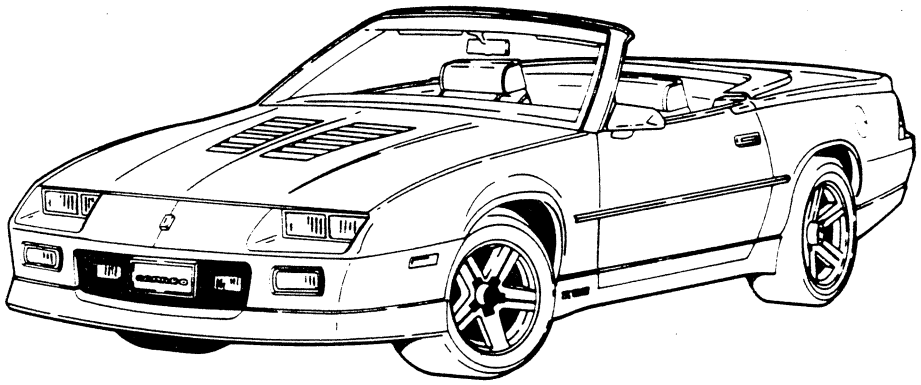
2731CAMA-90

CHEVROLET

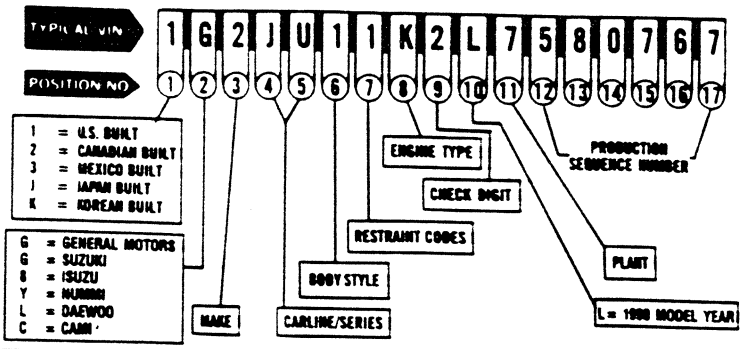
CAMARO

1990
SPECIFICATIONS



THE HEARTBEAT OF AMERICA. TODAY'S CHEVROLET.

1990 PASSENGER CAR VIN SYSTEM



3 MAKE

1 - CHEVROLET	4 - BUICK	6 - CADILLAC
2 - PONTIAC	5 - PONTIAC INCOMPLETE	7 - GM OF CANADA
3 - OLDSMOBILE		

4-5 CARLINE/SERIES

CHEVROLET

- A/W - CELEBRITY
- B/L - CAPRICE
- B/W - CAPRICE CLASSIC
- B/U - CAPRICE BROUGHAM
- F/P - CAMARO SPORT COUPE AND CONV
- J/C - CAVALIER
- J/F - CAVALIER Z24
- L/T - CORSICA
- L/Y - BERETTA
- L/W - BERETTA GT
- L/Z - CORSICA LTZ & BERETTA GTZ
- M/R - GEO METRO LSi & CONV
- M/S - GEO METRO
- M/T* - SPRINT
- N/F - GEO STORM
- N/T - GEO STORM GSi
- S/X - GEO PRIZM
- S/L - GEO PRIZM GSi
- W/L - LUMINA
- W/W - LUMINA EUROSPORT
- Y/Y - CORVETTE
- Y/Z - CORVETTE ZR1

PONTIAC

- A/J - 6000 SE
- A/F - 6000 LE
- F/S - FIREBIRD
- F/W - TRANS AM
- N/X - BONNEVILLE LE
- N/Y - BONNEVILLE SSE
- N/Z - BONNEVILLE SE
- J/B - SUNBIRD LE
- J/D - SUNBIRD SE
- J/U - SUNBIRD GT
- M/R - FIREFLY LE/TURBO
- M/T - FIREFLY
- M/E - GRAND AM LE
- M/W - GRAND AM SE
- T/H - LEMANS
- T/S - LEMANS GSE
- T/X - LEMANS AERO COUPE
- W/J - GRAND PRIX LE
- W/T - GRAND PRIX STE
- W/P - GRAND PRIX SE

OLDSMOBILE

- A/J - CUTLASS CIERA S and CUTLASS CRUISER WAGON
- A/L - CUTLASS CIERA
- A/W - CUTLASS CIERA SL and CUTLASS CRUISER SL WAGON
- A/S - CUTLASS CIERA INTERNATIONAL SERIES
- B/P - CUSTOM CRUISER WAGON
- C/V - TOURING SEDAN
- C/W - NINETY EIGHT REGENCY BROUGHAM
- C/X - NINETY EIGHT REGENCY
- E/Y - TORONADO TROFEO
- E/Z - TORONADO
- H/R - EIGHTY EIGHT ROYALE
- H/Y - EIGHTY EIGHT ROYALE BROUGHAM
- H/F - CUTLASS CALAIS S
- H/E - CUTLASS CALAIS INTERNATIONAL SERIES
- H/L - CUTLASS CALAIS
- H/T - CUTLASS CALAIS SL
- W/H - CUTLASS SUPREME
- W/R - CUTLASS SUPREME INTERNATIONAL SERIES
- W/S - CUTLASS SUPREME SL
- W/T - CUTLASS SUPREME CONV

BUICK

- A/H - CENTURY CUSTOM
- A/L - CENTURY LIMITED AND ESTATE WAGON
- B/B - COACHBUILDER WAGON
- B/R - ESTATE WAGON
- C/F - ELECTRA T-TYPE
- C/U - ELECTRA PARK AVENUE ULTRA
- C/W - ELECTRA PARK AVENUE
- C/X - ELECTRA LIMITED
- E/C - REATTA
- E/Z - RIVIERA
- H/P - LE SABRE CUSTOM
- H/R - LE SABRE LIMITED
- H/C - SKYLARK CUSTOM (4-DR)
- H/B - SKYLARK LUXURY (4-DR)
- H/J - SKYLARK CUSTOM (2-DR)
- H/B - SKYLARK GRAND SPORT (2-DR)
- H/V - SKYLARK
- W/B - REGAL CUSTOM
- W/B - REGAL LIMITED

CADILLAC

- C/B - FLEETWOOD
- C/D - DEVILLE
- C/S - FLEETWOOD SIXTY SPECIAL
- D/W - BROUGHAM
- E/L - ELDORADO
- K/S - SEVILLE
- K/Y - SEVILLE TOURING SEDAN
- V/R - ALLANTE (CONV HARDTOP)
- V/S - ALLANTE (CONV)

GM OF CANADA

- L/T - TEMPEST
- M/R - FIREFLY
- M/T - FIREFLY LE
- T/H - OPTIMA LS
- T/R - OPTIMA GLS
- T/S - OPTIMA GSi
- T/X - OPTIMA

*U.S. CUSTOMS TERRITORIES AND/OR CANADA

6 BODY STYLE

1	TWO-DOOR COUPE/SEDAN (GM STYLES: 11, 27, 37, 47, 57, 97)
2	TWO-DOOR HATCHBACK/LIFTBACK (GM STYLES: 07, 08, 77, 87)
3	TWO-DOOR CONVERTIBLE (GM STYLE: 67)
4	TWO-DOOR STATION WAGON (GM STYLE: 15)
5	FOUR-DOOR SEDAN (GM STYLES 19, 69)
6	FOUR-DOOR HATCHBACK/LIFTBACK (GM STYLE: 68)
7	FOUR-DOOR LIFTBACK (GM STYLE: 68)
8	FOUR-DOOR STATION WAGON (GM STYLE: 35)

7 RESTRAINT CODES

1	MANUAL BELTS
3	MANUAL BELTS W/DRIVER INFLATABLE RESTRAINT SYSTEM
4	AUTOMATIC BELTS

8 ENGINE TYPE

CODE	DISP.	CYL.	FUEL SYSTEM	DIVISION USAGE	PRODUCED IN*
A	2.3	L4	FI	1,2,3	U
C	3.8	V6	FI	2,3,4	U
D	2.3	L4	FI	2,3,4	U
E	5.0	V8	FI	1,2	U,C
F	5.0	V8	FI	1,2	U
G	2.2	L4	FI	1	U
J	5.7	V8	FI	1	U
K	2.0	L4	FI	2	8
L	3.8	V6	FI	4	U
M	2.0	L4	FI	2	8
N	3.3	V6	FI	3,4	U
R	2.5	L4	FI	1,2,3,4	U
T	3.1	V6	FI	1,2,3,4	M,C
U	2.5	L4	FI	2,3,4	U
V	3.1	V6	FI	2	U
Y	5.0	V8	4BBL	1,3,4,6	U
Z	4.3	V6	FI	1	U
2	1.0	L3	FI	7	J
3	4.5	V8	FI	6	U
5	1.6	L4	FI	1	J
6	1.6	L4	FI	2,7	K
6	1.0	L3	FI	1,7	J
6	1.6	L4	FI	1	J
7	5.7	V8	FI	1,6	U,C
8	5.7	V8	FI	1,2	U
8	4.5	V8	FI	6	U
9	5.0	V8	4BBL	5	U

*LEGEND

U = U.S.
C = CANADA
M = MEXICO
K = KOREA
J = JAPAN
8 = BRAZIL

11 PLANT

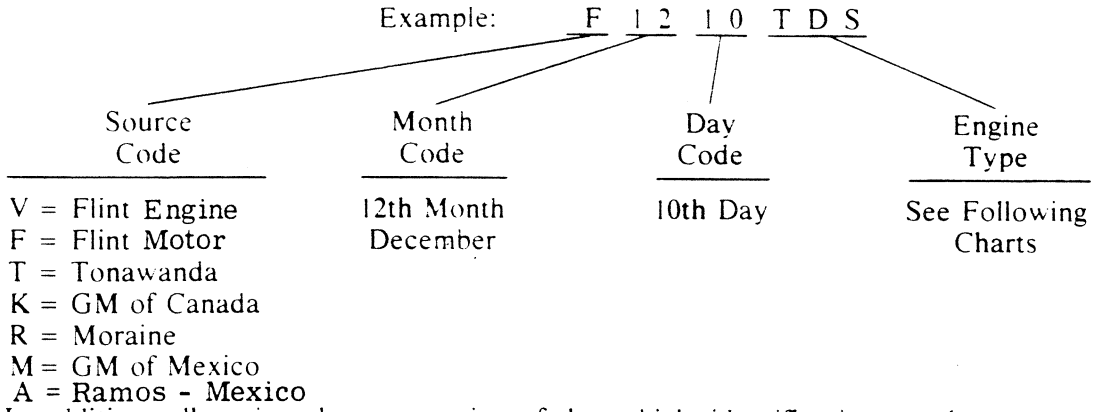
A	LAKEWOOD	GA	F	FLINT (T&B)	MI	U	HAMTRAMCK	MI	0	PONTIAC (T&B)	MI	5	BOWLING GREEN	KY
B	LANSING (GMCB)	MI	H	FLINT	MI	V	PONTIAC (T&B)	MI	1	WENTZVILLE	MO	6	INGERSOLL	ON
B	BALTIMORE (T&B)	MD	J	JANESVILLE (T&B)	WI	W	WILLOW RUN	MI	1	OSHAWA #2	ON	6	OKLAHOMA CITY	OK
B	PUPYONG	KOR	J	JANESVILLE	WI	W	WAIATA	JAP	2	MORAINE (T&B)	OH	7	LORDSTOWN	OH
C	LANSING	MI	K	KOSAI	JAP	Y	WILMINGTON	DE	2	STE THERESE	PQ	7	FUJISAWA	JAP
D	DORAVILLE	GA	L	VAN NUYS	CA	Z	FREMONT	CA	3	DETROIT (T&B)	MI	8	SHREVEPORT (T&B)	LA
E	LINDEN	NJ	M	LANSING	MI	Z	FORT WAYNE (T&B)	IND	3	KAWASAKI	JAP	8	OSHAWA #1	ON
E	PONTIAC (T&B)	MI	R	ARLINGTON	TX				4	ORION	MI			
F	FAIRFAX II	KS	S	RAMOS ARIZPE	MEX				4	SCARBOROUGH	ON			
			T	TARRYTOWN (T&B)	NY									

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

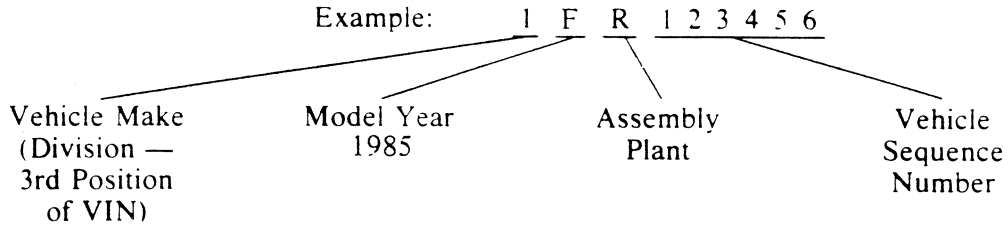
ENGINE ASSEMBLY IDENTIFICATION

CHEVROLET ENGINE PRODUCTION CODE

Chevrolet produced engines are 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 alphabetic codes used, regardless of manufacturer, appear in the following pages.



In addition, all engines have a portion of the vehicle identification number stamped near the engine production code. This consists of the division code, model year, assembly plant and vehicle build sequence number.



***NOTE:** Pre 1980 production used numerical characters (last digit of model year) to identify model year. 1980 started the progressive use of alphabetic characters.

(1) DIVISION (PRIOR TO 1979)

1 — Chevrolet
2 — Pontiac
3 — Oldsmobile
4 — Buick
5 — GMC Truck
6 — Cadillac
7 — GM of Canada

Since 1979

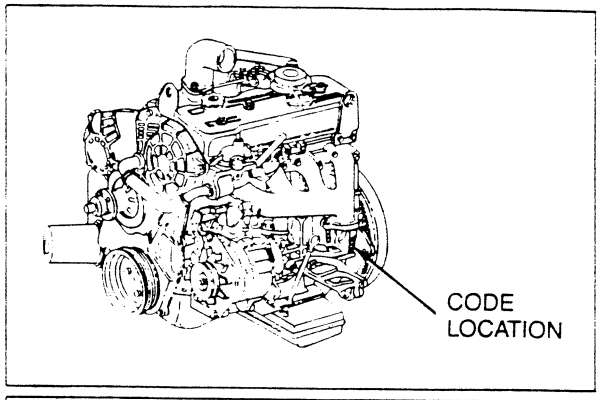
1 — Chevrolet
2 — Pontiac
3 — Oldsmobile
4 — Buick
5 — GM Overseas
6 — Cadillac
7 — GM of Canada
8 —
9 — GM Overseas
C — Chev. Truck
T — GMC Truck

(3) PLANT

A – Lakewood
B – Baltimore
C – Lansing (B)
D – Doraville
E – Linden
F – Flint (Chev.)
G – Framingham
H – Flint (Buick)
J – Janesville
K – Kosai
K – Leeds
L – Van Nuys
M – Lansing
N – Norwood
P – Pontiac (Pont.)
Q — Detroit (Not used in 1980)
R — Arlington
S — St. Louis
S — Ramos Arizpe
T — Tarrytown
U — Hamtramck
V — Pontiac (GMC)
W — Willow Run
X — Fairfax
Y — Wilmington
Z — Fremont
1 — Wentzville
1 — Oshawa #2
2 — Moraine (T&B)
2 — St. Therese
3 — Detroit (T&B)
3 — St. Eustache
3 — Kawasaki
4 — Orion
4 — Scarborough
5 – Bowling Green
5 – London
6 – Oklahoma City
7 – Lordstown
8 – Shreveport
8 – Fujisawa, Japan (Luv)
9 – Detroit (Cad.)
9 – Oshawa #1
0 – GM Truck Pontiac

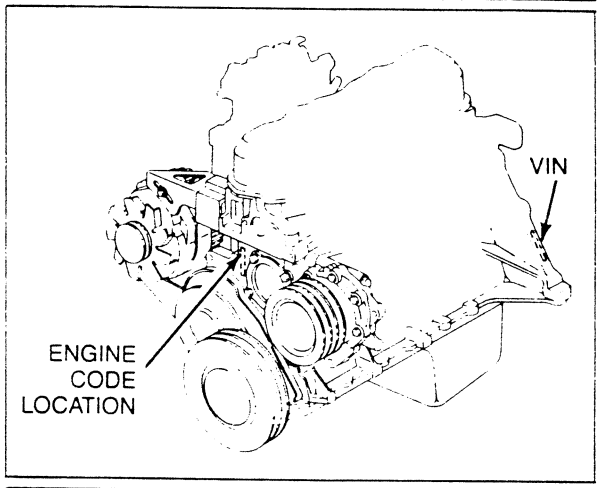
1.8 AND 2.2 LITER DIESEL L-4 — ISUZU

The code is stamped on a vertical pad at the left rear of the cylinder case at the bottom.



2.5 LITER GASOLINE L-4 — PONTIAC

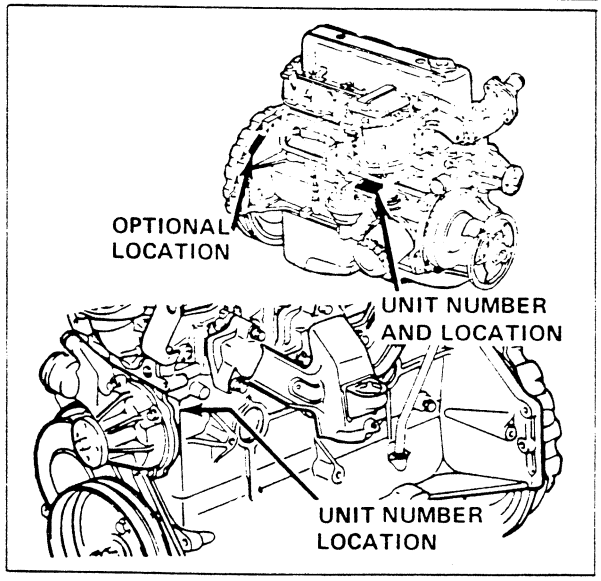
Since 1981, the code is on a sticker, placed on the timing gear cover. It is also stamped on the cylinder case, by the water pump, just below the head.



Pre-1981 engines have the code stamped on the right side of the cylinder case, on a pad, rearward of the distributor.

OR

at the forward end of the cylinder case, by the water pump.

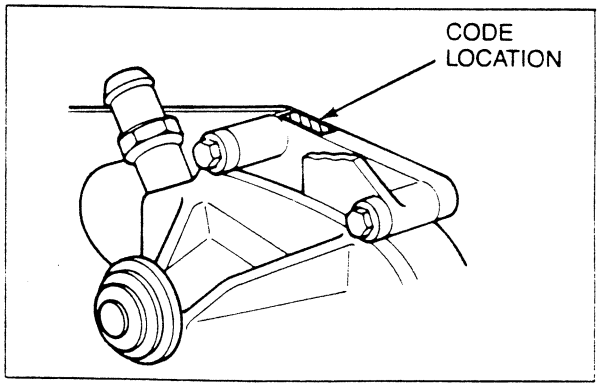


2.8 LITER GASOLINE 60° V-6 — CHEVROLET

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

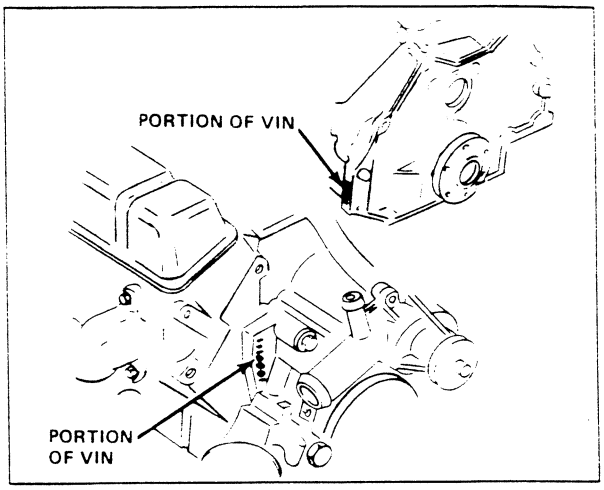
OR

on a machined horizontal pad on the right forward side of the cylinder case just below the cylinder deck.



3.2 AND 3.8 LITER GASOLINE V-6 — BUICK

In 1978 the code was located on the front surface of the cylinder case, forward of the right cylinder head. Since 1978, the code is stamped on a pad at the left rear of the cylinder case.

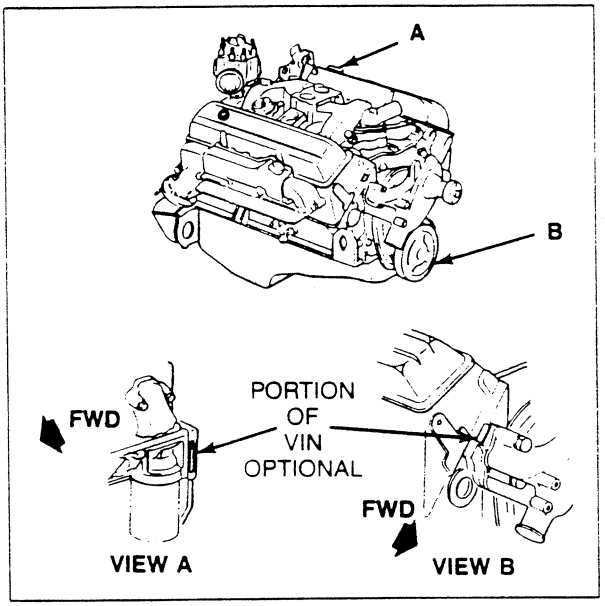


3.3, 3.8, 4.3, 4.4, 5.0, 5.7 AND 6.6 LITER GASOLINE 90° V-BLOCK — CHEVROLET

The code is stamped on a cylinder case pad immediately forward of the right hand cylinder head.

OR

The code may be on the vertical surface rearward of the oil filter location.

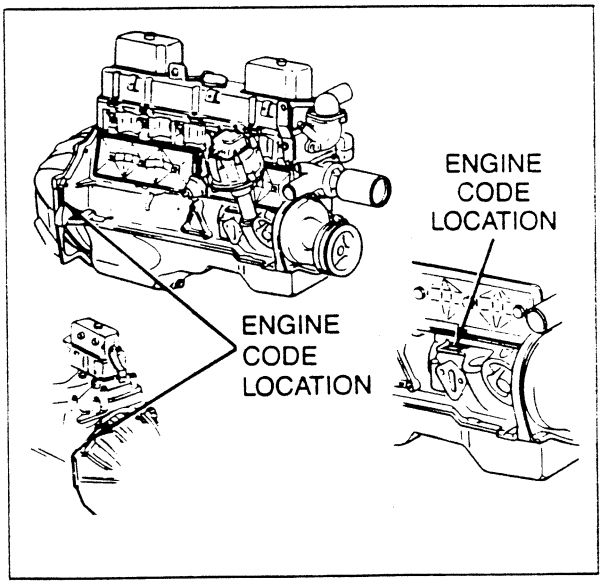


4.1 AND 4.8 LITER GASOLINE L-6 — CHEVROLET

The code is stamped on a pad on the right hand side of the cylinder case, just rear of the distributor.

OR

The code may be on the vertical surface, either left or right hand side, of transmission mounting flange.



ENGINE ASSEMBLY CODES IDENTIFICATION (CONT'T)

1990

3.1(189) - LHO
VIN T

BSH BLD CDC

5.0(305) - LO3
VIN E

BLC BLD

5.7(350) - L98
VIN 8

BMK BMB

5.0(305) - LB9
VIN F

BLJ BLF BLH

ENGINE AND TRANSMISSION USAGE (CON'T)

1990

M39 -5 SPD MAN.

DKB

MD8 - 4 SPD A.T.
THM700R4

OFZM OFBM OFTM OFUM

MB1 - 5 SPD MAN.

DKC

MK6 5 SPD MAN.

DKA

TRANSMISSION IDENTIFICATION

ASSEMBLY CODE TO TRANSMISSION (CONT'D)

1990

OFZM - MD8
DKB - M39

OFBM - MD8
DKC - MB1

OFTM - MD8

OFUM - MD8

DKA - MK6

TRANSMISSION IDENTIFICATION (CONT'D)

(INCLUDING AXLE RATIO)

TRANSMISSION TO ASSEMBLY CODES

Note: Transmission identification can be located in one of three positions on the transmission.
A. Identification plate on side of case
B. Stamping number on governor cover
C. Ink stamped on bell housing

1990

VIN CODE	CUBIC DISP	LITER TYPE	ENGINE TYPE	TYPE TYPE	ENGINE OPT.	SERIES USAGE	TRANSMISSION USAGE
8	350	5.7	V8	FI	L98	F	MD8
F	305	5.0	V8	FI	LB9	F	MD8,MK6
E	305	5.0	V8	FI	LO3	F	M39,MD8
T	189	3.1	V6	FI	LHO	F	MB1,MD8

AUTO TRANS.

MD8 700-R4/4L60 4 SPEED

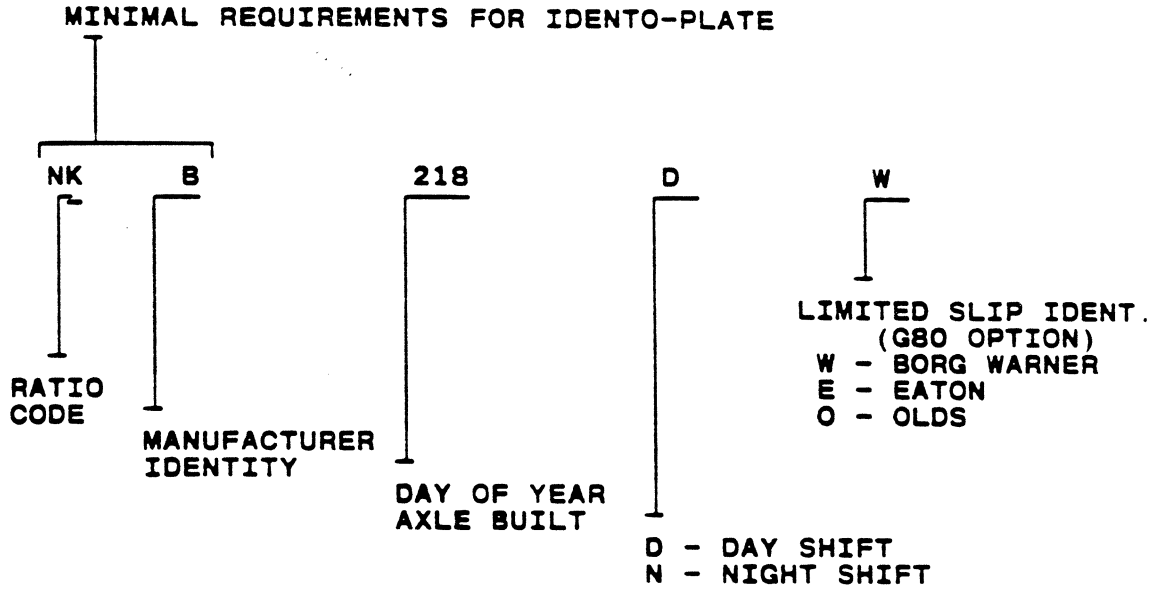
MAN. TRANS.

MB1 5 SPEED
M39 5 SPEED
MK6 5 SPEED

REAR AXLE FIELD IDENTIFICATION

Axles 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

AXLE IDENTIFICATION CODES (CONT'D)

(*INDICATES POSITRACTION)

1990

2.73 RATIO CODE	GU2 OPTION RING GEAR
8HP	7.625
8HT*	7.625
8HE*	7.625

3.08 RATIO CODE	GU4 OPTION RING GEAR
8HF*	7.625
8HK	7.625
8HB*	7.625

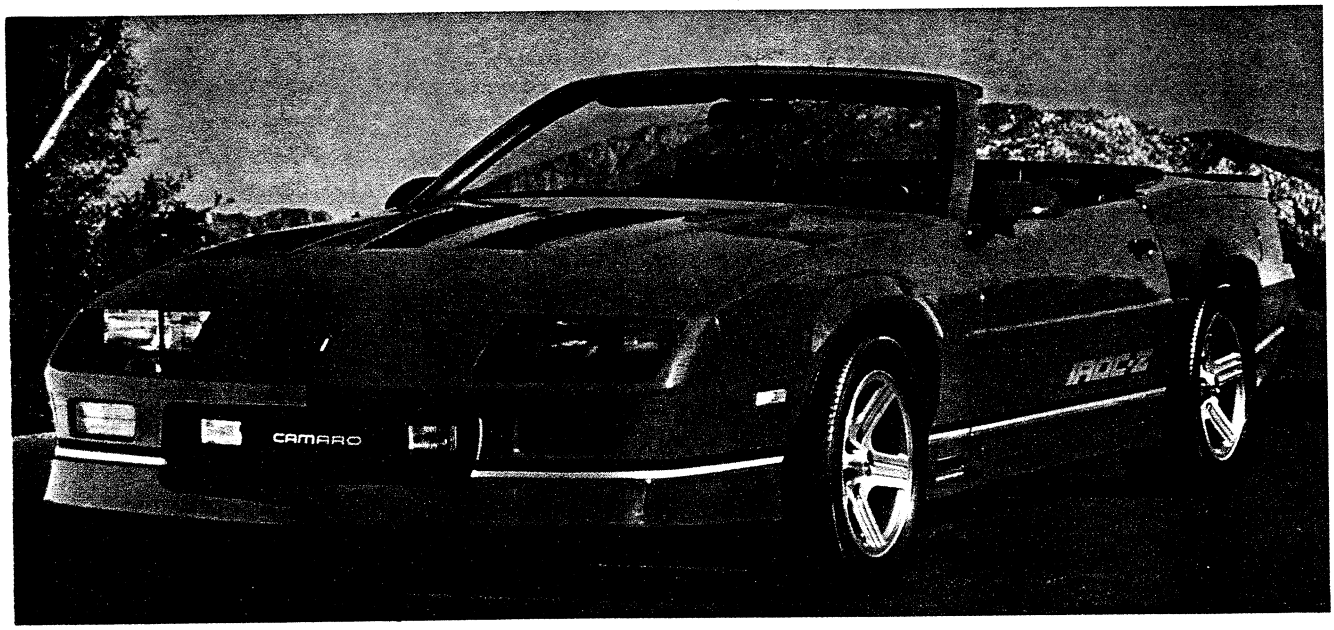
3.23 RATIO CODE	GU5 OPTION RING GEAR
2PM*	7.625
8HJ	7.625

3.27 RATIO CODE	GW6 OPTION RING GEAR
8EV*	7.75
9EQ*	7.75

3.42 RATIO CODE	GU6 OPTION RING GEAR
2PN*	7.625
8HL	7.625

3.45 RATIO CODE	GM3 OPTION RING GEAR
8EW*	7.75

THE CAMARO STORY



INTRODUCTION

In 1990, the Camaro challenges the competition in the sport-compact market by showcasing traditional styling and excellent performance. 1990 brings a revised lineup to the Camaro, with the upgraded Rally Sport Coupe, the racy IROC-Z and the RS or IROC-Z Convertibles.

The RS offers even more value for the money with a new standard 3.1-liter V6 MFI engine. Also, several other desirable features are now standard on RS, including tinted glass, pulse windshield wipers, tilt steering and Halogen headlamps.

The IROC-Z gets even hotter this year, with a standard 5.0L Tuned-Port Fuel Injection V8 engine for increased performance and smooth operation.

All Camaro models now offer the standard PASS-Key Anti-Theft System, new driver's side Supplemental Inflatable Restraint System, new instrument panel graphics, and Chevrolet-exclusive Scotchgard™ fabric protection.

MARKET POSITION

The compact sports car market is crowded with many domestic and import competitors. In this market, a vehicle must stand apart from the rest to succeed — the Camaro exceeds.

Most Camaro buyers appreciate its aerodynamic styling and performance. These prospects want more than just transportation. Camaro owners experience a special relationship with their car; it helps fulfill their need for recognition.

Camaro RS buyers consider its low-to-the-ground styling, personal comfort and safety features important reasons to buy, in addition to Camaro's high level of standard equipment and overall value.

For driving enthusiasts looking for pure power, the answer is the IROC-Z. The IROC's brute force, combined with the unique functional and styling upgrades place it in a class by itself.

*MAJOR COMPETITORS**

Camaro's competition for market share will be even more intense in the coming years, and will include domestic manufacturers and some domestic/import joint ventures.

The major competitors for Camaro RS include the Dodge Daytona, which showed a significant sales increase over last year. The Ford Mustang and Pontiac Firebird will also compete in the sports car segment.

IROC-Z battles aggressively with the Mustang GT and LeBaron GTC for market share.

Newer Sport entries come primarily from the import and joint-venture models. They include:

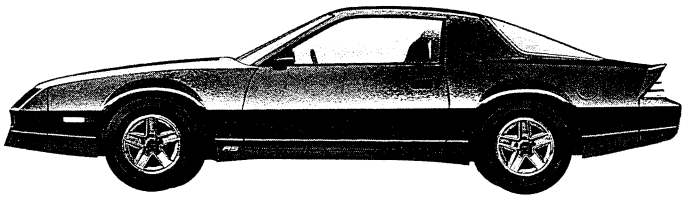
- The Ford Probe GT.
- The Honda Prelude and Toyota Celica models.

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

CAMARO MODEL OVERVIEW

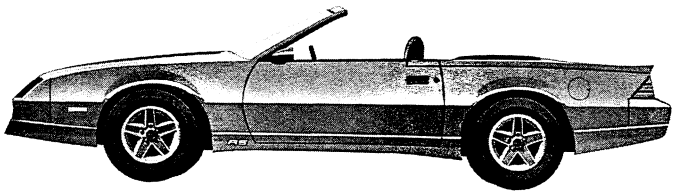
2-DOOR RS COUPE

Camaro RS Coupe makes a bold performance statement with: new 3.1L V6 MFI engine; optional 5.0L V8 EFI engine; 5-speed manual transmission with 5th gear overdrive; high energy ignition system; modified MacPherson strut front suspension; front and rear stabilizer bars; 15" Cast Aluminum Wheels and PASS-Key Anti-Theft System.



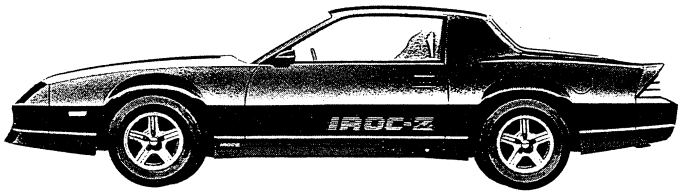
2-DOOR RS CONVERTIBLE

The RS Convertible maintains the high level of equipment that's standard on the RS Coupe, plus the following additions: black folding convertible top; 5.0L V8 EFI engine with 5-speed manual transmission.



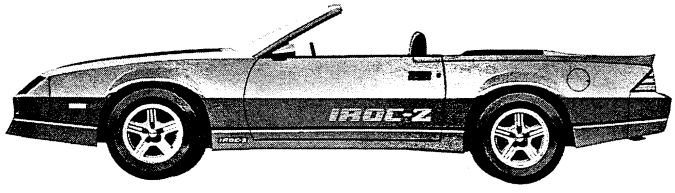
2-DOOR IROC-Z COUPE

The IROC-Z includes styling and performance features that give it a unique personality. They include: the standard 5.0L V8 TPI engine; Limited Slip Differential; optional 5.7L V8 TPI engine; fog lamps, specific striping, decals and nameplates; and black hood louvers.

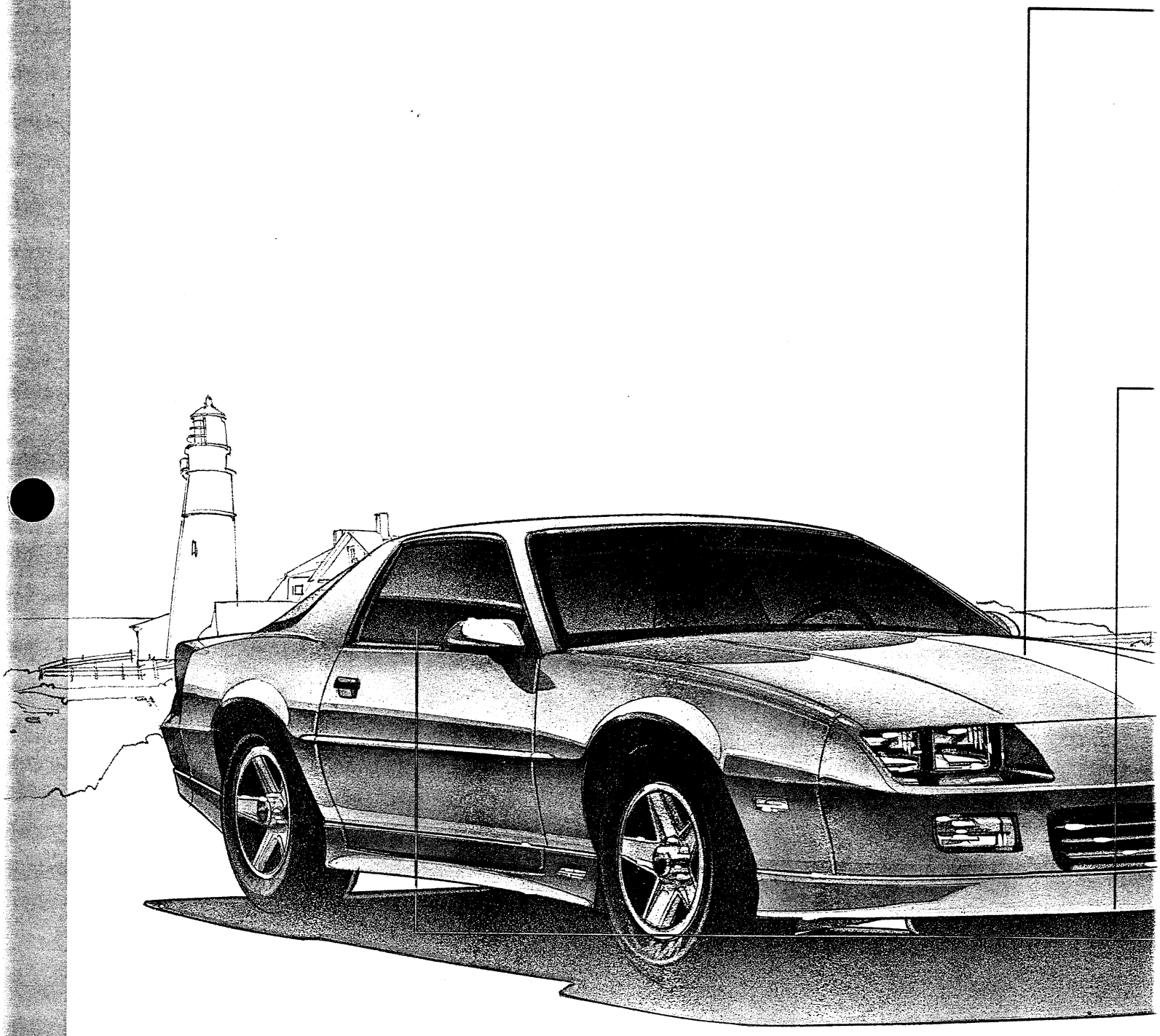


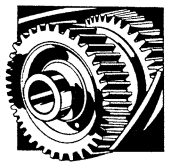
2-DOOR IROC-Z CONVERTIBLE

IROC-Z Convertible adds to the IROC-Z Coupe's features with: P245/50ZR Eagle GT+4 tires on 16" Silver or Gold Cast Aluminum Wheels; black folding convertible top; and separate deck lid with remote release.



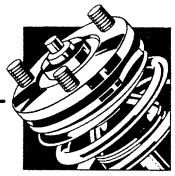
MAJOR SELLING FEATURES PRESENTATION





DRIVETRAIN FEATURES

Camaro RS Coupe now offers standard 3.1L V6 MFI. Standard on the RS Convertible, and optional on the Coupe is the 5.0L V8 EFI engine. All Camaro models have a 5-speed manual OD transmission standard, and 4-speed automatic OD optional. The IROC-Z includes: standard 5.0L V8 TPI; optional 5.7L V8 TPI and 4-speed automatic OD transmission available on IROC-Z Coupe.

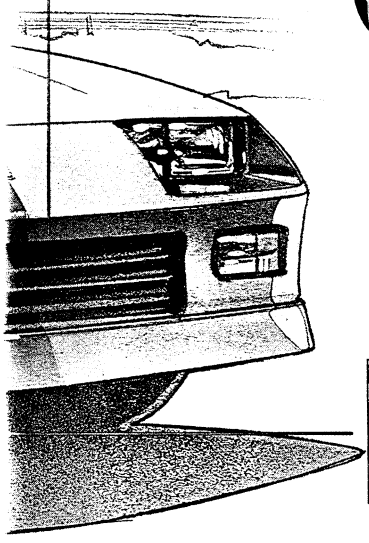


CHASSIS FEATURES

Camaro offers: modified MacPherson strut front suspension; torque arm rear suspension with coil springs, front and rear stabilizer bars; and rear-wheel drive.

BODY FEATURES

Camaro's classic aero styling is enhanced by: body-color fascias; aero panels; hood louvers on IROC-Z; optional rear window louvers; and rear deck spoiler. The Camaro has a fully unitized body; numerous sound-absorbing assemblies; standard basecoat/clearcoat paint system; smooth urethane chip-resistant film on lower panels.



INTERIOR FEATURES

Camaro's plush interior ensures a special level of comfort for driver and passengers. It includes a new leather seat option, Bose Gold Sound System, tilt steering and Scotchgard™ fabric protection. The instrument panel features full gages and new instrument panel graphics for better visibility.

NEW FOR '90

HIGHLIGHTS

- 3.1L V6 with MFI replaces the 2.8L as the standard engine for the RS Coupe model.
- 5.0L V8 TPI replaces 5.0L V8 EFI as standard engine on the IROC-Z.
- Tinted glass, pulse windshield wipers, tilt steering and Halogen headlamps now standard on all models.
- Scotchgard™ fabric protection now standard on all Camaro seats and door panels, for improved stain resistance.
- All Camaros are equipped with driver's side Supplemental Inflatable Restraint System and knee bolsters.
- New yellow instrument panel graphics replace previous white graphics for better visibility.
- Bose Gold Sound System, with a power output nearly doubled and rear speakers enlarged, is now available.
- Digital Compact Disc option now features dynamic compression for balanced generation of sound; and Delco LOC, to deter radio system thefts.
- A new full leather seat trim option is now available.
- Limited Slip Differential for greater traction on slippery surfaces — standard and only available on IROC-Z.
- 16" cast wheels standard on IROC-Z Convertible.
- The new standard wheels for the RS are 1989's IROC-Z standard wheels (Body-colored in White, Black, Red and Silver available).
- One new exterior color added: Bright Red replaces Flame Red Metallic.
- One new interior color: Red replaces Carmine.

DRIVETRAIN FEATURES

ENGINES

3.1L V6 WITH MULTI-PORT FUEL INJECTION

The 3.1L V6 MFI engine replaces the 2.8L as the standard engine on Camaro RS Coupe. The 3.1L provides more horsepower, 140 @ 4400 RPM, than last year's 6-cylinder.

Although the bore is unchanged, the stroke has increased on the 3.1L, increasing the displacement from 173 to 191 cubic inches. Additional features include:

- A speed density fuel system to measure airflow into the engine. As operating conditions change, this system ensures that the ideal amount of air-to-fuel is mixed to most effectively meet the demands of the engine.
- The 3.1L V6 features many high-tech elements such as the Electronic Control Module. The ECM receives inputs from numerous sensors to monitor and control all of the major systems of the engine and other functional components.
- Single belt accessory drive is used for running the accessories, and has easy-to-locate service filler caps.

Multi-Port Fuel Injection

The 3.1L V6 utilizes an MFI fuel delivery system to enhance performance and fuel economy. Individual fuel injectors spray fuel directly at the intake valve, bypassing the intake manifold, for more efficient operation.

5.0L V8 WITH ELECTRONIC FUEL INJECTION

The 5.0L V8 EFI is standard on the RS Convertible and optional on the Coupe. It offers:

- 170 HP @ 4000 RPM and 255 lbs.-ft. torque @ 2400 RPM.
- High energy ignition system.
- Excellent fuel economy and idle speed control.
- Maintenance-free, single serpentine belt.
- Composite cylinder head gaskets.

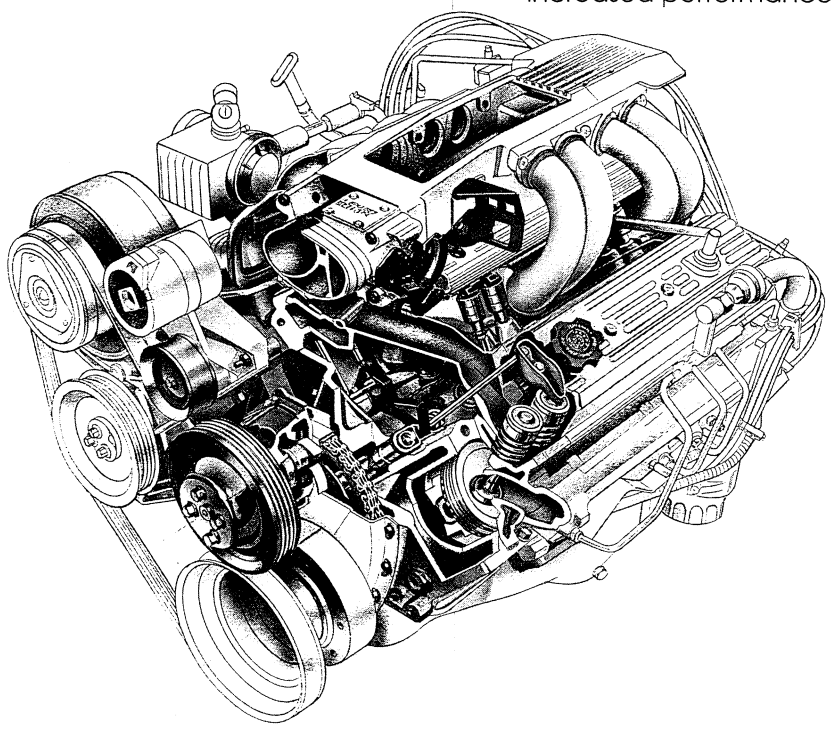
Electronic Fuel Injection

The 5.0L V8 includes Electronic Fuel Injection technology for improved fuel economy and reduced emissions. The fuel-injected engine relies on an ECM-controlled, throttle-body injection unit instead of a mechanical carburetor to monitor fuel flow to the cylinders.

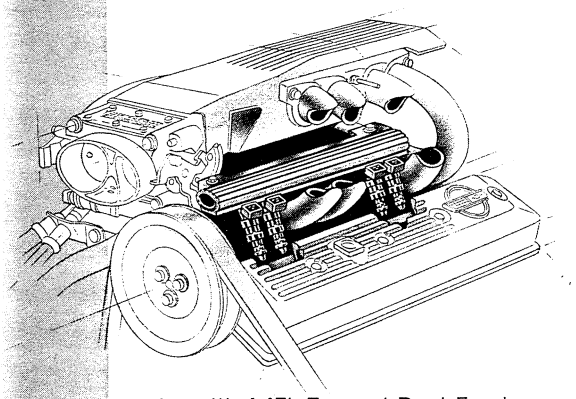
5.0L V8 WITH TUNED-PORT FUEL INJECTION

The 5.0L V8 TPI engine ***(shown below)*** replaces the 5.0L V8 EFI as the new standard engine on IROC-Z Coupes and Convertibles for 1990, and optional on the RS Convertible. It includes:

- 210 HP @ 4400 RPM and 285 lbs.-ft. torque @ 3200 RPM with manual 5-speed.
- When ordered with the Performance Axle Ratio (G92), includes 4-wheel disc brakes, and performance exhaust for increased HP (230 @ 4400 RPM) and torque (300 @ 3200 RPM).
- Higher lift camshaft for good combustion.
- Improved oxygen sensor.
- A new speed density fuel system is now standard, using the ECM to calculate the amount of air entering the engine and then determining the fuel needed to maintain the correct ratio of fuel to air.
- Eight large tuned runners channel air smoothly to each intake valve for increased performance.



Tuned-Port Fuel Injection



As with MFI, Tuned-Port Fuel Injection uses injectors positioned close to the cylinder, with one injector per cylinder. What makes the TPI system unique is the use of tubular instead of rectangular inlet runners, to channel additional air to the combustion chamber, for a smoother airflow and increased performance.

5.7L V8 TPI ENGINE

The optional 5.7L V8 TPI, available on IROC-Z Coupe, offers Camaro owners the ultimate in driving excitement. This engine delivers a large dose of what performance-minded buyers want, power.

- 245 HP @ 4400 RPM.
- 345 lbs.-ft. torque @ 3200 RPM.
- Reduced weight/higher compression pistons help increase bearing durability.
- New speed density fuel management system.
- Cast iron cylinder heads.
- Electronic spark control, to adjust timing electronically.
- Free-flow dual converter Performance exhaust is included with the 5.7L V8, MX0, and 3.23:1 axle ratio; for reduced back pressure and optimum horsepower.

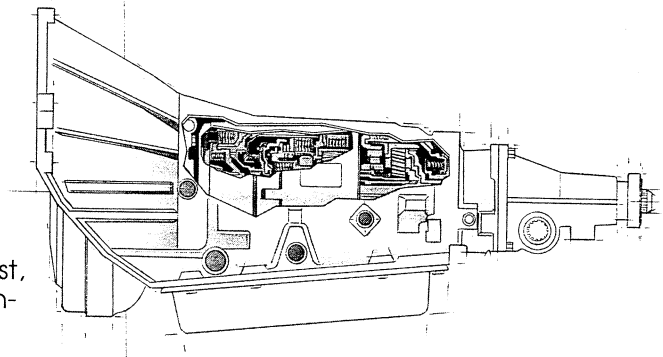
TRANSMISSIONS

5-SPEED MANUAL TRANSMISSIONS

For the driving enthusiast, Camaro features a standard 5-speed manual transmission, which includes an overdrive gear for less engine wear and lower fuel consumption.

4-SPEED AUTOMATIC TRANSMISSION

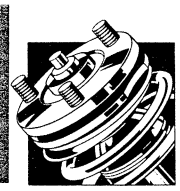
The 4-speed automatic transmission ***(shown below)*** is optionally available on the 3.1L V6, 5.0L V8 EFI, and 5.0L V8 TPI, and standard on Camaro's 5.7L V8 TPI engine. This transmission truly offers the best of both worlds. It offers automatic shifting convenience and manual fuel economy. This 4-speed utilizes a torque converter clutch that helps provide a more direct coupling of the engine and transmission for reduced engine wear and improved fuel economy.



POWERTEAM AVAILABILITY

ENGINE/TRANSMISSION	AVAILABILITY	ORDERING CODE	AXLE RATIO
3.1L MFI V6/5-Speed Manual OD	RS Coupe — Std.	LH0/MM5	3.42:1
3.1L MFI V6/4-Speed Automatic OD	RS Coupe — Opt.	LH0/MX0	3.23:1
5.0L EFI V8/5-Speed Manual OD	RS Convertible — Std. RS Coupe — Opt.	LO3/MM5 LO3/MM5	3.08:1 3.08:1
5.0L EFI V8/4-Speed Automatic OD	RS Convertible — Opt. RS Coupe — Opt.	LO3/MX0	2.73:1
5.0L TPI V8/5-Speed Manual OD	IROC-Z Coupe — Std. IROC-Z Convertible — Std. RS Convertible — Opt.	LB9/MM5	3.08:1
5.0L TPI V8/5-Speed Manual OD	IROC-Z Coupe — Opt.	LB9/MM5/G92*	3.42:1
5.0L TPI V8/4-Speed Automatic OD	IROC-Z Coupe — Opt. IROC-Z Convertible — Opt. RS Convertible — Opt.	LB9/MX0	2.73:1
5.7L TPI V8/4-Speed Automatic OD	IROC-Z Coupe — Opt.	B2L/MX0	3.23:1

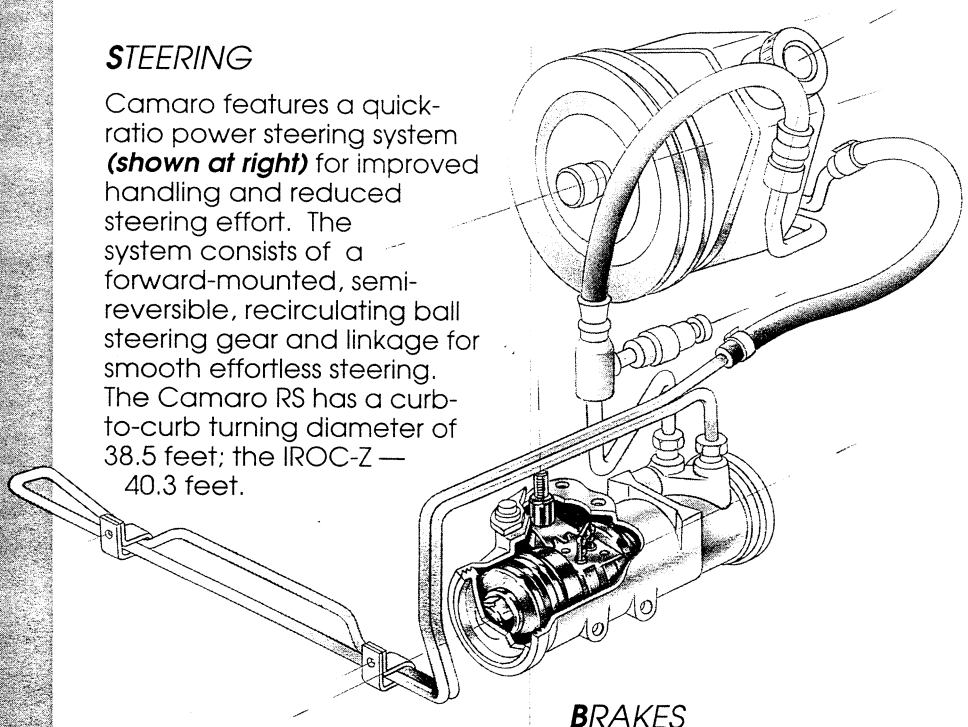
*Performance axle ratio includes 4-wheel disc brakes, engine oil cooler and performance exhaust system.



CHASSIS FEATURES

STEERING

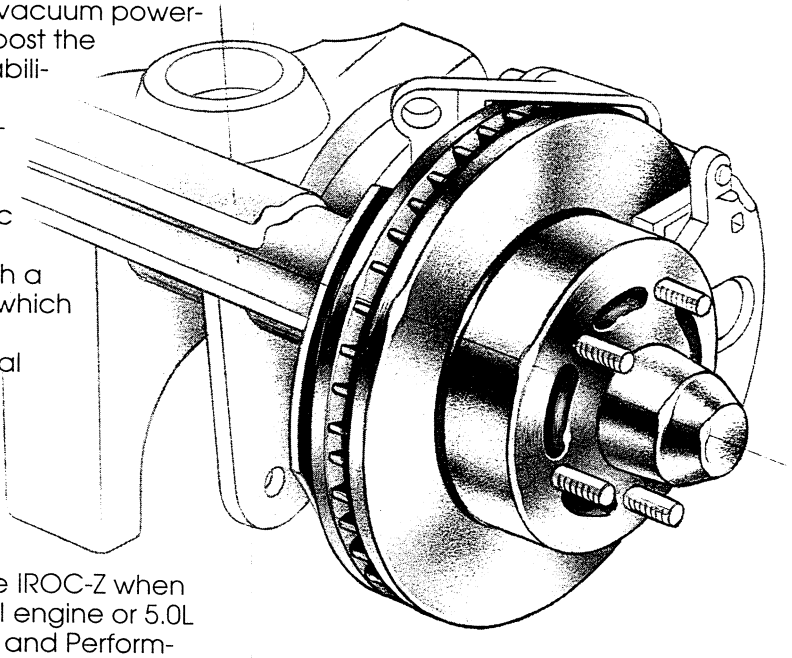
Camaro features a quick-ratio power steering system ***(shown at right)*** for improved handling and reduced steering effort. The system consists of a forward-mounted, semi-reversible, recirculating ball steering gear and linkage for smooth effortless steering. The Camaro RS has a curb-to-curb turning diameter of 38.5 feet; the IROC-Z — 40.3 feet.



BRAKES

Tandem vacuum power front disc brakes are standard on Camaro RS and IROC-Z, with duo-servo drum brakes at the rear. With today's prospects demanding high performance handling characteristics, tandem vacuum power-assist helps boost the braking capabilities. To help prevent damage to the rotors, Camaro's disc brakes are equipped with a wear sensor, which emits a high-pitched squeal when the lining requires replacement.

Disc brakes are self-cleaning and dry out quickly when wet. They are also continuously self-adjusting. And disc brakes offer greater heat dissipation, which means greater resistance to fade.

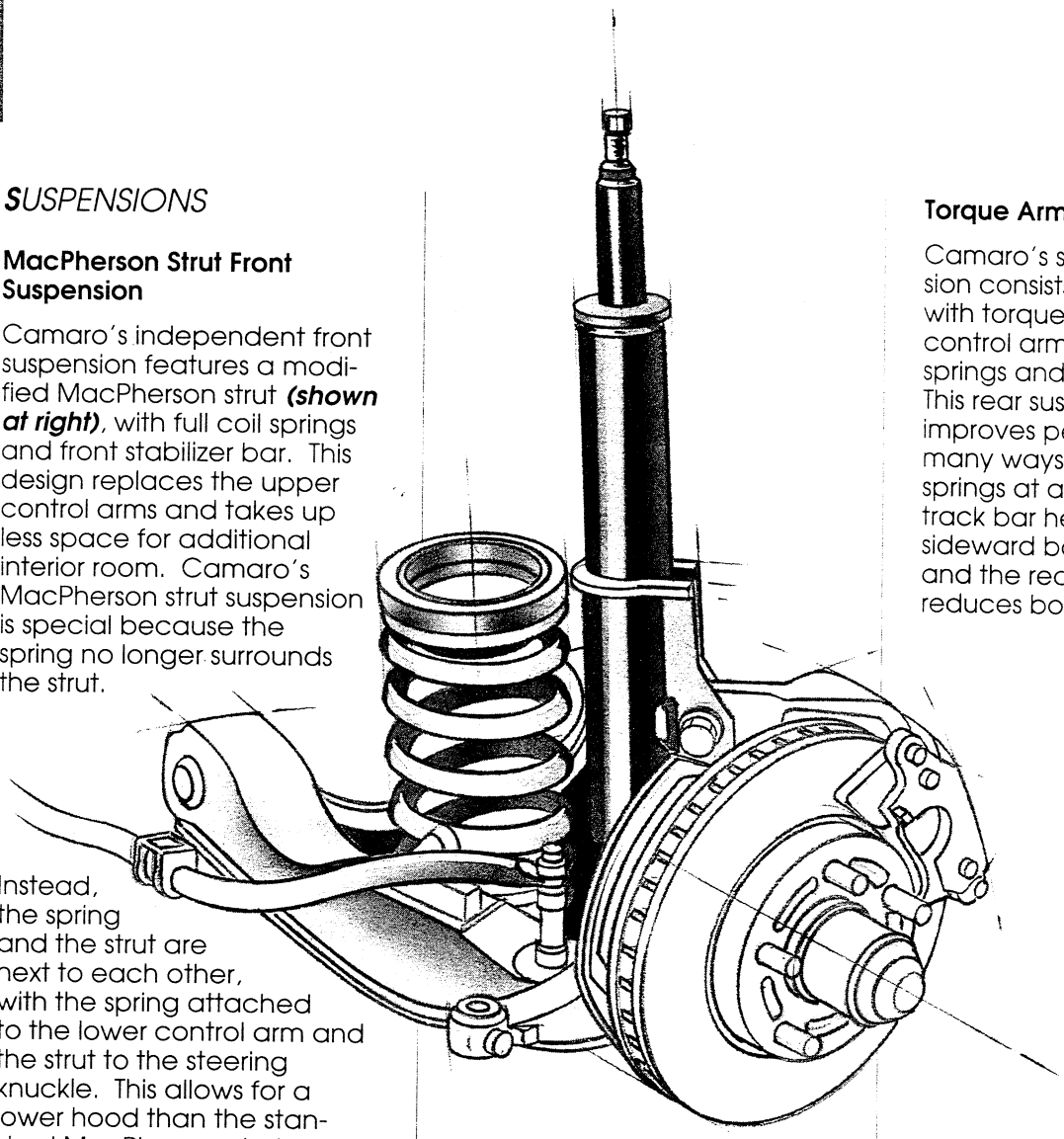


4-wheel disc brakes are included on the IROC-Z when the 5.7L V8 TPI engine or 5.0L V8 TPI engine and Performance Axle Ratio are ordered.

SUSPENSIONS

MacPherson Strut Front Suspension

Camaro's independent front suspension features a modified MacPherson strut ***(shown at right)***, with full coil springs and front stabilizer bar. This design replaces the upper control arms and takes up less space for additional interior room. Camaro's MacPherson strut suspension is special because the spring no longer surrounds the strut.



Instead, the spring and the strut are next to each other, with the spring attached to the lower control arm and the strut to the steering knuckle. This allows for a lower hood than the standard MacPherson strut design.

Other features of Camaro's independent front suspension design are:

- At each front wheel, the lower control arm is connected to the axle by a pivoting bolt in the front suspension support assembly, allowing vertical wheel travel. This lets each wheel react independently of each other for better control and a smoother ride.
- The front stabilizer bar helps control the vehicle when making hard turns or quick maneuvers.

Torque Arm Rear Suspension

Camaro's sporty rear suspension consists of a driving axle with torque arm, integrated control arm, track bar, coil springs and rear stabilizer bar. This rear suspension system improves performance in many ways. Camaro has coil springs at all four wheels. The track bar helps control sideward body movement and the rear stabilizer bar reduces body roll.

BODY FEATURES

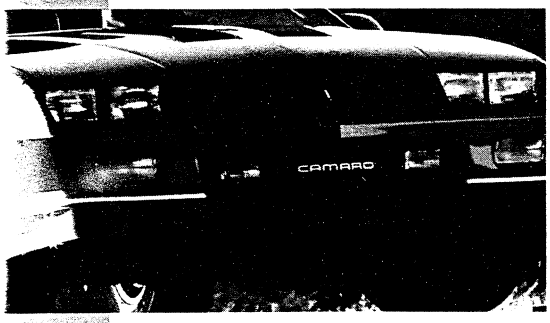
STYLING

Camaro's sleek styling and performance command attention, whichever model you choose.

Camaro RS Coupe and Convertible

The Rally Sport Camaro includes the following standard features:

- All Camaros are finished with a basecoat/clearcoat paint, a painting system which applies a clear finish over a base color coat. This unique paint system is known for its gloss and durability, and helps provide protection from chemical spotting and breakdown from ultraviolet rays.



- Recessed dual rectangular Halogen headlamps in body-color areas enhance Camaro's aggressive look and offer brighter light than conventional sealed beams.
- Front air dam and ground effects rocker moldings contribute to aerodynamics as well as styling.
- Camaro's sharp design is highlighted by dual, color-keyed sport mirrors, black windshield and drip gutter moldings, parking lamps, black grille, body-color front fascia and distinctive RS nameplate and body striping.

- Body-color lower aero panels, body-color rear deck spoiler with stop lamp, marker lamps and wraparound, three-element lens tail lamp.
- Camaro RS features standard steel-belted radial-ply P215/65R15 Touring tires, and IROC-style 15" Cast Aluminum Wheels.
- Black manual-folding top on Convertible.

Camaro IROC-Z Coupe and Convertible

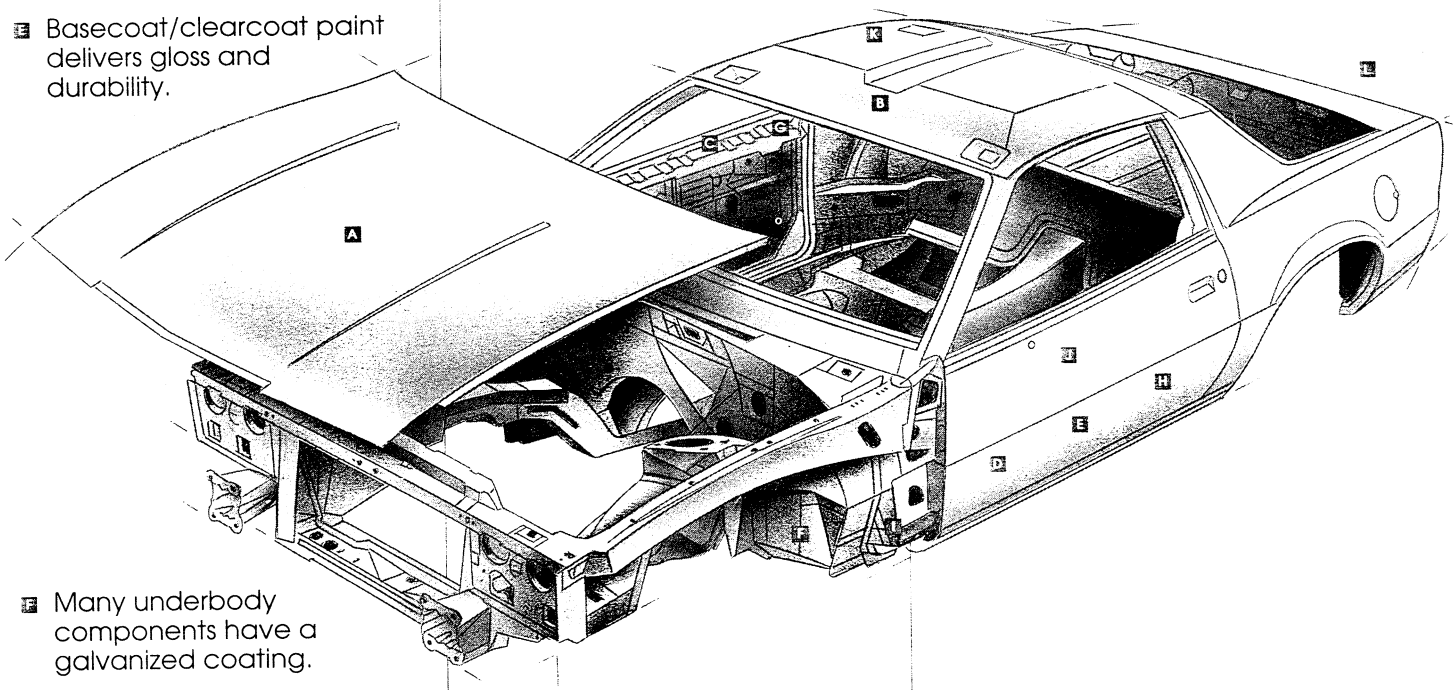
IROC-Z delivers performance and exciting styling, with these upgrades:

- Black simulated louvers on the hood for a racy look.
- Black accent door handles.
- Distinctive Camaro gold or silver lettering on lower front fascia.
- Halogen fog lamps for better visibility.
- Specific striping and color-coordinated IROC-Z door badging.
- Specific tail lamps with black accent paint and black license opening panels.
- 3-Piece rear spoiler design.
- Eagle GT P215/65R15 tires and 15" Cast Aluminum Wheels are standard on the IROC-Z Coupe.
- P245/50ZR Eagle GT+4 Touring tires on 16" Cast Aluminum Wheels are standard on the IROC-Z Convertible.

BODY PROTECTION FEATURES

Many built-in features assure Camaro's long-lasting beauty and durability:

- **A** Hood insulator pad.
- **B** One-piece molded headliner provides an acoustical sound deadener.
- **C** Windshield and rear windows are flush-mounted to reduce wind noise.
- **D** Electrodeposition primer precedes basecoat/clearcoat finish.
- **E** Basecoat/clearcoat paint delivers gloss and durability.
- **I** The doors, roof, hood and hatch lid are double panel construction.
- **K** The entire body is a unitized design for both the body and chassis, welded into one strong lightweight unit.
- **L** Bumper fascias protect against minor dings and scrapes.



- **F** Many underbody components have a galvanized coating.
- **G** The modular door lock hardware is pre-assembled for proper operation.
- **H** All exposed surfaces are pre-treated with corrosion resistants.
- **J** The most vulnerable corrosive areas are "engineered out" during the design process to limit their exposure.

INTERIOR FEATURES

THE COMFORT/ CONVENIENCE STORY

Seats

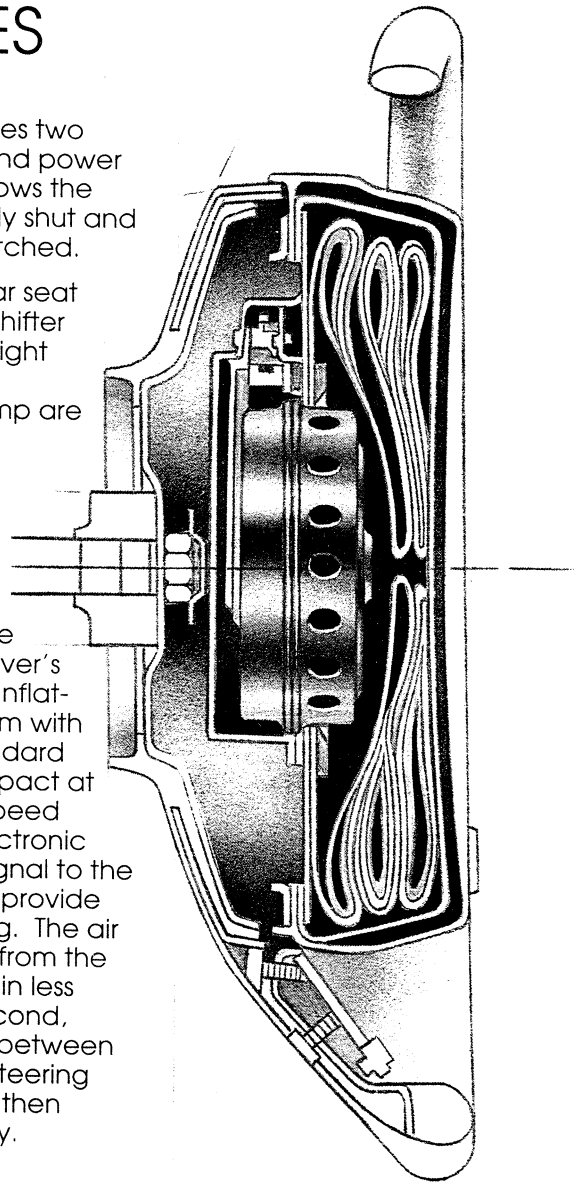
To create the special atmosphere Camaro owners desire, reclining bucket seats with integral headrests are standard on all Camaro models, with a six-way power driver's seat optional. Three comfortable trim levels are available, including an upgraded all-leather option. Interior colors have been upgraded for '90, and Scotchgard™ fabric protection is standard on seats and door panels for increased stain resistance.

Appointments

Camaro offers plenty of storage space, with a rear hatch opening onto a deep-well stowage area. A center console storage compartment with padded cover serves as a glove compartment and armrest.

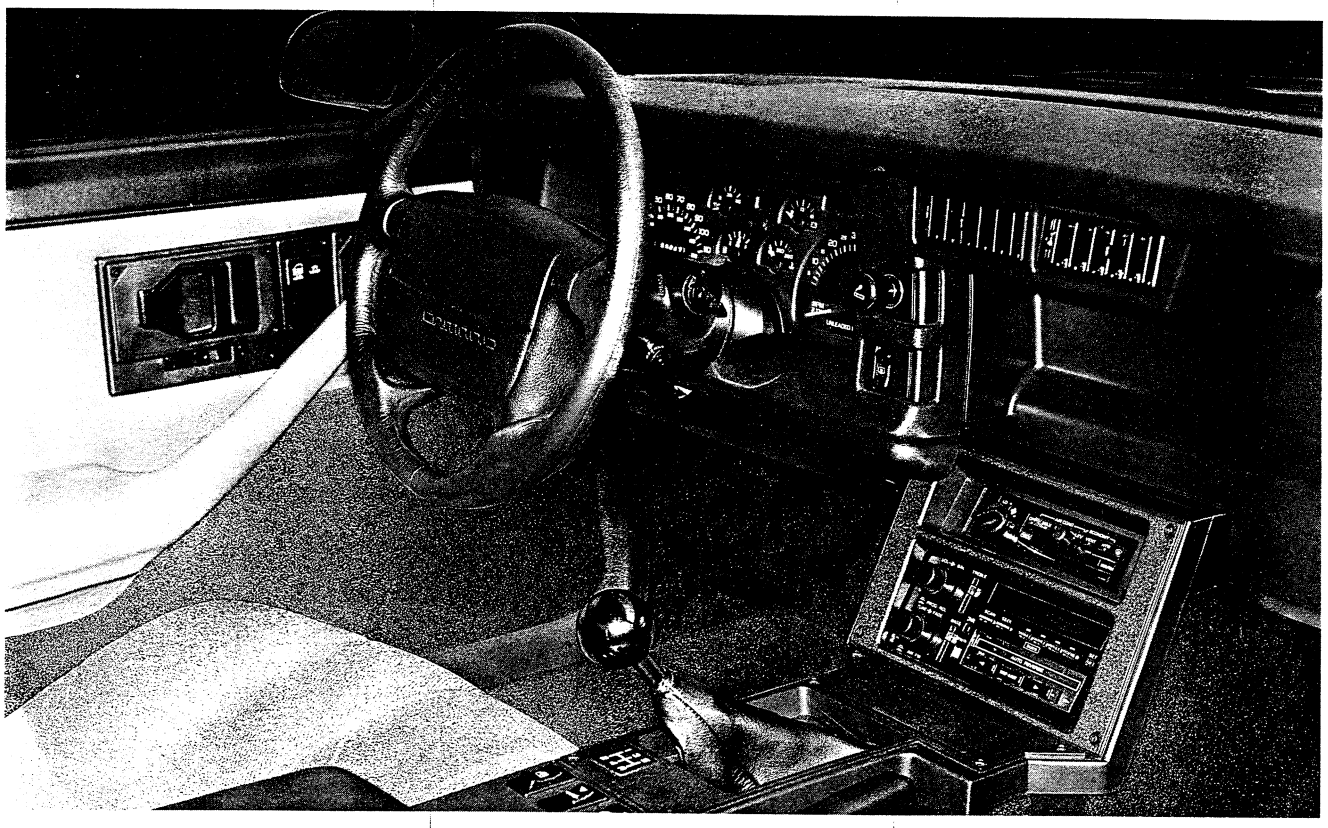
Many other features help make Camaro's interior a welcome environment:

- Tilt steering is now standard for added driver comfort.
- Tinted glass cuts glare and helps keep the interior comfortable.
- PASS-Key is standard on all Camaros — a convenient and effective Anti-Theft System, which requires no unusual action by the driver and should reduce insurance rates.
- Day/Night rearview mirror is standard on all Camaros, Dual reading lamps are included on all Convertibles.
- Power remote hatch opener provides added convenience.
- The hatch includes two gas-filled struts and power latching. This allows the hatch to be easily shut and automatically latched.
- Front ashtray, rear seat ashtray, lighted shifter quadrant, main light switch, and front ashtray/radio lamp are also included.



Driver's Side Supplemental Inflatable Restraint System

A supplement to the front seat belt, a driver's side Supplemental Inflatable Restraint System with knee bolsters is standard for 1990. Frontal impact at a predetermined speed causes multiple electronic sensors to send a signal to the gas inflators, which provide gas to fill the air bag. The air bag then pops out from the steering wheel hub in less than 1/10th of a second, acting like a pillow between the driver and the steering wheel. The air bag then deflates very quickly.

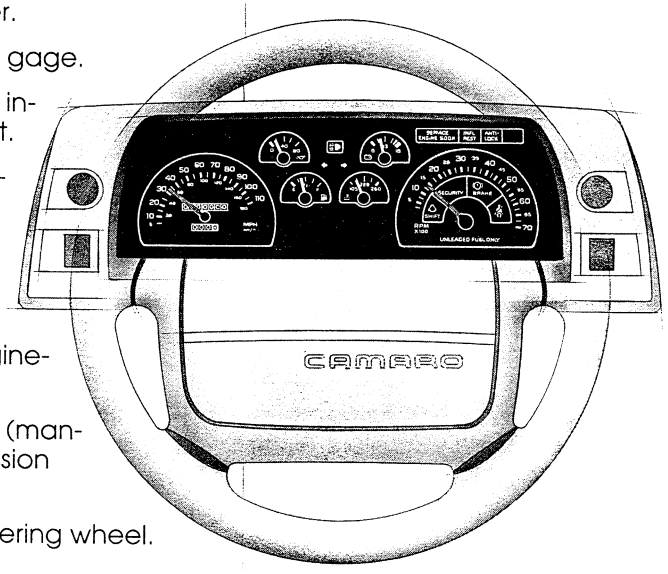


INSTRUMENT PANEL

Instrumentation

Camaro's cockpit-like instrument cluster features a full-gage package, and operating controls within easy reach of the driver. Yellow graphics, for better visibility during day and nighttime conditions, are now standard in the instrumentation. It includes:

- 110-mph speedometer with trip odometer on RS (optional IROC-Z instrumentation package features a 145-mph speedometer with trip odometer).
- Main light switch.
- Heater and A/C control.
- Cigarette lighter.
- Side window defogger outlet.
- Right and left ventilation outlets.
- Turn signal indicators.
- Temperature gage.
- Fuel gage.
- Voltmeter.
- Tachometer.
- Oil pressure gage.
- High-beam indicator light.
- Brake warning light.
- Fasten Belts reminder light.
- Service-Engine-Soon light.
- Upshift light (manual transmission only).
- 4-Spoke steering wheel.
- Radio control panel; AM/FM Stereo Radio with Seek/Scan and Digital Clock standard. A Bose Gold Sound System is available with greatly improved power output and clarity.
- SIR indicator lamp.



COLOR AND TRIM SELECTION

SEAT STYLE AND TRIM COMBINATIONS		INTERIOR COLORS			
Model	**Seat Type**	**Black**	**Lt. Brown**	**Gray**	**Red†**
Camaro RS and Camaro IROC-Z	Cloth Bucket	CBB2	CEE2	CQQ2	CRR2
	Custom Cloth Bucket	FBB2	FEE2	FQQ2	FRR2
	Custom Leather Bucket		AEE2	AQQ2	ARR2

CAMARO RS (EXTERIOR/INTERIOR COMBINATIONS)

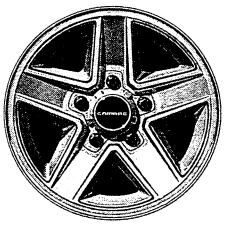
Exterior Paint Color	Color Code	Aluminum Wheel Color	Interior Colors			
			Black	**Lt. Brown**	**Gray**	**Red†**
Black	41	Black	X		X	X
Blue, Bright (Met.)	98	Silver	X		X	
Blue, Light (Met.)	23	Silver	X		X	
Gray, Medium (Met.)	87	Silver	X		X	X
Red, Bright	81	Bright Red	X	X	X	X
Red, Dark (Met.)	75	Silver	X	X	X	X
White	40	White	X	X	X	X

CAMARO IROC-Z (EXTERIOR/INTERIOR COMBINATIONS)

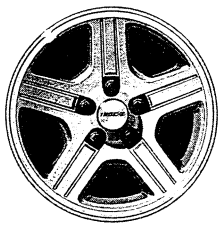
Exterior Paint Color	Color Code	Decal Color*	Stripe Color*	Aluminum Wheel Color	Black	Lt. Brown	Gray	Red†
Black	41	Red	Black/Red	Silver**				X
Black	41	Gray	Black/Blue	Silver**	X		X	
Blue, Bright (Met.)	98	Gray	Black/Silver	Silver**	X		X	
Red, Bright	81	Gold	Black/Gold	Gold		X		
Red, Bright	81	Red	Black/Silver	Silver**	X			X
Red, Bright	81	Gray	Black/Silver	Silver**			X	
Red, Dark (Met.)	75	Gold	Black/Gold	Gold	X	X		X
Red, Dark (Met.)	75	Red	Black/Red	Silver**			X	
White	40	Gold	Black/Gold	Gold		X		
White	40	Red	Black/Red	Silver**				X
White	40	Gray	Silver/Yellow	Silver**	X		X	

NOTE: Convertible top color is Black.
*Decal and stripe delete available by specifying RPO DX3.
**Aluminum wheel color is Gray for all Convertible models and when RPO N96 16" wheels are ordered.
†Note: Red interior color is available on Convertible model (late change). Refer to Color and Trim Tab for fabric color.

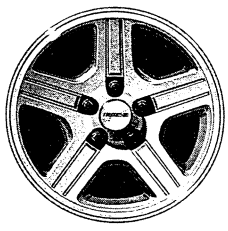
WHEELS AND WHEEL COVERS



The Base 15" x 7" 5-spoke, Cast Aluminum Wheel with bright machining is standard on Camaro RS Coupe and RS Convertible. It's available in Silver or body-color (White, Red or Black).

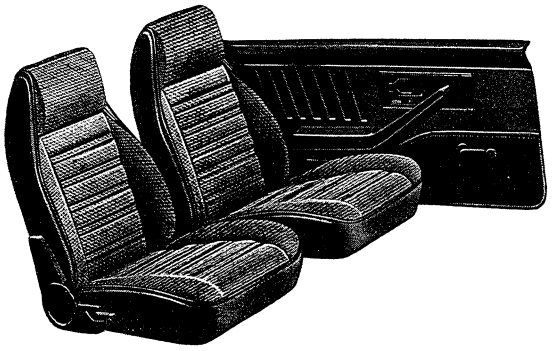


The standard 15" x 7" IROC-Z Cast Aluminum, 5-spoke Wheel is available in two colors, Silver and Gold.

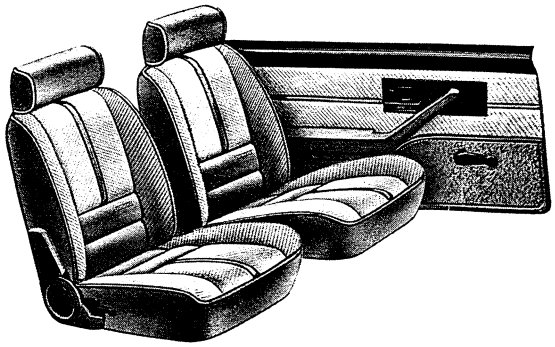


A 16" x 8" Cast Aluminum 5-spoke Wheel is standard on the IROC-Z Convertible and optional on IROC-Z Coupe and available in Silver and Gold.

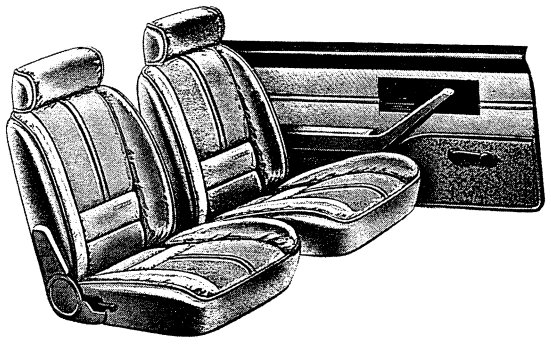
SEAT AND DOOR TRIM



The RS and IROC-Z feature standard reclining bucket seats trimmed in cloth. Doors are covered in vinyl trim.

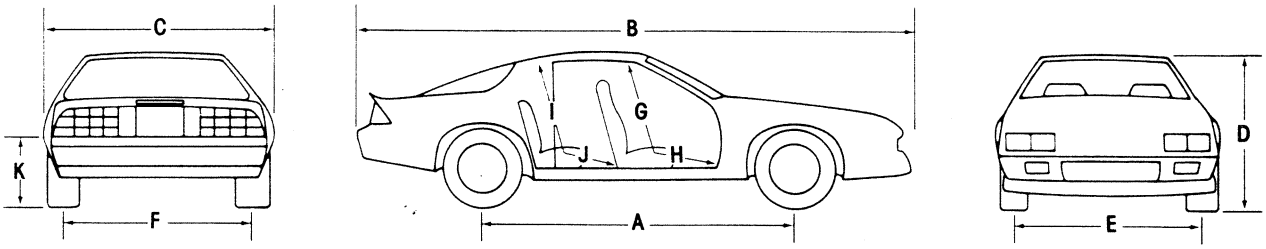


Optional on RS and IROC-Z, reclining bucket seats feature Custom Cloth. Doors are vinyl with cloth trim panels.



Optional on both RS and IROC-Z are reclining bucket seats with adjustable head restraints covered completely in leather. Doors are trimmed in vinyl.

SPECIFICATIONS AND DIMENSIONS



DIMENSIONS

Exterior Dimensions (in.)		RS and IROC-Z Coupe	RS and IROC-Z Convertible
A	Wheelbase	101.0	101.0
B	Length (overall)	192.0	192.0
C	Width (overall)	72.8	72.8
D	Height (overall)	50.3	50.3
E	Tread — front	60.0	60.0
F	Tread — rear	60.9	60.9
	Minimum ground clearance	5.1	5.1
Interior Roominess (in.)			
G	Headroom — front	37.0	37.1
H	Legroom — front	43.0	42.9
	Shoulder room — front	57.5	58.6
	Hip room — front	56.3	52.8
I	Headroom — rear	35.6	36.1
J	Legroom — rear	29.8	28.3
	Shoulder room — rear	56.3	48.1
	Hip room — rear	42.8	43.9
Luggage Compartment Capacity			
K	Lift-over height (in.)	34.8	34.8
	Cargo volume index with rear seat up (cu. ft.)	12.4	5.2
	Cargo volume index with rear seat down (cu. ft.)	31.0	—
Rated Fuel Tank Capacity (gallons)		15.5	15.5
Curb Weight (pounds)			
	RS	3077	3329
	IROC-Z	3263	3355

CHASSIS SPECIFICATIONS

Brakes	RS Coupe/ Convertible	IROC-Z Coupe	IROC-Z Convertible	IROC-Z Coupe	IROC-Z Convertible
Type	Vented front disc /rear drum	Vented front disc /rear drum	Vented front disc /rear drum	4-Wheel vented disc-opt.	4-Wheel vented disc-opt.
Disc rotor dia. F/R (in.)	10.5/—	10.5/—	10.5/—	11.86/11.65	11.86/11.65
Disc swept area (in.)	307.7	307.7	307.7	462.02	462.02
Drum dia. x width (in.)	9.5 x 2.0	9.5 x 2.0	9.5 x 2.0	—	—

CHASSIS SPECIFICATIONS (Cont.)

Steering	RS Coupe/ Convertible	IROC-Z Coupe	IROC-Z Convertible
Type	Power-assisted rack-and-pinion	Power-assisted rack-and-pinion	Power-assisted rack-and-pinion
Turning dia. curb-to-curb (ft.)	38.5	40.3	40.3
Lock-to-lock turns	2.57	2.14	2.14
Suspension — Front			
Type	Independent coil springs w/ modified Mac-Pherson struts	Independent coil springs w/ modified Mac-Pherson struts	Independent coil springs w/ modified Mac-Pherson struts
Stabilizer bar — dia. (in.)	1.2	1.3	1.3
Suspension — Rear			
Type	Salisbury axle w/torque arm, track bar and coil springs	Salisbury axle w/torque arm, track bar and coil springs	Salisbury axle w/torque arm, track bar and coil springs
Stabilizer bar — dia. (in.)	0.7	0.9	0.9

ENGINE SPECIFICATIONS

	3.1-Liter V6 w/MFI (RPO LB8)	5.0-Liter V8 w/EFI (RPO LO3)	5.0-Liter V8 w/TPI (RPO LB9)	5.7-Liter V8 w/TPI (RPO B2L)
Engine type	60° V6-OHV	90° V8-OHV	90° V8-OHV	90° V8-OHV
Displacement (cu. in.)	191	305	305	350
Bore and stroke (in.)	3.60 x 3.40	3.74 x 3.48	3.74 x 3.48	4.00 x 3.48
HP* @ RPM	140 @ 4400	170 @ 4000	210 @ 4000††	245 @ 4400
Torque* @ RPM (lbs.-ft.)	180 @ 3600	255 @ 2400	285 @ 3200††	345 @ 3200
Compression ratio	8.8:1	9.3:1	9.3:1	9.3:1
Fuel induction	Multi-Port Fuel Injection (MFI)	Electronic Fuel Injection (EFI)	Tuned-Port Fuel Injection (TPI)	Tuned-Port Fuel Injection (TPI)
Tailpipe(s)	Single	Dual	Dual	Dual
Ignition System	12-volt high energy ignition	12-volt high energy ignition	12-volt high energy ignition	12-volt high energy ignition
Delcotron generator	100 amp	100 amp	105 amp	105 amp
Battery (SAE capacity rating)	525 cca	525 ccat	525 ccat	630 cca
Cooling system capacity (qts.)	14.4	16.4	17.7	14.65

TRANSMISSION SPECIFICATIONS

Type	5-Speed Manual OD (MM5) w/V6	5-Speed Manual OD (MM5) w/V8	4-Speed Automatic OD (MX0)
Case material	Aluminum	Aluminum	Aluminum
Gear ratios :1			
1st gear	4.03	2.95	3.06
2nd gear	2.37	1.94	1.63
3rd gear	1.50	1.34	1.00
4th gear	1.00	1.00	0.70**
5th gear	0.76	0.63	—
Reverse	3.76	2.76	2.29

*SAE net.
**Converter clutch engagement.
†570 cca for automatic transmission.
††230 horsepower @4400 RPM and 300 lbs.-ft. torque @ 3200 RPM when ordered with Performance Axle (G92), includes dual Performance Exhaust and engine oil cooler.

EQUIPMENT SUMMARY

MECHANICAL	CAMARO RS Coupe	CAMARO RS Conv.	CAMARO IROC-Z Coupe	CAMARO IROC-Z Conv.
POWERTEAM FEATURES				
3.1 (191 CID) V6 with Multi-Port Fuel Injection (MFI)	S	NA	NA	NA
5.0L (305 CID) V8 with Electronic Fuel Injection (EFI)	O	S	NA	NA
5.0L (305 CID) V8 with Tuned-Port Fuel Injection (TPI)	NA	O	S	S
5.7L (350 CID) V8 with Tuned-Port Fuel Injection (TPI)	NA	NA	O	NA
Multec fuel injectors	S	S	S	S
Serpentine belt accessory drive	S	S	S	S
5-Speed manual transmission with 5th gear overdrive	S	S	S	S
4-Speed automatic transmission with 4th gear overdrive	O	O	O	O
Delco Freedom low-profile maintenance-free battery	S	S	S	S
High energy ignition system (HEI)	S	S	S	S
CHASSIS FEATURES				
Full-coil suspension system with computer-selected springs	S	S	S	S
Front and rear stabilizer bars	S	S	S	S
Power-assisted front disc/rear drum brake system	S	S	S	S
Power-assisted steering with forward-mounted recirculating ball steering gear and linkage	S	S	S	S
Dual horns	S	S	S	S
TIRES/WHEELS				
P215/65R15 Eagle GT black-lettered steel-belted radial-ply tires	S	S	S	NA
P245/50ZR16 Eagle GT speed-rated steel-belted black-lettered tires	NA	NA	O	S
15" x 7" Color-keyed 5-spoke specific cast aluminum wheels	S	S	NA	NA
15" x 7" 5-Spoke specific cast aluminum wheels	NA	NA	S	NA
16" x 8" 5-Spoke specific cast aluminum wheels	NA	NA	O	S
BODY FEATURES				
Fully unitized body construction	S	S	S	S
Zinc-rich prime steel door inner panels	S	S	S	S
Energy-absorbing front and rear bumpers with body-color fascias	S	S	S	S
Basecoat/clearcoat exterior finish	S	S	S	S

S—Standard O—Optional NA—Not Available

EXTERIOR	CAMARO			
	RS Coupe	RS Conv.	IROC-Z Coupe	IROC-Z Conv.
BODY FEATURES				
Tinted glass	S	S	S	S
Dual rectangular Halogen headlamps	S	S	S	S
Dual fog lamps	NA	NA	S	S
Body-color headlamps opening	S	S	S	S
Black simulated hood louvers	NA	NA	S	S
Flush-glass design windshield with black reveal molding	S	S	S	S
Black concealed windshield wipers	S	S	S	S
Body-color body side lower aero panels	S	S	S	S
Aero panel badges — RS	S	S	NA	NA
— IROC-Z	NA	NA	S	S
IROC-Z door name decals	NA	NA	S	S
Lower body and fascia accent striping	NA	NA	S	S
Dual body-color sport mirrors (LH remote)	S	S	S	S
Opening glass hatch lid with tinted upper area	S	NA	S	NA
Automatic hatch power closure latch	S	NA	S	NA
Manual black vinyl folding top	NA	S	NA	S
Top cover and separate deck lid	NA	S	NA	S
Flexible plastic rear window	NA	S	NA	S
Rear spoiler—three piece on hatch	S	NA	S	NA
Rear spoiler — three piece on deck lid	NA	S	NA	S
Black fixed mast radio antenna	S	S	S	S
High-mount stop lamp on spoiler	S	S	S	S
Intermittent wiper system	S	S	S	S
Chip-resistant paint on lower body panels and wheel openings	S	S	S	S

S—Standard O—Optional NA—Not Available

EQUIPMENT SUMMARY (Cont.)

INTERIOR	CAMARO RS Coupe	CAMARO RS Conv.	CAMARO IROC-Z Coupe	CAMARO IROC-Z Conv.
INSTRUMENT PANEL/CONTROLS				
Full instrumentation including tachometer and trip odometer	S	S	S	S
PASS-Key Anti-Theft System	S	S	S	S
Side window defoggers	S	S	S	S
Headlamps-on warning tone	S	S	S	S
Fog lamp switch with telltale lamp	NA	NA	S	S
Heater, ventilation and optional air conditioning controls integral with console	S	S	S	S
AM/FM Stereo Radio with Seek/Scan and Digital Clock	S	S	S	S
Full floor console with hinged storage compartment cover	S	S	S	S
Console-mounted shift lever — Vinyl-covered knob	S	S	NA	NA
— Leather-covered knob	NA	NA	S	S
4-Spoke steering wheel	S	S	S	S
Driver's side Supplemental Inflatable Restraint System, air bag	S	S	S	S
Leather-wrapped steering wheel	NA	NA	S	S

S—Standard O—Optional NA—Not Available

INTERIOR	CAMARO			
	RS Coupe	RS Conv.	IROC-Z Coupe	IROC-Z Conv.
SEATS/DOOR PANELS				
Cloth reclining high-back front bucket seats	S	S	S	S
Full-width rear seat folding backrest	S	S	S	S
Color-keyed 3-point safety belt system with front and outer position rear shoulder/lap belts	S	S	S	S
Padded door panels and armrests	S	S	S	S
CARPETING/HEADLINING				
Cloth-covered molded foam headlining	S	NA	S	NA
RH visor vanity mirror	NA	NA	S	S
Day/night rearview mirror	S	S	S	S
Day/night rearview mirror with dual reading lamps	O	S	O	S
Color-keyed passenger area carpeting	S	S	S	S
Rear compartment carpeting	S	NA	S	NA
Color-keyed console sidewall carpeting	S	S	S	S
Color-keyed molded plastic jack and spare tire cover	S	NA	S	NA

S—Standard O—Optional NA—Not Available

PREFERRED EQUIPMENT GROUPS

Packaged Options (not available individually unless indicated)	Camaro RS Coupe		Camaro RS Convertible		Camaro IROC-Z Coupe			Camaro IROC-Z Convertible		
	FCA1	FCA2	CCA1	CCA2	FZA1	FZA2	FZA3	CZA1	CZA2	CZA3
Body Side Moldings	X	X	X	X	X	X	X	X	X	X
Floor Mats, Front/Rear, Color-Keyed, Carpeted	X	X	X	X		X	X		X	X
Electronic Speed Control with Resume Speed	X	X	X	X		X	X		X	X
Power Windows		X		X		X	X		X	X
Power Door Lock System	X	X	X	X	O	X	X	O	X	X
Rear Compartment Cover		X				X	X			
Mirror with Dual Reading Lamps		X	S	S			X	S	S	S
Power Hatch Release	O	X				X	X			
Twin Remote Electric Sport Mirrors			O	O	O	O	X	O	O	X
Power Seat (Driver's)							X			X
TIRES/WHEEL TRIM										
P245/50ZR16 Black-Lettered Radial-Ply Tires*					O	O	O	S	S	S
16" Aluminum Wheels*					O	O	O			
CLIMATE CONTROL										
Air Conditioning	X	X	X	X	X	X	X	X	X	X
Electric Rear Window Defogger	O	O			O	O	O			
Engine Block Heater	O	O	O	O	O	O	O	O	O	O
RADIO EQUIPMENT*										
Electronically Tuned AM/FM Stereo with Seek/Scan, Cassette, Digital Clock and Extended-Range Sound System	X	X	X	X	O	X	X	O	X	X
Delco/Bose Gold Sound System — Electronically Tuned AM/FM Stereo Radio with Seek/Scan, Stereo Cassette Tape and Digital Clock with ERS	O	O			O	O	O			
Compact Disc Music System with Clock	O	O	O	O	O	O	O	O	O	O
Power Antenna								O	O	O
ADDITIONAL INDIVIDUAL OPTIONS										
Front License Plate Bracket	O	O	O	O	O	O	O	O	O	O
Rear Window Louver	O	O			O	O	O			
Removable Roof Panels (Includes Locks)	O	O			O	O	O			
Split-Folding Rear Seatback (Requires Custom Trim)	O	O	O	O	O	O	O	O	O	O
Performance Axle Ratio					O	O	O			
Power Front and Rear Disc Brakes (Requires G92 or B2L)					O	O	O			

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

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

Refer to Sound Systems Tab for more complete Radio information.

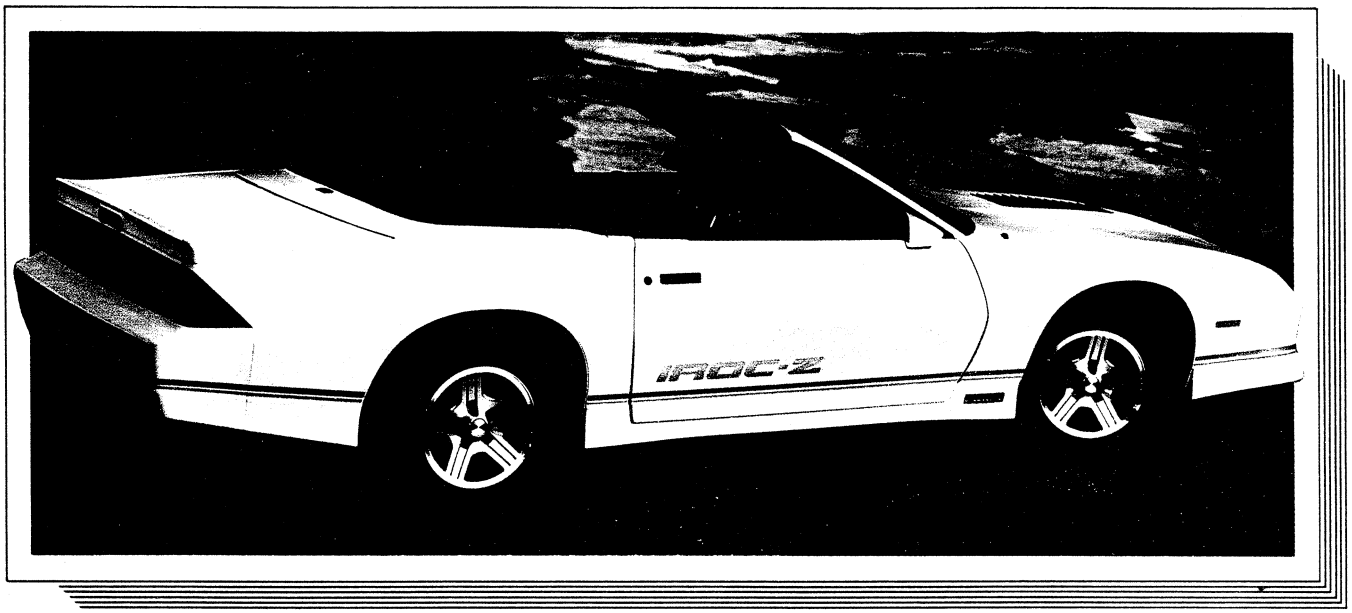
*Includes Performance Axle Ratio Contents.

**Radio Delete and AM/FM Stereo with Seek/Scan, Cassette, Digital Clock and ERS are available with Base vehicle groups.

CAMARO

CAMARO	MODEL NUMBER	PASSENGER CAPACITY
RS Coupe	1FP87	All Models 2+2
IROC-Z Coupe	1FP87	
IROC-Z Convertible	1FP67	

Camaro IROC-Z Convertible.



HIGHLIGHTS

- 1990 Camaro model line includes RS Coupe, IROC-Z Coupe and IROC-Z Convertible.
- Driver's side supplemental inflatable restraint system standard for all models.
- Standard equipment includes previously optional features, including tinted glass, intermittent windshield wipers, Comfortilt steering wheel, auxiliary lighting and halogen headlamps.
- RS spoked aluminum wheels are painted in body colors (Silver, White, Black or Red—availability keyed to exterior color).
- P215/65R-15 Touring tires combine performance tire characteristics with smooth, quiet ride qualities.
- 16" tires and spoked aluminum wheels standard on IROC-Z Convertible, optional for IROC-Z Coupe.
- **Scotchgard™** Fabric Protector applied to seat trim and door panels.
- New instrument cluster with yellow graphics for instrumentation and controls.

EQUIPMENT AVAILABILITY

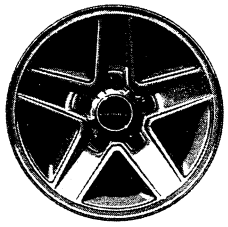
	Camaro RS Coupe	Camaro IROC-Z Coupe	Camaro IROC-Z Convertible
Body-color lower aero panels and fascias	S	S	S
Lower body striping and IROC-Z door decals	NA	S*	S*
Halogen headlamps	S	S	S
Body-color dual sport mirrors (LH remote)	S	S	S
Black grille	S	NA	NA
Halogen fog lamps in grille opening	NA	S	S
Black hood outer louver ornaments	NA	S	S
Body-side moldings (body color)	S	S	S
Tinted glass	S	S	S
Power automatic hatch glass latch closure	S	S	NA
One-piece rear spoiler with integral center high-mounted stop lamp	S	NA	S
Three-piece rear spoiler with integral center high-mounted stop lamp	NA	S	NA
Comfortilt steering wheel	S	S	S
Full floor console with hidden stowage compartment	S	S	S
PASS-Key® anti-theft ignition system	S	S	S
AM/FM stereo radio with Seek and Scan, digital clock and ERS™	S†	S†	S†
Driver's side supplemental inflatable restraint system	S	S	S
Color-keyed safety belt system with front and rear shoulder belts	S	S	S
Full floor carpeting	S	S	S
15" spoked aluminum wheels with body-color accents	S	NA	NA
15" spoked aluminum wheels with Gold or Silver accents	NA	S	NA
16" cast aluminum wheels with Gray or Gold highlights	NA	O	S
All-season steel-belted P215/65R-15 Touring tires	S	NA	NA
All-season steel-belted P215/65R-15 performance tires	NA	S	NA
All-season steel-belted P245/50ZR-16 performance tires	NA	O	S

S—Standard. O—Optional. NA—Not Available. ERS—Extended Range Sound System
*Delete available. †May be deleted for credit from Base Vehicle Group only.

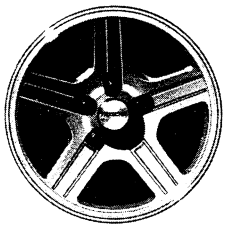
Refer to Passenger Car Order Guide for option availability and application.

ORDERING INFORMATION

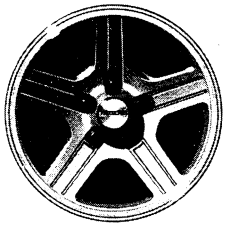
WHEEL TRIM



Standard RS Coupe 15" x 7" cast aluminum wheels with locks, machined bright surfaces with body-color painted accents (Silver, White, Black or Red).

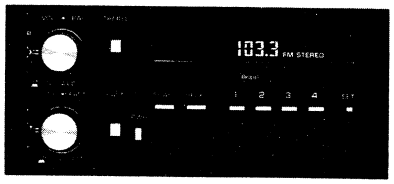


Standard IROC-Z 15" x 7" cast aluminum wheels, machined rims and spoke leading edges with Silver or Gold painted highlights. IROC-Z center inserts.



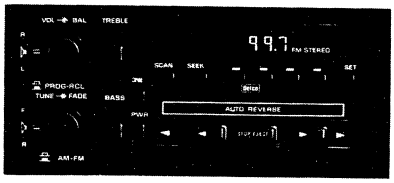
IROC-Z 16" x 8" cast aluminum wheels with locks (RPO N96), machined rims and spoke leading edges with Gray or Gold painted highlights. IROC-Z center inserts. Standard on Convertible, optional for Coupe.

RADIOS

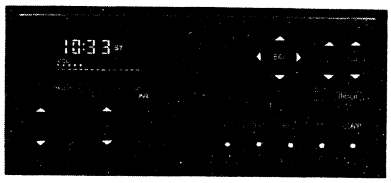


Standard electronically tuned AM/FM stereo radio* with Seek and Scan, digital clock and Extended Range Sound System (ERS).

*May be deleted for credit from Base Vehicle Groups only.

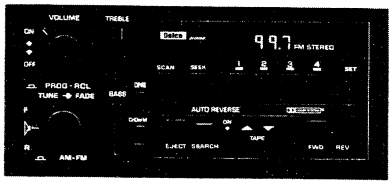


Optional electronically tuned AM/FM stereo radio with Seek and Scan, stereo cassette tape player, digital clock and Extended Range Sound System (ERS) (RPO UM6).



Optional electronically tuned AM/FM stereo radio with Seek and Scan, compact digital disc player with Search and Repeat, digital clock and Extended Range Sound System (ERS) (RPO U1C).

Appearance of radios may vary by car model.

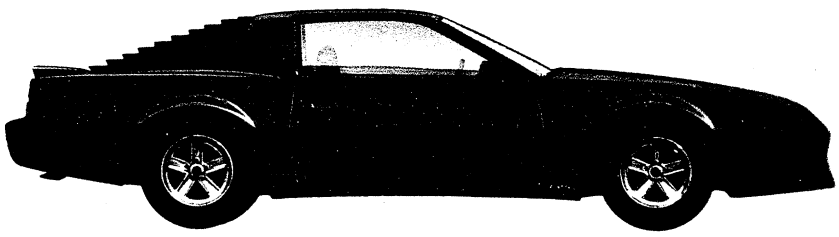


Optional Delco®/Bose AM/FM stereo radio with tuned speakers, stereo tape cassette player with Search and Repeat, Dolby® sound and digital clock. (Not available on Convertible models) (RPO UU8).

VALUE FEATURES

Camaro models include many standard features that enhance operation, safety and convenience. For 1990, these include:

- Power steering. • Power front disc/rear drum brakes. • Dual sport mirrors (LH remote).
- Tinted glass. • Intermittent wiper system.
- All-season steel-belted radial ply tires.
- PASS-Key® anti-theft ignition system.
- **Scotchgard**™ Fabric Protector.

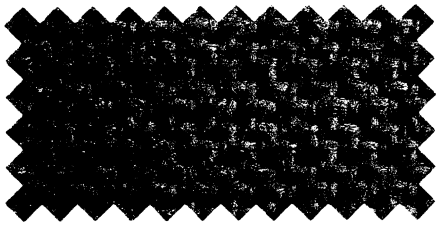


All illustrations and specifications in this brochure are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time, without notice, in colors, materials, specifications and models, and also to discontinue models. Chevrolet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

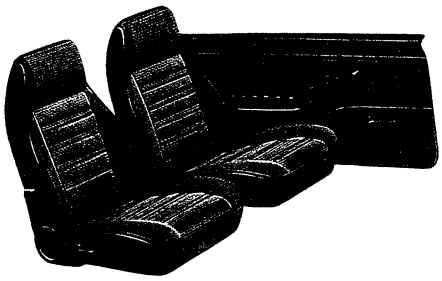
Refer to Passenger Car Order Guide for option availability and application.

SEAT TYPES & COLORS

CAMARO RS AND IROC-Z STANDARD CLOTH SEAT TRIM

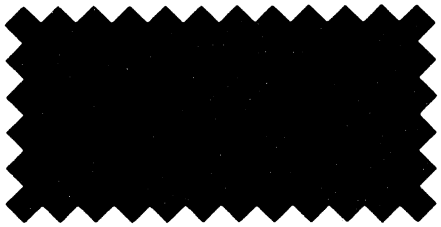


Standard cloth seat trim available in Black, Light Brown, Gray or Red.

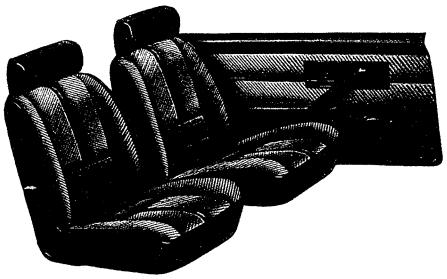


Standard cloth reclining bucket seats with integral head restraints.

CAMARO RS AND IROC-Z OPTIONAL CUSTOM CLOTH SEAT TRIM

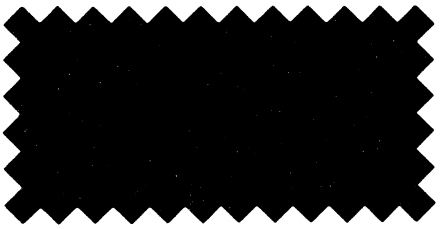


Optional Custom Cloth seat trim available in Black, Light Brown, Gray or Red.

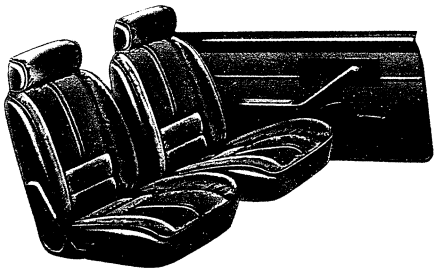


Optional Custom Cloth reclining bucket seats with adjustable head restraints.

CAMARO RS AND IROC-Z OPTIONAL CUSTOM LEATHER SEAT TRIM



Optional Custom Leather seat trim available in Light Brown, Gray or Red.



Optional Custom Leather reclining bucket seats with adjustable head restraints.

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

PREFERRED EQUIPMENT GROUPS

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

	CAMARO RS COUPE		CAMARO IROC-Z COUPE			CAMARO IROC-Z CONVERTIBLE		
DESCRIPTION	P.E.G. 1	P.E.G. 2	P.E.G. 1	P.E.G. 2	P.E.G. 3	P.E.G. 1	P.E.G. 2	P.E.G. 3
Air Conditioning	X	X	X	X	X	X	X	X
Body-Side Moldings	X	X	X	X	X	X	X	X
Color-Keyed Floor Mats, Front/Rear, Carpeted	X	X		X	X		X	X
Electronic Speed Control	X	X		X	X		X	X
Power Windows		X		X	X		X	X
Power Door Lock System	X	X		X	X	O	X	X
AM/FM Stereo with Cassette, Digital Clock and ERS	X*	X*	O	X*	X*	O	X*	X*
Rear Compartment Cover		X		X	X			
Inside Rearview Mirror with Dual Reading Lamps		X			X	STD.	STD.	STD.
Power Hatch Release		X		X	X			
Twin-Remote Electric Sport Mirrors					X			X
Power Seat (Driver's)					X			X
INDIVIDUAL OPTIONS								
Tires/Wheels Trim								
P245/50ZR-16 Black-lettered Radials (Reqs. Aluminum Wheels)				O†**			STD.	
16" Aluminum Wheels (Reqs. P245/50ZR-16 Tires)				O†**			STD.	
Climate Control								
Electric Rear Window Defogger		O		O				
Engine Block Heater		O		O			O	
Radio Equipment								
AM/FM Stereo with Seek and Scan, Cassette, Digital Clock and ERS	X††	X	O	X	X	O	X	X
Compact Digital Disc Player	O	O		O			O	
Bose Music System	X††	X		O				
Power Antenna							O	
Radio Delete	Available only with Base Vehicle Groups							
Additional Individual Options								
Power Door Lock System	X††	X	O	X	X	X**	O	X
Front License Plate Bracket		O		O			O	
Rear Window Louver		O		O				
Removable Roof Panels		O		O†				
Split-Folding Rear Seat-Back (Reqs. Custom Trim)		O		O			O	
Twin Remote Electric Mirrors		O		O			O	
Power Hatch Release	O	X		X	X			
Performance Ratio Axle				O†***				

STD.–Standard. X–Included in P.E.G. O–Available Individual Option. ERS–Extended Range Sound System.
*May be upgraded. †See Order Guide for Power Team Restrictions. **Includes Performance Rates Axle Content.
††Also available as an Individual Option with Base Vehicle Group. ***Includes 4-wheel Disc Brakes, Engine Oil Cooler, Performance Exhaust

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

MODELS — PASSENGERS

Camaro IROC-Z Coupe (1FP87)	4
Camaro IROC-Z Convertible (1FP67)	4
Camaro RS Coupe (1FP87)	4
Camaro RS Convertible (1FP67)	4

DIMENSIONS (inches)

EXTERIOR

Wheelbase	101.0
Length (overall)	192.0
Width (overall)	72.8
Height (overall)	50.3

INTERIOR

Head Room–Front/Rear	Coupe 37.0/35.6
	Convertible 37.1/36.1
Shoulder Room–Front/Rear	Coupe 57.5/56.3
	Convertible 58.6/48.1
Hip Room–Front/Rear	Coupe 56.3/42.8
	Convertible 52.8/43.9
Leg Room–Front/Rear	Coupe 43.0/29.8
	Convertible 42.9/28.3

LUGGAGE/CARGO CAPACITY (cu. ft.)

Cargo Volume	
with Rear Seat Down	Coupe 31.0
with Rear Seat Up	Coupe 12.4
	Convertible 5.2

RATED FUEL TANK CAPACITY (gallons) 15.5

POWER TEAMS

STANDARD ENGINES

Coupe – RPO LH0, 3.1 Liter (191 cu. in.) V6 with Multi-Port Fuel Injection (MFI)

IROC-Z Coupe and Convertible Models – RPO LB9, 5.0 Liter (305 cu. in.) V8 with Tuned-Port Fuel Injection (TPI)

RS Convertible – RPO L03 5.0 Liter (305 cu. in.) V8 with Electronic Fuel Injection (EFI)

OPTIONAL ENGINES

Coupe – RPO L03, 5.0 Liter (305 cu. in.) V8 with Electronic Fuel Injection (EFI)

IROC-Z – RPO B2L, 5.7 Liter (350 cu. in.) V8 with Tuned-Port Fuel Injection (TPI)

STANDARD EQUIPMENT SUMMARY

Halogen Headlamps
PASS-Key Theft Deterrent System
Drivers Side Supplemental Inflatable Restraint
3-Point Safety Belts for Driver and Front and Rear Seat Passenger Positions
Base-Coat/Clear-Coat Exterior Finish
Body-Color Dual Sport Mirrors (L.H. Remote Control)
Tinted Glass
Intermittent Wiper System
Full Floor Carpeting
Center Console
Electronic Pull-Down Latch for Hatch
Center High-Mounted Stop Lamp in Spoiler
All-Season Steel-Belted 15" Raised Black Lettered Tires
Aluminum 15" x 7" Five-Spoke Wheels
Power Front Disc/Rear Drum Brakes
Power Steering with Forward-Mounted Recirculating Ball Steering Gear and Linkage
Full Coil Suspension System with Computer-Selected Springs
Front and Rear Stabilizer Bars
Single Serpentine Belt Accessory Drive on All Engines
AM/FM Stereo Radio with Seek and Scan and Digital Clock (May be Deleted for Credit)
Compact Spare Tire
Energy-Absorbing Front and Rear Bumpers with Body-Color Facias
Side Window Defoggers
Comfortilt Steering Wheel
Auxiliary Lighting
Scotchgard™ Fabric Protector

SEAT STYLES

STANDARD SEATS

Cloth Reclining Buckets with Integral Head Restraints and Folding Rear Seat Back

OPTIONAL SEATS

Custom Cloth Reclining Bucket Seats with Adjustable Head Restraints and Split Folding Rear Seat Back

Custom Reclining Leather Bucket Seats with Adjustable Head Restraints and Split Folding Rear Seat Back

Prices Shown Are Manufacturer's Suggested Retail Prices (MSRP) At The Time Of Publication. These Prices Are To Be Used As An Aid To Inventory Management Since MSRP Figures Change Periodically. The Vehicle Price Schedule Is The Official Pricing Document Of Each Division And Should Be Used In Discussing Vehicle Prices With Potential Buyers. The Model Prices Shown In The Order Restrictions Do Not Include Freight Charges.

✓ COLOR AND TRIM SELECTION

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

Interior Trim Color		Black	Lt Brown	Gray	Red
MODEL	SEAT TYPE				
1FP87	Cloth Bucket	CBB2	CEE2	CQQ2	CRR2
	*Custom Cloth Bucket	FBB2	FEE2	FQQ2	FRR2
	*Custom Leather Bucket		AEE2	AQQ2	ARR2

*Includes Split Folding Rear Seat Back

STANDARD STRIPE COMBINATIONS

Exterior Paint Color	Color Code 1	Color Code 2	# Decal Package	# Stripe Color	*Aluminum Wheel Color	Black	Lt Brown	Gray	Red
Black	41	41	Red	Black/Red	*Silver				●
Black	41	41	Gray	Black/Blue	*Silver	●		●	
Blue, Bright (Met)	98	98	Gray	Black/Silver	*Silver	●		●	
Red, Bright	81	81	Gold	Black/Gold	Gold		●		
Red, Bright	81	81	Red	Black/Silver	*Silver	●			●
Red, Bright	81	81	Gray	Black/Silver	*Silver			●	
Red, Dk (Met)	75	75	Gold	Black/Gold	Gold	●	●		●
Red, Dk (Met)	75	75	Red	Black/Red	*Silver			●	
White	40	40	Gold	Black/Gold	Gold		●		
White	40	40	Red	Black/Red	*Silver				●
White	40	40	Gray	Silver/Yellow	*Silver	●		●	

*Aluminum Wheel Color is Gray When N96 is Ordered
#Stripe and Decal May be Deleted. DX3 Must be Specified.

✓ POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO			
	2.73	3.08	3.23	3.42
WITH NA5 STANDARD EMISSIONS				
LB9 MM5	—	Std	—	G92
MXO	Std	—	—	—
B2L MXO	—	—	G92	—
WITH YF5 CALIFORNIA EMISSIONS				
LB9 MM5	—	Std	—	G92
MXO	Std	—	—	—
B2L MXO	—	—	G92	—

14,994.00 **Model 1FP87**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		FZA1	FZA2	FZA3
865.00	**Preferred Equipment Group 1**			
	Air Conditioning	x	x	x
	Molding, Body Side	x	x	x
1,759.00	**Preferred Equipment Group 2**			
	Cover, Rear Compartment		x	x
	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System		x	x
	Floor Covering: Carpeted Mats, Color-Keyed Front and Rear		x	x
	Power Door Lock System		x	x
	Power Hatch Release		x	x
	Power Windows		x	x
	Speed Control, Electronic: w/Resume Speed		x	x
2,143.00	**Preferred Equipment Group 3**			
	Mirror w/Dual Reading Lamps			x
	Mirrors Sport, Twin Remote Electric			x
	Power Seat (Driver's Side Only)			x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code FZAB (Incls LH Remote, RH Manual Sport Mirrors, 5.0 Liter TPI V8 Eng, 5-Speed Manual Trans, 15" Aluminum Wheels, Gage Pkg w/Tach, AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System, Fog-Lamps, RH Visor Mirror, Rear Spoiler, Ride and Handling Suspension, Stowaway Spare Tire, Leather-Wrapped Steering Wheel and Limited Slip Rear Axle).

✓REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ENGINE (Must Order One)

N.C.	LB9	5.0 Liter TPI V8 (Base)
300.00	B2L	5.7 Liter TPI V8 (Reqs MX0 Trans, G92 Axle and QLC Tires)

TRANSMISSION (Must Order One)

N.C.	MM5	5-Speed Manual (N/A B2L Eng) (Base)
515.00	MX0	4-Speed Automatic

EMISSION (Must Order One)

N.C.	NA5	Standard Emissions
100.00	YF5	California Emissions

TIRES (Must Order One)

N.C.	QYZ	P215/65 R15 B/L (Base) (N/A G92 Axle)
N.C.	QLC	P245/50 ZR16 B/L (Reqs N96 Wheel)

WHEELS (May Choose One)

N.C.	---	15" Aluminum (Base)
520.00	N96	16" Aluminum (Reqs QLC Tires and LB9 Eng and G92 Axle or B2L Eng)

CLIMATE CONTROL

N.C.	---	Air Conditioning (N/A Group FZAB) (Incl w/Groups FZA1, FZA2 and FZA3)
160.00	C49	Defogger, Rear Window: Electric
20.00	K05	Heater, Engine Block

RADIO EQUIPMENT

V.P.S.	---	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System (Base)
V.P.S.	UM6	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (Incl w/Groups FZA2 and FZA3)
V.P.S.	UU8	Delco/Bose Music System Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (N/A Group FZAB)
V.P.S.	UL5	Radio Delete (Reqs Group FZAB)

INTERIOR TRIM

N.C.	C**2	Cloth Bucket
327.00	F**2	Custom Cloth Bucket
800.00	A**2	Custom Leather Bucket

ADDITIONAL OPTIONS

466.00	G92	Axle, Performance Ratio (w/C60 Air) (Reqs LB9 Eng w/MM5 Trans or B2L Eng) (Incls 4-Wheel Disc Brakes, Eng Oil Cooler and Performance Exhaust System)
675.00	G92	Axle, Performance Ratio (w/o C60 Air) (Reqs LB9 Eng w/MM5 Trans or B2L Eng) (Incls 4-Wheel Disc Brakes with Special Heavy-Duty Front Disc Brake Package, Aluminum Driveshaft and Spare Wheel, Eng Oil Cooler, Performance Exhaust System, Special Shocks and Fuel Pump Pickup and Gas Tank Baffle) (Deletes Standard Fog Lamps)
N.C.	VK3	License Plate Bracket, Front
210.00	DE1	Louver, Rear Window
91.00	DG7	Mirrors, Sport: Twin Remote Electric (Incl w/Group FZA3) (Reqs Group FZA2 or FZA3)
175.00	AU3	Power Door Lock System (Incl w/Groups FZA2 and FZA3)
866.00	CC1	Roof Panels, Removable (Incls Locks) (N/A G92 Axle or MM5 Trans)

✓ COLOR AND TRIM SELECTION

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

Interior Trim Color		Black	Lt Brown	Gray	Red
MODEL	SEAT TYPE				
1FP67	Cloth Bucket	CBB2	CEE2	CQQ2	CRR2
	*Custom Cloth Bucket	FBB2	FEE2	FQQ2	FRR2
	*Custom Leather Bucket		AEE2	AQQ2	ARR2

*Includes Split Folding Rear Seat Back

STANDARD STRIPE COMBINATIONS (Convertible Top Color is Black)

Exterior Paint Color	Color Code 1	Color Code 2	# Decal Package	# Stripe Color	Aluminum Wheel Color	Black	Lt Brown	Gray	Red
Black	41	41	Red	Black/Red	Gray				●
Black	41	41	Gray	Black/Blue	Gray	●		●	
Blue, Bright (Met)	98	98	Gray	Black/Silver	Gray	●		●	
Red, Bright	81	81	Gold	Black/Gold	Gold		●		
Red, Bright	81	81	Red	Black/Silver	Gray	●			●
Red, Bright	81	81	Gray	Black/Silver	Gray			●	
Red, Dk (Met)	75	75	Gold	Black/Gold	Gold	●	●		●
Red, Dk (Met)	75	75	Red	Black/Red	Gray			●	
White	40	40	Gold	Black/Gold	Gold		●		
White	40	40	Red	Black/Red	Gray				●
White	40	40	Gray	Silver/Yellow	Gray	●		●	

#Stripe and Decal May be Deleted. DX3 Must be Specified.

POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO	
	2.73	3.08
WITH NA5 STANDARD EMISSIONS		
LB9 MM5	—	Std
MX0	Std	—
WITH YF5 CALIFORNIA EMISSIONS		
LB9 MM5	—	Std
MX0	Std	—

20,634.00 **Model 1FP67**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		CZA1	CZA2	CZA3
865.00	**Preferred Equipment Group 1**			
	Air Conditioning	x	x	x
	Moldings, Body Side	x	x	x
1,640.00	**Preferred Equipment Group 2**			
	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System		x	x
	Floor Covering: Carpeted Mats, Color-Keyed Front and Rear		x	x
	Power Door Lock System		x	x
	Power Windows		x	x
	Speed Control, Electronic: w/Resume Speed		x	x
2,001.00	**Preferred Equipment Group 3**			
	Mirrors Sport, Twin Remote Electric			x
	Power Seat (Driver's Side Only)			x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code CZAB (Incls LH Remote, RH Manual Sport Mirrors, 5.0 Liter TPI V8 Eng, 5-Speed Manual Trans, 16" Aluminum Wheels, Gage Pkg w/Tach, AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System, Fog-Lamps, RH Visor Mirror, Rear Spoiler, Ride and Handling Suspension, Stowaway Spare Tire, Leather-Wrapped Steering Wheel, Limited Slip Rear Axle and Mirror w/Dual Reading Lamps).

✓ REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ENGINE (Must Order One)
- N.C. LB9 5.0 Liter TPI V8

TRANSMISSION (Must Order One)
- N.C. MM5 5-Speed Manual
- 515.00 MX0 4-Speed Automatic

EMISSION (Must Order One)
- N.C. NA5 Standard Emissions
- 100.00 YF5 California Emissions

TIRES
- N.C. --- P245/50 ZR16 B/L (Base)

WHEELS
- N.C. --- 16" Aluminum (Base)

CLIMATE CONTROL
- N.C. --- Air Conditioning (N/A Group CZAB) (Incl w/Groups CZA1, CZA2 and CZA3)
- 20.00 K05 Heater, Engine Block

RADIO EQUIPMENT
- V.P.S. --- Electronically Tuned AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System (Base)
- V.P.S. UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (Incl w/Groups CZA2 and CZA3)
- V.P.S. UL5 Radio Delete (Reqs Group CZAB)

INTERIOR TRIM
- N.C. C**2 Cloth Bucket
- 327.00 F**2 Custom Cloth Bucket
- 800.00 A**2 Custom Leather Bucket

ADDITIONAL OPTIONS
- N.C. VK3 License Plate Bracket, Front
- 91.00 DG7 Mirrors, Sport: Twin Remote Electric (Incl w/Group CZA3) (Reqs Group CZA2 or CZA3)
- 175.00 AU3 Power Door Lock System (Incl w/ Groups CZA2 and CZA3)

✓ COLOR AND TRIM SELECTION

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

Interior Trim Color		Black	Lt Brown	Gray	Red
MODEL	SEAT TYPE				
1FP87	Cloth Bucket	CBB2	CEE2	CQQ2	CRR2
	*Custom Cloth Bucket	FBB2	FEE2	FQQ2	FRR2
	*Custom Leather Bucket		AEE2	AQQ2	ARR2

*Includes Split Folding Rear Seat Back

STANDARD COMBINATIONS

Exterior Paint Color	Color Code 1	Color Code 2	Aluminum Wheel Color	Black	Lt Brown	Gray	Red
Black	41	41	Black	●		●	●
Blue, Bright (Met)	98	98	Silver	●		●	
Blue, Lt (Met)	23	23	Silver	●		●	
Gray, Med (Met)	87	87	Silver	●		●	●
Red, Bright	81	81	Bright Red	●	●	●	●
Red, Dk (Met)	75	75	Silver	●	●	●	●
White	40	40	White	●	●	●	●

POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO			
	2.73	3.08	3.23	3.42
WITH NA5 STANDARD EMISSIONS				
LH0 MM5	—	—	—	Std
MX0	—	—	Std	—
L03 MM5	—	Std	—	—
MX0	Std	—	—	—
WITH YF5 CALIFORNIA EMISSIONS				
LH0 MM5	—	—	—	Std
MX0	—	—	Std	—
L03 MM5	—	Std	—	—
MX0	Std	—	—	—

11,434.00 **Model 1FP87**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		FCA1	FCA2
1,410.00	**Preferred Equipment Group 1**		
	Air Conditioning	x	x
	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System	x	x
	Floor Covering: Carpeted Mats, Color-Keyed Front and Rear	x	x
	Moldings, Body Side	x	x
	Power Door Lock System	x	x
	Speed Control, Electronic w/Resume Speed	x	x
1,782.00	**Preferred Equipment Group 2**		
	Cover, Rear Compartment		x
	Mirror w/Dual Reading Lamps		x
	Power Hatch Release		x
	Power Windows		x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code FCAB (Incls LH Remote, RH Manual Sport Mirrors, 3.1 Liter MFI V6 Eng, 5-Speed Manual Trans, 15" Aluminum Wheels, P215/65R15 Blackwall Tires, Gage Pkg w/Tach, AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System and Rear Spoiler).

✓REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ENGINE (Must Order One)

N.C.	LH0	3.1 Liter MFI V6
350.00	L03	5.0 Liter EFI V8

TRANSMISSION (Must Order One)

N.C.	MM5	5-Speed Manual
515.00	MX0	4-Speed Automatic

EMISSION (Must Order One)

N.C.	NA5	Standard Emissions
100.00	YF5	California Emissions

TIRES

N.C.	---	P215/65 R15 B/L (Base)

WHEELS

N.C.	---	15" Aluminum (Base)

CLIMATE CONTROL

805.00	C60	Air Conditioning (Incl w/Groups FCA1 and FCA2)
160.00	C49	Defogger, Rear Window: Electric
20.00	K05	Heater, Engine Block

RADIO EQUIPMENT

V.P.S.	---	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan and Digital Clock w/Extended Range Sound System (Base)
V.P.S.	UM6	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (Incl w/Groups FCA1 and FCA2)
V.P.S.	UU8	Delco/Bose Music System. Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (Reqs C60 Air)
V.P.S.	UL5	Radio Delete (Reqs Group FCAB)

INTERIOR TRIM

N.C.	C**2	Cloth Bucket
327.00	F**2	Custom Cloth Bucket
800.00	A**2	Custom Leather Bucket

ADDITIONAL OPTIONS

N.C.	VK3	License Plate Bracket, Front
210.00	DE1	Louver, Rear Window
91.00	DG7	Mirrors, Sport: Twin Remote Electric (Reqs Group FCA2)
175.00	AU3	Power Door Lock System (Incl w/ Groups FCA1 and FCA2)
50.00	A90	Power Hatch Release (Incl w/Group FCA2)
866.00	CC1	Roof Panels, Removable (Incls Locks)

✓ COLOR AND TRIM SELECTION

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

Interior Trim Color		Black	Lt Brown	Gray	Red
MODEL	SEAT TYPE				
1FP67	Cloth Bucket	CBB2	CEE2	CQQ2	CRR2
	*Custom Cloth Bucket	FBB2	FEE2	FQQ2	FRR2
	*Custom Leather Bucket		AEE2	AQQ2	ARR2

*Includes Split Folding Rear Seat Back

STANDARD COMBINATIONS (Convertible Top Color is Black)

Exterior Paint Color	Color Code 1	Color Code 2	Aluminum Wheel Color	Black	Lt Brown	Gray	Red
Black	41	41	Black	●		●	●
Blue, Bright (Met)	98	98	Silver	●		●	
Blue, Lt (Met)	23	23	Silver	●		●	
Gray, Med (Met)	87	87	Silver	●		●	●
Red, Bright	81	81	Bright Red	●	●	●	●
Red, Dk (Met)	75	75	Silver	●	●	●	●
White	40	40	White	●	●	●	●

POWER TEAMS

ENGINE OPTION CONDITION	AXLE RATIO	
	2.73	3.08
WITH NA5 STANDARD EMISSIONS		
L03 MM5	—	Std
MX0	Std	—
WITH YF5 CALIFORNIA EMISSIONS		
L03 MM5	—	Std
MX0	Std	—

17,319.00 **Model 1FP67**

PREFERRED VEHICLE

MUST ORDER ONE GROUP — NO DELETIONS ALLOWED

		CCA1	CCA2
1,040.00	**Preferred Equipment Group 1**		
	Air Conditioning	x	x
	Electronically Tuned AM/FM Stereo Radio w/Seek–Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System	x	x
	Floor Covering: Carpeted Mats, Color–Keyed Front and Rear	x	x
	Moldings, Body Side	x	x
1,640.00	**Preferred Equipment Group 2**		
	Power Door Lock System		x
	Power Windows		x
	Speed Control, Electronic w/Resume Speed		x

Base Vehicles may be ordered by specifying Preferred Equipment Group Code CCAB (Incls LH Remote, RH Manual Sport Mirrors, 5.0 Liter EFI V8 Eng, 5–Speed Manual Trans, 15" Aluminum Wheels, P215/65R15 Blackwall Tires, Gage Pkg w/Tach, AM/FM Stereo Radio w/Seek–Scan and Digital Clock w/Extended Range Sound System and Rear Spoiler).

✓REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

ENGINE (Must Order One)

N.C. L03 5.0 Liter EFI V8

TRANSMISSION (Must Order One)

N.C. MM5 5–Speed Manual

515.00 MX0 4–Speed Automatic

EMISSION (Must Order One)

N.C. NA5 Standard Emissions

100.00 YF5 California Emissions

TIRES

N.C. --- P215/65 R15 B/L (Base)

WHEELS

N.C. --- 15" Aluminum (Base)

CLIMATE CONTROL

805.00 C60 Air Conditioning (Incl w/Groups CCA1 and CCA2)

20.00 K05 Heater, Engine Block

RADIO EQUIPMENT

V.P.S. --- Electronically Tuned AM/FM Stereo Radio w/Seek–Scan and Digital Clock w/Extended Range Sound System (Base)

V.P.S. UM6 Electronically Tuned AM/FM Stereo Radio w/Seek–Scan, Stereo Cassette Tape and Digital Clock w/Extended Range Sound System (Incl w/Groups CCA1 and CCA2)

V.P.S. UL5 Radio Delete (Reqs Group CCAB)

INTERIOR TRIM

N.C. C**2 Cloth Bucket

327.00 F**2 Custom Cloth Bucket

800.00 A**2 Custom Leather Bucket

ADDITIONAL OPTIONS

N.C. VK3 License Plate Bracket, Front

91.00 DG7 Mirrors, Sport: Twin Remote Electric (Reqs Group CCA2)

175.00 AU3 Power Door Lock System (Incl w/ Group CCA2)

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CAMARO

1990 VEHICLES WITH STANDARD EQUIPMENT

Prices shown are effective with initial shipments of 1990 model motor vehicles

Description	Model Number	Body Code	Wheel Base	Mfr's Suggested Retail Price★	Group Number
♦ **6-Cylinder Engine**					
RS Coupe	1FP87	—	101"	10995.00	4
♦ **8-Cylinder Engine**					
RS Convertible	1FP67		101"	16880.00	4
IROC-Z Coupe	1FP87	Z28	101"	14555.00	4
IROC-Z Convertible	1FP67	Z28	101"	20195.00	4

★ Manufacturer's Suggested Retail Prices do not include applicable destination charges, state and local taxes, license fees, optional equipment or special items or services.

♦ Refer to Order Guide for California Requirements.

OPTIONS WHEN INSTALLED BY GENERAL MOTORS

Prices shown are effective with initial shipments of 1990 model motor vehicles

Description	Option Number	Mfr's Suggested Retail Price◇
REFER TO ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION		
RS Coupe Base Equipment Group: Included with model	...	
With UM6 Radio. ADD	UM6	140.00
With UU8 Radio. ADD	UU8	1015.00
With U1C Radio. ADD	U1C	396.00
With UL5 Radio Delete. DEDUCT	UL5	(-165.00)
RS Coupe Preferred Equipment Group 1: Includes:		
Air Conditioning		
Radio, Electronically Tuned. AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock. Includes extended range sound system		
Door Lock System, Power		
Speed Control, Electronic with Resume Speed		
Moldings, Bodyside		
Floor Covering: Carpeted Mats. Front and Rear. Colored Keyed	...	1410.00
With UU8 Radio. ADD	UU8	875.00
With U1C Radio. ADD	U1C	256.00
RS Coupe Preferred Equipment Group 2: Includes:		
Air Conditioning		
Radio. Electronically Tuned AM/FM Stereo with Seek and Scan, Stereo Cassette Tape and Digital Clock. Includes extended range sound system		
Windows, Power		
Door Lock System, Power		
Speed Control, Electronic. With Resume Speed		
Hatch Release, Power		
Cargo Cover, Rear Compartment		
Moldings, Body Side.		
Floor Covering: Carpeted Mats. Front and Rear. Color-Keyed		1782.00
Mirror with Dual Reading Lamps	...	875.00
With UU8 Radio. ADD	UU8	256.00
With U1C Radio. ADD	U1C	
IROC-Z Base Equipment Group: Included with model	...	140.00
With UM6 Radio. ADD	UM6	1015.00
With UU8 Radio. ADD	UU8	396.00
With U1C Radio. ADD	U1C	(-165.00)
With UL5 Radio Delete. DEDUCT	UL5	
IROC-Z Preferred Equipment Group 1: Includes:		
Air Conditioning		865.00
Moldings, Body Side	...	140.00
With UM6 Radio. ADD	UM6	1015.00
With UU8 Radio. ADD	UU8	396.00
With U1C Radio. ADD	U1C	

* Dealer Invoice Amount includes 3% Holdback Amount retained for dealer's account.

(a) D & H Charges on vehicle and optional equipment include reimbursement to ordering Division for any tax that it has paid, incurred or agreed to pay thereon.

◇ State and local taxes not included.

CAMARO

OPTIONS WHEN INSTALLED BY GENERAL MOTORS

Prices shown are effective with initial shipments of 1990 model motor vehicles

Description	Option Number	Mfr's Suggested Retail Price◇
REFER TO ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION		
IROC-Z Preferred Equipment Group 2: Includes:		
Air Conditioning		
Radio. Electronically Tuned AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock. Includes extended range sound system		
Windows, Power		
Door Lock System. Power		
Speed Control, Electronic. With Resume Speed		
Hatch Release, Power		
Cargo Cover, Rear Compartment		
Moldings, Body Side		
Floor Covering: Carpeted Mats. Front and Rear. Color-Keyed	...	1759.00
With UU8 Radio. ADD	UU8	875.00
With U1C Radio. ADD	U1C	256.00
IROC-Z Preferred Equipment Group 3: Includes:		
Air Conditioning		
Radio. Electronically Tuned AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock. Includes extended range sound system.		
Windows, Power		
Seat, Power. Driver's side only		
Door Lock System. Power		
Speed Control, Electronic. With Resume Speed		
Hatch Release, Power		
Mirrors, Sport. Electric, Twin Remote		
Cargo Cover, Rear Compartment		
Moldings, Body Side		
Floor Covering: Carpeted Mats. Front and Rear. Color-Keyed		
Mirror, With Dual Reading Lamps	...	2143.00
With UU8 Radio. ADD	UU8	875.00
With U1C Radio. ADD	U1C	256.00
RS Convertible Base Equipment Group: Included with model	...	
With UM6 Radio. ADD	UM6	140.00
With U1C Radio. ADD	U1C	396.00
With UL5 Radio Delete. DEDUCT	UL5	(-165.00)
RS Convertible Preferred Equipment Group 1: Includes:		
Air Conditioning		
Radio. Electronically Tuned AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock. Includes extended range sound system		
Moldings, Body Side		
Floor Covering: Carpeted Mats. Front and Rear. Color-Keyed	...	1040.00
With U1C Radio. ADD	U1C	256.00
RS Convertible Preferred Equipment Group 2: Includes:		
Air Conditioning		
Radio. Electronically Tuned AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock. Includes extended range sound system		
Windows, Power		
Door Lock System. Power		
Speed Control, Electronic. With Resume Speed		
Moldings, Body Side		
Floor Covering: Carpeted Mats. Front and Rear. Color-Keyed	...	1640.00
With U1C Radio. ADD	U1C	256.00
IROC-Z Convertible Base Equipment Group: Included with model	...	
With UM6 Radio. ADD	UM6	140.00
With U1C Radio. ADD	U1C	396.00
With UL5 Radio. Delete. DEDUCT	UL5	(-165.00)

* Dealer Invoice Amount includes 3% Holdback Amount retained for dealer's account.

(a) D & H Charges on vehicle and optional equipment include reimbursement to ordering Division for any tax that it has paid, incurred or agreed to pay thereon.

◇ State and local taxes not included.

CAMARO

OPTIONS WHEN INSTALLED BY GENERAL MOTORS

Prices shown are effective with initial shipments of 1990 model motor vehicles

Description	Option Number	Mfr's Suggested Retail Price◇
REFER TO ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION		
IROC-Z Convertible Preferred Equipment Group 1: Includes Air Conditioning Moldings, Body Side	...	865.00
With UM6 Radio. ADD	UM6	140.00
With U1C Radio. ADD	U1C	396.00
IROC-Z Convertible Preferred Equipment Group 2: Includes: Air Conditioning Radio. Electronically Tuned AM/FM Stereo Radio with Seek and Scan. Stereo Cassette Tape and Digital Clock. Includes extended range sound system Windows, Power Door Lock System. Power Speed Control, Electronic. With Resume Speed Moldings, Body Side Floor Covering: Carpeted Mats. Front and Rear. Color-Keyed	...	1640.00
With U1C Radio. ADD	U1C	256.00
IROC-Z Convertible Preferred Equipment Group 3: Includes: Air Conditioning Radio. Electronically Tuned AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock. Includes extended range sound system. Windows, Power Seat, Power. Driver Side only Door Lock System. Power Speed Control, Electronic. With Resume Speed Mirrors, Sport. Electric, Twin Remote Moldings, Body Side Floor Covering: Carpeted Mats. Front and Rear. Color-Keyed	...	2001.00
With U1C Radio. ADD	U1C	256.00
Interior Trim:		
*C**2 Cloth Bucket Seats*	...	327.00
*F**2 Custom Cloth Bucket Seats*	...	800.00
*A**2 Custom Leather Bucket Seats*	...	
Exterior Color: *Paint, Solid*	...	
Engines: (Refer to Order Guide for Emission System Requirements)		
3.1 Liter M.F.I. V6. Standard on RS Coupe	LH0	
5.0 Liter T.P.I. V8. Standard on IROC-Z Coupe and Convertible	LB9	350.00
5.0 Liter E.F.I. V8. Standard on RS Convertible	L03	300.00
5.7 Liter T.P.I V8.	B2L	805.00
Air Conditioning: Includes increased cooling	C60	466.00
Performance Ratio. Includes Dual Exhaust	G92	
Bracket, Front License Plate	VK3	(-60.00)
Decal and Stripe Delete	DX3	160.00
Defogger, Rear Window: *Electric*	C49	175.00
Door Lock System, Power: *Electric*	AU3	
Emission Systems:		
California Emission Requirements. Includes all testing, equipment and/or certification necessary for registration in the State of California	YF5	100.00
Standard Emission Equipment	NA5	
Hatch Release, Power	A90	50.00
Heater, Engine Block	K05	20.00
Louvers, Rear Window	DE1	210.00
Mirrors, Sport. Twin Remote: *Electric*	DG7	91.00

* Dealer Invoice Amount includes 3% Holdback Amount retained for dealer's account.
(a) D & H Charges on vehicle and optional equipment include reimbursement to ordering Division for any tax that it has paid, incurred or agreed to pay thereon.
◇ State and local taxes not included.

CAMARO

OPTIONS WHEN INSTALLED BY GENERAL MOTORS

Prices shown are effective with initial shipments of 1990 model motor vehicles

Description	Option Number	Mfr's Suggested Retail Price◇
REFER TO ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION		
Radio Equipment: *All stereo radios include extended range sound system.*		
Electronically Tuned AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock.	UM6	**For specific radio pricing, please refer to radio information included with each preferred equipment group.**
Electronically Tuned Delco/Bose Music System. Includes AM/FM Stereo Radio with Seek and Scan, Stereo Cassette Tape and Digital Clock, special tone and balance control and four speakers	UU8	
Electronically Tuned AM/FM Stereo Radio with Seek and Scan, Compact Disc Player and Digital Clock	U1C	
Radio Delete	UL5	
Roof Panels: *Removable Glass.* Includes locks.	CC1	866.00
Tires:		
P215/65R15 Steel Belted Radial Ply Blackwall	QYZ	
P245/50 ZR16 Steel Belted Radial Ply Blackwall	QLC	
Transmissions:		
5-Speed Manual	MM5	
Automatic with Overdrive	MX0	515.00
Wheel Trim:		
Wheels, Aluminum Cast. 16". Includes wheel locks and P245/50 ZR 16 Steel Belted Radial Ply Blackwall Tires	N96	520.00

* Dealer Invoice Amount includes 3% Holdback Amount retained for dealer's account.
(a) D & H Charges on vehicle and optional equipment include reimbursement to ordering Division for any tax that it has paid, incurred or agreed to pay thereon.
◇ State and local taxes not included.

Chevrolet Motor Division
General Motors Corporation

Distribution Dispatch

Number 90-06 Date 8/29/89

TO ALL CHEVROLET DEALERS:

Please revise the following pre-introductory Dealer Invoice Amounts, Dealer Prices, Factor D & H, List Prices and Manufacturer's Suggested Retail Prices to your 1990 Chevrolet Passenger Car Vehicle Price Schedule dated August 18, 1989.

	OPTION NUMBER	MFR'S SUGGESTED RETAIL PRICE
Camaro (Page 3)		
Axle: Performance Ratio.		
Without C60 Air Conditioning Incls 4-Wheel Disc Brakes with Special Heavy-Duty Front Disc Brake Package, Aluminum Driveshaft and Spare Wheel, Engine Oil Cooler, Performance Exhaust System, Special Shocks and Fuel Pump Pickup and Gas Tank Baffle (Deletes Standard Fog Lamps)	G92	675.00
With C60 Air Conditioning Incls 4-Wheel Disc Brakes, Engine Oil Cooler and Performance Exhaust System	G92	466.00

Please revise the engine section of your 1990 pre-introductory Chevrolet Prizm Vehicle Price Schedule dated August 18, 1989. Option LWO 1.6 Liter MFI L4 Engine is standard on the GSi not option LO1 as previously shown.

Since this pre-introductory pricing information is intended only for the use of authorized Chevrolet Dealers, it should not be disclosed to unauthorized persons.

The information contained herein will be included in the next publication of the 1990 Chevrolet Passenger Car Vehicle Price Schedule.

CMC-Distribution

MVMA Specifications

METRIC (U.S. Customary)

Table of Contents

O **Indicates Format Change From Previous Year**

NOTE:

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

FORM MVMA-90

MVMA Specifications

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

METRIC (U.S. Customary)

Vehicle Origin

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

Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
CAMARO 2-Door Convertible (RWD)		1FP67	4 (2/2)	Not Available
2-Door Coupe (RWD)		1FP87	4 (2/2)	45.4 (100)
CAMARO IROC-Z 2-Door Convertible (RWD)		1FP67 (With Z28)	4 (2/2)	Not Available
2-Door Coupe (RWD)		1FP87 (With Z28)	4 (2/2)	45.4 (100)

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

MVMA Specifications

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

METRIC (U.S. Customary)
Power Teams

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

			A	B	C	D
ENGINE	Engine Code		LHO	LHO	L03	L03
	Displacement Liters (cu. in.)		3.1 (191)	3.1 (191)	5.0 (305)	5.0 (305)
	Induction system (FI, Carb, etc.)		Multi-Port Fuel Injection	Multi-Port Fuel Injection	Throttle Body Injection	Throttle Body Injection
	Compression ratio		8.5:1	8.5:1	9.3:1	9.3:1
	SAE Net at RPM	Power kW(bhp)	104 (140) @ 4400	104 (140) @ 4400	127 (170) @ 4000	127 (170) @ 4000
		Torque Newton meters (lb.ft.)	244 (180) @ 3600	244 (180) @ 3600	346 (255) @ 2400	346 (255) @ 2400
	Exhaust Single, dual		Single	Single	Single	Single
TRANS	Transmission/ Transaxle		MB1 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed	M39 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed
	Axle Ratio (std. first)		3.42	3.23	3.08	2.73

Series Availability		Power Teams (A – B – C – D)	
Model	**Code**	**Standard**	**Optional**
CAMARO			
2-Dr. Convertible	1FP67	C	D
2-Dr. Coupe	1FP87	A	B,C,D
CAMARO IROC-Z			
2-Dr. Convertible	1FP67 (With Z28)	E	F
2-Dr. Coupe	1FP87 (With Z28)	E	F, G, H

MVMA Specifications

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

METRIC (U.S. Customary)
Power Teams

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

			E	F	G	H
ENGINE	Engine Code		LB9	LB9	LB9	L98
	Displacement Liters (cu. in.)		5.0 (305)	5.0 (305)	5.0 (305)	5.7 (350)
	Induction system (FI, Carb, etc.)		Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection	Multi-Port Fuel Injection
	Compression ratio		9.3:1	9.3:1	9.3:1	9.3:1
	SAE Net at RPM	Power kW (bhp)	157 (210) @ 4400	157 (210) @ 4400	172 (230) @ 4400	183 (245) @ 4400
		Torque Newton meters (lb.ft.)	386 (285) @ 3200	386 (285) @ 3200	407 (300) @ 3200	468 (345) @ 3200
	Exhaust Single, dual		Single	Single	Dual	Dual
TRANS	Transmission/ Transaxle		M39 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed	MK6 Manual Transmission 5-Speed	MD8 Automatic Transmission 4-Speed
	Axle Ratio (std. first)		3.08	2.73	3.42	3.23

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	3.1 LITER V6 (191 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LHO

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		60 deg. V, Front, Longitudinal, OHV
Manufacturer		C-P-C Group – G.M. Corporation
No. of cylinders		6
Bore		89mm (3.5 in.)
Stroke		84mm (3.31 in.)
Bore spacing (C/L to C/L)		111.76mm (4.4 in.)
Cyl blck matl & mass kg(lbs.)(machined)		Cast Iron, 48.15 (107.0)
Cylinder block deck height		224.0mm (9.0 in.)
Cylinder block length		435.5mm (17.4 in.)
Deck clearance (minimum) (above or below block)		0.15mm (.006 in.), Above
Cyl. head material & mass kg (lbs.)		Cast Iron, 13.15 (29)
Cylinder head volume (cu. cm.)		51.35
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		1.02mm (.040 in.)
Minimum combustion chamber total volume (cm. cu.)		50.35
Cyl. no. system (front to rear)	L. Bank	2-4-6
	R. Bank	1-3-5
Firing order		1-2-3-4-5-6
Intake manifold matl & mass[kg(lbs.)]**		Inlet Plenum – Aluminum Alloy, 3.8 (8.4) Inlet Center Manifold – Aluminum Alloy, 2.4 (5.3) Inlet Lower Manifold – Aluminum Alloy, 3.2 (7.0)
Exh. manifold matl & mass [kg (lbs.)]**		Nodular Cast Iron, Wt. Of Manifold, Fire Wall Side 3.765 (8.283); Wt. Of Other Manifold, 2.630 (5.786)
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		87
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	
Total dressed engine mass (wt) dry***		Not Available

Engine – Pistons

Material & mass, g (weight, oz.) – piston only	Aluminum Alloy, 388 (12.8)

Engine Camshaft

Location		Cylinder Block
Material & mass kg (weight, lbs.)		Cast Iron, 3.098 (6.83)
Drive type	Chain/belt	Chain
	Width/pitch	18.75 x 9.375 mm (.75 x .375 in.)

*Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine.
**Finished state.
***Dressed engine mass (weight) includes the following:

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 5.0 LITER V8 (305 CID)
Engine Code THROTTLE BODY INJECTION RPO L03

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group – G.M. Corporation
No. of cylinders		8
Bore		94.89 mm (3.74 in.)
Stroke		88.39 mm (3.48 in.)
Bore spacing (C/L to C/L)		111.8 mm (4.40 in.)
Cyl blck matl & mass kg(lbs.)(machined)		Cast Iron, 68.674 (151.4)
Cylinder block deck height		229.4 mm (9.025 in.)
Cylinder block length		512.8 mm (20.19 in.)
Deck clearance (minimum) (above or below block)		.635 (.025) below
Cyl. head material & mass kg (lbs.)		Cast Iron, 19.800 (43.7)
Cylinder head volume (cu. cm.)		--
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		.533 (.021)
Minimum combustion chamber total volume (cm. cu.)		55.2 (+/- 2.2)
Cyl. no. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass[kg(lbs.)]**		Cast Aluminum, 6.900 (15.2)
Exh. manifold matl & mass [kg (lbs.)]**		Cast Iron, 4.345 (9.6) L.H., 3.800 (8.4) R.H.
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		87
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	
Total dressed engine mass (wt) dry***		275.1 kg. (607 lbs.) Auto. 290.8 kg. (641 lbs.) Man.

Engine – Pistons

Material & mass, g (weight, oz.) – piston only	Aluminum Alloy, .645 (1.4)

Engine Camshaft

Location		Cylinder Block Above Crankshaft
Material & mass kg (weight, lbs.)		Steel, 4.124 (9.1)
Drive type	Chain/belt	Chain
	Width/pitch	15.87mm (.625 in.) / 12.7mm (.500 in.)

*Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine.
**Finished state.
***Dressed engine mass (weight) includes the following:

All those items necessary to make the engine a complete ready-to-run unit.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 5.0 LITER V8 (305 CID)
Engine Code TUNED PORT FUEL INJECTION RPO LB9

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group - G.M. Corporation
No. of cylinders		8
Bore		94.89 mm (3.74 in.)
Stroke		88.39 mm (3.48 in.)
Bore spacing (C/L to C/L)		111.8 mm (4.40 in.)
Cyl blck matl & mass kg(lbs.)(machined)		Cast Iron, 68.674 (151.4)
Cylinder block deck height		229.4 mm (9.025 in.)
Cylinder block length		512.8 mm (20.19 in.)
Deck clearance (minimum) (above or below block)		.635 mm (.025 in.) Below
Cyl. head material & mass kg (lbs.)		Cast Iron, 19.800 (43.7)
Cylinder head volume (cu. cm.)		55.2 +/- 2.2
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		.724 (.0285)
Minimum combustion chamber total volume (cm. cu.)		55.2 (+/- 2.2)
Cyl. no. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass[kg(lbs.)]**		Cast Aluminum, 6.117 (13.5)
Exh. manifold matl & mass [kg (lbs.)]**		Cast Iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		91
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	
Total dressed engine mass (wt) dry***		282.4 kg. (623 lbs.) Auto. 297.9 kg. (657 lbs.) Man.

Engine – Pistons

Material & mass, g (weight, oz.) – piston only	Aluminum Alloy, .645 (1.4)

Engine Camshaft

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

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description
Engine Code

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

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group – G.M. Corporation
No. of cylinders		8
Bore		101.6 mm (4.00 in.)
Stroke		88.4 mm (3.48 in.)
Bore spacing (C/L to C/L)		111.8 mm (4.40 in.)
Cyl blck matl & mass kg(lbs.)(machined)		Cast Iron, 68.674 (151.5)
Cylinder block deck height		229.4 mm (9.025 in.)
Cylinder block length		506.2 mm (19.93 in.)
Deck clearance (minimum) (above or below block)		.635 mm (.025 in.), Below
Cyl. head material & mass kg (lbs.)		Cast Iron, 19.800 (43.7)
Cylinder head volume (cu. cm.)		--
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		.724 mm (.0285 in.)
Minimum combustion chamber total volume (cm. cu.)		75.47 Combustion Chamber With Piston At Top Dead Center And All Components In Place Torqued To Specifications.
Cyl. no. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass[kg(lbs.)]**		Cast Aluminum, 6.117 (13.5)
Exh. manifold matl & mass [kg (lbs.)]**		Cast Iron, L.H. 4.460 (9.8), R.H. 3.800 (8.4)
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		91
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	
Total dressed engine mass (wt) dry***		284.5 kg. (627 lbs.) Auto.

Engine – Pistons

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

Engine Camshaft

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

*Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine.
**Finished state.
***Dressed engine mass (weight) includes the following:

All those items necessary to make the engine a complete ready-to-run unit.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	3.1 LITER V6 (191 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LHO

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	6/6
	Head O.D. intake/exhaust	43.64 mm (1.72 in.) / 36.20 mm (1.43 in.)

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Forged Steel, .602 (1.33) Full Assembly.
Length(axes centerline to centerline)	144.78 mm (5.79 in.)

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]*		Nodular Cast Iron, 17.9 (39.5)
End thrust taken by bearing (no.)		3
Length & number of main bearings		**, 4 Bearings
Seal (material, one, two piece design, etc.)	Front	Viton/Steel, One Piece
	Rear	Viton/Steel, One Piece

Engine – Lubrication System

Normal oil pressure[kPa(psi) @ eng rpm]	345-450 (50-65) @ 2400
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow,part, other)	Full Flow
Capacity of c/case,less filter-refill-L (qt.)	Refill W/W.O. Filter 3.8 (4.0)

Engine – Diesel Information (NOT APPLICABLE)

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

Engine – Intake System (NOT APPLICABLE)

Turbo charger – manufacturer	
Super charger – manufacturer	
Intercooler	

*Finished State

** Standard Measurement For Width Only:

For 3.1L V6; #1,4 = 29.5mm (1.18 in.); #2,3 = 24.0mm (0.96 in.)

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	THROTTLE BODY INJECTION RPO L03

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	8/8
	Head O.D. intake/exhaust	46.74 (1.84) / 38.10 (1.50)

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]*	Steel, .388 (.855)
Length(axes centerline to centerline)	

Engine – Crankshaft

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

Engine – Lubrication System

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

Engine – Diesel Information (NOT APPLICABLE)

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

Engine – Intake System (NOT APPLICABLE)

Turbo charger – manufacturer	
Super charger – manufacturer	
Intercooler	

* Finished State

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	TUNED PORT FUEL INJECTION RPO LB9

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Standard
Valves	Number intake/exhaust	8/8
	Head O.D. intake/exhaust	46.74 (1.84) / 38.10 (1.50)

Engine – Connecting Rods

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

Engine – Crankshaft

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

Engine – Lubrication System

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

Engine – Diesel Information (NOT APPLICABLE)

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

Engine – Intake System (NOT APPLICABLE)

Turbo charger – manufacturer	
Super charger – manufacturer	
Intercooler	

* Finished State

** 485-585 (70-85) @ 2000 With Manual Transmission.

MVMA Specifications

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

METRIC (U.S. Customary)

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

Engine – Valve System

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

Engine – Connecting Rods

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

Engine – Crankshaft

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

Engine – Lubrication System

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

Engine – Diesel Information (NOT APPLICABLE)

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

Engine – Intake System (NOT APPLICABLE)

Turbo charger – manufacturer	
Super charger – manufacturer	
Intercooler	

* Finished State

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	3.1 LITER V6 (191 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LHO

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)			Standard	
Coolant fill location (rad., bottle)			Bottle, Coolant Recovery	
Radiator cap relief valve pressure [kPa (psi)]			103.4 (15)	
Circulation thermostat	Type (choke, bypass)		Bypass	
	Starts to open @ deg's C(F)		91 (195)	
Water Pump	Type (centrifugal, other)		Centrifugal	
	GPM 1000 pump rpm		15.5	
	Number of pumps		1	
	Drive (V-belt, other)		Single Belt Poly 'V' Accessory Drive (Serpentine)	
	Bearing type		Sealed Ball-Roller	
	Impeller material		Cast Iron	
	Housing material		Aluminum	
By-pass recirculation [type (inter., ext.)]			Internal	
Cooling system capacity	With heater - L (qt.)		13.87 (14.66)	
	With air conditioner-L(qt.)		13.87 (14.66)	
	Opt. equip.[specify-L(qt.)]		--	
Water jackets full length of cyl(yes,no)			Yes	
Water all around cylinder (yes, no)			Yes	
Water jackets open at head face (yes,no)			No	
Radiator core	Std., A/C, HD	Auto	Standard	A/C
	Type (cross-flow, etc.)		Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)		Fin & Tube	
	Matl., mass [kg(wgt.,lbs.)]		Aluminum, High Efficiency Radiator	
	Width		667.5 mm	667.5 mm
	Height		437.8 mm	437.8 mm
	Thickness		23.5 mm	23.5 mm
	Fins per inch	@	3.5 mm	3.5 mm
Radiator end tank material			Plastic	
Fan	Std., elec., opt.		Standard, Electric	
	Number of blades & type (flex, solid, material)		5, Plastic Solid	
	Diameter & projected width		423.0 (16.7)	
	Ratio(fan to crnkshft.rev.)		Not Available	
	Fan cutout type		ECM Controlled	
	Drive type (direct, remote)		--	
	RPM at idle (elec.)		1900-2100	
	Motor rating(wattage)(elec)		150W	
	Motor switch (type & location) (elec.)		Part ECM	
	Switch point (temp., pressure) (elec.)		108 deg. C (226 deg. F)	
	Fan shroud (material)		Plastic (Integral Partial Shroud)	

@ - Distance Between Top Of Fins.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 5.0 LITER V8 (305 CID)
Engine Code THROTTLE BODY INJECTION RPO L03

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery	
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15.0)	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open @ deg's C(F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	14 (Total Cooling System Flow)	
	Number of pumps	1	
	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)	
	Bearing type	Sealed Double Row Ball	
	Impeller material	Steel	
	Housing material	Cast Iron	
By-pass recirculation [type (inter., ext.)]		Internal	
Cooling system capacity	With heater – L (qt.)	16.4 (17.33)	
	With air conditioner-L(qt.)	17.01 (17.97)	
	Opt. equip.[specify-L(qt.)]	--	
Water jackets full length of cyl(yes,no)		Yes	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes,no)		No	
Radiator core	Std., A/C, HD Auto	Standard	A/C
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube	
	Matl., mass [kg(wgt.,lbs.)]	Aluminum, High Efficiency Radiator	
	Width	667.5 mm	667.5 mm
	Height	437.8 mm	437.8 mm
	Thickness	23.5 mm	34.0 mm
	Fins per inch @	4.0 mm	2.5 mm
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Standard	Optional
	Number of blades & type (flex, solid, material)	5 Plastic, Solid	
	Diameter & projected width	423.0 (16.7)	
	Ratio(fan to crnkshft.rev.)	Not Applicable	
	Fan cutout type	ECM Controlled	
	Drive type (direct, remote)	--	
	RPM at idle (elec.)	1900-2100	
	Motor rating(wattage)(elec)	150W	
	Motor switch (type & location) (elec.)	Temp Switch Engine Cylinder Head	A/C Control Head & A/C Pressure Switch On Liquid Line
	Switch point (temp., pressure) (elec.)	223 deg. F	
	Fan shroud (material)	Plastic (Integral Partial Shroud)	

@ - Distance Between Top Of Fins.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	TUNED PORT FUEL INJECTION RPO LB9

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery	
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15)	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open @ deg's C(F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	12 (Total Cooling System Flow)	
	Number of pumps	1	
	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)*	
	Bearing type	Sealed Double Row Ball	
	Impeller material	Steel	
	Housing material	Cast Iron	
By-pass recirculation [type (inter., ext.)]		Internal	
Cooling system capacity	With heater - L (qt.)	16.19 (17.11)	
	With air conditioner-L(qt.)	16.33 (17.26)	
	Opt. equip.[specify-L(qt.)]	--	
Water jackets full length of cyl(yes,no)		Yes	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes,no)		No	
Radiator core	Std., A/C, HD	Standard	
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube	
	Matl., mass [kg(wgt.,lbs.)]	Aluminum, High Efficiency Radiator	
	Width	667.5 mm	
	Height	437.8 mm	
	Thickness	34.0 mm	
	Fins per inch @	2.5 mm	
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Standard	A/C
	Number of blades & type (flex, solid, material)	5, Plastic, Ring	
	Diameter & projected width	423.0 (16.7)	318.0 (12.5) - 2 Fans
	Ratio(fan to crnkshft.rev.)	Not Applicable	
	Fan cutout type	ECM Controlled	ECM (LH), Switch (RH)
	Drive type (direct, remote)	--	
	RPM at idle (elec.)	--	
	Motor rating(wattage)(elec)	150W	150W LH/RH
	Motor switch (type & location) (elec.)	ECM	LH-ECM & A/C Pressure Switch RH-A/C Pressure Switch/ECM
	Switch point (temp., pressure) (elec.)	1900-2100	2100-2200
	Fan shroud (material)	Plastic (Integral Shroud)	Plastic (Unshrouded Ring)

@ - Distance Between Top Of Fins.

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

MVMA Specifications

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

METRIC (U.S. Customary)

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

Engine – Cooling System

Coolant recovery system (std, opt, n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery	
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15.0)	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open @ deg's C(F)	90.6 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal With Cast Aluminum Housing	
	GPM 1000 pump rpm	13	
	Number of pumps	1	
	Drive (V-belt, other)	Single Belt Poly 'V' Accessory Drive (Serpentine)*	
	Bearing type	Sealed Double Row Ball	
	Impeller material	Steel	
	Housing material	Cast Iron	
By-pass recirculation [type (inter., ext.)]		Internal	
Cooling system capacity	With heater - L (qt.)	15.55 (16.43)	
	With air conditioner-L(qt.)	15.55 (16.43)	
	Opt. equip.[specify-L(qt.)]	--	
Water jackets full length of cyl(yes,no)		Yes	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes,no)		No	
Radiator core	Std., A/C, HD	A/C, Standard	
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube	
	Matl., mass [kg(wgt.,lbs.)]	Aluminum Header, Tubes And Fins, Plastic Tanks	
	Width	667.5 mm	
	Height	437.8 mm	
	Thickness	34.0 mm	
	Fins per inch @	2.5 mm	
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Standard	A/C
	Number of blades & type (flex, solid, material)	5-Blades, High Efficiency Curved Blades And Ring Shroud, Plastic	
	Diameter & projected width	423.0 (16.7)	318.0 (12.5) - 2 Fans
	Ratio(fan to crnkshft.rev.)	--	
	Fan cutout type	ECM Controlled	ECM (LH), Switch (RH)
	Drive type (direct, remote)		
	RPM at idle (elec.)		
	Motor rating(wattage)(elec)	150W	150W LH/RH
	Motor switch (type & location) (elec.)	ECM	LH - ECM & A/C Pressure Switch RH - A/C Pressure Switch/ECM
	Switch point (temp., pressure) (elec.)	1900-2100	2100-2200
	Fan shroud (material)	Plastic (Integral Ring)	Plastic (Unshrouded Ring)

.@ - Distance Between Top Of Fins.

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	3.1 LITER V6 (191 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LHQ

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

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset-No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injectors At Inlet Ports (6)
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic
	Sys. press. [kPa (psi)]	300 (43.5)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	800 In Neutral
	Automatic	700 In Neutral, 650 In Drive
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water
Air cleaner type		Single Snorkel, Replaceable Paper Element
Fuel filter (type/location)		Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Fuel Tank
	Press. range [kPa(psi)]	Pressure Depends On Flow Rate And System Voltage
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	62.4 @ 350 (16.51 @ 50.8)

Fuel Tank

Capacity [refill L (gallons)]		58.7 (15.5)
Location (describe)		Rear Center
Attachment		Underbody Strap
Material & Mass [kg (weight lbs.)]		Steel 8.579 (18.9)
Filler pipe	Location & material	Left Rear Quarter, Steel
	Connection to tank	Solder
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Sictr switch or valve	"
	Separate fill	"

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 5.0 LITER V8 (305 CID)
Engine Code THROTTLE BODY INJECTION RPO L03

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

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset - No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injection At Throttle Body (2)
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic
	Sys. press. [kPa (psi)]	76 (11.0)
Idle spd.–rpm (spec. neutral or drive and propane if used)	Manual	--
	Automatic	--
Intake manifold heat control (exhaust or water thermostatic or fixed)		Exhaust
Air cleaner type		Replaceable Paper Element, Single Snorkel
Fuel filter (type/location)		Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Fuel Tank
	Press. range [kPa(psi)]	Pressure Depends On Flow Rate And System Voltage
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	113 @ 83 (29.84 @ 12.0)

Fuel Tank

Capacity [refill L (gallons)]		58.7 (15.5)
Location (describe)		Rear Center
Attachment		Underbody Strap
Material & Mass [kg (weight lbs.)]		Steel 8.579 (18.9)
Filler pipe	Location & material	Left Rear Quarter, Steel
	Connection to tank	Solder
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Slctr switch or valve	"
	Separate fill	"

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	TUNED PORT FUEL INJECTION RPO LB9

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

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset - No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injection At Inlet Ports (8)
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic
	Sys. press. [kPa (psi)]	300 (44)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	--
	Automatic	--
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water
Air cleaner type		Replaceable Dual Paper Elements
Fuel filter (type/location)		Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Fuel Tank
	Press. range [kPa(psi)]	Pressure Depends On Flow Rate And System Voltage
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	93.3 @ 350 (24.65 @ 50.8)

Fuel Tank

Capacity [refill L (gallons)]		58.7 (15.5)
Location (describe)		Rear Center
Attachment		Underbody Strap
Material & Mass [kg (weight lbs.)]		Steel 8.579 (18.9)
Filler pipe	Location & material	Left Rear Quarter, Steel
	Connection to tank	Solder
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Sictr switch or valve	"
	Separate fill	"

MVMA Specifications

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

METRIC (U.S. Customary)

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

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

Induction type: carburetor, fuel injection system, etc.		TPI - Tuned Port Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset - No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injection At Inlet Ports (8)
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic - On Board Computer
	Sys. press. [kPa (psi)]	300 (43.5)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	--
	Automatic	--
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water, Thermostat
Air cleaner type		Replaceable Dual Paper Element
Fuel filter (type/location)		Replaceable Stainless Steel (With Paper Element) Located Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Fuel Tank
	Press. range [kPa(psi)]	Pressure Depends On Flow Rate And System Voltage
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	93.3 @ 350 (24.65 @ 50.8)

Fuel Tank

Capacity [refill L (gallons)]		58.7 (15.5)
Location (describe)		Rear Center
Attachment		Underbody Strap
Material & Mass [kg (weight lbs.)]		Steel 8.579 (18.9)
Filler pipe	Location & material	Left Rear Quarter, Steel
	Connection to tank	Solder
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Slctr switch or valve	"
	Separate fill	"

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 3.1 LITER V6 (191 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LHO

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Computer Command Control
	Air injection	Pump or pulse	Pump
		Driven by	Belt
		Air distribution (head, manifold, etc.,)	Exhaust Manifold
		Point of entry	Exhaust Manifold
	Exhaust Gas Recircu-lation	Type (controlled flow, open orifice, other)	Back Pressure Modulated Controlled Flow
		Exhaust source	Exhaust Manifold
		Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold
	Catalytic Converter	Type	Single Bed, Oxidizing & Reducing
		Number of	1
		Location(s)	Beneath RF Underbody
		Volume [L(cu.in)]	2.78 (170)
		Substrate type	Monolith
		Noble metal type	Platinum (Pt), Rhodium (Rh)
		Noble metal concentration (g/cu. cm.)	0.000838
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges (to intake manifold, other)		Inlet Manifold
	Air inlt(breather cap,other)		Air Inlet Duct
Evapora-tive Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister
		Carburetor	--
	Vapor storage provision		Canister
Electron-ic System	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

Engine – Exhaust System

	Type (single, single with cross-over, dual, other)		Single With Dual Tailpipes
*	Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		1, Reverse Flow
	Resonator no. & type		None
* Exhaust pipe	Branch o.d., wall thickness		(a)
	Main o.d., wall thickness		(b)
	Matl. & Mass [kg(wght.lbs.)]		See Notes 4.53 (10.0)
Inter-mediate pipe	o.d. & wall thickness		Aluminum Coated Steel
	Matl. & Mass [kg(wght.lbs.)]		57.15 x 1.09 mm (2.25 x 0.04 in.)
* Tail pipe	o.d. & wall thickness		Aluminum Coated Steel
	Matl. & Mass [kg(wght.lbs.)]		Aluminum Coated Steel, 3.231 (7.1)

NOTES:

(a) Left Hand/Right Hand Branch - Stainless Steel Laminated; 50.8 x 0.76 Outer Tube, With 0.76 Thick Stainless Steel Inner Tube.

(b) Stainless Steel Laminated; 57.15 x 0.76 Outer Tube With Stainless Steel Inner Tube 0.76 Thick.

* Muffler And Tailpipe Unit 7.62 (16.8).

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 5.0 LITER V8 (305 CID)
Engine Code THROTTLE BODY INJECTION RPO L03

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Pump Vane
		Driven by	V-Belt
		Air distribution (head, manifold, etc.,)	Exhaust Manifold And Catalytic Converter
		Point of entry	Exhaust Manifold
	Exhaust Gas Recircu-lation	Type (controlled flow, open orifice, other)	Back Pressure Modulated
		Exhaust source	Manifold Exhaust Crossover
		Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold
	Catalytic Converter	Type	Dual Bed (Oxidizing And Reducing)
		Number of	One
		Location(s)	Beneath RF Underbody
		Volume [L(cu.in)]	2.78 (170)
		Substrate type	Monolith
		Noble metal type	Platinum (Pt), Palladium (Pd), Rhodium (Rh)
		Noble metal concentration (g/cu. cm.)	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges (to intake manifold, other)		Throttle Body
	Air inlt(breather cap,other)		Air Cleaner
Evapora-tive Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister
		Carburetor	Canister
	Vapor storage provision		Canister
Electron-ic System	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

Engine – Exhaust System

	Type (single, single with cross-over, dual, other)		Single With Dual Tailpipes
*	Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		1, Reverse Flow
	Resonator no. & type		None
	Exhaust pipe	Branch o.d., wall thickness	(a)
		Main o.d., wall thickness	(b)
		Matl. & Mass [kg(wght.lbs.)]	(See Notes) 4.07 (9.0)
*	Inter-mediate pipe	o.d. & wall thickness	57.15 x 1.14 mm (2.25 x .045 in.)
		Matl. & Mass [kg(wght.lbs.)]	Aluminum Coated Steel
*	Tail pipe	o.d. & wall thickness	63.5 x 1.07 mm (2.25 x 0.042 in.)
		Matl. & Mass [kg(wght.lbs.)]	Aluminum Coated Steel

SEE ATTACHED NOTES

NOTES:

(a) Left Hand/Right Hand Branch - Stainless Steel Laminated; 50.8 x 0.76 Outer Tube, With 0.76 Thick Stainless Steel Inner Tube.

(b) Stainless Steel Laminated; 57.15 x 0.76 Outer Tube With stainless Steel Inner Tube 0.76 Thick.

* Muffler And Tailpipe Unit 8.732 (19.3).

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description
Engine Code

5.0 LITER V8 (305 CID)
TUNED PORT FUEL INJECTION RPO LB9

Vehicle Emission Control

			Single Converter (Without N10)	Dual Converters (With N10)
Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control	
	Air injection	Pump or pulse	Air Pump	
		Driven by	Belt	
		Air distribution (head, manifold, etc.,)	Exhaust Manifold And Catalytic Converter	
		Point of entry	Exhaust Manifold	
	Exhaust Gas Recircu-lation	Type (controlled flow, open orifice, other)	Back Pressure Modulated Controlled Flow	
		Exhaust source	Manifold	
		Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold	
	Catalytic Converter	Type	Dual Bed, Oxidizing & Reducing	
		Number of	1	2
		Location(s)	Beneath RF Underbody	
		Volume [L(cu.in)]	2.78 (170)	
		Substrate type	Monolith	
		Noble metal type	Platinum (Pt), Palladium (Pd), Rhodium (Rh)	
		Noble metal concentration (g/cu. cm.)	0.001096	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
	Discharges (to intake manifold, other)		Intake Manifold	
	Air inlt(breather cap,other)		Throttle Body	
Evapora-tive Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister	
		Carburetor	--	
	Vapor storage provision		Canister	
Electron-ic System	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine – Exhaust System

			Single Converter (Without N10)	Dual Converters (With N10)
	Type (single, single with cross-over, dual, other)		Single With Dual Tailpipes	
*	Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		1, Reverse Flow	
	Resonator no. & type		None	
	Exhaust pipe	Branch o.d., wall thickness	(a)	(c)
		Main o.d., wall thickness	(b)	(d) 2.50"
		Matl. & Mass [kg(wght.lbs.)]	4.07 (9.0)	15.68 (34.6)
*	Inter-mediate pipe	o.d. & wall thickness	57.15 x 1.14mm (2.25 x .045 in.)	69.85 x 1.40mm (2.75 x 0.05 in.)
		Matl. & Mass [kg(wght.lbs.)]	Aluminum Coated Steel	
*	Tail pipe	o.d. & wall thickness	63.5 x 1.07 mm (2.25 x .04 in.)	
		Matl. & Mass [kg(wght.lbs.)]	Aluminum Coated Steel	

* Muffler & tailpipe unit 8.845 (19.5).

(SEE FOOTNOTES ON PAGE 7.5).

(a) Laminated - Stainless Steel Outer Pipe, 63.5 x 1.016 (2.5 x 0.04), Steel Inner Pipe.
(b) Laminated - Stainless Steel Outer Pipe, 76.2 x 1.016 (3.0 x 0.04), Steel Inner Pipe.
(c) 57.15 x 1.37 Thickwall Stainless Steel.
(d) 63.5 x 1.37 Thickwall Stainless Steel.
W-Tube 69.85 x 1.37 Thickwall Stainless Steel.

NOTE: The Exhaust Pipe Has Two Converters In Each Branch Of The Pipe.

MVMA Specifications

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

METRIC (U.S. Customary)

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

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Air Pump
		Driven by	Belt
		Air distribution (head, manifold, etc.,)	Exhaust Manifold And Catalytic Converter
		Point of entry	Exhaust Manifold
	Exhaust Gas Recircu-lation	Type (controlled flow, open orifice, other)	Back Pressure Modulated Controlled Flow
		Exhaust source	Manifold
		Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold
	Catalytic Converter	Type	Dual Bed, Oxidizing & Reducing
		Number of	2
		Location(s)	Beneath RF Underbody
		Volume [L(cu.in)]	2.78 (170)
		Substrate type	Monolith
		Noble metal type	Platinum (Pt), Palladium (Pd), Rhodium (Rh)
		Noble metal concentration (g/cu. cm.)	0.001096
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges (to intake manifold, other)		Intake Manifold
	Air inlt(breather cap,other)		Throttle Body
Evapora-tive Emission Control	Vapor vented to crankcase, canister,other)	Fuel tank	Canister
		Carburetor	--
	Vapor storage provision		Canister
Electron-ic System	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

Engine - Exhaust System

Dual Converters (With N10)

	Type (single, single with cross-over, dual, other)		Single With Dual Tailpipes
*	Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs.)]		1, Reverse Flow
	Resonator no. & type		None
	Exhaust pipe	Branch o.d., wall thickness	(a)
		Main o.d., wall thickness	(b)
		Matl. & Mass [kg(wght.lbs.)]	15.68 (34.6)
*	Inter-mediate pipe	o.d. & wall thickness	69.85 x 1.40 mm (2.75 x 0.05 in.)
		Matl. & Mass [kg(wght.lbs.)]	Aluminum Coated Steel
*	Tail pipe	o.d. & wall thickness	63.5 x 1.07 mm (2.25 x .04 in.)
		Matl. & Mass [kg(wght.lbs.)]	Aluminum Coated Steel

(a) 57.15 x 1.37 Thickwall Stainless Steel.

(b) 63.5 x 1.37 Thickwall Stainless Steel. W-Tube 69.85 x 1.37 Thickwall Stainless Steel.

* Muffler & Tailpipe Unit 8.845 (19.5).

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	3.1 LITER V6 (191 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LHO

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

Manual 3-speed (manufacturer/country)	Not Available
Manual 4-speed (manufacturer/country)	Not Available
Manual 5-speed (manufacturer/country)	Standard
Automatic (manufacturer/country)	Optional
Auto, overdrive (manufacturer/country)	Optional

Manual Transmission/Transaxle (MBI)

Number of forward speeds		5
Gear ratios	1st	4.03
	2nd	2.37
	3rd	1.50
	4th	1.00
	5th	0.76
	Reverse	3.76
Synchronous meshing (specify gears)		All Forward Gears
Shift lever location		Floor
Trans. case mat'l. & mass kg (lbs)*		Aluminum
Lubricant	Capacity [L (pt.)]	3.25 (6.87)
	Type recommended	Dexron II

Clutch (Manual Transmission)

Clutch manufacturer		Belleville
Clutch type (dry, wet; single, multiple disc)		Dry Disc
Linkage (hyd., cable, rod, lever,other)		Hydraulic
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed	130
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N(lbs)		5750 (1293)
Clutch facing	Facing mfgr. & matl. coding	Valeo/F202
	Facing matl. & construction	Non-Asbestos
	Rivets per facing	16
	Outside x inside dia. (nom.)	232.0 x 155.0 mm (9.125 x 6.125 in.)
	Total eff.area[sq cm(sq in)]	234.0 (36.28)
	Thickness (pressure plate side/fly wheel side)	3.2/3.2
	Rivet depth (pressure plate side/fly wheel side)	1.1 mm (.043 in.)
	Engagement cushion method	Driven Plate Wave Spoke Springs
Release bearing type & method lub.		Self Centering Angular Contact Ball Bearing Pre-Packed And Sealed
Torsional damping method, springs, hysteresis		Coil Springs With Non-Metal Friction Control

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	THROTTLE BODY INJECTION RPO L03

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

Manual 3-speed (manufacturer/country)	Not Available
Manual 4-speed (manufacturer/country)	Not Available
Manual 5-speed (manufacturer/country)	Standard
Automatic (manufacturer/country)	Optional
Auto, overdrive (manufacturer/country)	Optional

Manual Transmission/Transaxle (M39)

Number of forward speeds		5
Gear ratios	1st	2.95
	2nd	1.94
	3rd	1.34
	4th	1.00
	5th	0.63
	Reverse	2.76
Synchronous meshing (specify gears)		All Forward Gears
Shift lever location		Floor
Trans. case mat'l. & mass kg (lbs)*		Aluminum
Lubricant	Capacity [L (pt.)]	3.25 (6.87)
	Type recommended	

Clutch (Manual Transmission)

Clutch manufacturer		Belleville
Clutch type (dry, wet; single, multiple disc)		Dry Disc
Linkage (hyd., cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load, new) N (lbs.)	Depressed	150
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N(lbs)		7750 (1742)
Clutch facing	Facing mfgr. & matl. coding	Valeo/F202
	Facing matl. & construction	Non-Asbestos
	Rivets per facing	18
	Outside x inside dia. (nom.)	254.0 x 165.0 mm (10.0 x 6.5 in.)
	Total eff.area[sq cm(sq in)]	293.0 (45.43)
	Thickness (pressure plate side/fly wheel side)	3.45/3.45
	Rivet depth (pressure plate side/fly wheel side)	1.1 mm (.043 in.)
	Engagement cushion method	Driven Plate Wave Spoke Springs
Release bearing type & method lub.		Self Centering Angular Contact Ball Bearing Pre-Packed And Sealed
Torsional damping method, springs, hysteresis		Coil Springs With Non-Metal Friction Control

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	TUNED PORT FUEL INJECTION RPO LB9

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

Manual 3-speed (manufacturer/country)	Not Available
Manual 4-speed (manufacturer/country)	Not Available
Manual 5-speed (manufacturer/country)	Standard
Automatic (manufacturer/country)	Optional
Auto, overdrive (manufacturer/country)	Optional

Manual Transmission/Transaxle

		(M39)	(MK6)
Number of forward speeds		5	5
Gear ratios	1st	2.95	2.75
	2nd	1.94	1.94
	3rd	1.34	1.34
	4th	1.00	1.00
	5th	0.63	0.74
	Reverse	2.76	2.76
Synchronous meshing (specify gears)		All Forward Gears	
Shift lever location		Floor	
Trans. case mat'l. & mass kg (lbs)*		Aluminum	
Lubricant	Capacity [L (pt.)]	3.25 (6.87)	
	Type recommended	5W-30	

Clutch (Manual Transmission)

Clutch manufacturer			Belleville
Clutch type (dry, wet; single, multiple disc)			Dry Disc
Linkage (hyd., cable, rod, lever, other)			Hydraulic
Max. pedal effort (nom. spring load, new) N (lbs.)		Depressed	150
		Released	
Assist (spring, power/percent, nominal)			None
Type pressure plate springs			Diaphragm
Total spring load (nominal, new) N(lbs)			7750 (1742)
Clutch facing	Facing mfgr. & matl. coding		Valeo/F202
	Facing matl. & construction		Non-Asbestos
	Rivets per facing		18
	Outside x inside dia. (nom.)		267.0 x 165.0 mm (10.5 x 6.5 in.)
	Total eff.area[sq cm(sq in)]		346.0 (53.6)
	Thickness (pressure plate side/fly wheel side)		3.45/3.45
	Rivet depth (pressure plate side/fly wheel side)		1.1 mm (.043 in.)
	Engagement cushion method		Driven Plate Wave Spoke Springs
Release bearing type & method lub.			Self Centering Angular Contact Ball Bearing Pre-Packed And Sealed
Torsional damping method, springs, hysteresis			Coil Springs With Non-Metal Friction Control

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

MVMA Specifications

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

METRIC (U.S. Customary)

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

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

Manual 3-speed (manufacturer/country)	Not Available
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	"
Automatic (manufacturer/country)	Standard
Auto, overdrive (manufacturer/country)	Standard

Manual Transmission/Transaxle (NOT AVAILABLE)

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity [L (pt.)]	
	Type recommended	

Clutch (Manual Transmission) (NOT AVAILABLE)

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

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 3.1 LITER V6 (191 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LHO

o Automatic Transmission/Transaxle

Trade Name		700-R4
Type and special features (describe)		4-Speed Automatic Torque Converter with Clutch
Gear selector	Location (column, floor, other)	On Floor Console
	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1
	Shift interlock (yes, no, describe)	
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00*
	4th	0.70*
	Reverse	2.29
Max. upshift speed – drive range [km/h (mph)]		1-2 = 61 (38), 2-3 = 111 (69)
Max. kickdown speed – drive range [km/h (mph)]		3-2 = 105 (65), 2-1 = 50 (31)
Min. overdrive speed [km/h (mph)]		72 (45)
Torque converter	Number of elements	3
	Max. ratio at stall	2.15
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.65)
	Capacity factor "K"*	1.60
Lubricant	Capacity (refill L(pt.)]	4.5 (9.5)
	Type recommended	GM Dexron II
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral With Radiator
Trans. mass [kg(lbs)] & case matl.**		Aluminum, 71.7 (158.1)

* Torque Converter Clutch In 3rd & 4th Gears.

o All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

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

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	THROTTLE BODY INJECTION RPO L03

o Automatic Transmission/Transaxle (See Power Teams for Transmission Usage)

Trade Name		'700-R4'	'200-4R'
Type and special features (describe)		4-Speed Automatic Torque Converter With Planetary Gears	
Gear selector	Location (column, floor, other)	Steering Column	
	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1	
	Shift interlock (yes, no, describe)		
Gear ratios	1st	306	2.74
	2nd	1.63*	1.57
	3rd	1.00*	1.00*
	4th	0.70*	0.67*
	Reverse	2.29	2.07
Max. upshift speed – drive range [km/h (mph)]		1-2 = 60 (37.5) 2-3 = 108 (67)	Not Available
Max. kickdown speed – drive range [km/h (mph)]		3-2 = 100 (62) 2-1 = 45 (28)	"
Min. overdrive speed [km/h (mph)]		67 (41.5)	"
Torque converter	Number of elements	3	
	Max. ratio at stall	5.8:1	Not Available
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	298 (11.75)	
	Capacity factor "K"*		
Lubricant	Capacity (refill L(pt.)]	3.0 (6.3)	
	Type recommended	Dexron II	
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral With Radiator	
Trans. mass [kg(lbs)] & case matl.**		Aluminum	

o All Wheel / 4 Wheel Drive (NOT AVAILABLE)

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

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description
Engine Code

5.0 LITER V8 (305 CID)
TUNED PORT FUEL INJECTION RPO LB9

o Automatic Transmission/Transaxle

Trade Name		700-R4
Type and special features (describe)		4-Speed Automatic Torque Converter With Clutch
Gear selector	Location (column, floor, other)	Floor Console
	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1
	Shift interlock (yes, no, describe)	
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00*
	4th	0.70*
	Reverse	2.29
Max. upshift speed – drive range [km/h (mph)]		1-2 = 66 (41), 2-3 = 122 (76)
Max. kickdown speed – drive range [km/h (mph)]		3-2 = 116 (72), 2-1 = 63 (39)
Min. overdrive speed [km/h (mph)]		66 (41)
Torque converter	Number of elements	3
	Max. ratio at stall	2.15
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298 (11.75)
	Capacity factor "K"*	115
Lubricant	Capacity (refill L(pt.)]	4.7 (10.0)
	Type recommended	GM Dexron II
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard Integral With Radiator
Trans. mass [kg(lbs)] & case matl.**		Aluminum, 74.2 (163.5)

* Torque Converter Clutch In 3rd & 4th Gears.

o All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

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

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

MVMA Specifications

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

METRIC (U.S. Customary)

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

o Automatic Transmission/Transaxle

Trade Name		700-R4
Type and special features (describe)		4-Speed Automatic Torque Converter with Clutch
Gear selector	Location (column, floor, other)	Floor Console
	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1
	Shift interlock (yes, no, describe)	
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00*
	4th	0.70*
	Reverse	2.29
Max. upshift speed - drive range [km/h (mph)]		1-2 = 63 (39), 2-3 = 125 (78) 3-4 = 197 (125)
Max. kickdown speed - drive range [km/h (mph)]		3-2 = 104 (65), 2-1 = 57 (35)
Min. overdrive speed [km/h (mph)]		65 (41)
Torque converter	Number of elements	3
	Max. ratio at stall	1.91
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298 (11.75)
	Capacity factor "K"*	100
Lubricant	Capacity (refill L(pt.)]	4.7 (10.0)
	Type recommended	GM Dexron II
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard Integral With Radiator
Trans. mass [kg(lbs)] & case matl.**		Aluminum, 74.2 (163.5)
		* Torque Converter Clutch In 3rd & 4th Gears.

o All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

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

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	3.1 LITER V6 (191 CID)
Engine Code	MULTI-PORT FUEL INJECTION RPO LHO

o Axle Ratio and Tooth Combinations

		AUTOMATIC - MD8	MANUAL - MB1
Axle ratio (or overall top gear ratio)		3.23 (2.26)	3.42 (2.60)
Ring gear o.d.		7.625 in.	7.625 in.
No. of teeth	Pinion	13	12
	Ring gear	42	41

o Rear Axle Unit

Description		Salisbury/Beam Housing
Limited slip differential (type)		Not Applicable
Drive pinion	Type	Hypoid
	Offset	1.50
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Cylindrical Roller Direct On Shafts, Drawn Cup
Lubricant	Capacity [L (pt.)]	1.66
	Type recommended	GL-5 Gear Lubricant

o Propeller Shaft – Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Saginaw Division Straight Tube W/Internal Damper
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Applicable
	Manual 4-speed transmission		Not Applicable
	Manual 5-speed transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
	Overdrive		Not Available
	Automatic transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
Inter-mediate bearing	Type (plain, anti-friction)		Not Applicable
	Lub. (fitting, prepack)		Not Applicable
Slip yoke	Type		Splined
	Number of teeth		27
	Spline o.d.		29.84 mm (1.174 in.)
Universal joints	Make and mfg. no.	Front	Saginaw Division
		Rear	Saginaw Division
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rr. attach(u-bolt,clamp,etc)		Strap & Bolts
	Bearing: Type (plain, anti-friction)		Anti-Friction
	Bearing: Lubrication (fitting, prepack)		Prepacked
Drive taken through (torque tube, arms or springs)			Propeller Shaft Assembly
Torque taken through (torque tube, arms or springs)			Torque Arm Assembly

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

* 70mm (2.75 in) Dia. Aluminum Shaft Replaces Base Steel Shaft Where Necessary For Weight Reduction.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	THROTTLE BODY INJECTION RPO L03

o Axle Ratio and Tooth Combinations

		AUTOMATIC - MD8	MANUAL - M39
Axle ratio (or overall top gear ratio)		2.73 (1.91)	3.08 (1.94)
Ring gear o.d.		Not Available	
No. of teeth	Pinion	"	
	Ring gear	"	

o Rear Axle Unit

Description		Salisbury/Beam Housing
Limited slip differential (type)		Not Applicable
Drive pinion	Type	Hypoid
	Offset	1.50
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Cylindrical Roller Direct On Shafts, Drawn Cup
Lubricant	Capacity [L (pt.)]	1.66
	Type recommended	GL-5 Gear Lubricant

o Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Saginaw Division Straight Tube W/Internal Damper
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Applicable
	Manual 4-speed transmission		Not Applicable
	Manual 5-speed transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
	Overdrive		Not Available
	Automatic transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
Inter-mediate bearing	Type (plain, anti-friction)		Not Applicable
	Lub. (fitting, prepack)		Not Applicable
Slip yoke	Type		Splined
	Number of teeth		27
	Spline o.d.		29.84 mm (1.174 in.)
Universal joints	Make and mfg. no.	Front	Saginaw Division
		Rear	Saginaw Division
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rr. attach(u-bolt,clamp,etc)		Strap & Bolts
	Bearing: Type (plain, anti-friction)		Anti-Friction
	Bearing: Lubrication (fitting, prepack)		Prepacked
Drive taken through (torque tube, arms or springs)			Propeller Shaft Assembly
Torque taken through (torque tube, arms or springs)			Torque Arm Assembly

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

* 70mm (2.75 in) Dia. Aluminum Shaft Replaces Base Steel Shaft Where Necessary For Weight Reduction.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID) TUNED PORT FUEL INJECTION RPO LB9
Engine Code	

o Axle Ratio and Tooth Combinations

		AUTOMATIC - MD8	MANUAL - M39	MANUAL - MK6
Axle ratio (or overall top gear ratio)		2.73 (1.91)	3.08 (1.94)	3.42 (2.50)
Ring gear o.d.		Not Available	"	"
No. of teeth	Pinion	"	"	"
	Ring gear	"	"	"

o Rear Axle Unit

Description		Salisbury/Beam Housing
Limited slip differential (type)		Not Applicable
Drive pinion	Type	Hypoid
	Offset	1.50
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Cylindrical Roller Direct On Shafts, Drawn Cup
Lubricant	Capacity [L (pt.)]	1.66
	Type recommended	GL-5 Gear Lubricant

o Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Saginaw Division Straight Tube W/Internal Damper
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Applicable
	Manual 4-speed transmission		Not Applicable
	Manual 5-speed transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
	Overdrive		Not Available
	Automatic transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
Inter-mediate bearing	Type (plain, anti-friction)		Not Applicable
	Lub. (fitting, prepack)		Not Applicable
Slip yoke	Type		Splined
	Number of teeth		27
	Spline o.d.		29.84 mm (1.174 in.)
Universal joints	Make and mfg. no.	Front	Saginaw Division
		Rear	Saginaw Division
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rr. attach(u-bolt,clamp,etc)		Strap & Bolts
	Bearing: Type (plain, anti-friction)		Anti-Friction
	Bearing: Lubrication (fitting, prepack)		Prepacked
Drive taken through (torque tube, arms or springs)			Propeller Shaft Assembly
Torque taken through (torque tube, arms or springs)			Torque Arm Assembly

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

* 70mm (2.75 in) Dia. Aluminum Shaft Replaces Base Steel Shaft Where Necessary For Weight Reduction.

MVMA Specifications

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

METRIC (U.S. Customary)

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

o Axle Ratio and Tooth Combinations

Axle ratio (or overall top gear ratio)		3.23 (2.26)
Ring gear o.d.		Not Available
No. of teeth	Pinion	"
	Ring gear	"

o Rear Axle Unit

Description		Salisbury/Beam Housing
Limited slip differential (type)		Not Applicable
Drive pinion	Type	Hypoid
	Offset	1.50
No. of differential pinions		2
Pinion/ differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Shim
Driving wheel bearing (type)		Cylindrical Roller Direct On Shafts, Drawn Cup
Lubricant	Capacity [L (pt.)]	1.66
	Type recommended	GL-5 Gear Lubricant

o Propeller Shaft – Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			Saginaw Division Straight Tube W/Internal Damper
Outer diam. x length* x wall thickness	Manual 3-speed transmission		Not Applicable
	Manual 4-speed transmission		Not Applicable
	Manual 5-speed transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
	Overdrive		Not Available
	Automatic transmission		63.5* x 1057 x 1.65 mm (2.5* x 41.6 x .065 in.)
Inter-mediate bearing	Type (plain, anti-friction)		Not Applicable
	Lub. (fitting, prepack)		Not Applicable
Slip yoke	Type		Splined
	Number of teeth		27
	Spline o.d.		29.84 mm (1.174 in.)
Universal joints	Make and mfg. no.	Front	Saginaw Division
		Rear	Saginaw Division
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rr. attach(u-bolt,clamp,etc)		Strap & Bolts
	Bearing: Type (plain, anti-friction)		Anti-Friction
	Bearing: Lubrication (fitting, prepack)		Prepacked
Drive taken through (torque tube, arms or springs)			Propeller Shaft Assembly
Torque taken through (torque tube, arms or springs)			Torque Arm Assembly

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

* 70mm (2.75 in) Dia. Aluminum Shaft Replaces Base Steel Shaft Where Necessary For Weight Reduction.

MVMA Specifications

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

METRIC (U.S. Customary)
Body Type And/Or
Engine Displacement

ALL

Suspension – General Including Electronic Controls

Car leveling	Std./opt./not avail.		Not Applicable
	Manual/automatic control		"
	Type (air/hydraulic)		"
	Primary/assist spring		"
	Rear only/4 wheel leveling		"
	Single/dual rate spring		"
	Single/dual ride heights		"
	Provision for jacking		Jacking Provisions On Rocker Panels
Shock absorber damping controls	Standard/option/not avail.		Not Applicable
	Manual/automatic control		"
	Number of damping rates		"
	Type of actuation (manual/ electric motor/air, etc.)		"
	sensors	Lateral acceleration	"
		Deceleration	"
		Acceleration	"
		Road surface	"
Shock absorber (front & rear)	Type		Direct, Double Acting, Hydraulic (a)
	Make		Delco
	Piston diameter		54 mm (2.125 in.) Front; 25 mm (1.0 in.) Rear
	Rod diameter		25 mm (1.0 in) Front; 13.49mm (0.53) Rear

(a) - Delco Bilstein Rear Shock Absorbers On IROC-Z

Suspension – Front

Type and description		Independent W/Coil Springs, Modified MacPherson Strut
Travel*	Full jounce	See Page 11.1 (1)
	Full rebound	104.0 mm (4.90 in)
Spring	Type,(coil,leaf,other)&matl	Coil, Steel
	Insulators (type & matl)	Rubber (Top)
	Size (coil design height & i.d.)	260 x 103.0; 2490 x 15 mm, Base (10.2 x 4.06; 98 x .59 in)
	Spring rate [N/mm(lb./in.)]	See Page 11.1 (2)
	Rate @ wheel [N/mm(lb./in)]	See Page 11.1 (3)
Stabilizer	Type (link,inkless,frmless)	Link
	Material & bar diameter	See Page 11.1 (4)

Suspension – Rear

Type and description			Salisbury Axle W/Torque Arm, ICA, Track Bar, Coil Springs
Travel*	Full jounce		87.0 mm (3.4 in.)
	Full rebound		118.0 mm (4.6 in.)
Spring	Type(coil,leaf,other)&matl		Coil-Steel
	Size (length x width, coil design height & i.d.)		254.0 x 102.6; 2709 x 12.0 mm (10 x 4.03; 27.9 x .472 in)
	Spring rate [N/mm (lb/in)]		18/25 Variable Coil (103.0) Spt. Cpe. IROC-Z 23.0 (131.5)
	Rate @ wheel [N/mm (lb/in)]		22.7 (130.0) Spt. Cpe. IROC-Z 29.0 (165.4)
	Insulators(type & material)		Rubber Isolated
	If leaf	No. of leaves	Not Applicable
		Shackle(comp or tens)	"
Stabilizer	Type(link,inkless,frmless)		Link
	Material & bar diameter		See Page 11.1 (5)
Track bar (type)			"U" Section W/Rubber Bushings

* Define load condition:

MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line CAMARO

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

(1) 75.0 mm (2.95 in.) Base & 15 in. Tire Base IROC-Z; 57.0 mm (2.24 in.) 16 in. Tire IROC-Z

(2) Sport Coupe & 15 in. Tire Base IROC-Z 64.0 (365.0); 16 in. Tire IROC-Z 96.0 (548.0)

(3) Sport Coupe & 15 in. Tire Base IROC-Z 17.7 (101.0); 16 in. Tire IROC-Z 25.6 (146.0)

(4) Steel 30 mm (1.2 in.); Steel 34 mm (1.3 in.) Base IROC-Z; 36 mm (1.4 in.) 16 in. Tire IROC-Z

(5) 18 mm (007 in.) Sport Coupe; Base IROC-Z 21 mm (0.8 in.) W/15 in. Tire; IROC-Z 24 mm (0.98 in.) W/16 in. Tire

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

SPORT COUPE	IROC-Z

Brakes – Service

Description			Single Caliper; Disc Front, Duo-Servo Drum Rear Disc Optional Front/Rear (RPO J65)
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		Disc
	Rear (disc or drum)		Drum; Disc Optional For IROC-Z
Valving type(prop,delay,metering,other)			Proportioning, Failure Warning
Power brake (std., opt., n.a.)			Standard
Booster type(rmt,intgrl,vac.,hyd.,etc.)			Tandem Vacuum
Vacuum	Source (inline, pump, etc.)		Inline
	Reservoir (volume cu. in.)		None
	Pump-type		"
Traction Control	Operational speed range		"
	Type engine intervention		"
Anti-lock device	Front/rear (std., opt., n.a)		"
	Manufacturer		"
	Type (electronic, mech.)		"
	Number sensors or circuits		"
	No. anti-lock hyd. circuits		"
	Integral or add-on system		"
	Yaw control (yes, no)		"
	Hydraulic power source		"
Effective area [sq. cm. (sq. in.)]*			615.5 (95.4) Total
Gross Lng area [sq cm (sq in)] **(F/R)			691.6 (107.2) Total
Swept area [sq cm (sq in)]*** (F/R)			1985.1 (307.7) Total
Rotor	Outer working diameter	F/R	F/267.0 mm (10.5 in.), R/296.0 mm (11.65 in.)
	Inner working diameter	F/R	F/171.5 mm (6.75 in.), R/211.0 mm (8.31 in.)
	Thickness	F/R	F/26.2 mm (1.03 in.), R/20.0 mm (0.79 in.)
	Matl & type (vented/sld)	F/R	Cast Iron, Vented F/R
Drum	Diameter & width	F/R	241.0 mm (9.5 in.), 50.8 mm (2.0 in.)
	Type and material	F/R	Cast Iron Finned (Aluminum For Selected Applications)
Wheel cylinder bore		F/R	F/64 mm (2.5 in.); R/19 mm (0.75 in.) Drum; 40.5 mm (1.6 in.) Disc
Master cylinder	Bore/stroke	F/R	Bore: 24.0 mm (0.94 in.)
Pedal arc ratio			3.25:1
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]			--
Lining clearance		F/R	Self-Adjusting/Self-Adjusting
Brake lining	Front wheel	Bonded or riveted	Riveted; 8
		Rivet size	5.3 x 7.92 mm (.210 x .312 in.)
		Manufacturer	Bendix
		Lining code *****	7161A
		Material	Semi-Metallic
		**** Pri.or out-brd	125.0 x 48.4 x 11.04 mm (4.92 x 1.91 x 0.435 in.)
		Size Sec. or in-brd	125.0 x 48.4 x 10.55 mm (4.92 x 1.91 x 0.415 in.)
		Shoe thcknss.(no lng)	O/B3.42 mm (0.135 in.); IB 4.85 mm (0.191 in.)
	Rear wheel	Bonded or riveted	Riveted 10 Primary, 12 Secondary (Drum); Molded (Disc)
		Manufacturer	Inland / Delco Moraine
		Lining code *****	IN 4035/4050 / DM 5470
		Material	
		**** Pri. or out-brd	192.5x50.8x4.98 (7.58 x 2.0 x 0.196)/125.0x48.4x11.04 (4.92x1.91x0.435)
		Size Sec. or in-brd	249.6x50.8x6.75 (9.83 x 2.0 x 0.266)/125.0x48.4x10.55 (4.92x1.91x0.415)
		Shoe thcknss (no lng)	Drum 1.98 mm (0.078 in.); Disc OB/4.0 mm (0.16 in.), IB/5.5 mm (0.21 in.)

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

MVMA Specifications

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement
Brakes – Service

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

HEAVY DUTY (OPTIONAL RPO 1LE)

Description				Front & Rear H/D Disc Brakes (Optional RPO 1LE)
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)			Disc
	Rear (disc or drum)			Disc
Valving type(prop,delay,metering,other)				Remote Proportioning Front/Rear Split
Power brake (std., opt., n.a.)				Standard
Booster type(rmt,intgrl,vac.,hyd.,etc.)				200 mm (7.87 in.) Tandem Vacuum
Vacuum	Source (inline, pump, etc.)			Engine
	Reservoir (volume cu. in.)			Not Applicable
	Pump-type			"
Traction Control	Operational speed range			"
	Type engine intervention			"
Anti-lock device	Front/rear (std., opt., n.a)			"
	Manufacturer			"
	Type (electronic, mech.)			"
	Number sensors or circuits			"
	No. anti-lock hyd. circuits			"
	Integral or add-on system			"
	Yaw control (yes, no)			"
	Hydraulic power source			"
Effective area [sq. cm. (sq. in.)]*				717 (111.1)
Gross Lng area [sq cm (sq in)] **(F/R)				792 (122.9)
Swept area [sq cm (sq in)]*** (F/R)				2980.74 (462.02)
Rotor	Outer working diameter		F/R	F 301.25 mm (11.86 in.) R 296.0 mm (11.65 in.)
	Inner working diameter		F/R	F 197.40 mm (7.77 in.) R 211.0 mm (8.31 in.)
	Thickness		F/R	F 26.20 mm (1.03 in.) R 20.0 (0.79 in.)
	Matl & type (vented/sld)		F/R	Cast Iron Vented
Drum	Diameter & width		F/R	Not Applicable
	Type and material		F/R	"
Wheel cylinder bore				F 2 x 38 mm (1.50 in.) R 40.5 mm (1.59 in.)
Master cylinder	Bore/stroke		F/R	24.0 mm (0.94 in.)
Pedal arc ratio				3.25:1
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]				--
Lining clearance			F/R	Self-Adjusting
Brake lining	Front wheel	Bonded or riveted		Integrally Molded
		Rivet size		Not Available
		Manufacturer		Japan Brake Industries
		Lining code *****		CP26
		Material		Semi-Metallic
		****	Pri.or out-brd	53.2 sq. cm. x 9.5 mm (8.25 sq. in. x .37 in.) Area x Thickness
		Size	Sec. or in-brd	53.2 sq. cm. x 9.5 mm (8.25 sq. in. x .37 in.) Area x Thickness
		Shoe thcknss.(no lng)		IB 6.0mm (.24 in.) OB 6.0 mm (.24 in.)
	Rear wheel	Bonded or riveted		Integrally Molded
		Manufacturer		Japan Brake Industries
		Lining code *****		HB33
		Material		Semi-Metallic
		****	Pri. or out-brd	28.4 sq. cm. x 8.2 mm (4.4 sq. in. x .32 in.) Area x Thickness
		Size	Sec. or in-brd	28.4 sq. cm. x 8.2 mm (4.4 sq. in. x .32 in.) Area x Thickness
		Shoe thcknss (no lng)		IB 5.5 mm (.21 in.) OB 4.0 mm (.16 in.)

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

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	SPORT COUPE	IROC-Z

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P215/65R-15	P215/65R-15 (+)
	Type (bias, radial, etc.)		Steel Belted Radial	
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa(psi)]	205 (30)	240 (35)
		Rear [kPa(psi)]	205 (30)	240 (35)
	Rev/mile–at 70 km/h(45mph)		498	505
Wheels	Type & material		Cast Aluminum	
	Rim (size & flange type)		15 x 7	
	Wheel offset		8.0	
	Attachment	Type(bolt,stud)	Stud	
		Circle diameter	120.7 mm (4.75 in.)	
		Number & size	5-M12 x 1.5 - 6H-thd. (Metric)	
Spare	Tire and wheel		15x4"T125/70D15 (Except With G80 Axle)	
	Storage position & location (describe)		Vertically Adjacent To R.H. Quarter Panel	

Tires And Wheels (Optional)

Tire size (load range, ply)		P245/50ZR16 * (+)
Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial
Wheel (type & material)		Cast Aluminum
Rim (size, flange type and offset)		16 x 8, Front: 0, Rear: 16
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel size (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		14x5; P195/75D14 (Inflatable) Used With G80 Axle And 15 Road Tire 15x5; P195/75D15 (Inflatable) Used With 16 in. Road Tire

Brakes – Parking

Type of control		Grip Handle Control
Location of control		Right Side Of Floor Console
If separate from service brakes	Type(internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

(*) Directional Tread. (+) Non "All Season" Tires.

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement	SPORT COUPE	IROC-Z

Steering

Manual (std., opt., n.a.)					Not Available	
Power (std., opt., n.a.)					Standard	
Adjustable steering wheel/ column (tilt, telescope, other)		Type			Tilt-Universal Jointed Steering. Shaft @ Base Of Steering Wheel. 5 Pos.	
		Manufacturer			Saginaw Division	
		(std., opt., n.a.)			Standard	
Wheel diameter ** (W9) SAE J1100		Manual			Not Available	
		Power			368 mm (14.5 in.)	
Turning diameter m (ft.)	Out-side front	Wall to wall (l. & r.)			12.59 (41.3)	12.95 (42.5)
		Curb to curb (l. & r.)			11.73 (38.5)	12.28 (40.3)
	In-side rear	Wall to wall (l. & r.)			Not Available	
		Curb to curb (l. & r.)			"	
Scrub Radius *					"	
Manual	Gear	Type			"	
		Manufacturer			"	
		Ratios	Gear		"	
			Overall		"	
	No. wheel turns(stop to stop)				"	
Power	Type (hydraulic, elec., etc.)				Hydraulic	
	Manufacturer				Saginaw Division	
	Gear	Type			Recirculating Ball	
		Ratios	Gear		14:1	12.7:1
			Overall		15.4:1	14:1
	Pump (drive)				Belt	
	No. wheel turns(stop to stop)				2.57	2.14
Linkage	Type				Parallelogram	
	Location (front or rear of wheels, other)				Front	
	Tie Rods (one or two)				2	
Steering axis	Inclination at camber (deg.)				Not Available	
	Bear-ings (type)	Upper			Ball Stud	
		Lower			Ball Stud	
		Thrust			None	
Steering spindle/knuckle & joint type					Steering Knuckle With Spherical Joints	
Wheel spindle/ hub	Dia-meter	Inner bearing			31.73-31.74mm (1.2493-1.2498 in.)	
		Outer bearing			21.04-21.42mm (0.83-0.84 in.)	
	Thread (size)				3/4-20 UNEF-3A (Modified)	
	Bearing (type)				Tapered Roller	

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

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement | ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	5.0 (+/-) .5
		Camber (deg.)	0.3 (+/-) .5
		Toe-in [outside track-mm (in.)]	0.0 (+/-) 0.2
	Service reset*	Caster (deg.)	#
		Camber (deg.)	"
		Toe-in (deg.)	"
	Periodic M.V. inspection	Caster (deg.)	"
		Camber (deg.)	"
		Toe-in (deg.)	"
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Applicable
		Toe-in [outside track-mm (in.)]	"
	Service reset*	Camber (deg.)	"
		Toe-in (deg.)	"
	Periodic M.V. inspection	Camber (deg.)	"
		Toe-in (deg.)	"

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

Same Caster, Camber & Toe Alignment For Sport Coupe & IROC-Z At Check, Reset, And Inspection

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Round Dial, Pointer, 0-110 mph (a)
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		Not Available
Charge indicator	Type	Electric Gauge
	Warning device (light, audible)	Not Available
Temperature indicator	Type	Electric Gauge
	Warning device	Not Available
Oil pressure indicator	Type	Electric Gauge
	Warning device	Not Available
Fuel indicator	Type	Electric Gauge With Pointer
	Warning device	Not Available
Windshield wiper	Type (standard)	Two Speed-Manual Control-Fluidic (Wet Arm)
	Type (optional)	Intermittent
	Blade length	454.4 mm (18 in.)
	Swept area [sq cm (sq in)]	5792 (898.0)
Windshield washer	Type (standard)	Manual Control
	Type (optional)	Not Available
	Fluid level indicator	"
Rear window wiper, wiper/washer (std., opt., n.a.)		"
Horn	Type	Vibrator
	Number used	2
Other		Tachometer Standard. Upshift Telltale On Manual Transmission. Check Engine, Headlamp High Beam, Turn Signals, Brake Warning Light, Fasten Seat Belts, Security, SIR.

(a) 0-145 mph For IROC-Z With LB9 W/MK6 Or L98.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description 3.1 LITER V6 (191 CID)
Engine Code MULTI-PORT FUEL INJECTION RPO LHO

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525
	Voltage	12
	Amps at 0 deg F cold crnk	525
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	--
	Location	Engine Compartment Left Front
Alternator	Manufacturer	Delco Remy
	Rating(idle/max rpm drive)	100 Amps (36 Amps At Idle)
	Ratio (alt. crank/rev.)	2.75:1
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Units, Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Delco Remy
	Current drain 20 deg F	325
	Power rating [kw (hp)]	1.4 (1.9)
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Rear

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		Standard
	Other (specify)		High Energy Ignition
Coil	Manufacturer		Delco Remy
	Model		Separate
	Current	Engine stopped-A	0
		Engine idling - A	5.5 max.
Spark plug	Manufacturer		AC/Rochester Products
	Model		R43TS
	Thread (mm)		14 x 1.25
	Tightening torque [Newton meters (lb. ft.)]		9-20 (7-15)
	Gap		1.14mm (.045 in.)
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		10455016

Electrical – Suppression

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	THROTTLE BODY INJECTION RPO L03

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75.525 (Man.) 75-570 (Auto.)
	Voltage	12
	Amps at 0 deg F cold crnk	525 Base
	Minutes-reserve capacity	90 Base
	Amps/hrs. – 20 hr. rate	--
	Location	Engine Compartment
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	100 Amps (36 Amps At Idle)
	Ratio (alt. crank/rev.)	3.0:1
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Units, Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Delco Remy
	Current drain 20 deg F	420
	Power rating [kw (hp)]	2.3 (3.1)
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Rear

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		--
	Other (specify)		High Energy Ignition, (H.E.I.)
Coil	Manufacturer		Delco Remy
	Model		Separate
	Current	Engine stopped-A	0
		Engine idling – A	1
Spark plug	Manufacturer		AC
	Model		R45TS
	Thread (mm)		14 x 1.25
	Tightening torque [Newton meters (lb. ft.)]		9-20 (7-15)
	Gap		0.89 (0.035)
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		1103460

Electrical – Suppression

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

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	TUNED PORT FUEL INJECTION RPO LB9

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75.525 (Man.) 75-570 (Auto.)
	Voltage	12
	Amps at 0 deg F cold crnk	525 (a), 570 (b)
	Minutes-reserve capacity	75 (a), 90 (b)
	Amps/hrs. - 20 hr. rate	--
	Location	Engine Compartment Right Front
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps (42 Amps At Idle)
	Ratio (alt. crank/rev.)	3.14:1
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Units, Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Delco Remy
	Current drain -20 deg F	305
	Power rating [kw (hp)]	1.9 (2.5)
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Rear

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		--
	Other (specify)		High Energy Ignition, (H.E.I.)
Coil	Manufacturer		Delco Remy
	Model		Remote Mounted
	Current	Engine stopped-A	0.5
		Engine idling - A	1.0
Spark plug	Manufacturer		AC
	Model		R45TS
	Thread (mm)		M14 x 1.25 SAE
	Tightening torque [Newton meters (lb. ft.)]		9-20 (7-15)
	Gap		0.89 (0.035")
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		1103698

Electrical – Suppression

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

MVMA Specifications

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

METRIC (U.S. Customary)

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

Electrical – Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75 - 630
	Voltage	12
	Amps at 0 deg F cold crnk	630
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	--
	Location	Engine Compartment Right Front
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	105 Amps (42 Amps At Idle)
	Ratio (alt. crank/rev.)	3.14:1
	Output at idle (rpm, park)	
	Optional (type & rating)	None
Regulator	Type	Micro Circuit Units, Integral With Alternator

Electrical – Starting System

Motor	Manufacturer	Delco Remy
	Current drain -20 deg F	305
	Power rating [kw (hp)]	2.3 (3.1)
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Rear

Electrical – Ignition System

Type	Electronic (std, opt,n.a.)		--
	Other (specify)		High Energy Ignition, (H.E.I.)
Coil	Manufacturer		Delco Remy
	Model		Remote Mounted
	Current	Engine stopped-A	0.5
		Engine idling - A	1.0
Spark plug	Manufacturer		AC
	Model		R45TS
	Thread (mm)		M14 x 1.25 SAE
	Tightening torque [Newton meters (lb. ft.)]		9-20 (7-15)
	Gap		0.89 (0.035")
	Number per cylinder		1
Distributor	Manufacturer		Delco Remy
	Model		1103698

Electrical – Suppression

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

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type	ALL

Body

Structure	Full Unitized Steel Construction. Cowl, Roof, Underbody And Body Panels Welded To Form Body Shell. Bolt-In Front Suspension Crossmember. Doors, Roof, Hood And Hatch Lid Double Panel Construction.
Bumper System Front - Rear	Body Color Soft Fascia, Honeycomb Absorber And Heavy Gauge Reinforcement Used Front And Rear.
Anti-Corrosion Treatment	Galvanized Metals, Zinc Rich Primers, Wax Coating And Other Corrosion Resistant Materials Used Throughout

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)			High Solids Acrylic Enamel Base Coat/Clear Coat
Hood	Material & mass		Steel
	Hinge location (front, rear)		Rear
	Type (counterbalance, prop)		Gas Strut Assist
	Release control (int., ext.)		Internal
Trunk lid	Material & mass		Steel
	Type (counterbalance, other)		Convertible Only (a)
	Internal release control (elec., mech., n.a.)		Convertible Only. Mechanical Release
Hatch-back lid	Material & mass		Glass/Steel
	Type (counterbalance, other)		Dual Gas Struts - Electric Final Closure Standard
	Internal release control elec., mech., n.a.)		Electric Release Optional
Tailgate	Material & mass		Not Applicable
	Type (drop, lift, door)		"
	Internal release control (elec., mech., n.a.)		"
Vent window control (crank, friction, pivot, power)		Front	Not Available
		Rear	"
Window regulator type (cable, tape, flex, drive, etc.)		Front	Sector Drive
		Rear	Sector Drive
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam, etc.)		Front	Bucket Molded Foam Pad
		Rear	"
		3rd seat	--
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)		Front	Reclining Bucket Molded Foam Pad
		Rear	Folding Bench. Split Back Optional Molded Foam Pad
		3rd seat	--
			(a) Convertible Folding Top Manual Standard, No Power Option

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type ALL

Restraint System

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

Glass

	SAE Ref No	COUPE	CONVERTIBLE
Windshield glass exposed surface area [sq. cm. (sq. in.)]	S1	9000.4 (1395.0)	
Side glass exposed surface area [sq. cm. (sq. in.)] - total 2- sides	S2	6519.8 (1010.6)	
Backlight glass exposed surface area [sq. cm. (sq. in.)]	S3	6232.0 (966.0)	3844.1 (598.8)
Total glass exposed surface area [sq. cm. (sq. in.)]	S4	21752.2 (3371.6)	19364.3 (3001.4)
Windshield glass (type)		Curved - Laminated Plate	
Side glass (type)		Curved - Tempered Plate	
Backlight glass (type)		Curved - Tempered Plate	Vinyl

Headlamps

Description - sealed beam, halogen, replaceable bulb, etc.	Sealed Beam - Four Lamp System
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	2A
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	1A
Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Full Integral Body Frame, Includes Bolted On Front Suspension Crossmember.

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type | ALL

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

Air conditioning (manual, auto, temp control)		Optional - Manual Control
Clock (digital, analog)		Digital, In Radio
Compass / thermometer		Not Available
Console (floor, overhead)		Floor Standard, Overhead Not Available
Defroster, elec. backlight		Optional (Not Availabe On Convertible)
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	Tachometer, Speedometer, Trip Odometer, Full, Oil Pressure*, Temp, Volt, Seat Belt Warning, Engine Warning.
	Keyless entry	Not Available
	Tripminder (avg. spd. fuel)	"
	Voice alert (list items)	"
	Other	"
Fuel door lock (remote, key, electric)		Not Available
Lamps	Auto head on/off delay, dimming	"
	Cornering	"
	Courtesy (map, reading)	Included In Opt.Lamp Group (Under Dash); Lighted Mirror Opt.-Std. On Convt.
	Door lock, ignition	Not Available
	Engine compartment	Standard
	Fog	Standard IROC-Z, Not Available On Sport Coupe
	Glove compartment	Standard (Compartment In Floor Console)
	Trunk	Rear Compartment Included In Optional Lamp Group
	Illuminated entry system (list lamps, activation)	Not Available
	Other	
Mirrors	Day / night (auto. man.)	Standard - Manual
	L.H. (remote, pwr., heated)	Remote Standard, Power Optional - Not Heated.
	R.H.(convex, rmt, pwr, htd)	Manual Standard, Power Optional. Both Convex - Not Heated.
	Visor vanity (RH/LH illum.)	RH, Non-Illuminated: NA Sport Coupe; Std. IROC-Z
Navigation system (describe)		
Prkg. brake-auto release (warn. light)		Hand Release, Warning Light Standard

Radio Options:

* Full Gauge Package Standard.

MVMA Specifications

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

METRIC (U.S. Customary)

Engine Description
Engine Code ALL

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

Power equipment	Deck lid(release, pull down)		Opt. - Electric, Door Locks And Rear Hatch Release
	Door locks (manual, auto., describe system)		Manual - Standard Electric - Optional
	Seats	2 - 4 - 6 way, etc.	Optional 6-Way Power Driver's Seat
		Reclining(R.H., L.H.)	Reclining Both Front Seats
		Memory (R.H., L.H., preset, recline)	Not Available
		Lumbar, hip, thigh, support	"
		Heated (R.H., L.H., other)	"
	Side windows		Optional
	Vent windows		Not Available
	Rear windows		"
Radio systems	Antenna (location, whip, w/shield, power)		R. F. Fender Fixed Mast Standard, Power Optional
	Stan.		
	Opt.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo W/Seek, Scan & Digital Clock, AM/FM Electronically Tuned Stereo Seek, Scan, Cassette Player & Digital Clock, AM/FM Stereo Electronically Tuned Seek, Scan Graphic Equalizer, Cassette W/Search & Repeat W/Digital Clock, AM/FM Bose II Stereo, Cassette Search & Repeat Digital Clock.
	Speaker (number, location)		Four-Two In Instrument Panel, Two In Roof Sail Pan. Convertible In Quarter Sidewalls
Roof: open air or fixed (flip-up, sliding, "T")			"T" Type, Optional
Speed control device			Cruise Control, Optional
Speed warn. dev. (light, buzzer, etc.)			Not Available
Tachometer (rpm)			Standard
Telephone system (describe)			Not Available
Theft deterrent system			Lock Mounted On Steering Column; Locks Steering Wheel, Transmission Shift Lever And Ignition. Pass Key.

(a) Power Final Closure Latch Standard For Both Non-Convertible Mode

MVMA Specifications

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

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

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

Body Type	ALL

o Width

	SAE Ref. No.	
Tread (front)	W101	1525 (60.0)
Tread (rear)	W102	1548 (60.9)
Vehicle width	W103	1850 (72.8)
Body width at Sg RP (front)	W117	1830 (72.0)
Vehicle width (front doors open)	W120	3939 (155.1)
Vehicle width (rear doors open)	W121	--
Tumble-home (deg.)	W122	31.5
Outside mirror width	W410	

o Length

Wheelbase	L101	2566 (101.0)
Vehicle length	L103	4877 (192.0)
Overhang (front)	L104	1178 (46.4)
Overhang (rear)	L105	1133 (44.6)
Upper structure length	L123	2669 (105.1)
Rear wheel C/L 'X' coordinate	L127	2138 (84.2)

o Height **

Passenger distribution (front/rear)	PD1,2,3	2-2	**
Trunk/cargo load			**
Vehicle height	H101	1279 (50.3)	
Cowl point to ground	H114	904 (35.6)	
Deck point to ground	H138	918 (36.1)	
Rocker panel-front to ground	H112	201 (7.9)	
Rocker panel-rear to ground	H111	197 (7.8)	
Windshield slope angle (deg.)	H122	62.0	
Backlight slope angle (deg.)	H121	71.0	

Ground Clearance **

Front bumper to ground	H102	347 (13.7)
Rear bumper to ground	H104	329 (13.0)
Bumper to ground [front at curb mass (wt.)]	H103	359 (14.1)
Bumper to ground [rear at curb mass (wt.)]	H105	344 (13.5)
Angle of approach (deg.)	H106	12.2
Angle of departure (deg.)	H107	18.8
Ramp breakover angle (deg.)	H147	13.4
Axle differential to ground (front/rear)	H153	182 (7.2)
Min. running ground clearance	H156	128 (5.1)
Location of min. run. grd. clear.		Front Crossmember

** All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.

EPA Loaded Vehicle Weight is the Base Vehicle Weight Plus All Coolant and Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

All linear dimensions are in millimeters (inches).

MVMA Specifications

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

METRIC (U.S. Customary)
Vehicle Dimensions

See Key Sheets for Definitions

Body Type | ALL

○ Front Compartment

		SAE Ref. No.	
	SgRP front, 'X' coordinate	L31	1050 (41.3)
	Effective head room	H61	940 (37.0) Coupes, 942 (37.1) Convertible
	Max. eff. leg room (accelerator)	L34	1092 (43.0) Coupes, 1089 (42.9) Convertible
	SgRP to heel point	H30	181 (7.1)
	SgRP to heel point	L53	911 (35.9)
	Back angle (deg.)	L40	26.5
	Hip angle (deg.)	L42	98.0
	Knee angle (deg.)	L44	133.0
	Foot angle (deg.)	L46	87.0
	Design H-point front travel	L17	192 (7.6)
	Normal driving & riding seat track trvl.	L23	171 (6.7)
	Shoulder room	W3	1460 (57.5) Coupes, 1488 (58.6) Convertible
	Hip room	W5	1430 (56.3) Coupes, 1342 (52.8) Convertible
***	Upper body opening to ground	H50	--
	Steering wheel maximum diameter*	W9	368 (14.5)
	Steering wheel angle (deg.)	H18	18.0
	Accel. heel pt. to steer. whl. cntr	L11	Not Available
	Accel. heel pt. to steer. whl. cntr	H17	"
	Undepressed floor covering thickness	H67	16 (0.6)

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

○ Rear Compartment

	SgRP point couple distance	L50	668 (26.3)
	Effective head room	H63	905 (35.6) Coupes, 918 (36.1) Convertible
	Min. effective leg room	L51	756 (29.8) Coupes, 719 (28.3) Convertible
	SgRP (second to heel)	H31	183 (7.2)
	Knee clearance	L48	-15 (-0.6)
	Shoulder room	W4	1430 (56.3) Coupes, 1222 (48.1) Convertible
	Hip room	W6	1087 (42.8) Coupes, 1116 (43.9) Convertible
***	Upper body opening to ground	H51	--
	Back angle (deg.)	L41	28.0
	Hip angle (deg.)	L43	68.0
	Knee angle (deg.)	L45	66.5
	Foot angle (deg.)	L47	116.5
	Depressed floor covering thickness	H73	18 (0.7)

Luggage Compartment

	Usable luggage capacity [L (cu. ft.)]	V1	--	146 (5.2) Convertible
***	Liftover height	H195	883 (34.8)	

Interior Volumes (EPA Classification)

Vehicle class		Sub-Compact
Interior volume index (cu. ft.)**		84.9
Trunk / cargo index (cu. ft.)		12.4

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

***** EPA Loaded Vehicle Weight, Loading Contitions**

All linear dimensions are in millimeters (inches).

MVMA Specifications

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

METRIC (U.S. Customary)
Vehicle Dimensions

See Key Sheets for Definitions

Body Type ALL

Station Wagon – Third Seat

	SAE Ref. No.	(NOT APPLICABLE)
Seat facing direction	SD1	
SgRP couple distance	L85	
Shoulder room	W85	
Hip Room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon – Cargo Space

		(NOT APPLICABLE)
Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
* Min. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [cu. m.(cu.ft.)]	V2	
Hidden cargo vol. index [cu.m.(cu.ft.)]	V4	
Cargo volume index–rear of 2–seat	V10	

Hatchback – Cargo Space

Cargo length at front seatback height	L208	895 (35.2)
Cargo length at floor (front)	L209	1556 (61.3)
Cargo length at second seatback height	L210	610 (24.0)
Cargo length at floor (second)	L211	845 (33.3)
Front seatback to load floor height	H197	355 (14.0)
Second seatback to load floor height	H198	242 (9.5)
Cargo volume index [cu. m. (cu. ft.)]	V3	879 (31.0)
Hidden cargo vol. index [cu.m.(cu.ft.)]	V4	--
Cargo volume index–rear of 2–seat	V11	350 (12.4)

* EPA Loaded Vehicle Weight, Loading Conditions

All linear dimensions are in millimeters (inches).

MVMA Specifications

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

METRIC (U.S. Customary)

Body Type ALL

Vehicle Fiducial Marks

Number*	Define Coordinate Location
Front	X - Fiducial Mark To Vertical Zero Grid Line - Front Measured Horizontally, From The Zero Grid Line To The Front Fiducial Mark Located On Top Of The Front Seat Adjuster Mounting Bolt. Y - Fiducial Mark To Centerline Of Car - Front, Width Measurement Made From Centerline Car To Fiducial Mark Located On Top Of The Front Seat Adjuster Mounting Bolt. Z - Fiducial Mark To Horizontal Zero Grid Line - Front, Measured Vertically From Zero Grid Line To Front Fiducial Mark Located On Top Of The Front Seat Adjuster Mounting Bolt.
Rear	X - Fiducial Mark To Vertical Zero Grid Line - Rear, Measured Horizontally From The Zero Grid Line To Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal). X - Fiducial Mark To Centerline Of Car - Rear, Width Measurement Made From Centerline Of Car To Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal). Z - Fiducial Mark To Horizontal Zero Grid Line - Rear, Measured Vertically From The Zero Grid Line to Rear Fiducial Mark Located On The Rail (Compartment Pan - Longitudinal).

	Fiducial Mark Number	
Front	W21*	540 (21.3)
	L54*	688 (27.1)*
	H81*	-32 (-1.3)#
	H161*	296 (11.7)
**	H163*	284 (11.2)
Rear	W22*	548 (21.6)
	L55*	2815 (110.8)*
	H82*	96 (3.8)#
	H162*	417 (16.4)
**	H164*	407 (16.0)

* Vertical Base Grid 2000 mm Line
\# Horizonal Base Grid 500 mm Line

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

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

All linear dimensions are in millimeters (inches).

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO

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

Code Model	Vehicle Mass (weight)							
	CURB MASS, kg. (lb.)*			% PASS MASS DISTRIBUTION				
				Pass in Front		Pass in Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	ETWC** Code
CAMARO	782	628	1410					
1FP87 2-Door Coupe (LHO & MB1)	(1723)	(1384)	(3107)					3500
	867	652	1519					
1FP67 2-Door Convertible (L03 & M39)	(1911)	(1437)	(3348)					3750
CAMARO IROC-Z	859	647	1506					
1FP87 W/Z28 2-Door Coupe (LB9 & M39)	(1893)	(1426)	(3319)					3750
	879	664	1543					
1FP67 W/Z28 2-Door Convertible (LB9 & M39)	(1939)	(1463)	(3400)					3750

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

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

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

ETWC LEGEND

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

SHIPPING MASS (weight) Calculation (Kg. (lbs.)

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

35 (77)

MVMA Specifications

METRIC (U.S. Customary)

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

Optional Equipment Differential Mass (weight)*					
		MASS, kg. (lb.)			
Code	Equipment	Front	Rear	Total	Remarks Restrictions, Requirements
AG9	Power Seat, 6-Way (Driver's side only)	1.6 (3.5)	2.0 (4.4)	3.6 (7.9)	
AU3	Power Door Locks - Electric	.9 (2.0)	.9 (2.0)	1.8 (4.0)	
A31	Power Windows - Electric	1.2 (2.6)	1.0 (2.2)	2.2 (4.8)	
A90	Lock Release - Liftback Electric	.2 (0.4)	.4 (0.9)	.6 (1.3)	Not Available Convertible
B34	Mats, Front Floor - Color-Keyed Carpet	.8 (1.8)	.4 (0.9)	1.2 (2.7)	
B35	Mats, Rear Floor - Color-Keyed Carpet	.2 (0.4)	.6 (1.3)	.8 (1.8)	
B48	Deluxe Luggage Compartment Trim	0 (0)	.4 (.9)	.4 (.9)	
B84	Moldings - Body Side	.2 (0.4)	.4 (0.9)	.6 (1.3)	
CC1	Roof-Removable Hatch Panels - Glass	5.8 (12.8)	9.6 (21.2)	15.4 (34.0)	Includes Storage Bag And Attaching Hardware
CD4	Windsield Washer and Wiper (Pulse System)	.2 (0.4)	0 (0)	.2 (0.4)	Optional
C49	Defogger - Rear Window (Electric)	0 (0)	.4 (0.9)	.4 (0.9)	

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO

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

		Optional Equipment Differential Mass (weight)*			
		MASS, kg. (lb.)			
Code	Equipment	Front	Rear	Total	Remarks Restrictions, Requirements
C60	Air Conditioning (Manual Control)	16.6 (36.5)	2.2 (4.8)	18.8 (41.3)	With RPO LH0 Engine. Sport Coupe
		18.0 (39.6)	1.4 (3.0)	19.4 (42.6)	With RPO LB9 & MD8
		19.4 (42.8)	1.6 (3.5)	21.0 (46.3)	With RPO LO3 & MD8
		18.0 (39.7)	1.2 (2.6)	19.2 (42.3)	With RPO LB9 & M39
		19.4 (42.8)	1.6 (3.5)	21.0 (46.3)	With RPO LO3 & M39
DG7	Sport Mirrors - Electric. Remote Control R.H.&L.H. Controls on L.H. Door Panel	.4 (0.9)	.2 (0.4)	.6 (1.3)	
D42	Rear Compartment Cargo Area Cover	-.4 (-0.9)	2.4 (5.3)	2.0 (4.4)	Not Available Convertible
J65	Power 4-Wheel Disc Brakes	0 (0)	14.8 (32.6)	14.8 (32.6)	IROC-Z With L98 Only
K34	Cruise Control-Three Mode With Resume Feature.	2.4 (5.3)	0 (0)	2.4 (5.3)	All Models Except LH0
	(Available On Manual Or Automatic Transmissions)	2.0 (4.4)	0 (0)	2.0 (4.4)	With LH0

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO

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

Optional Equipment Differential Mass (weight)*

Code	Equipment	MASS, kg. (lb.) Front	Rear	Total	Remarks Restrictions, Requirements
LB9	5.0 Liter V8 (305 CID)	75.0 (165.3)	7.4 (16.3)	82.4 (181.6)	IROC-Z With M39
		62.6 (138.0)	6.4 (14.1)	69.0 (152.1)	IROC-Z With MD8
L03	5.0 Liter V8 (305 CID)	70.2 (154.8)	2.2 (4.9)	72.4 (159.7)	Sport Coupe With M39
		53.4 (117.7)	1.8 (4.0)	55.2 (121.7)	Sport Coupe With MD8
L98	5.7 Liter V8 (350 CID)	66.0 (145.5)	6.2 (13.6)	72.2 (159.1)	IROC-Z With MD8
M39	5-Speed Manual Transmisison	-.4 (-0.9)	0 (0)	-.4 (-0.9)	
MXO	Automatic Transmission Overdrive (700-R4)	12.8 (28.2)	4.4 (9.7)	17.2 (37.9)	With LH0-V6 Engine, With Sport Coupe
		31.4 (69.2)	10.0 (22.0)	41.4 (91.2)	With L03-V8 Engine, Sport Coupe
		31.4 (69.2)	10.0 (22.0)	41.4 (91.2)	With L03-V8 Engine, IROC-Z
		31.4 (69.2)	10.0 (22.0)	41.4 (91.2)	With LB9 & L98 V8 Engines, IROC-Z Only
N33	Steering Column - Tilt	.8 (1.8)	.2 (0.4)	1.0 (2.2)	
U29	Lamp Group - Auxillary Includes: - Courtesy Lamps	0 (0)	0 (0)	0 (0)	

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO

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

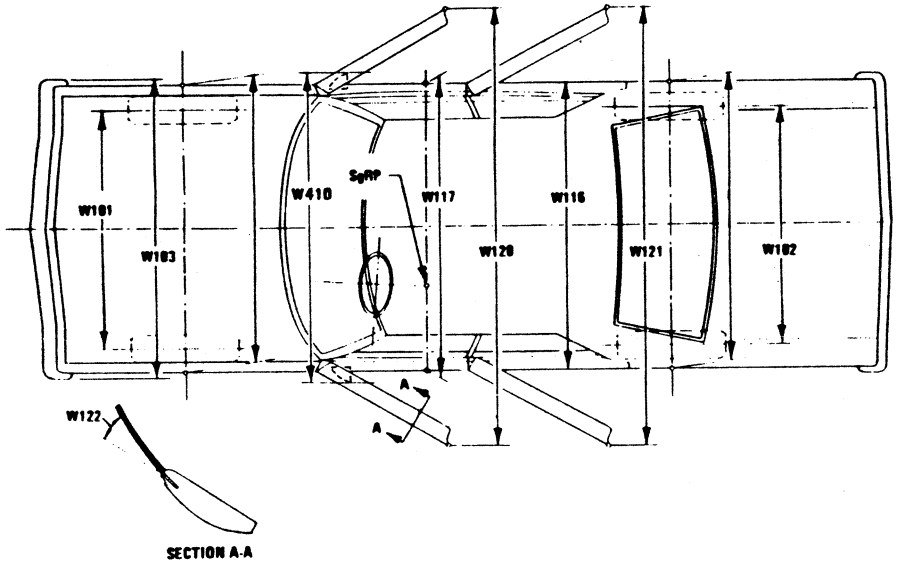
Optional Equipment Differential Mass (weight)*

Code	Equipment	MASS, kg. (lb.) Front	Rear	Total	Remarks Restrictions, Requirements
U25	Rear Compartment Light	0 (0)	.2 (0.4)	.2 (0.4)	
U26	Underhood Light	0 (0)	0 (0)	0 (0)	
TR9	Package Number	.2 (0.4)	0 (0)	.2 (0.4)	
UA1	Battery - Heavy Duty	0.2 (0.44)	0 (0)	0.2 (0.44)	LH0/L03
		2.2	-0.4	1.8	LB9
U75	Antenna - Power (Consists of UN9 Radio Suppression Equipment Requires Radio)	1.0 (2.2)	.2 (0.4)	1.2 (2.6)	
UU8	Extended Range Sound System AM/FM Stereo Cass.Tape, Dolby Sound and Digital Clock	0.6 (1.3)	0.2 (0.4)	0.8 (1.7)	Optional Except Convertible.
UX1	Extended Range Sound System, AM Stereo/FM Stereo ETR Radio - Cassette with Clock and Graphic Equalizer. (Includes VE8, UU6, UP8, U73, U79)	0.6 (1.3)	0.2 (0.4)	0.8 (1.7)	Optional
UM6	Extended Range Sound System AM/FM Stereo ETR Radio, Clock, Cassette (Includes UP8, UU9, U73, U79)	0.6 (1.3)	0.2 (0.4)	0.8 (1.7)	Optional

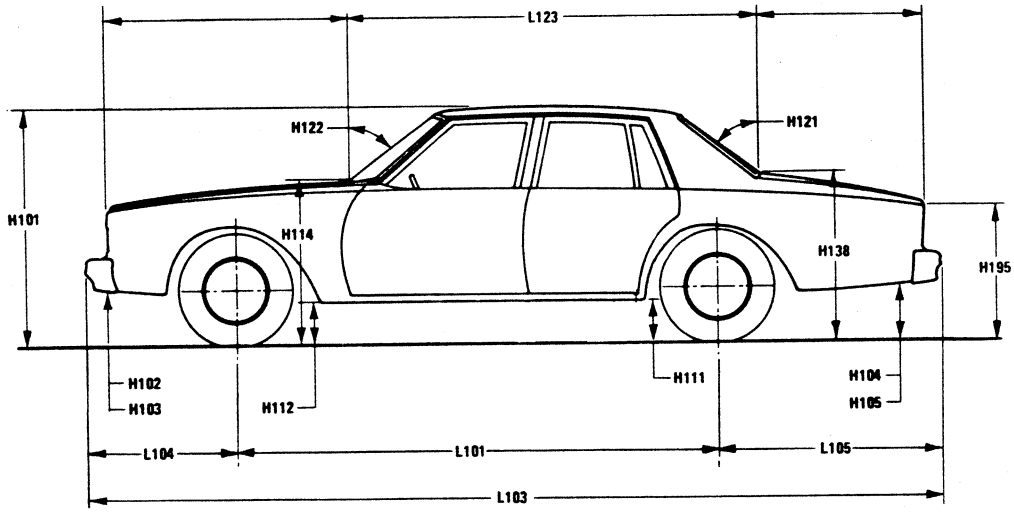
* Also see Engine - General Section for dressed engine mass (weight).

Exterior Vehicle And Body Dimensions – Key Sheet

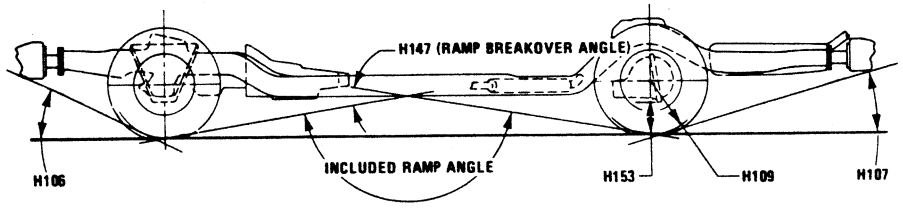
Exterior Width



Exterior Length & Height



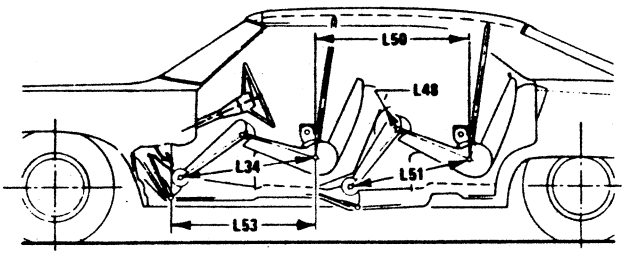
Exterior Ground Clearance

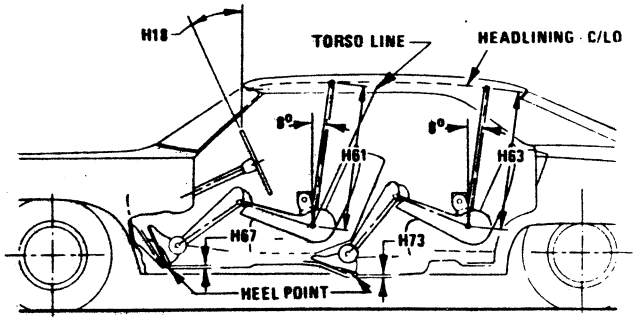


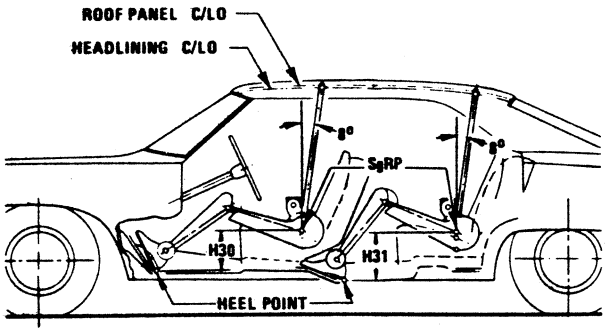
MVMA Specifications Form

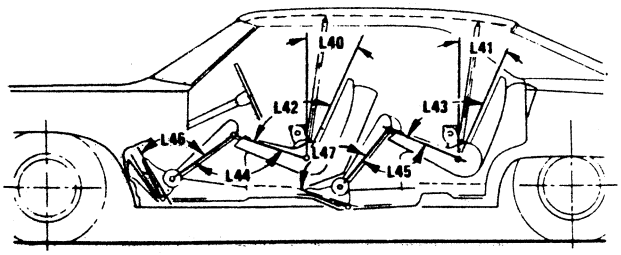
METRIC (U.S. Customary)

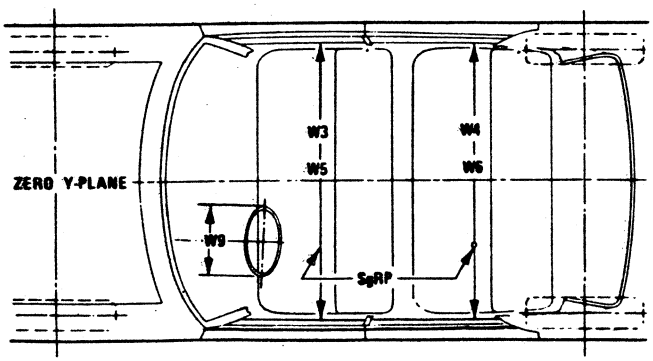
Interior Vehicle And Body Dimensions – Key Sheet

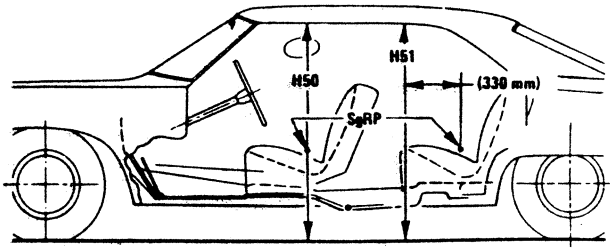






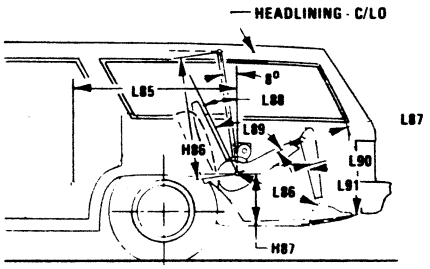


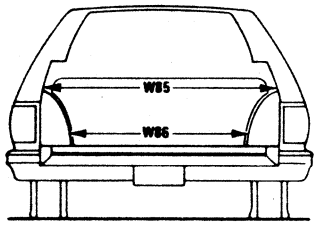




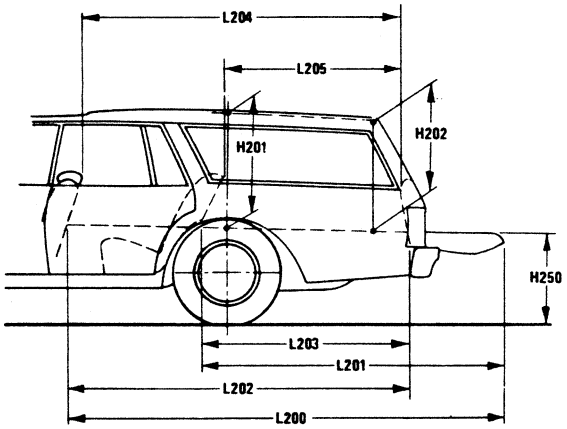
Interior Vehicle And Body Dimensions – Key Sheet

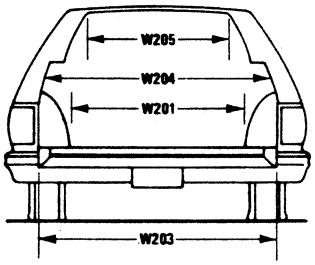
Third Seat



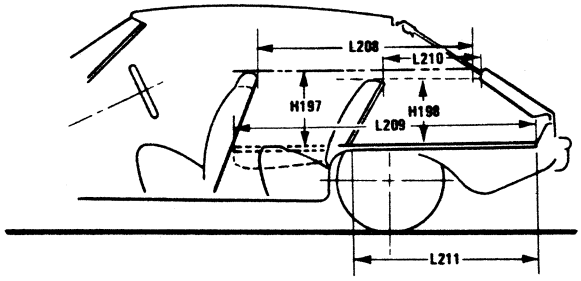


Cargo Space





Station Wagon



Hatchback

Exterior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Seating Reference Point

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

Width Dimensions

W101 TREAD – FRONT. The dimension measured between the tire centerlines at the ground.

W102 TREAD – REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP – FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.

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

W121 VEHICLE WIDTH – REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.

W122 TUMBLE – HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

W410 OUTSIDE MIRROR WIDTH: The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

Length Dimensions

L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L104 OVERHAND – FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L105 OVERHANG – REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

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

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H111 ROCKER PANEL – REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

H112 ROCKER PANEL – FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

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

H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.

H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.

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

H109 STATIC LOAD – TIRE RADIUS – REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

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

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

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

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

H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point structural interference rearward of the rear tire to ground. The limiting component shall be designated.

H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

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

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

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Glass Areas

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

Fiducial Mark Dimensions

Fiducial Mark – Number 1

L54 "X" coordinate.
W21 "Y" coordinate.
H81 "Z" coordinate.
H161 Height "Z" coordinate to ground at curb weight.
H163 Height "Z" coordinate to ground.

Fiducial Mark – Number 2

L55 "X" coordinate.
W22 "Y" coordinate.
W82 "Z" coordinate.
H162 Height "Z" coordinate to ground at curb weight.
H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.

L17 DESIGN H-POINT – FRONT TRAVEL. The dimension measured horizontally between the design H-point – front in the foremost and rearmost seat track positions. (See SAE J1100)

L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).

L31 SgRP – FRONT. "X" COORDINATED.

L34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP – front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

L-40 BACK ANGLE – FRONT. The angle measured between a vertical line through the SgRP – front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

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

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

L46 FOOT ANGLE – FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.

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

W3 SHOULDER ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front at height between the belt line and 254 mm (10.0 in.) above the SgRP – front, excluding the door assist strap and attaching parts.

W5 HIP ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP – front and 76 mm (3.0 in.) fore and aft of the SgRP – front.

W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.

H7 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP – front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.

H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.

H30 SgRP – FRONT TO HEEL. The dimension measured vertically from the SgRP – front to the accelerator heel point.

H50 UPPER BODY OPENING TO GROUND – FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP – front "X" plane.

H61 EFFECITVE HEAD ROOM – FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP – front to the headlining plus 102 mm (4.0in.).

H67 FLOOR COVERING THICKNESS – UNDEPRESSED – FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

L-41 BACK ANGLE – SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.

L43 HIP ANGLE – SECOND. The angle measured between torso line and thigh centerline.

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

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

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

L50 SgRP COUPLE DISTANCE – SECOND. The dimension measured horizontally from the driver SgRP – front to the SgRP – second.

L51 MINIMUM EFFECTIVE LEG ROOM – SECOND. The dimension measured along a line from the ankle pivot center to the SgRP – second plus 254 mm (10.0 in.).

W4 SHOULDER ROOM – SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP – second at height between 254-406 mm (10.0-16.0 in.) above the SgRP – second, excluding the door assist straps and attaching parts.

W6 HIP ROOM – SECOND. Measured in the same manner as W5.

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

H51 UPPER BODY OPENING TO GROUND – SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP – second.

H63 EFFECTIVE HEAD ROOM – SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).

H73 FLOOR COVERING – DEPRESSED – SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Luggage Compartment Dimensions

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

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estiamtes the space in a car. It is based on four measurements – head room, shoulder room, hip room, and leg room – for the front and rear seats, plus trunk capacity. The Interior Volume Index is an estimate of the size of the passenger compartment.

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

Station Wagon – Third Seat Dimensions

L85 SgRP COUPLE DISTANCE – THIRD. The dimension measured horizontally from the SgRP – second to the SgRP – third.

L86 EFFECTIVE LEG ROOM – THIRD. The dimension measured along a line from the ankle pivot center to the SgRP – third plus 254 mm (10.0 in.).

L87 KNEE CLEARANCE – THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.

L88 BACK ANGLE – THIRD. Measured in the same manner as L41.

L89 HIP ANGLE – THIRD. Measured in the same manner as L43.

L90 KNEE ANGLE – THIRD. Measured in the same manner as L45

L91 FOOT ANGLE – THIRD. Measured in the same manner as L47.

W85 SHOULDER ROOM – THIRD. Measured in the same manner as W4.

W86 HIP ROOM – THIRD. Measured in the same manner as W5.

H86 EFFECTIVE HEAD ROOM – THIRD. The dimension, measured along a line 8 deg. from the SgRP – third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).

H87 SgRP – THIRD TO HEEL POINT.

SD1 SEAT FACING DIRECTION – THIRD.

Station Wagon – Cargo Space Dimensions

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

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

L202 CARGO LENGTH – CLOSED – FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L203 CARGO LENGTH – CLOSED – SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L204 CARGO LENGTH AT BELT – FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.

L205 CARGO LENGTH AT BELT – SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.

W201 CARGO WIDTH – WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.

W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.

H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.

H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

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

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

Measured in mm:

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

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

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

Measured in mm:

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

V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

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

Measured in mm:

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

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

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR – FRONT – HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT – HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.

L211 CARGO LENGTH AT FLOOR – SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

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

V3 HATCHBACK.
Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

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

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

Measured in mm:

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

MVMA Specifications

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