.8 (1.25)
	Material & type (vented/solid)	F	CAST IRON VENTED
		R	CAST IRON VENTED
Drum	Diameter (nominal)	F	---
		R	---
	Type and material		---
Wheel cylinder bore	Front	47.6 (1.875)	
	Rear	34.9 (1.375)	
Master Cylinder	Bore	28.6 (1.125)	
	Stroke	29.0 (1.14)	
Pedal arc ratio			3.51:1
Line pressure at 445 N (100 lb.) pedal load—MPa (psi)			
Lining Clearance Per Shoe	Front	SELF ADJUSTING	
	Rear	SELF ADJUSTING	
Brake lining	Front Wheel	Bonded or riveted, rivets/seg.	RIVETED, 8
		Rivet size	3.63 x 6.35 (.143 x .250)
		Manufacturer	DELCO MORaine
		Lining Code	
		Material	MOLDED ASBESTOS
		**** Prim. or out-board	137.2 x 49.0 x 10.41 (5.40 x 1.93 x .410)
		Size Second or in-board	137.2 x 49.0 x 10.41 (5.40 x 1.93 x .410)
	Shoe thickness (no lining)	12.7 (.500)	
	Rear Wheel	Bonded or riveted, rivets/seg.	RIVETED; 8
		Manufacturer	DELCO MORaine
		Lining Code	
		Material	MOLDED ASBESTOS
		**** Prim. or out-board	137.2 x 49.0 x 10.41 (5.40 x 1.93 x .410)
		Size Second or in-board	137.2 x 49.0 x 10.41 (5.40 x 1.93 x .410)
Shoe thickness (no lining)		12.7 (.500)	

*Excludes rivet holes, grooves, chamfers, etc.
 **Includes rivet holes, grooves, chamfers, etc.

***Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia. minus Square of Inner Working Dia. multiplied by PV2 for each brake.)

****Size for drum brakes includes length x width x thickness.

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2-DOOR FAST BACK COUPE

Steering

Manual (std., opt., N.A.)			N.A.
Power (std., opt., N.A.)			STD.
Adjustable steering wheel (tilt, swing, other)	Type and description (Std., opt., N.A.)		TILT & TELESCOPIC
	Manual		STD.
Wheel diameter	Manual		N.A.
	Power		368 (14.5)
Turning diameter m (feet)	Outside front	Wall to wall (l. & r.)	12.6 (41.3)
		Curb to curb (l. & r.)	12.3 (40.4)
	Inside rear	Wall to wall (l. & r.)	---
		Curb to curb (l. & r.)	---
Manual	Gear	Type	NOT AVAILABLE
		Make	
		Ratios	
	Overall		
No. wheel turns (stop to stop)			
Power	Type (coaxial, linkage, etc.)		LINKAGE, POWER PUMP ASSISTED
	Make		SAGINAW STEERING GEAR
	Gear	Type	SEMI-REVERSIBLE, RECIRCULATING BALL NUT
		Ratios	16.1:1
		Overall	17.6:1
	Pump driven by		'V' BELT
No. wheel turns (stop to stop)		2.58	
Linkage	Type		PARALLELOGRAM
	Location (front or rear of wheels, other)		REAR
	Drag links (trans. or longit.)		NONE
	Tie rods (one or two)		TWO
Steering Axis	Inclination at camber (deg.)		7.683 @ 5
	Bearings (type)	Upper	BALL STUD WITH NON-METALLIC BEARING SURFACE
		Lower	BALL STUD WITH NON-METALLIC BEARING SURFACE
Thrust			
Steering spindle & joint type			STEERING KNUCKLE WITH SPHERICAL JOINT
Wheel Spindle	Diameter	Inner bearing	34.91 - 34.92 (1.3743 - 1.3748)
		Outer bearing	21.407 - 21.420 (0.8428 - 0.8433)
	Thread size		27/32 - 20 UNEF (MODIFIED)
	Bearing type		TAPERED ROLLER
Wheel Align at curb mass (wt.)	Service checking	Caster (deg.)	
		Camber (deg.)	
		Toe-in (outside track-mm (in.))	
	Service reset	Caster	
		Camber	
		Toe-in	
	Periodic M.V. inspection	Caster	
		Camber	
		Toe-in	

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Body Type And/Or Engine Displacement

2-DOOR FAST BACK COUPE	
MANUAL TRANSMISSION	AUTOMATIC TRANSMISSION

Suspension — General

Car leveling	Standard/Optional/NA	N.A.
	Type (air, hyd., etc.)	---
	Manual/auto. controlled	---
Provision for brake dip control		MOUNTING ANGLE AT FRONT UPPER CONTROL ARM
Provision for acc. squat control		NONE
Special provisions for car jacking		FRONT - 5" FORWARD OF FRONT DOOR OPENING, UNDER FRAME REAR - 3" FORWARD OF WHEEL OPENING, UNDER FRAME
Shock absorber front & rear	Type	DIRECT, DOUBLE ACTING, HYDRAULIC
	Make	DELCO
	Piston dia.	25.4 (1.0)
Other special features		

Suspension — Front

Type and description		INDEPENDENT, SLA WITH COIL SPRINGS
Travel	Full Jounce	120.9 (4.76)
	Full Rebound	74.7 (2.94)
Spring	Type (coil, leaf, other)	COIL
	Material	STEEL ALLOY
	Size (coil design height & I.D., bar length x dia.)	265.4 x 96.5; 352.0 x 15.75 (10.45 x 3.80; 138.86 x 0.620)
	Spring rate — N/mm (lb./in.)	45.5 (260)
	Rate at wheel — N/mm (lb./in.)	17.0 (97)
Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	HR STEEL; 28.4 (1.12)

Suspension — Rear

Type and description		FULLY INDEPENDENT WITH FIXED DIFFERENTIAL, TRANSVERSE LEAF SPRING, LATERAL STRUTS & 'U' JOINTED AXLE SHAFTS		
Drive and torque taken through		TORQUE CONTROL ARMS		
Travel	Full Jounce	101.6 (4.00)		
	Full Rebound	76.2 (3.00)		
Spring	Type (coil, leaf, other)	LEAF	MONOLEAF	
	Material	CHROME CARBON STEEL	COMPOSITE FIBERGLASS	
	Size (length x width, coil design height & I.D., bar length & dia.)	1234.4 x 63.5 (48.6 x 2.50)	1234.4 x 57.2 - 123.7 (48.6 x 2.25 - 4.97)	
	Spring rate — N/mm (lb./in.)	30.1 (172)		
	Rate at wheel — N/mm (lb./in.)	21.24 (121)		
	Mounting insulation type		ALUMINUM SPACERS	
	If leaf	No. of leaves	EIGHT (8) (A)	ONE (1)
	Shackle (comp. or tens.)	TENSION		
Stabilizer	Type (link, linkless, frameless)	LINK (RPO FE7 GYMKHANA SUSPENSION ONLY)		
	Material & bar diameter	HR STEEL - 11.18 (0.440)		
Track bar type		NONE		

(A) EIGHT (8) LEAF STEEL SPRING USED WITH RPO FE7 GYMKHANA SUSPENSION.

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Body Type

2-DOOR SPORT COUPE

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)	LACQUER	
Hood hinge location (front, rear)	FRONT	
Hood counterbalance (type)	HOOD IS NOT COUNTERBALANCED, HOOD IS HELD OPEN WITH LINK	
Hood release control (internal, external)	INTERNAL	
Vehicle Ident. No. Location	LEFT HAND WINDSHIELD PILLAR	
Vent window control method (crank, friction pivot, power)	Front	NONE
	Rear	NONE
Seat cushion type	Front	BUCKET, POLYURETHANE PADDING
	Rear	NONE
	3rd Seat	NONE
Seat back type	Front	BUCKET, POLYURETHANE PADDING
	Rear	NONE
	3rd Seat	NONE
Method of holding luggage compart. lid open	--	
Position of spare tire storage	IN WELL UNDER BODY AT REAR	

Passive Restraint System

Inflatable Restraint System	Standard/Optional	
	Type of charging system	
	Location (stg. whl., instru. panel, other)	
Passive Seat Belts	Standard/Optional	
	Power/Manual	
	2 or 3 point	
	Knee bar/Lap belt	

Frame

Type and description (Separate frame, unitized frame, partially-unitized frame)	<p>CROSSMEMBER FOR TRANS SUPPORT IS BOLTED IN. ALL WELDED, FULL LENGTH, LADDER CONSTRUCTED. FRAME WITH (4) CROSSMEMBERS</p>
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Body Type

2-DOOR SPORT COUPE

Convenience Equipment

Power windows	Side Windows	STANDARD
	Vent Windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		N.A.
Reclining front seat back (R-L or both)		N.A.
Radios (specify type as well as availability)		AM/FM STANDARD. OPTIONAL - AM/FM STEREOHONIC, AM/FM STEREO WITH 8 TRACK TAPE, AM/FM STEREO WITH CASSETTE TAPE (a)
Rear seat speaker		INCLUDED WITH ALL RADIOS EXCEPT BASE. NA WITH BASE
Power antenna		OPTIONAL - TRIBAND INCLUDED WITH CB UNIT
Clock		STANDARD
Air Conditioner (specify type)		STANDARD - FOUR SEASON, MANUAL CONTROL
Speed warning device		N.A.
Speed control device		OPTIONAL - AUTOMATIC TRANSMISSION MODELS ONLY
Ignition lock lamp		N.A.
Dome lamp		STANDARD (DELAY FEATURE STANDARD)
Glove compartment lamp		STANDARD
Luggage compartment lamp		N.A. (ILLUMINATED BY DOME LAMP)
Underhood lamp		STANDARD
Courtesy lamp		STANDARD (DELAY FEATURE STANDARD)
Map lamp		N.A.
Cornering lamp		STANDARD
Rear window defroster electrically heated		OPTIONAL
Rear window defogger		N.A.
Theft protection -- type		LOCK MOUNTED ON STEERING COLUMN; LOCKS STEERING WHEEL AND IGNITION. ANTI-THEFT ALARM UNDER HOOD SIGNALS TAMPERING WITH DOORS, HOOD AND LIFT OUT ROOF PANELS. STARTER INTERRUPT FEATURE PREVENT STARTING ENGINE EVEN IF IGNITION SWITCH IS BY-PASSED, SYSTEM ARMED USING MANUAL OR POWER DOOR LOCK CONTROL ON DRIVER'S DOOR. SYSTEM DISARMED WITH KEY IN RIGHT OR LEFT DOOR LOCK.

(a) AM/FM STEREO CB RADIO WITH 8-TRACK TAPE PLAYER, AM/FM STEREO CB RADIO WITH CASSETTE TAPE PLAYER.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line CORVETTE
 Model Year 1981 Issued 9-80 Revised (*) _____

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line. SAE Ref. No. refers to the definition published in SAE Recommended Practice. J1100a "Motor Vehicle Dimensions," unless otherwise specified.

Body Type

SAE Ref. No.	2-DOOR SPORT COUPE
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Width

Tread — Front	W101	1491 (58.7)
Tread — Rear	W102	1511 (59.5)
Vehicle width	W103	1753 (69.0)
Body width at Sg RP — front	W117	1638 (64.5)
Vehicle width — front doors open	W120	3467 (136.5)
Vehicle width — rear doors open	W121	---

Length

Wheelbase	L 101	2489 (98.0)
Vehicle length	L 103	4707 (185.3)
Overhang — front	L 104	1077 (42.4)
Overhang — rear	L 105	1141 (44.9)
Upper structure length	L 123	2090 (82.3)
Rear wheel C/L "X" coordinate	L 127	1829 (72.0)
Cowl point "X" coordinate	L 125	409 (16.1)

Height **

Passenger Distribution (fr./rear)	PD1,2,3	**
Trunk/Cargo load		**
Vehicle height	H 101	1222 (48.1)
Cowl point to ground	H 114	898 (35.4)
Deck point to ground	H 138	
Rocker panel front to ground	H 112	204 (8.0)
Bottom of door closed - front to grd.	H 133	257 (10.1)
Rocker panel rear to ground	H 111	196 (7.7)
Bottom of door closed - rear to grd.	H 135	---

Ground Clearance **

Front bumper to ground	H102	240 (9.4)
Rear bumper to ground	H104	289 (11.4)
Bumper to ground — front at curb mass (wt.)	H103	247 (9.7)
Bumper to ground — rear at curb mass (wt.)	H105	319 (12.6)
Angle of approach @ GVW	H106	14.7°
Angle of departure @ GVW	H107	13.9°
Ramp breakover angle @ GVW	H147	12.5°
Rear axle differential to ground	H153	327 (12.9)
Min. running ground clearance	H156	98 (3.9) (a)
Location of min. run. grd. clear.		(a) CATALYTIC CONVERTER

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds).

** All vehicle height and ground clearances 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.

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Car and Body Dimensions See Key Sheets for definitions

Car Line CORVETTE

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Body Type

SAE Ref. No.	2-DOOR SPORT COUPE
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Front Compartment

Sg RP front, "X" coordinate	L31	1135 (44.7)
Effective head room	H61	919 (36.2)
Effective T Point head room	H75	934 (36.8)
Max. eff. leg room — accelerator	L34	1069 (42.1)
Sg RP — front to heel	H30	162 (6.4)
Design M-point front travel	L17	137 (5.4)
Shoulder room	W3	1207 (47.5)
Hip room	W5	1267 (49.9)
** Upper body opening to ground	H50	
Steering Wheel Angle	H18	15.0°
Back Angle	L40	33.0°

Rear Compartment

Sg RP Point coupe distance	L50	
Effective head room	H63	
Effective T Point head room	H76	
Min. effective leg room	L51	
Sg RP — second to heel	H31	NOT
Knee clearance	L48	
Compartment room	L3	APPLICABLE
Shoulder room	W4	
Hip room	W6	
** Upper body opening to ground	H51	

Luggage Compartment

Usable luggage capacity — L(cu. ft.)	V1	238 L (8.4 CU.FT.)
** Lifter height	H195	--

All linear dimensions are in millimeters (inches).

** EPA LOADED VEHICLE WEIGHT, LOADING CONDITIONS

ALL INTERIOR DIMENSIONS ARE MEASURED WITH THE SEATING REFERENCE POINT (SgRP) FULL REAR AND _____ mm UPWARD OF REARMOST SEAT POSITION.

MVMA Specifications Form
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Car and Body Dimensions See Key Sheets for definitions

Car Line CORVETTE
 Model Year 1981 Issued 9-80 Revised (*) _____

Body Type

SAE Ref. No.	2-DOOR SPORT COUPE
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Station Wagon — Third Seat

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	NOT
Effective head room	H86	
Effective T Point head room	H89	APPLICABLE
Seat facing direction	SD1	

Station Wagon — Cargo Space

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	NOT
Cargo width — wheelhouse	W201	
Rear opening width at floor	W203	APPLICABLE
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tail gate to ground height (Curb)	H250	
Front seat back to load floor height	H197	
Cargo volume index — m ³ (ft. ³)	V2	
Hidden cargo volume — m ³ (ft. ³)	V4	

Hatchback — Cargo Space

Front seat back to load floor height	H197	
Cargo length at front seat		
Back Height	L208	NOT
Cargo length at floor — front	L209	
Cargo volume index — m ³ (ft. ³)	V3	APPLICABLE
Hidden cargo volume — m ³ (ft. ³)	V4	

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (Inches).

MVMA Specifications Form
Passenger Car
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Car Line CORVETTE
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Car and Body Dimensions See Key Sheets for definitions

Body Type

2-Door Sport Coupe

Vehicle Fiducial Marks

Fiducial Mark Number *	Define Coordinate Location	
Front	X	Fiducial mark to vertical base grid line-front, measured horizontally from the base grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.
	Y	Fiducial mark to centerline of car-front, width measurement made from centerline of car to fiducial mark located on top of the front seat adjuster mounting bolt.
	Z	Fiducial mark to horizontal base grid line-front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear	X	Fiducial mark to vertical base grid line-rear measured horizontally from base grid line to the rear fiducial mark located on rear underbody crossbar.
	Y	Fiducial mark to centerline of car-rear, width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar.
	Z	Fiducial mark to horizontal base grid line-rear, measured vertically from base grid line to the rear fiducial mark located on rear underbody crossbar.
Fiducial Mark Number		
Front	W21	686 (27.0)
	L54	786 (30.9)
	H81	54 (2.1)
	H181	266 (10.5)
	** H183	247 (9.7)
Rear	W22	613 (24.1)
	L55	2240 (88.2)
	H82	320 (12.6)
	H182	529 (20.8)
	** H184	502 (19.8)

* Reference — SAE Recommended Practice, J182a, A Motor Vehicle Fiducial Marks — September, 1973.
 All linear dimensions are in millimeters (inches).

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Car and Body Dimensions See Key Sheets for definitions

Car Line CORVETTE

Model Year 1981

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Revised (*)

Body Type

SAE Ref. No.	2-DOOR SPORT COUPE
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Glass

Backlight slope angle	H121	70.0
Windshield slope angle	H122	57.0°
Tumble-Home	W122	7.4
Windshield glass exposed surface area — cm ² (in. ²)	S1	5119 (793.5)
Side glass exposed surface area — cm ² (in. ²)	S2	5166 (800.8)
Backlight glass exposed surface area — cm ² (in. ²)	S3	9195 (1425.3)
Total glass exposed surface area — cm ² (in. ²)	S4	19480 (3019.6)
Windshield glass type		CURVED - LAMINATED PLATE - TINTED
Side glass type		CURVED - TEMPERED PLATE - TINTED
Backlight glass type		CURVED - TEMPERED PLATE - TINTED

Lamps and Headlamp Shape *

Height above ground to center of bulb or marker	Headlamp (H127)	Highest **	663 (26.1)
		Lowest	660 (26.0)
	Tail (H128)	Highest	636 (25.1)
		Lowest	636 (25.1)
	Sidemarker	Front	443 (17.4)
		Rear	481 (18.9)
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside **	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	
Headlamp Shape		ROUND	

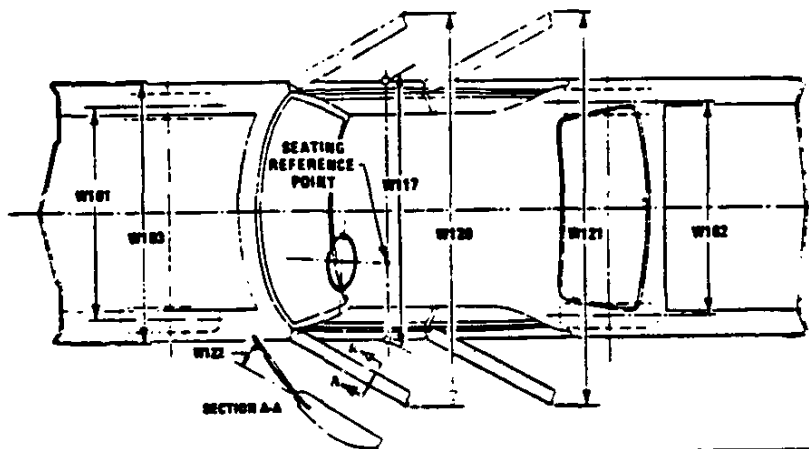
* Measured at curb mass (weight).

** If single headlamps are used enter here

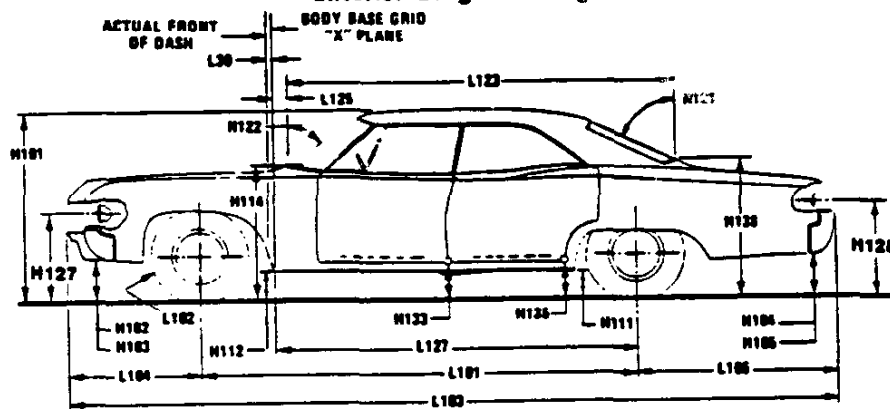
MVMA Specifications Form
Passenger Car
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Exterior Car And Body Dimensions — Key Sheet

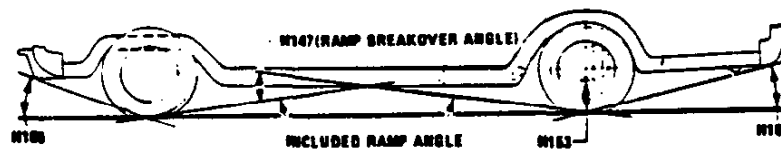
Exterior Width



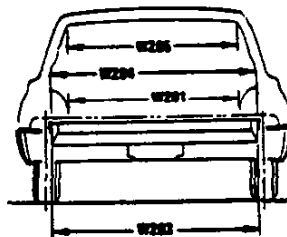
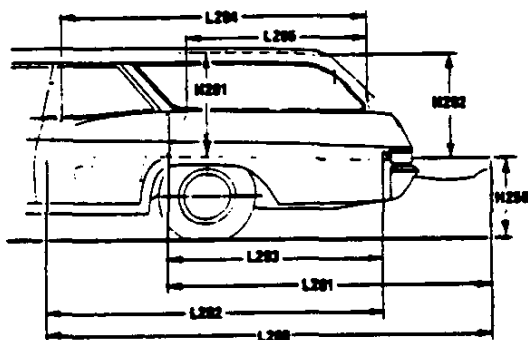
Exterior Length & Height



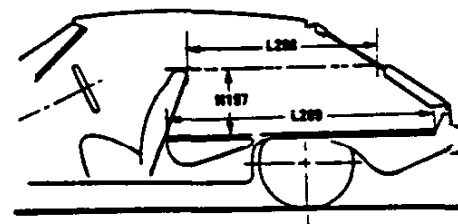
Exterior Ground Clearance



Cargo Space



Station Wagon

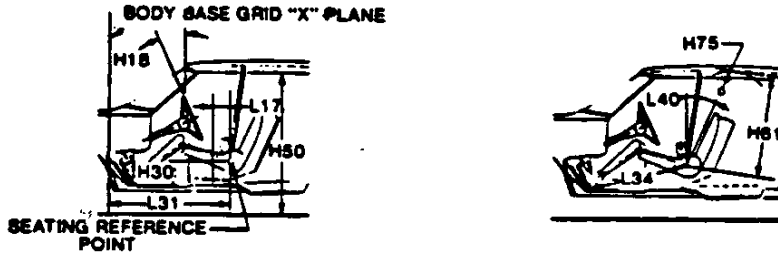


Hatchback

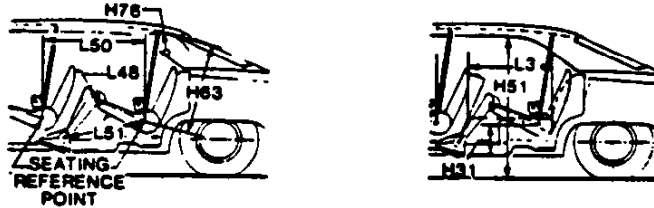
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Interior Car And Body Dimensions — Key Sheet

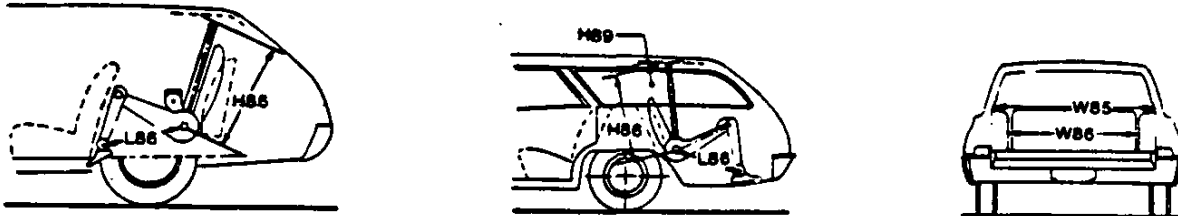
Front Compartment



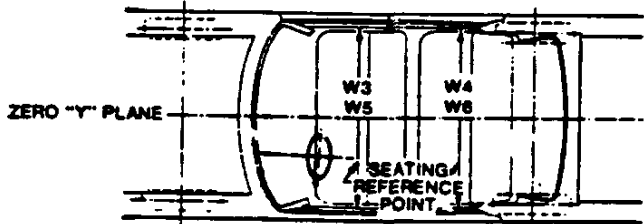
Rear Compartment



Third Seat



Interior Width



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Exterior Car 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, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

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

Length Dimensions

- L30** FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash is forward of the zero "X" plane.
- L101** WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L102** TIRE SIZE. As specified by the manufacturer.
- L103** VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, two hooks and/or rub strips, if standard equipment.
- L104** OVERHAND — FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, two hooks and/or rub strips, if standard equipment.
- L105** OVERHAND — 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, two hooks and rub strips, if standard equipment.

- L123** UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L127** REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.
- L125** COWL POINT "X" COORDINATE.

Height Dimensions

- H101** VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H114** COWL POINT TO GROUND. Measured at zero "Y" plane.
- H138** DECK POINT TO GROUND. Measured at zero "Y" plane.
- H112** ROCKER PANEL — FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H132** BOTTOM OF DOOR OPEN — FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H111** ROCKER PANEL — REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H134** BOTTOM OF DOOR OPEN — REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H135** BOTTOM OF DOOR CLOSED — REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H121** BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122** WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 18.0 in. (457 mm) long, drawn from the lower DLO to the intersecting point on the windshield.
- H127** HEADLAMP TO GROUND — CURB WEIGHT. The dimensional measured vertically from the centerline of the lowest headlamp lens to ground.
- H128** TAILLAMP TO GROUND — CURB WEIGHT. The dimension measured vertically from the centerline of the upper bulb to ground.

Ground Clearance Dimensions

- H102** FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103** FRONT BUMPER TO GROUND — CURB WEIGHT. Measured in the same manner as H104.
- H104** REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105** REAR BUMPER TO GROUND — CURB WEIGHT. Measured in the same manner as H104.
- H106** ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.

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Interior Car And Body Dimensions — Key Sheet Dimensions Definitions

H107	ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.	L51	MINIMUM EFFECTIVE LEG ROOM — SECOND. The dimension measured along a line from the ankle pivot center to the SgRP — second plus 10.0 in. (254 mm).
H147	REAR 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.	H31	SgRP — SECOND TO HEEL. The dimension measured vertically from the SgRP — second to the two dimensional device heel point on the depressed floor covering.
H153	REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.	L48	KNEE CLEARANCE — SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 2.0 in. (51 mm).
H156	MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.	L3	COMPARTMENT ROOM — SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.
Front Compartment Dimensions		W4	SHOULDER ROOM — SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP — second within 10.0-16.0 in. (254-406 mm) above the SgRP — second.
PD1	PASSENGER DISTRIBUTION — FRONT.	W6	HIP ROOM — SECOND. Measured in the same manner as W5.
L31	SgRP — FRONT "X" COORDINATED.	H51	UPPER BODY OPENING TO GROUND — SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 13.0 in. (330 mm) forward of the SgRP — second.
H61	EFFECTIVE HEAD ROOM — FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP — front to the headline, plus 4.0 in. (102 mm).	Luggage Compartment Dimensions	
H75	EFFECTIVE T-POINT HEAD ROOM — FRONT. The minimum radius from the T-point to the headlining plus 30 in. (762 mm).	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.
L34	MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP — front plus 10.0 in. (254 mm) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.	H195	LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.
H30	SgRP — FRONT TO HEEL. The dimension measured vertically from the SgRP — front to the accelerator heel point.	Station Wagon — Third Seat Dimensions	
L17	DESIGN H-POINT — FRONT TRAVEL. The dimension measured horizontally between the design H-point — front in the foremost and rearmost seat trace positions.	PD3	PASSENGER DIRECTION — THIRD
W3	SHOULDER ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP — front within the belt line and 10.0 in. (254 mm) above the SgRP — front.	W85	SHOULDER ROOM — THIRD. Measured in the same manner as W5.
W5	HIP ROOM — FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP — front within 1.0 in. (25 mm) below and 3.0 (76 mm) above the SgRP — front and 3.0 (76 mm) fore and aft of the SgRP — front.	W86	HIP ROOM — THIRD. Measured in the same manner as W5.
H150	UPPER BODY OPENING TO GROUND — FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP — front "X" plane.	L86	EFFECTIVE LEG ROOM — THIRD. The dimension measured along a line from the ankle pivot center to the SgRP — third plus 10.0 in. (254 mm).
H18	STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.	H86	EFFECTIVE HEAD ROOM — THIRD. The dimension measured along a line 8 deg. from the SgRP — third to the headlining rear of vertical plus a constant of 4.0 in. (102 mm).
L40	BACK ANGLE — FRONT. The angle measured between a vertical line through the SgRP — front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.	H89	EFFECTIVE T-POINT HEAD ROOM — THIRD. Measured in the same manner as H75.
Rear Compartment Dimensions		Station Wagon — Cargo Space Dimensions	
PD2	PASSENGER DISTRIBUTION — SECOND.	L200	CARGO LENGTH — OPEN — FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
L50	SgRP COUPLE DISTANCE. The dimension measured horizontally from the driver SgRP — front to the SgRP — second.	L201	CARGO LENGTH — OPEN — SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
H63	EFFECTIVE HEAD ROOM — SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 4.0 in. (102 mm).	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 tail door for station wagons, trucks and mpv's at the zero "Y" plane.
H76	EFFECTIVE T-POINT HEAD ROOM — SECOND. Measured in the same manner as H75.		

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Interior Car And Body Dimensions — Key Sheet
Dimensions Definitions

- L203 CARGO LENGTH — CLOSED — SECOND. The dimension measured horizontally from the back of the second seat at the height of the undeepressed floor covering to the rearmost point on the undeepressed 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 back panel 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 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.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undeepressed floor covering to the headlining, at the rear wheel "X" coordinated on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undeepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND (CURB WEIGHT). The dimension measured vertically from the top of the undeepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

- V2 STATION WAGON
 Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = \text{Ft.}^3$$

 Measured in mm:

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

- V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

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 electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

- H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undeepressed floor covering.
- 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.
- V3 HATCHBACK.
 Measured in inches:

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{Ft.}^3$$

 Measured in mm:

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

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