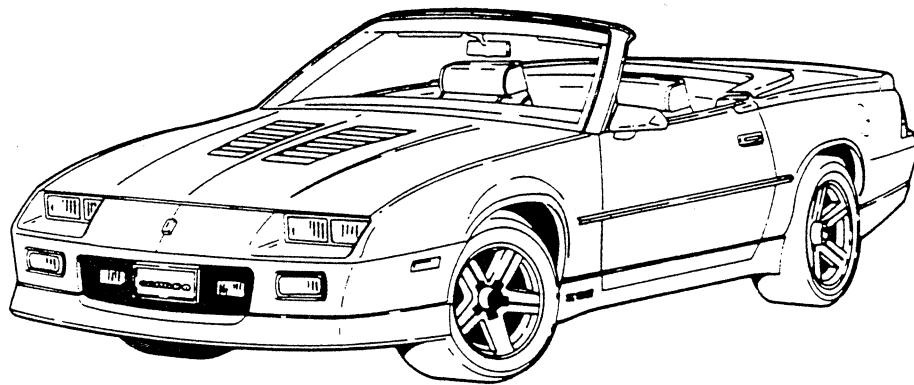


# CHEVROLET

2731CAMA-91

## CAMARO

### 1991 SPECIFICATIONS



THE HEARTBEAT OF AMERICA. TODAY'S CHEVROLET.



## WHITE BOOK ORDER FORM

## WHITE BOOK ORDER FORM

The Genuine  
**Camaro White Book™**  
1967-1993

Published by  
Michael Bruce Associates, Inc.  
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# 1991 CAMARO

Production: 31,722 V6, 69,116 V8, 100,838 total.



Chevrolet photo

1991 Camaro Z28 Coupe

## 1991 NUMBERS

**Vehicle:** 1G1FP23EXML100001 thru 1G1FP23EXML200838

• Fifth digit is model level: P= Camaro (all models)

• Sixth digit is body style: 2=Hatchback Coupe, 3=Convertible

• Eighth digit is engine code: F=305ci V8 (LB9) E=305ci V8 (L03)

T=191ci V6 (LH0) 8=350ci V8 (B2L or L98)

• Ninth digit is check digit and varies.

• Tenth digit is model year: M=1991

• Eleventh digit is assembly plant code: L=Van Nuys

• Last six digits increased one for each car built.

• VINs shown are examples and may not be exact.

**Dimensions:** Length: 192.6 inches Height: 50.4 inches  
Width: 72.4 inches Wheelbase: 101.0 inches

**Suffix:** CDC: 191ci, at CLD: 305ci, at CLW: 305ci, mt  
CFA: 191ci, mt CLF: 305ci, mt CMB: 350ci, at  
CFD: 191ci CLH: 305ci, at CMP: 350ci, at  
CLC: 305ci, mt CLJ: 305ci

**Abbreviations:** at=automatic transmission, ci=cubic inch, mt>manual transmission, VIN=vehicle identification number.

## 1991 FACTS

• Chevrolet did not renew its contract with the *International Race of Champions* for 1991 and thus could not continue to use the IROC model designation for Camaros. Production of 1990 models was terminated early and 1991 Camaros arrived in dealer showrooms in March 1990. With the 1991's early arrival came the return of the Z28 model to replace IROC-Z. Camaro's four 1991 models were RS Coupe, RS Convertible, Z28 Coupe, and Z28 Convertible.

• All 1991 Camaros had redesigned ground-effects panels. Z28 Coupes were equipped with a new, much taller rear spoiler. RS Coupes had the same spoiler style as 1990, but the center high-mount stoplamp was relocated to the upper inside of the hatch window for both RS Coupe and Z28 Coupe. Convertible models retained their unique rear spoiler with integral stoplamp. Z28 Coupes and Convertibles also had new body-color, twin hood blisters.

## 1991 FACTS cont...

• Chevrolet built 478 Z28 Coupes with "1LE" equipment for 1991. As in 1989 and 1990, RPO G92 triggered the build. RPO G92 required one of two engine combinations, the 305ci LB9 V8 with 5-speed manual, or the 350ci B2L V8 with automatic transmission. When ordered with air conditioning, RPO G92 (\$466) included engine oil cooler, 4-wheel disc brakes (except for a brief period when 4-wheel discs were deleted with a \$287 credit), and dual-converter exhaust. When ordered without air conditioning, RPO G92 (\$675) added heavy-duty front brakes, aluminum driveshaft and spare wheel, special shocks and fuel pickup, and gas tank baffle. Fog lamps were deleted for weight savings and improved cooling.

• A "tight spine clutch" for RS models with reduced gear rattle between the 5-speed transmission's input shaft and the clutch hub.

• The Special Service Package (RPO B4C) for 1991 created a Z28 in RS clothing. Referred to as the "police" package, it was similar in content to an RPO G92 with air conditioning as it included the same engine choices, dual-converter exhaust, 16-inch wheels, 4-wheel discs, engine oil cooler, 145-mph speedometer and special suspension. But B4C was restricted to RS Coupes. Options were somewhat limited. For example, the RPO UM7 radio was included and could be deleted for credit, but other radios couldn't be ordered. All interiors, including leather, were available.

## 1991 FACTORY OPTIONS

RPO	Description	Qty	Retail
1FP87	Camaro RS Coupe, 6-cylinder	79,854	12,180.00
1FP87	Camaro RS Convertible, 8-cylinder	5,329	17,960.00
1FP87	Camaro Z28 Coupe, 8-cylinder	12,452	15,445.00
1FP87	Camaro Z28 Convertible, 8-cylinder	3,203	20,815.00
1FP87	Camaro Z28 Coupe, 8-cylinder	478	*
1LE	Special Performance Components Package	11,325	*
AG9	Power Seat, driver side	66,830	175.00
AU3	Power Door Locks	65,179	*
A31	Power Windows	66,251	50.00
A90	Power Hatch Release	6,080	300.00
B2L	Engine, 350ci, 245hp V8 (Z28 coupe only)	592	3,135.00
B4C	Special Service Package (\$3,950 with RPO B2L)	94,792	*
B34	Floor Mats, carpet insert, two front	94,792	*
B35	Floor Mats, carpet insert, two rear	95,236	*
B84	Moldings, body side	38,836	866.00
C11	Roof Panels, removable glass	57,202	160.00
C49	Defogger, rear window	97,433	805.00
C60	Air Conditioning	57,035	*
DC4	Mirror with Dual Reading Lamps	4,892	210.00
DE1	Louvers, rear window	26,390	91.00
DE7	Mirrors, electric twin remote	57,452	*
D42	Cover, rear compartment cargo area	16,333	100.00
G80	Rear Axle, limited slip	6,813	466.00
G92	Rear Axle, performance (Z28 coupe only)	4,938	179.00
J65	Brakes, power front disc and rear disc	7,234	110.00
KC4	Cooler, engine oil (Z28 coupe only)	3,321	20.00
K05	Heater, engine block	65,145	*
K34	Speed Control, with resume	9,996	nc
LB9	Engine, 305ci, 205hp (base with Z28)	53,040	350.00
L03	Engine, 305ci, 170hp (for RS Coupe)	85,321	515.00
MX0	Transmission, automatic with overdrive	53,249	520.00
N96	Aluminum Wheels, 16 inch	11,651	*
Q1C	Tires, P245/50ZR16 blackwall	41,598	*
QMT	Tires, P285/55R16 blackwall	47,589	*
QPH	Tires, P235/65R15 all season blackwall		



## 1991 FACTORY OPTIONS cont...

RPO Description	Qty	Retail
U5 Radio, delete	796	-165.00
UM7 Radio, stereo, clock, seek/scan	3,622	*
UN6 Radio, stereo, cassette, clock, seek/scan	86,516	*
UN8 Radio, stereo, Delco Bose, clock, seek/scan	103	*
UX1 Radio, stereo, cassette, clock, s/s equalizer	1,593	*
U1C Radio, compact disc system with clock	8,208	*
U75 Power Antenna	1,603	70.00
U75 Emission Equipment, required for California	14,374	100.00
FCAB RS Coupe Base Group	nc	1,060.00
FCA1 RS Coupe Group 1	1,847.00	1,847.00
FCA2 RS Coupe Group 2	nc	nc
CCAB RS Convertible Base Group	1,060.00	1,060.00
CCA1 RS Convertible Group 1	1,705.00	1,705.00
CCA2 RS Convertible Group 2	nc	nc
FZAB Z28 Coupe Base Group	900.00	900.00
FZAB Z28 Coupe Group 1	1,847.00	1,847.00
FZAB Z28 Coupe Group 2	2,228.00	2,228.00
FZAB Z28 Coupe Group 3	nc	nc
FZAB Z28 Coupe Group 4	900.00	900.00
FZAB Z28 Coupe Group 5	1,660.00	1,660.00
FZAB Z28 Coupe Group 6	2,021.00	2,021.00
FZAB Z28 Coupe Group 7	nc	nc
FZAB Z28 Coupe Group 8	nc	nc
FZAB Z28 Coupe Group 9	nc	nc
FZAB Z28 Coupe Group 10	nc	nc
FZAB Z28 Coupe Group 11	nc	nc
FZAB Z28 Coupe Group 12	nc	nc
FZAB Z28 Coupe Group 13	nc	nc
FZAB Z28 Coupe Group 14	nc	nc
FZAB Z28 Coupe Group 15	nc	nc
FZAB Z28 Coupe Group 16	nc	nc
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FZAB Z28 Coupe Group 94	nc	nc
FZAB Z28 Coupe Group 95	nc	nc
FZAB Z28 Coupe Group 96	nc	nc
FZAB Z28 Coupe Group 97	nc	nc
FZAB Z28 Coupe Group 98	nc	nc
FZAB Z28 Coupe Group 99	nc	nc
FZAB Z28 Coupe Group 100	nc	nc

\* Indicates option was generally sold as part of an option package. However, packages were priced with several radio choices, and rental car, fleet and other types of sales permitted variations from specified package content. Many combinations of options were possible. All quantities shown were total units installed.

Prices shown were introductory retail including delivery and handling. They didn't include transportation, or state and local taxes.

Cloth high-back bucket seats were included in all models at no charge. Custom Interior, including deluxe cloth seats with adjustable headrests, cost \$327.00 with all models. Custom Interior, including leather seats with adjustable headrests, cost \$800.00 with all models.

Early, the base V6 for RS Coupe models was 191ci, 140hp and the base V8 for RS Convertible was 305ci, 170hp. The V6 could be ordered with RS Convertible for credit. During the year, V6 became standard for both RS models. The base V8 for Z28 Coupe and Convertible was 305ci, 205hp.

RPO B2L (350ci engine) was available only with Z28 Coupe (and RS coupe with B4C) and automatic transmission. RPO B2L engines had dual catalytic converter exhaust systems and 245hp.

RPO B4C (special service package) combined Z28 features with an RS Coupe. Intended for police use, B4C had dual-converter exhaust, 16-inch wheels, 245/50ZR16 blackwall tires, 4-wheel disc brakes, engine oil cooler, 105-amp alternator, 145-mph speedometer, air conditioning, rear compartment shade, 630 cold-crank-amp battery, special suspension and limited slip rear axle. The package included the base UM7 radio which could be deleted for credit, but other radios couldn't be ordered. Other options available included RPOs AU3, A31, B34, B35, B84, C49, DG7, D27, K05 and K34. All interiors, including leather, were available.

RPO CCL (removable roof panels) not available with RPO G92 performance axle, or with Z28 Coupe with 5-speed manual transmission.

RPO C60 (air conditioning) included increased cooling.  
RPO G92 (performance rear axle ratio) required RPO LB9 engine with 5-speed manual transmission, or RPO B2L engine with automatic transmission. Available only with Z28 coupe. Included dual-converter

## 1991 FACTORY OPTIONS cont...

exhaust, 4-wheel disc brakes, and engine oil cooler. Cost without air conditioning (RPO 11E) was \$675.00 and also included special heavy-duty front brakes, aluminum driveshaft and spare wheel, special shocks and fuel pump, pickup, and fuel tank baffle. Fog lamps were deleted.

RPO LB9 (305ci engine) was standard with Z28 Coupe and Z28 Convertible, and not optional with RS models. Power rating was 205hp, unless ordered with RPO C92. This required 5-speed manual and included dual catalytic-converter exhaust and engine oil cooler with power at 230hp.

RPO N96 (16-inch aluminum wheels) no cost with Z28 models. Included wheel locks and RPO QMT 235/55R16 blackwall tires with Z28 Coupe, RPO QLC 245/50ZR16 blackwall tires with Z28 Convertible. Available at \$520.00 with RS models (with RPO QMT tires only).

RPO QPH (all season tires) included with RS Coupe and RS Convertible. RPO UL5 (radio delete) was available with base groups and B4C only. RPO UM7 (AM-FM stereo with seek/scan and clock) was no cost with all base option packages.

RPO UM8 (Delco-Bose stereo) was not available with convertibles. Availability was restricted during the year. RPO UX1 (AM-FM stereo with equalizer) was generally not available according to option listings, but records show 1,593 were sold.

FCAB had RPO UM7 radio. FCA1 had B34, B35, B84, C60 and UN6. FCA2 had same as FCA1 plus AU3, A31, A90, DC4, D42 and K34. FCA3 had RPO UM7 radio. CCA1 had B34, B35, B84, C60, K34 and UN6. CCA2 had same as CCA1 plus AU3, A31 and K34.

FZAB had RPO N96, QMT and UM7. FZA1 had B34, B35, B84, C60 and UM7. FZA2 had AU3, A31, A90, B34, B35, B84, DC4, D42, K34 and UN6. FZA3 was same as FZA2 plus AG9 and DG7.

CZAB had RPO N96 and UM7. CZA1 had B34, B35, B84, C60, DC4, N96, and UM7. CZA2 had same as CZA1 plus AU3, A31, K34 and UN6, less UM7. CZA3 had same as CZA2 plus AG9 and DG7.

## 1991 COLORS

Code	Exterior	Qty	Models	Interiors
10	Arctic White	18,313	Rs-Rsc-Z-Zc	Bk-Br-G-R
23	Light Blue	3,873	Rs-Rsc	Bk-G
37	Dark Teal	22,093	Rs-Rsc-Z-Zc	Bk-G
41	Black	12,801	Rs-Rsc-Z-Zc	Bk-Br-G-R
75	Dark Red	9,784	Rs-Rsc-Z-Zc	Bk-Br-G-R
81	Bright Red	19,082	Rs-Rsc-Z-Zc	Bk-G-R
87	Medium Gray	3,715	Rs-Rsc	Bk-G-R
98	Ultra Blue	11,038	Rs-Rsc-Z-Zc	Bk-Br-G

Chevrolet specified the interior-exterior combinations shown above to be the only ones available.

All convertible tops were black. Leather-trimmed seats were available in all colors except black. The 1991-style leather seats covered full seating area.

Code 10 Arctic White exterior color replaced 1990's code 40 and was a new hue. Ultra Blue was the same as 1990's Bright Blue. Code 37 Dark Teal was a new color for 1991.

Interior Codes: 19B=Bk-sc, 19C=Bk-cc, 66B=Br-sc, 66C=Br-cc, 66Z=Br-le, 73B=R-sc, 73C=R-cc, 73Z=R-le, 82B=G-sc, 82C=G-cc, 82Z=G-le

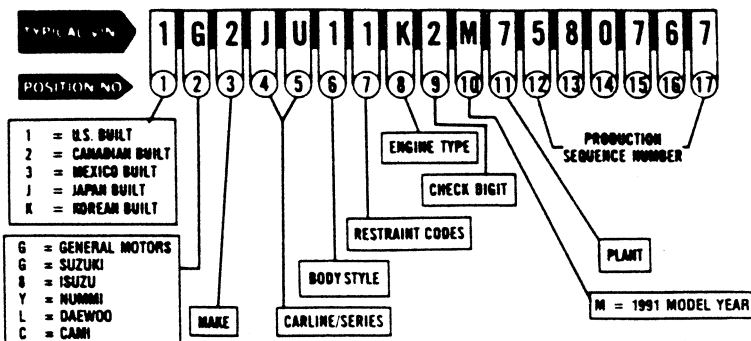
Abbreviations: Bk=Black, Br=Light Brown, cc=custom cloth, G=Gray, le=leather, R=Red, Rs=RS Coupe, Rsc=RS Convertible, sc=standard cloth, Z=Z28 Coupe, Zc=Z28 Convertible.





Customer  
Sales & Service

## 1991 PASSENGER CAR VIN SYSTEM



### 3 MAKE

1 - CHEVROLET	4 - BUICK	6 - CADILLAC
2 - PONTIAC	5 - PONTIAC	7 - GM OF CANADA
3 - OLDSMOBILE	INCOMPLETE	8 - SATURN

### 4-5 CARLINE/SERIES

<b>CHEVROLET</b>	<b>NK</b> - CUTLASS CALAIS
BL - CAPRICE	INTERNATIONAL SERIES
BN - CAPRICE CLASSIC	NL - CUTLASS CALAIS
FP - CAMARO SPORT	NT - CUTLASS CALAIS SL
JF - CAVALIER & CONV	WM - CUTLASS SUPREME
JL - CAVALIER Z24	WR - CUTLASS SUPREME
LT - CORSICA LT	INTERNATIONAL SERIES
LV - BERETTA	WS - CUTLASS SUPREME SL
LW - BERETTA GT	WT - CUTLASS SUPREME
LZ - BERETTA GTZ	CONV
MR - GEO METRO	<b>BUICK</b>
MS - METRO LSI & CONV	AH - CENTURY CUSTOM
MT - GEO METRO XF	AL - CENTURY LIMITED
RF - SPRINT	BB - COACHBUILDER WAGON
RT - GEO STORM	BR - ROADMASTER
SK - (Series 15 & 77)	CU - PARK AVENUE-ULTRA
SL - GEO PRIZM	CW - PARK AVENUE
WL - LUMINA	EC - REATTA
WN - LUMINA EURO	EZ - RIVIERA
WP - LUMINA Z34	HP - LE SABRE CUSTOM
YY - CORVETTE	HR - LE SABRE LIMITED
YZ - CORVETTE ZR1	NC - SKYLARK CUSTOM (4-DR)
	ND - SKYLARK LUXURY (4-DR)
	NJ - SKYLARK CUSTOM (2-DR)
	NM - SKYLARK GRAND
<b>PONTIAC</b>	SPORT (2-DR)
AF - 6000 LE	NV - SKYLARK
AJ - 6000 SE	WB - REGAL CUSTOM
FS - FIREBIRD	WD - REGAL LIMITED
FW - FIREBIRD TRANS AM	<b>CADILLAC</b>
HX - BONNEVILLE LE	CB - FLEETWOOD
HY - BONNEVILLE SSE	CD - DEVILLE
HZ - BONNEVILLE SE	CG - FLEETWOOD SIXTY
JB - SUNBIRD LE	SPECIAL
JC - SUNBIRD	CZ - COMMERCIAL CHASSIS
JD - SUNBIRD SE	DW - BROUGHAM
JU - SUNBIRD GT	EL - ELDOORADO
MR - FIREFLY	KS - SEVILLE
NG - GRAND AM	KY - SEVILLE TOURING SEDAN
NE - GRAND AM LE	VR - ALLANTE
NW - GRAND AM SE	(CONV. HARDTOP)
TH - LEMANS LE	VS - ALLANTE (CONV.)
TX - LEMANS AERO COUPE	<b>GM OF CANADA</b>
WH - GRAND PRIX LE	LT - TEMPEST
WJ - GRAND PRIX SE	MR - FIREFLY LE TURBO
WP - GRAND PRIX GT	NT - FIREFLY
WT - GRAND PRIX STE	RT - STYLUS (4-DR)
<b>OLDSMOBILE</b>	RT - IMPULSE (2-DR)
AJ - CUTLASS CIERA S &	TM - OPTIMA LS
CUTLASS CRUISER S	TS - OPTIMA GS
WAGON	TX - OPTIMA
AL - CUTLASS CIERA	<b>SATURN</b>
AM - CUTLASS CIERA SL &	ZB - SC (2-DR)
CUTLASS CRUISER SL	SL1 (4-DR)
WAGON	ZD - SL2
BP - CUSTOM CRUISER	ZF - SL1
WAGON	ZG - SC (2-DR)
CW - TOURING SEDAN	SL1 (4-DR)
NINETY EIGHT	ZH - SC (2-DR)
REGENCY ELITE	SL1 (4-DR)
EV - TORONADO TROFEO	SL2
EZ - TORONADO	SL2
HN - EIGHTY EIGHT ROYALE	ZJ - SL2
NY - EIGHTY EIGHT ROYALE	ZK - SL2
BROUGHAM	
NF - CUTLASS CALAIS S	

### 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)
8	FOUR-DOOR STATION WAGON (GM STYLE 35)

### 7 RESTRAINT CODES

1	ACTIVE (MANUAL) BELTS
3	ACTIVE (MANUAL) BELTS W DRIVER INFLATABLE RESTRAINT SYSTEM
4	PASSIVE (AUTOMATIC) BELTS

### 8 ENGINE TYPE

CODE	ENG. OPT.	DISP.	CYL.	FUEL SYSTEM	DIV. USAGE	PROD. IN*
A	LG0	2.3L	L4	FI	1,2,3	U
B	L26	4.9L	V8	FI	6	U
C	LN3	3.8L	V6	FI	2,3,4	U
D	LD2	2.3L	L4	FI	2,3,4	U
E	LO3	5.0L	V8	FI	1,2,3,4,6	U,C
F	LB9	5.0L	V8	FI	1,2	U
G	LM3	2.2L	L4	FI	1	U
J	LT5	5.7L	V8	FI	1	U
K	LT2	2.0L	L4	FI	2,7	B
L	L27	3.8L	V6	FI	3,4	U
M	LG7	3.3L	V6	FI	3,4	U
R	LR8	2.5L	L4	FI	1,2,3,4	U
T	LH0	3.1L	V6	FI	1,2,3,4	M,C
U	L68	2.5L	L4	FI	2,3,4	U
X	LQ1	3.4L	V6	FI	1,2,3	U
Z	LS3	1.0L	L3	FI	7	J
5	LW0	1.6L	L4	FI	1,7	J
6	L73	1.6L	L4	FI	2,7	K
6	LP2	1.0L	L3	FI	1,7	J
6	LO1	1.6L	L4	FI	1,7	J
7	LO5	1.9L	L4	FI	8	U
7	LL0	5.7L	V8	FI	1,6	U,C
8	LO6	4.5L	V8	FI	6	U
8	L98	5.7L	V8	FI	1,2	U
8	LV4	1.6L	L4	FI	7	J
9	LK0	1.9L	L4	FI	8	U

#### \*LEGEND

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

### 11 PLANT

A LAKEWOOD	GA	F FLINT (T&B)	MR	U HAMTRAMCK	MR	8 PONTIAC (T&B)	MR	5 BOWLING GREEN	KY
B LANSING (GM33)	MI	H FLINT	MI	V PONTIAC (T&B)	MI	1 WENTZVILLE	MO	6 INDIANAPOLIS	IN
B BALTIMORE (T&B)	MD	J JAMESVILLE (T&B)	WI	W WILLOW RUN	MI	1 OSHAWA #2	ON	6 OKLAHOMA CITY	OK
B PURDY	KR	J JAMESVILLE	WI	W WYATTA	JAP	2 MORRIS (T&B)	ON	7 LORDSTOWN	OH
C LANSING	MI	K KOSAI	JAP	Y WILMINGTON	DE	2 STE THERESA	PO	7 LORDSTOWN (T&B)	OH
D DORAVILLE	GA	L VAN NUYS	CA	Z FREMONT	CA	3 DETROIT (T&B)	MI	7 FLUJISAWA	JAP
E LINDEN	NJ	M LANSING (A)	MI	Z SPRING HILL	TN	3 KAWASAKI	JAP	8 SHREVEPORT (T&B)	LA
E PONTIAC (T&B)	MI	R ARLINGTON	TX			4 ORION	MI	9 OSHAWA #1	ON
F FAIRFAX II	KS	S RAMOS ARIZPE	MEX			4 SCARBOROUGH	ON		
		T TARRYTOWN (T&B)	NY						

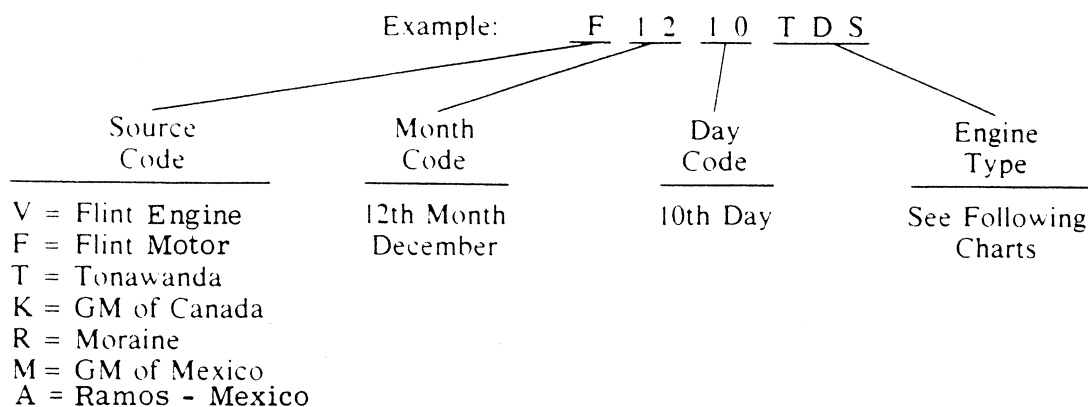
The information shown is correct at time of printing but may be changed during model year



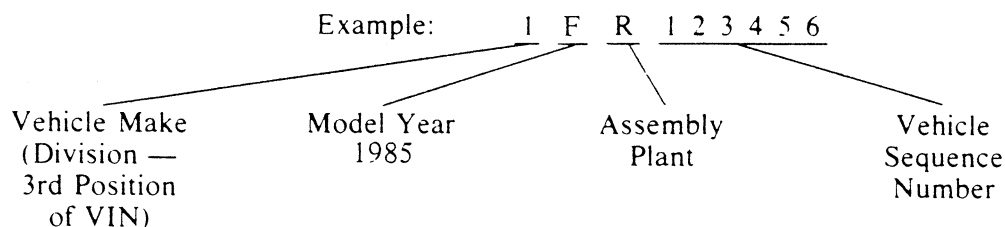
# ENGINE ASSEMBLY IDENTIFICATION

## 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.)

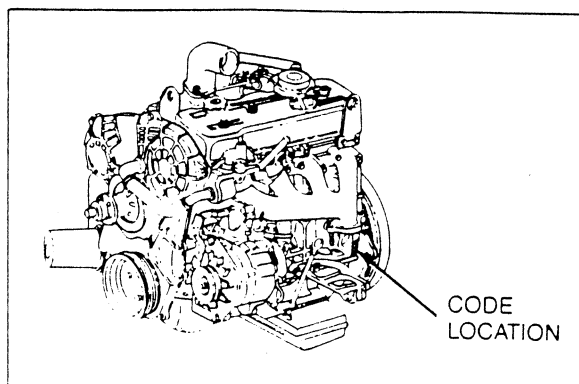
- Q — Detroit (Not used in 1980)
- R — Arlington
- S — St. Louis
- S — Ramos Arizpe
- T — Tarrytown
- U — Hamtramck
- V — Pontiac (GMC)
- W — Willow Run
- X — Fairfax
- Y — Wilmington
- Z — Fremont
- 1 — Wentzville
- 1 — Oshawa #2
- 2 — Moraine (T&B)
- 2 — St. Therese
- 3 — Detroit (T&B)
- 3 — St. Eustache
- 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





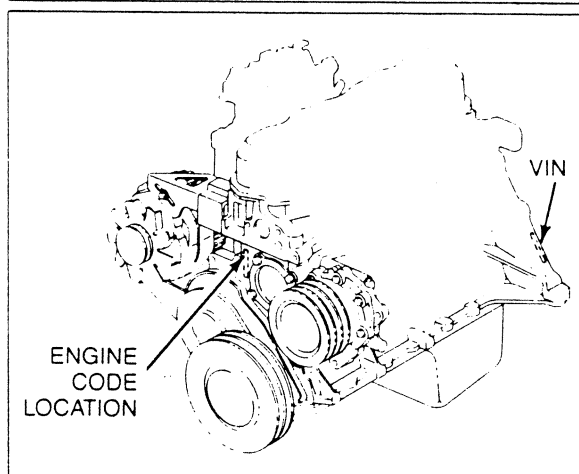
### 1.8 AND 2.2 LITER DIESEL L-4 — ISUZU

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

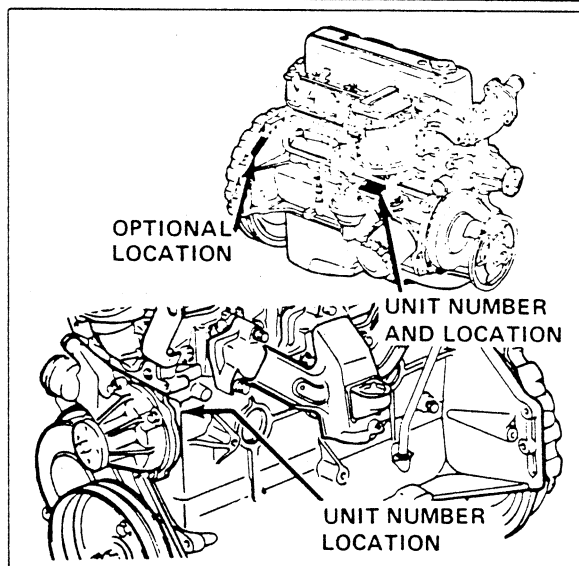
Since 1981, the code is on a sticker, placed on the timing gear cover. It is also stamped on the cylinder case, by the water pump, just below the head.



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.

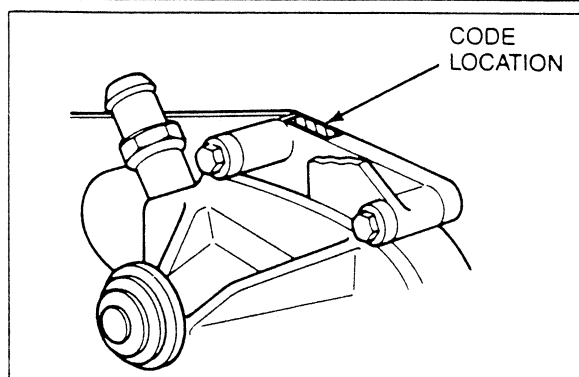


### 2.8 LITER GASOLINE 60° V-6 — CHEVROLET

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

OR

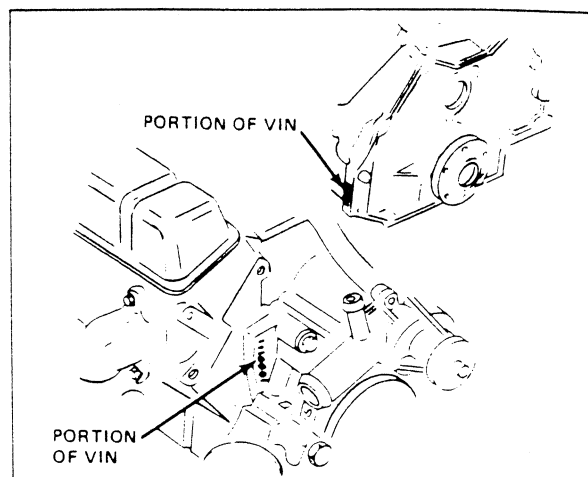
on a machined horizontal pad on the right forward side of the cylinder case just below the cylinder deck.





### 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.

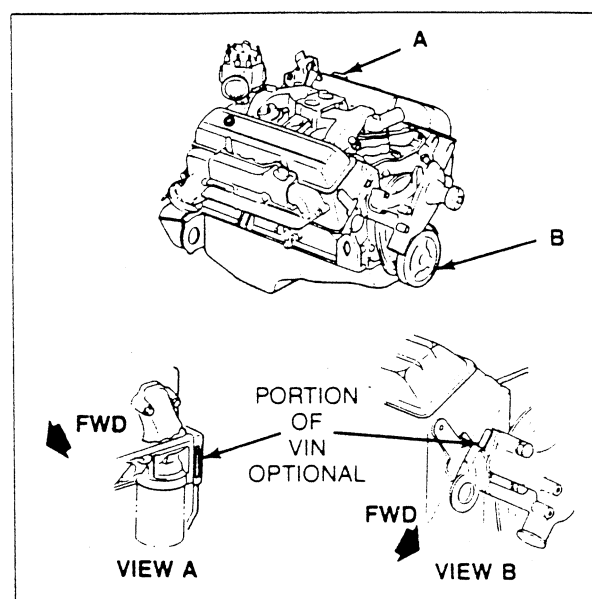


### 3.3, 3.8, 4.3, 4.4, 5.0, 5.7 AND 6.6 LITER GASOLINE 90° V-BLOCK — CHEVROLET

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.

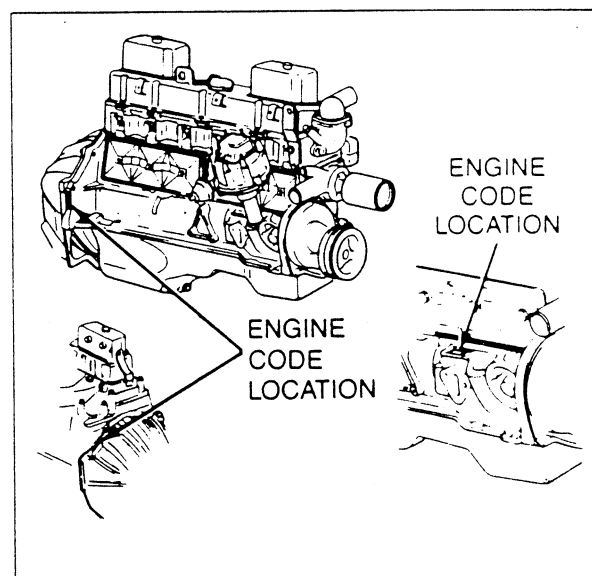


### 4.1 AND 4.8 LITER GASOLINE L-6 — CHEVROLET

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)

1991

3.1(189) - LHO  
VIN T  
CFD CDC CFA

5.0(305) - LO3  
VIN E  
CLC CLD  
  
5.7(350) - L98  
VIN 8  
CMB CMP

5.0(305) - LB9  
VIN F  
CLF CLH CLJ  
CLW

## ENGINE AND TRANSMISSION USAGE (CON'T)

1991 - 92

VIN CODE	CUBIC DISP	LITER TYPE	ENGINE TYPE	TYPE TYPE	ENGINE OPT.	SERIES USAGE	TRANSMISSION USAGE
B	350	5.7	V8	FI	L98	F	MD8
F	305	5.0	V8	FI	LB9	F	MD8, MK6, M39
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

## 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

1991

M39 - 5 SPD MAN.  
DKB

MD8 - 4 SPD A.T.  
THM700R4  
1FBM 1FTM 1FZM 1FUM

MB1 - 5 SPD MAN  
DKC

MK6 - 5 SPD MAN.  
DKA

## TRANSMISSION IDENTIFICATION

### ASSEMBLY CODE TO TRANSMISSION (CONT'D)

1991

1FBM - MD8  
DKB - M39

1FTM - MD8  
DKC - MB1

1FZM - MD8

1FUM - MD8

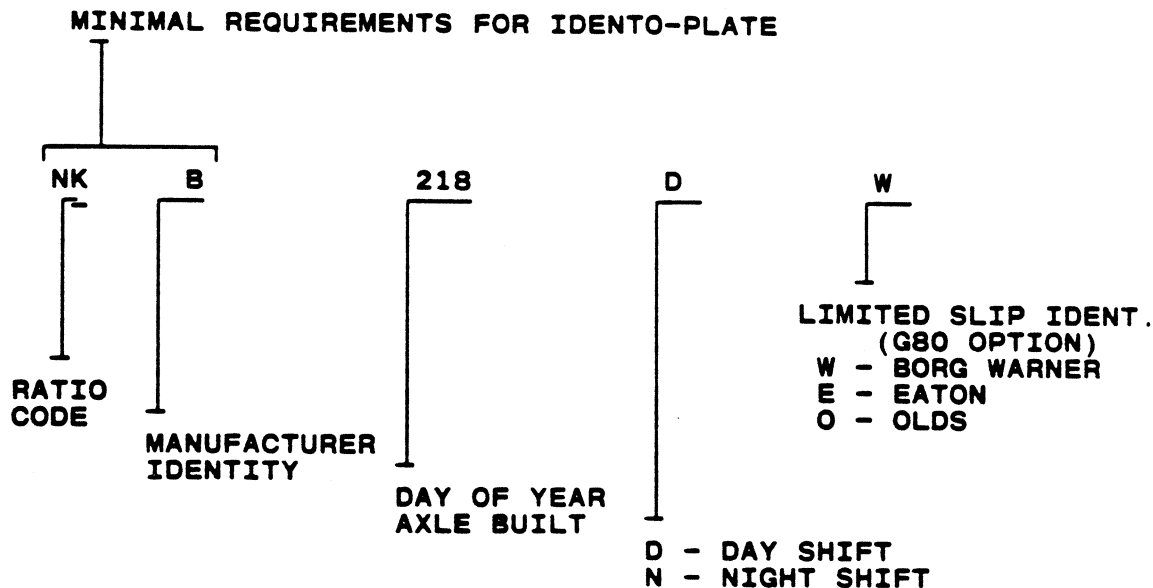
DKA - MK6



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

## AXLE IDENTIFICATION CODES (CONT'D)

(\*INDICATES POSITRACTION)

1991

2.73 RATIO CODE	GU2 OPTION RING GEAR
8HP	7.625
8HT*	7.625
8HE*	7.625
6HT*	7.625
6HP	7.625

3.08 RATIO CODE	GU4 OPTION RING GEAR
8HF*	7.625
8HK	7.625
8HB*	7.625
6HB*	7.625
6HF*	7.625
6HK	7.625

3.23 RATIO CODE	GU5 OPTION RING GEAR
2PM*	7.625
8HJ	7.625
4PM*	7.625
4HW*	7.625
4HM*	7.625
6PM*	7.625
6HW*	7.625
6HM*	7.625
7PM*	7.625
6HJ	7.625

3.27 RATIO CODE	GW6 OPTION RING GEAR
9QE*	7.75

3.42 RATIO CODE	GU6 OPTION RING GEAR
2PN*	7.625
8HL	7.625
4PN*	7.625
4HX*	7.625
6PN*	7.625
6HX*	7.625
7PN*	7.625
6HL	7.625

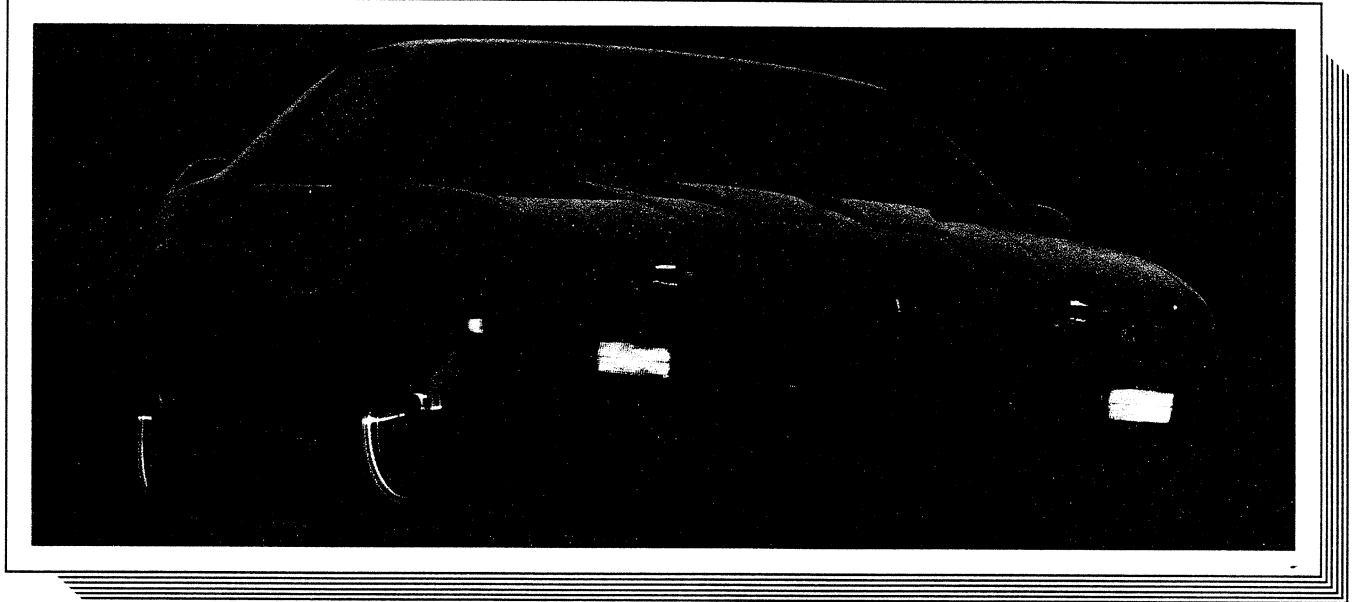




# '91 CAMARO

CAMARO	MODEL NUMBER	PASSENGER CAPACITY
RS Coupe	1FP87	All Models 2+2
RS Convertible	1FP67	
Z28 Coupe	1FP87	
Z28 Convertible	1FP67	

Camaro Z28.



## HIGHLIGHTS

- 1991 Camaro model line includes RS Coupe, RS Convertible, Z28 Coupe and Z28 Convertible.
- Exterior appearance features include new rocker area moldings, front fascia extension and under-glass center high-mounted stop lamp.
- Standard RS Coupe engine is the 3.1 Liter V6 with Multi-Port Fuel Injection (MPI). 5.0 Liter V8 with Electronic Fuel Injection (EFI) is standard for RS Convertible, optional RS Coupe. A 5.0 Liter V8 with TPI (Tuned-Port Fuel Injection) is standard for Z28 models with a 5.7 Liter TPI V8 optional for Z28 Coupe.
- RS spoked aluminum wheels are painted in body colors (Silver, White, Teal Blue or Red—availability keyed to exterior color) non-painted avail.
- P215/65R-15 Touring tires on RS models combine performance tire characteristics with smooth, quiet ride qualities.
- New 16" x 8" aluminum wheels with P235/55R-16 performance tires are standard on Z28 Coupe and optional on RS models.
- Standard equipment includes tinted glass, intermittent wipers, Comfortilt steering wheel, auxiliary lighting and halogen headlamps.
- Instrument cluster with yellow graphics for instrumentation and controls features tachometer and full gauges.

## EQUIPMENT AVAILABILITY

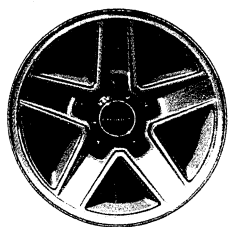
	Camaro RS Coupe	Camaro RS Convertible	Camaro Z28 Coupe	Camaro Z28 Convertible
Body-color lower aero panels and facias	S	S	S	S
Halogen headlamps	S	S	S	S
Body-color dual sport mirrors (LH remote)	S	S	S	S
Black grille	S	S	NA	NA
Halogen fog lamps in grille opening	NA	NA	S	S
Hood power dome	NA	NA	S	S
Body-side moldings (body color)	O	O	O	O
Tinted glass	S	S	S	S
Power automatic hatch glass latch closure	S	NA	S	NA
Rear-deck spoiler	S	S	S	S
Comfortilt steering wheel	S	S	S	S
Base-coat/clear-coat paint	S	S	S	S
Scotchgard™ Fabric Protector	S	S	S	S
Leather-wrapped steering wheel	NA	NA	S	S
Integral center console	S	S	S	S
Full floor console with hidden stowage compartment	S	S	S	S
PASS-Key® anti-theft ignition system	S	S	S	S
AM/FM stereo radio with seek-scan, digital clock and ERS™	S*	S*	S*	S*
Driver's-side Supplemental Inflatable Restraint system	S	S	S	S
Color-keyed safety belt system with front and rear shoulder belts	S	S	S	S
Full floor carpeting	S	S	S	S
15" spoked aluminum wheels with body-color accents	S	S	NA	NA
16" aluminum wheels	O	O	S	S
All-season steel-belted P215/65R-15 Touring tires	S	S	NA	NA
All-season steel-belted P235/55R-16 performance tires	O	O	S	O
All-season steel-belted P245/50ZR-16 performance tires	NA	NA	O	S

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

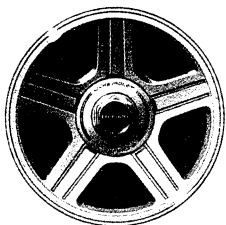
Refer to Passenger Car Order Guide for option availability and application.

## ORDERING INFORMATION

## WHEEL TRIM

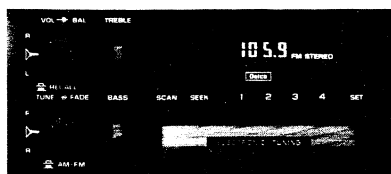


Camaro RS standard 15" x 7" aluminum wheel. Color-keyed paint finish in Silver, White, Teal or Red.



Camaro Z28 standard, RS optional 16" x 8" aluminum wheel. Color-keyed paint finish in Silver, Red or White.

## RADIOS



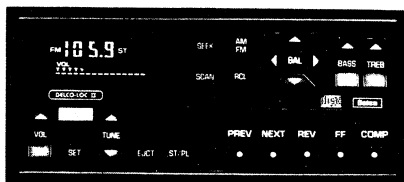
Standard\* electronically tuned AM/FM stereo with seek-scan, digital clock and Extended Range Sound System.



Optional electronically tuned AM/FM stereo with seek-scan, stereo cassette tape player with auto reverse music search, digital clock and ERS (RPO UN6).



Optional (Coupe only) Delco/Bose Gold Series Music System: Electronically tuned AM/FM stereo with seek-scan, stereo cassette tape player with auto reverse music search, digital clock and Bose speaker system (RPO UU8).



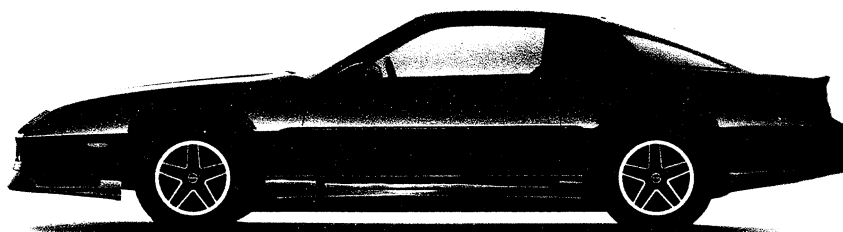
Optional electronically tuned AM/FM stereo radio with seek-scan, compact disc player, digital clock and ERS. (RPO UTC).

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

## VALUE FEATURES

Camaro models include many standard features that enhance operation, safety and convenience. For 1991, these include:

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



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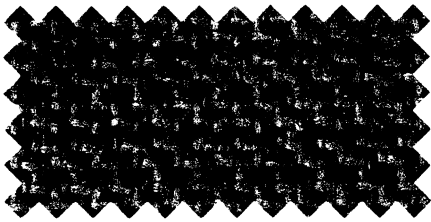
All illustrations and specifications in this brochure are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time, without notice, in colors, materials, specifications and models, and also to discontinue models.



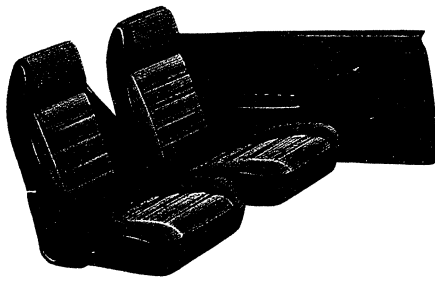
Refer to Passenger Car Order Guide for option availability and application.

## SEAT TYPES & COLORS

### CAMARO RS AND Z28 STANDARD CLOTH SEAT TRIM

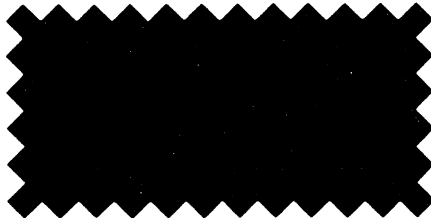


Standard cloth seat trim available in Black, Light Brown, Gray or Red.

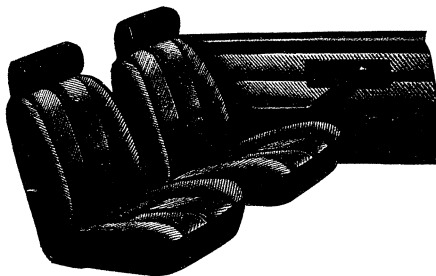


Standard cloth reclining bucket seats with integral head restraints.

### CAMARO RS AND Z28 OPTIONAL CUSTOM CLOTH SEAT TRIM

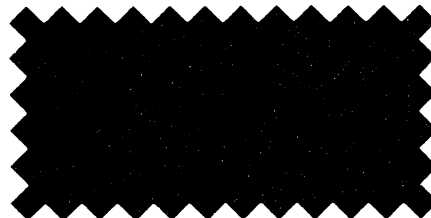


Optional Custom Cloth seat trim available in Black, Light Brown, Gray or Red.

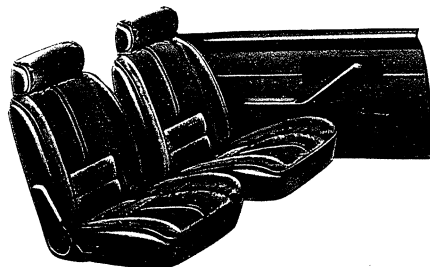


Optional Custom Cloth reclining bucket seats with adjustable head restraints and split-folding rear seat.

### CAMARO RS AND Z28 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 and split-folding rear seat.

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

DE:  
Air  
Bo  
Ca  
Ele  
Po  
Po  
AM  
Re  
Ins  
Po  
Tw  
Pc  
IN  
Ti  
P2  
P2  
T6  
Ch  
An  
El  
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# PREFERRED EQUIPMENT GROUPS

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

DESCRIPTION	CAMARO RS COUPE		CAMARO Z28 COUPE			CAMARO RS CONVERTIBLE		CAMARO Z28 CONVERTIBLE		
	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. 1	P.E.G. 2	P.E.G. 3
Air Conditioning	X	X	X	X	X	X	X	X	X	X
Body-Side Moldings	X	X	X	X	X	X	X	X	X	X
Carpeted Floor Mats, Front/Rear, Color-Keyed	X	X	X	X	X	X	X	X	X	X
Electronic Speed Control with Resume Speed		X		X	X		X		X	X
Power Windows		X		X	X		X		X	X
Power Door Lock System		X		X	X	O	X		X	X
AM/FM Stereo with Seek-Scan Cassette, Digital Clock and ERS	X*	X*	O	X*	X*	X*	X*		X	X
Rear Compartment Cover		X		X	X					
Inside Rearview Mirror with Dual Reading Lamps		X		X	X	STD.	STD.	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

P235/55R-16 Black-lettered Radials (Reqs. Aluminum Wheels)	O†	O†	STD.	STD.	STD.	O†	O†	O	O	O
P245/50ZR-16 Black-lettered Radials			O	O	O			STD.	STD.	STD.
16" Aluminum Wheels (Reqs. P235/55R-16 Tires)	O†	O†	STD.	STD.	STD.	O†	O†	STD.	STD.	STD.

### 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

AM/FM Stereo with Seek-Scan, Cassette, Digital Clock and ERS	X	X	O	X	X	X**	X	O	X	X
AM/FM Stereo with Seek-Scan, Compact Digital Disc Player, Digital Clock and ERS	O	O	O	O	O	O	O	O	O	O
Bose® Music System (requires Air Conditioning)	O	O	O	O	O					

Radio Delete

Available only with Base Vehicle Groups

### Additional Individual Options

Power Door Lock System	O	X	O	X	X	O	X	O	X	
Front License Plate Bracket	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†					
Twin Remote Electric Sport Mirrors	O	O		O	X		O		O	
Performance Ratio Axle—w/Air Conditioning***			O	O	O					
Power Hatch Release	O	X		X	X					

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. \*\*Also available as an Individual Option with Base Vehicle Group.

\*\*\*Requires LB9 5.0L V8 with 5-speed manual transmission or B2L 5.7L V8, includes 4-wheel disc brakes, engine oil cooler and performance exhaust system.

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

# CHEVROLET SPECIFICATIONS --1991 CAMARO

## MODELS

## PASSENGERS

Camaro Z28 Coupe (1FP87) .....	4
Camaro Z28 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 ENGINE

RS Coupe and Convertible - RPO LH0, 3.1 Liter  
(191 cu. in.) V6 with Multi-Port Fuel Injection (MFI)  
Z28 Coupe and Convertible Models - RPO LB9,  
5.0 Liter (305 cu. in.) V8 with Tuned-Port Fuel  
Injection (TPI)

### OPTIONAL ENGINES

RS Coupe and Convertible - RPO L03,  
5.0 Liter (305 cu. in.) V8 with Electronic Fuel  
Injection (EFI)  
Z28 Coupe - 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  
Driver's 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  
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

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# CAMARO Z28 COUPE

## 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	Silver	x	x	x	x
Blue, Ultra (Met)	98	98	Silver	x	x	x	
Red, Bright	81	81	#Red	x	x	x	x
Red, Dk (Met)	75	75	Silver	x	x	x	x
White, Arctic	10	10	#White	x	x	x	x

# Silver Wheel may be specified by ordering RPO 17P

## POWER TEAMS

ENGINE OPTION CONDITION		AXLE RATIO			
		2.73	3.08	3.23	3.42
WITH NA5 STANDARD EMISSIONS					
LB9 MM5	----	Std	----	G92	
MX0	Std	----	----	----	
B2L MX0	----	----	G92	----	
WITH YF5 CALIFORNIA EMISSIONS					
LB9 MM5	----	Std	----	G92	
MX0	Std	----	----	----	
B2L MX0	----	----	G92	----	

15,935.00 **Model 1FP87**

## PREFERRED VEHICLE

MUST ORDER ONE GROUP – NO DELETIONS ALLOWED

		FZA1	FZA2	FZA3
925.00	<b>Preferred Equipment Group 1</b>			
	Air Conditioning	x	x	x
	Floor Covering: Carpeted Mats, Color-Keyed Front and Rear	x	x	x
	Moldings, Body Side	x	x	x
1,937.00	<b>Preferred Equipment Group 2</b>			
	Cover, Rear Compartment		x	x
	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape with Search and Repeat and Digital Clock w/Extended Range Sound System		x	x
	Mirror w/Dual Reading Lamps		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
2,333.00	<b>Preferred Equipment Group 3</b>			
	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, 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 and Limited Slip Rear Axle).

## REGIONALIZED OPTIONS

ADDITIONAL OPTIONS MAY BE ORDERED FROM THIS LISTING ONLY

N.C.	<b>ENGINE (Must Order One)</b>	V.P.S.	U1C	Electronically Tuned AM/FM Stereo
300.00	LB9 5.0 Liter TPI V8 (Base)			Radio w/Seek-Scan, Compact Disc Player
	B2L 5.7 Liter TPI V8 (Reqs MX0 Trans, G92 Axle and QLC Tires)			and Digital Clock w/Extended Range Sound System
N.C.	<b>TRANSMISSION (Must Order One)</b>	V.P.S.	UL5	Radio Delete (Reqs Group FZAB)
530.00	MM5 5-Speed Manual (N/A B2L Eng) (Base)	N.C.	C**2	<b>INTERIOR TRIM</b>
	MX0 4-Speed Automatic	327.00	F**2	Cloth Bucket
N.C.	<b>EMISSION (Must Order One)</b>	850.00	A**2	Custom Cloth Bucket
100.00	NA5 Standard Emissions			Custom Leather Bucket
	YF5 California Emissions			<b>ADDITIONAL OPTIONS</b>
N.C.	<b>TIRES (Must Choose One)</b>	287.00	G92	Axle, Performance Ratio (w/C60 Air)
400.00	QMT P235/55 R16 B/L (Base) (N/A G92 Axle)			(Reqs LB9 Eng w/MM5 Trans or B2L Eng) (Incls Eng Oil Cooler and Performance Exhaust System)
	QLC P245/50 ZR16 B/L (Reqs G92 Axle)			
N.C.	<b>WHEELS</b>	675.00	G92	Axle, Performance Ratio (w/o C60 Air)
	---- 16" Aluminum (Base)			(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)
N.C.	<b>CLIMATE CONTROL</b>			(Deletes Standard Fog Lamps)
	---- Air Conditioning (N/A Group FZAB) (Incl w/Groups FZA1, FZA2 and FZA3)			
20.00	K05 Heater, Engine Block			
170.00	(Note: One of the Following Defogger Options must be Specified)			
	C49 Defogger, Rear Window: Electric			
N.C.	R9W Defogger, Rear Window not Desired			
N.C.	<b>RADIO EQUIPMENT</b>	N.C.	VK3	License Plate Bracket, Front
V.P.S.	---- Electronically Tuned AM/FM Stereo	210.00	DE1	Louver, Rear Window
	Radio w/Seek-Scan, and Digital Clock	91.00	DG7	Mirrors, Sport: Twin Remote Electric (Incl w/Group FZA3) (Reqs Group FZA2 or FZA3)
	w/Extended Range Sound System			
	(Base)			
V.P.S.	UN6 Electronically Tuned AM/FM Stereo Radio	210.00	AU3	Power Door Lock System (Incl w/ Groups FZA2 and FZA3)
	w/Seek-Scan, Stereo Cassette			
	Tape with Search and Repeat and	N.C.	R8T	Priced Order Acknowledgement
	Digital Clock w/Extended Range Sound	895.00	CC1	Roof Panels, Removable (Incls Locks)
	System (Incl w/Groups FZA2 and FZA3)			(N/A G92 Axle or FZA3 Group w/LB9 and MM5 Trans)

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# CAMARO Z28 CONVERTIBLE

## 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	Silver	x	x	x	x
Blue, Ultra (Met)	98	98	Silver	x	x	x	
Red, Bright	81	81	#Red	x	x	x	x
Red, Dk (Met)	75	75	Silver	x	x	x	x
White, Arctic	10	10	#White	x	x	x	x

#Silver Wheel may be specified by ordering RPO 17P

## POWER TEAMS

ENGINE OPTION CONDITION		FINAL DRIVE RATIO	
		2.73	3.08
WITH NA5 STANDARD EMISSIONS			
LB9 MM5		----	Std
	MX0	Std	----
WITH YF5 CALIFORNIA EMISSIONS			
LB9 MM5		----	Std
	MX0	Std	----



21,305.00 **Model 1FP67**

## PREFERRED VEHICLE

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

		CZA1	CZA2	CZA3
925.00	<b>Preferred Equipment Group 1</b>			
	Air Conditioning	x	x	x
	Floor Covering: Carpeted Mats, Color-Keyed Front and Rear	x	x	x
	Moldings, Body Side	x	x	x
1,785.00	<b>Preferred Equipment Group 2</b>			
	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape with Search and Repeat and Digital Clock w/Extended Range Sound System		x	x
	Power Door Lock System		x	x
	Power Windows		x	x
	Speed Control: Electronic, w/Resume Speed		x	x
2,181.00	<b>Preferred Equipment Group 3</b>			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 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

N.C.	<b>ENGINE (Must Order)</b>				
	LB9 5.0 Liter TPI V8				Search and Repeat and Digital Clock w/Extended Range Sound System (Incl w/Groups CZA2 and CZA3)
N.C.	<b>TRANSMISSION (Must Order One)</b>				
	MM5 5-Speed Manual				
530.00	MX0 4-Speed Automatic	V.P.S.	U1C	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Compact Disc Player and Digital Clock w/Extended Range Sound System	
N.C.	<b>EMISSION (Must Order One)</b>				
	NA5 Standard Emissions				
100.00	YF5 California Emissions				
N.C.	<b>TIRES</b>				
	QMT P235/55 R16 B/L (Base)	V.P.S.	UL5	Radio Delete (Reqs Group CZAB)	
N.C.	<b>WHEELS</b>				
	---- 16" Aluminum (Base)	N.C.			<b>INTERIOR TRIM</b>
N.C.	<b>CLIMATE CONTROL</b>	327.00			C**2 Cloth Bucket
	---- Air Conditioning (N/A Group CZAB) (Incl w/Groups CZA1, CZA2 and CZA3)	850.00			F**2 Custom Cloth Bucket
20.00	K05 Heater, Engine Block	N.C.			A**2 Custom Leather Bucket
V.P.S.	<b>RADIO EQUIPMENT</b>	91.00			<b>ADDITIONAL OPTIONS</b>
	---- Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, and Digital Clock w/Extended Range Sound System (Base)	210.00			VK3 License Plate Bracket, Front
V.P.S.	UN6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape with	N.C.			DG7 Mirrors, Sport: Twin Remote Electric (Incl w/Group CZA3) (Reqs Group CZA2 or CZA3)
					AU3 Power Door Lock System (Incl w/Groups CZA2 and CZA3)
					R8T Priced Order Acknowledgement

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# CAMARO RS COUPE

## 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	Silver	x	x	x	x
Blue, Lt (Met)	23	23	Silver	x		x	
Blue, Ultra (Met)	98	98	Silver	x	x	x	
Gray, Med (Met)	87	87	Silver	x		x	x
Red, Bright	81	81	#Red	x	x	x	x
Red, Dk (Met)	75	75	Silver	x	x	x	x
Teal, Dk (Met)	37	37	#*Teal	x		x	
White, Arctic	10	10	#White	x	x	x	x

\*Silver with 16" Aluminum Wheel

#Silver Wheel may be specified by ordering RPO 17P

## 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	----	----	----

12,670.00 **Model 1FP87**

## PREFERRED VEHICLE

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

		FCA1	FCA2
1,085.00	<b>Preferred Equipment Group 1</b>		
	Air Conditioning	x	x
	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape with Search and Repeat and Digital Clock w/Extended Range Sound System	x	x
	Floor Covering: Carpeted Mats, Color-Keyed Front and Rear Moldings, Body Side	x	x
1,937.00	<b>Preferred Equipment Group 2</b>		
	Cover, Rear Compartment		x
	Mirror w/Dual Reading Lamps		x
	Power Door Lock System		x
	Power Hatch Release		x
	Power Windows		x
	Speed Control: Electronic, w/Resume Speed		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, 4-Speed Automatic 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

<b>ENGINE (Must Order One)</b>			
N.C.	LH0 3.1 Liter MFI V6	V.P.S.	
350.00	L03 5.0 Liter EFI V8		
<b>TRANSMISSION (Must Order One)</b>			
N.C.	MX0 4-Speed Automatic (Base)		
(-530.00)	MM5 5-Speed Manual		
<b>EMISSION (Must Order One)</b>			
N.C.	NA5 Standard Emissions		
100.00	YF5 California Emissions	V.P.S.	
<b>TIRES</b>			
N.C.	---- P215/65 R15 B/L (Base)		
170.00	QMT P235/55 R16 B/L (Reqs N96 Wheel)		
<b>WHEELS</b>			
N.C.	---- 15" Aluminum (Base)	V.P.S.	
N.C.	N96 16" Aluminum (Reqs L03 Eng and QMT Tires)	N.C.	
<b>CLIMATE CONTROL</b>		327.00	
830.00	C60 Air Conditioning (Incl w/Groups FCA1 and FCA2)	850.00	
20.00	K05 Heater, Engine Block	N.C.	
<b>(Note: One of the Following Defogger Options must be Specified)</b>		210.00	
170.00	C49 Defogger, Rear Window: Electric	91.00	
N.C.	R9W Defogger, Rear Window not Desired	210.00	
<b>RADIO EQUIPMENT</b>		60.00	
V.P.S.	---- Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, and Digital Clock w/Extended Range Sound	N.C.	
		895.00	
			<b>System (Base)</b>
			UN6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape with Search and Repeat and Digital Clock w/Extended Range Sound System (Incl w/Groups FCA1 and FCA2)
			U1C Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Compact Disc Player and Digital Clock w/Extended Range Sound System
			UL5 Radio Delete (Reqs Group FCAB)
			<b>INTERIOR TRIM</b>
			C**2 Cloth Bucket
			F**2 Custom Cloth Bucket
			A**2 Custom Leather Bucket
			<b>ADDITIONAL OPTIONS</b>
			VK3 License Plate Bracket, Front
			DE1 Louver, Rear Window
			DG7 Mirrors, Sport: Twin Remote Electric (Reqs Group FCA2)
			AU3 Power Door Lock System (Incl w/ Group FCA2)
			A90 Power Hatch Release (Incl w/Group FCA2)
			R8T Priced Order Acknowledgement
			CC1 Roof Panels, Removable (Incls Locks)

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# CAMARO RS CONVERTIBLE

## 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	Silver	x	x	x	x
Blue, Lt (Met)	23	23	Silver	x		x	
Blue, Ultra (Met)	98	98	Silver	x	x	x	
Gray, Med (Met)	87	87	Silver	x		x	x
Red, Bright	81	81	#Red	x	x	x	x
Red, Dk (Met)	75	75	Silver	x	x	x	x
Teal, Dk (Met)	37	37	#*Teal	x		x	
White, Arctic	10	10	#White	x	x	x	x

\*Silver with 16" Aluminum Wheel

#Silver Wheel may be specified by ordering RPO 17P

## 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	----	----	----

18,450.00 **Model 1FP67**

## PREFERRED VEHICLE

MUST ORDER ONE GROUP – NO DELETIONS ALLOWED

1,085.00	<b>Preferred Equipment Group 1</b>	<b>CCA1</b>	<b>CCA2</b>
	Air Conditioning	x	x
	Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Stereo Cassette Tape with Search and Repeat 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
1,785.00	<b>Preferred Equipment Group 2</b>		
	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, 3.1 Liter MFI V6 Eng, 4-Speed Automatic 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

N.C.	<b>ENGINE (Must Order One)</b>		
350.00	LH0 3.1 Liter MFI V6	V.P.S.	UN6 Range Sound System (Base)
	L03 5.0 Liter EFI V8		Electronically Tuned AM/FM Stereo
N.C.	<b>TRANSMISSION (Must Order One)</b>		Radio w/Seek-Scan, Stereo
(-530.00)	MX0 4-Speed Automatic (Base)		Cassette Tape with Search and
	MM5 5-Speed Manual		Repeat and Digital Clock
N.C.	<b>EMISSION (Must Order One)</b>		w/Extended Range Sound
100.00	NA5 Standard Emissions		System (Incl w/Groups CCA1
	YF5 California Emissions	V.P.S.	and CCA2)
N.C.	<b>TIRES</b>		U1C Electronically Tuned AM/FM
170.00	---- P215/65 R15 B/L (Base)		Stereo Radio w/Seek-Scan,
	QMT P235/55 R16 B/L		Compact Disc Player and
	(Reqs N96 Wheel)		Digital Clock w/Extended
N.C.	<b>WHEELS</b>	V.P.S.	Range Sound System
	---- 15" Aluminum (Base)		UL5 Radio Delete (Reqs Group CCAB)
N.C.	N96 16" Aluminum (Reqs L03	N.C.	<b>INTERIOR TRIM</b>
	Eng and QMT Tires)	327.00	C**2 Cloth Bucket
		850.00	F**2 Custom Cloth Bucket
			A**2 Custom Leather Bucket
830.00	<b>CLIMATE CONTROL</b>		<b>ADDITIONAL OPTIONS</b>
	C60 Air Conditioning (Incl w/Groups	N.C.	VK3 License Plate Bracket, Front
	CCA1 and CCA2)	91.00	DG7 Mirrors, Sport: Twin Remote Electric
20.00	K05 Heater, Engine Block		(Reqs Group CCA2)
	<b>RADIO EQUIPMENT</b>	210.00	AU3 Power Door Lock System
V.P.S.	---- Electronically Tuned AM/FM	N.C.	(Incl w/Group CCA2)
	Stereo Radio w/Seek-Scan,		R8T Priced Order Acknowledgement
	and Digital Clock w/Extended		



# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

# 1991

<b>Manufacturer</b> CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	<b>Vehicle Line</b>  CAMARO	
<b>Mailing Address</b> CHEVROLET-PONTIAC-CANADA GROUP ENGINEERING CENTER GENERAL MOTORS CORPORATION 30003 VAN DYKE WARREN, MICHIGAN 48090-9060	<b>Issued</b>  DECEMBER, 1989	<b>Revised</b>  APRIL, 1990

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This specification form was developed by the vehicle manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.



Motor Vehicle Manufacturers Association  
of the United States, Inc.

Blank Forms Provided by Technical Affairs Division





# MVMA Specifications

METRIC (U.S. Customary)

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### 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-91



# MVMA Specifications

Vehicle Line CAMAROModel Year 1991Issued 12-89Revised(\*) **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

## o Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
<b>CAMARO</b>				
2-Door Convertible (RWD)	1FP67	4 (2/2)	Not Available	
2-Door Coupe (RWD)	1FP87	4 (2/2)	45.4 (100)	
<b>CAMARO Z28</b>				
2-Door Convertible (RWD)	1FP67	4 (2/2)	Not Available	
2-Door Coupe (RWD)	1FP87	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	1991	Issued	12-89	Revised(*)	4-90
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**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
E N G I N E	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	Electronic Fuel Injection	Electronic Fuel 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	
T R A N S	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

[illegible]

## MVMA Specifications

**Vehicle Line** CAMARO

Model Year	1991	Issued	12-89	Revised(*)	4-90
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**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
E N G I N E	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 (205) @ 4200	157 (205) @ 4200	172 (230) @ 4200	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
T R A N S	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

[illegible]

# MVMA Specifications

Vehicle Line	CAMARO			
Model Year	1991	Issued	12-89	Revised(*) 4-90

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

3.1 LITER V6 (191 CID)  
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 (4.40 in.)	
Cyl blk 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.) (cu.in.)	51.35 (3.13)	
Cylinder liner material	Not Applicable	
Head gasket thickness (compressed)	1.02mm (.040 in.)	
Minimum combustion chamber total volume (cm. cu.) (cu. in.)	50.35 (3.07)	
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)	
Knock sensor (yes/no)	Yes	
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 (13.7)
--	----------------------------

## 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	1991	Issued	12-89	Revised(*) 4-90

## METRIC (U.S. Customary)

Engine Description  
Engine Code

5.0 LITER V8 (305 CID)  
ELECTRONIC FUEL 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 bick 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.) (cu.in.)		55.2 +/- 2.2 (3.37 +/- 0.13)
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		.533 (.021)
Minimum combustion chamber total volume (cm. cu.) (cu. in.)		55.2 +/- 2.2 (3.37 +/- 0.13)
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.
Knock sensor (yes/no)		Yes
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. (606.5 lbs.) Auto. 290.8 kg. (641.1 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 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.0 LITER V8 (305 CID)

TUNED PORT FUEL INJECTION RPO LB9

## O 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 block 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.) (cu.in.)		55.2 +/- 2.2 (3.37 +/- 0.13)
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		.724 (.0285)
Minimum combustion chamber total volume (cm. cu.) (cu. in.)		55.2 +/- 2.2 (3.37 +/- 0.13)
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)
Knock sensor (yes/no)		Yes
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	1991	Issued	12-89	Revised(*) 4-90

## 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 block matl & mass kg(lbs.) (machined)

Cast Iron, 68.674 (151.5)

### Cylinder block deck height

229.4 mm (9.025 in.)

### Cylinder block length

506.2 mm (19.93 in.)

### Deck clearance (minimum) (above or below block)

.635 mm (.025 in.), Below

### Cyl. head material & mass kg (lbs.)

Cast Iron, 19.800 (43.7)

### Cylinder head volume (cu.cm.) (cu.in.)

55.9 (3.40)

### Cylinder liner material

Not Applicable

### Head gasket thickness (compressed)

.724 mm (.0285 in.)

### Minimum combustion chamber total volume (cm. cu.) (cu. in.)

75.47 (4.60) 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)

### Knock sensor (yes/no)

Yes

### 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:

# MVMA Specifications

Vehicle Line CAMARO  
Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

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

### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		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, .592 (1.30) Full Assembly.
Length (axes centerline to centerline)	144.78 mm (5.7 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 in-jection 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 (1.16 in.); #2,3 = 24.0mm (0.94 in.)

# MVMA Specifications

Vehicle Line CAMARO  
Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.0 LITER V8 (305 CID)  
ELECTRONIC FUEL INJECTION RPO L03

### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		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)	144.78mm (5.7 in.)

### Engine - Crankshaft

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

### Engine - Lubrication System

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

### Engine - Diesel Information

(NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0 deg. F		
Injector Nozzle	Type	
	Opening pressure kPa (psi)	
Pre-chamber design		
Fuel in-jection 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 1991 Issued 12-89 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., n.a.)		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)	144.78mm (5.7 in.)

## Engine - Crankshaft

Material & mass kg., (weight, lbs.)*		Nodular Cast Iron, 23.360 (51.50)
End thrust taken by bearing (no.)		5
Length & number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	Fluoroelastomer / One Piece, Lip Seal
	Rear	Fluoroelastomer / 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 in-jection 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

#### Engine Code

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

### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		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)	144.78mm (5.7 in.)

### Engine - Crankshaft

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

### Engine - Lubrication System

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

### Engine - Diesel Information

(NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0 deg. F		
Injector Nozzle	Type	
	Opening pressure kPa (psi)	
Pre-chamber design		
Fuel in-jection 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

3.1 LITER V6 (191 CID)  
 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 cy(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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.0 LITER V8 (305 CID)  
ELECTRONIC FUEL 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
	Std.	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	23.5 mm
Radiator end tank material	Fins per inch @	4.0 mm
		2.5 mm
Fan	Std., elec., opt.	Standard
	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
	Switch point (temp.,/ pressure/elec.)	A/C Control Head & A/C Pressure
		Switch On Liquid Line
Fan shroud (material)		223 deg. F
		Plastic (Integral Partial Shroud)

@ - Distance Between Top Of Fins.

# MVMA Specifications

Vehicle Line CAMARO

Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.0 LITER V8 (305 CID)

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.)		LH-ECM & A/C Pressure Switch RH-A/C Pressure Switch/ECM
		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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.7 LITER V8 (350 CID)  
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.)	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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

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

### 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
Engine Code

5.0 LITER V8 (305 CID)  
ELECTRONIC FUEL 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.0 LITER V8 (305 CID)  
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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.7 LITER V8 (350 CID)  
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	"
	Sictr switch or valve	"
	Separate fill	"

# MVMA Specifications

Vehicle Line CAMARO  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

### Engine Description

3.1 LITER V6 (191 CID)

### Engine Code

MULTI-PORT FUEL INJECTION RPO LHO

### Vehicle Emission Control

AUTOMATIC

MANUAL

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	Catalytic Converter
		Point of entry	Exhaust Manifold	Catalytic Converter
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	ECM Controlled	
		Exhaust source	Exhaust Manifold	
	Catalytic Converter	Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold	
		Type	Single Bed, Oxidizing & Reducing	Dual 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)	Plat.(Pt), Palad.(Pd), Rho.(Rh)
		Noble metal concentration (g/cu. cm.)	0.000838	0.001082
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 int.(breather cap, other)		Air Inlet Duct	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	--	
Electronic System	Vapor storage provision		Canister	
	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)	1, Reverse Flow	
	Material & Mass kg (weight lbs.)		
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)	
Intermediate 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)	

# MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line	CAMARO		
Model Year	1991	Issued	12-89
		Revised(*)	

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## 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	1991	Issued	12-89	Revised(*) 4-90

## METRIC (U.S. Customary)

Engine Description  
Engine Code

5.0 LITER V8 (305 CID)  
ELECTRONIC FUEL 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	Serpentine Belt
		Air distribution (head, manifold, etc.,)	Exhaust Manifold And Catalytic Converter
		Point of entry	Exhaust Manifold
	Exhaust Gas Recirculation	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 int(breather cap, other)		Air Cleaner
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	Canister
	Vapor storage provision		Canister
Electronic System	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

## Engine - Exhaust System

Type (single, single with cross-over, dual, other)		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)
* Intermediate 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



# MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line	CAMARO		
Model Year	1991	Issued	12-89
		Revised(*)	

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## 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

5.0 LITER V8 (305 CID)

### Engine Code

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 Recirculation	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 inlet(breather cap,other)		Throttle Body	
Evaporative Emission Control	Vapor vented to (crankcase, canister,other)	Fuel tank	Canister	
		Carburetor	--	
	Vapor storage provision		Canister	
Electronic System	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

## Engine - Exhaust System

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)
	Matl. & Mass kg (wght.lbs.)	4.07 (9.0)	15.68 (34.6)
* Intermediate 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).

# MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line	CAMARO		
Model Year	1991	Issued	12-89
		Revised(*)	

- 
- (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 1991 Issued 12-89 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 Recirculation	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 int.(breather cap, other)		Throttle Body
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	--
	Vapor storage provision		Canister
Electronic System	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

## Engine - Exhaust System

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)
* Intermediate 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

3.1 LITER V6 (191 CID)  
 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.)	2.8 (5.9)
	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) N (lbs.)	Depressed	130
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		5750 (1293)
Clutch facing	Facing mfr. & 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.0 LITER V8 (305 CID)  
 ELECTRONIC FUEL 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.)	2.8 (5.9)
	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) N (lbs.)	Depressed	150
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		7750 (1742)
Clutch facing	Facing mfr. & 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
Engine Code

5.0 LITER V8 (305 CID)  
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	0.73
	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.)	2.8 (5.9)	
	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) N (lbs.)	Depressed	150
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		7750 (1742)
Clutch facing	Facing mfr. & 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.7 LITER V8 (305 CID)  
 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) N (lbs.)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal) N (lbs.)		
Clutch facing	Facing mfr. & 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
Engine Code

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

## 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.

## 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.0 LITER V8 (305 CID)  
 ELECTRONIC FUEL INJECTION RPO L03

### 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	

### 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description

Engine Code

5.0 LITER V8 (305 CID)

TUNED PORT FUEL INJECTION RPO LB9

## 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.

## 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

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

## 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.

## 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

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

## 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

## 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

## 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	
		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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

5.0 LITER V8 (305 CID)

### Engine Code

THROTTLE BODY INJECTION RPO L03

### 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.		7.625	7.625
No. of teeth	Pinion	15	13
	Ring gear	41	40

### 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

### 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
		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 **1991** Issued **12-89** Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

5.0 LITER V8 (305 CID)

### Engine Code

TUNED PORT FUEL INJECTION RPO LB9

### 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.		7.625	7.625	7.625
No. of teeth	Pinion	15	13	12
	Ring gear	41	40	41

### Rear Axle Unit

Description		Salisbury/Beam Housing
Limited slip differential (type)		Cone Clutch
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

### 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
		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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

5.7 LITER V8 (350 CID)

### Engine Code

TUNED PORT FUEL INJECTION RPO L98

## Axle Ratio and Tooth Combinations

Axle ratio (or overall top gear ratio)		3.23 (2.26)
Ring gear o.d.		7.625
No. of teeth	Pinion	13
	Ring gear	42

## Rear Axle Unit

Description		Salisbury/Beam Housing
Limited slip differential (type)		Cone Clutch
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

## 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	
		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 1991 Issued 12-89 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.)		"
	s e n s o r s	Lateral acceleration	"
		Deceleration	"
		Acceleration	"
		Road surface	"
Shock absorber (front & rear)	Type		Direct, Double Acting, Hydraulic
	Make		Delco
	Piston diameter		32mm V-6; 35mm V-8 Front/ 25mm RS & Base Z28; 32mm Z28, Rear
	Rod diameter		25mm Front; 12.5mm Rear

## Suspension – Front

Type and description		Independent W/Coil Springs, Modified MacPherson Strut
Travel*	Full jounce	75.0mm RS; 57.0mm RS W/16" Tire, Z28
	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 (10.2 x 4.06; 98 x .59 in)
	Spring rate N/mm (lb./in.)	64 N/mm RS & Base Z28; 96 N/mm Z28
	Rate @ wheel N/mm (lb./in)	Spring Rate x (2.455)
Stabilizer	Type (link,lnkless,frmless)	Link
	Material & bar diameter	30mm Solid, RS; 34mm Hollow, Base Z28 & 16" Tire RS, 36mm Hollow Z28; Steel

## 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) RS; 23.0 (131.5) Z28 & F-41 Base
	Rate @ wheel N/mm (lb/in)		0.96 x Spring Rate
	Insulators(type & material)		Rubber Isolated
	If leaf	No. of leaves	Not Applicable
		Shackle(comp or tens)	"
Stabilizer	Type(link,lnkless,frmless)		Link
	Material & bar diameter		18mm RS, 21mm RS W/16" Tire & Base Z28, 23mm Z28; Steel
Track bar (type)		"U" Section W/Rubber Bushings	

\* Define load condition:

# MVMA Specifications

## METRIC (U.S. Customary)

Body Type And/Or

Engine Displacement

Brakes - Service

Vehicle Line CAMARO

Model Year 1991 Issued 12-89 Revised(\*)

SPORT COUPE

Z28

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
		Lining code *****	IN 4035/4050 HB33
		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

Vehicle Line CAMARO  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

SPORT COUPE

Z28

## 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		15x4T125/70D15 (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		Hand Lever Application - Push Button Release - Self-Adjusting
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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Body Type And/Or

Engine Displacement

Brakes - Service

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.

# o **MVMA Specifications**

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

Vehicle Line CAMARO

Model Year 1991 Issued 12-89 Revised(\*)

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 - mm(in.)	"
	Periodic M.V. inspection	Caster (deg.)	"
		Camber (deg.)	"
		Toe-in - mm(in.)	"
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Applicable
		Toe-in outside track - mm (in.)	
	Service reset*	Camber (deg.)	"
		Toe-in - mm(in.)	"
	Periodic M.V. inspection	Camber (deg.)	"
		Toe-in - mm(in.)	"

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

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

## o **Electrical - Instruments and Equipment**

Speedometer	Type (analog, digital, std., opt.)		
	Trip odometer (std., opt., n.a.)		
Head-up display	Std., opt., not avail.		
	Type - Secondary, Opto-electronic		
	Speedometer	Digital	
	Status/warn. indicators - Turn signals, high beam, low fuel, check gauges		
	Brightness control	Day/night mode, adj.	
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
Wind-shield 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)
Wind-shield 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 Teltale On Manual Transmission. Check Engine, Headlamp High Beam, Turn Signals, Brake Warning Light, Fasten Seat Belts, Security, SIR

# MVMA Specifications

Vehicle Line CAMARO  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

SPORT COUPE

Z28

### Steering

Manual (std., opt., n.a.)				Not Available		
Power (std., opt., n.a.)				Standard		
Adjustable steering wheel/ column (tilt, telescope, other)		Type		Tilt - 5 Position		
		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 (coaxial,elec.hyd.,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		

\* 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

3.1 LITER V6 (191 CID)  
 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
	Curr.dr. -29 (-20) deg C(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.
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# MVMA Specifications

Vehicle Line CAMARO  
Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
Engine Code

5.0 LITER V8 (305 CID)  
ELECTRONIC FUEL 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
	Curr.dr. -29 (-20) deg C(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.
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# MVMA Specifications

Vehicle Line CAMARO  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.0 LITER V8 (305 CID)  
 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
	Curr.dr. -29 (-20) deg C(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.
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# MVMA Specifications

Vehicle Line CAMARO  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

## METRIC (U.S. Customary)

### Engine Description

### Engine Code

5.7 LITER V8 (350 CID)  
 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
	Curr.dr. -29 (-20) deg C(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.
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# MVMA Specifications

Vehicle Line CAMARO  
Model Year 1991 Issued 12-89 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 1991 Issued 12-89 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.
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# MVMA Specifications

Vehicle Line CAMARO  
 Model Year 1991 Issued 12-89 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 Available On Convertible)
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	Tachometer, Speedometer, Trip Odometer, Fuel, Oil Pressure*, Temp, Volt, Seat Belt Warning, Engine Warning, Inflatable Restraint 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)	Standard (Under Dash); Dual Lighted Mirror Opt.-Std. On Conv.
	Door lock, ignition	Not Available
	Engine compartment	Standard
	Fog	Standard ZR8, Not Available On Sport Coupe
	Glove compartment	Standard (Compartment In Floor Console)
	Trunk	Standard
	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. Z28
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 1991 Issued 12-89 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
		Support (lumbar, hip, thigh, etc.)	"
		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
	Stan.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo W/Seek, Scan & Digital Clock
	Opt.		Electronically Tuned AM/FM Stereo Radio W/Seek-Scan, Stereo Cassette Tape W/Search And Repeat, And Digital Clock W/Extended Range Sound System. Delco/Bose Gold Series Electronically Tuned AM/FM Stereo Radio W/Seek-Scan, Stereo Cassette Tape And Digital Clock W/Extended Range Sound System. Electronically Tuned AM/FM Stereo Radio W/Seek-Scan, Compact Disc Player And Digital Clock W/Extended Range Sound System.
	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. Electronic System (VATS II) Standard	

### ○ Trailer Towing

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

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

# MVMA Specifications

Vehicle Line	CAMARO			
Model Year	1991	Issued	12-89	Revised(*) 4-90

## 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

#### Width

##### SAE Ref. No.

Tread (front)	W101	1525 (60.0)
Tread (rear)	W102	1548 (60.9)
Vehicle width	W103	1840 (72.4)
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	--
Turn-in angle (deg.)	W122	31.5
Outside mirror width	W410	1849 (72.8)

#### Length

Wheelbase	L101	2566 (101.0)
Vehicle length	L103	4891 (192.6)
Overhang (front)	L104	1192 (46.9)
Overhang (rear)	L105	1133 (44.6)
Upper structure length	L123	2669 (105.1)
Rear wheel C/L 'X' coordinate	L127	4138 (163.0)

#### Height \*\*

Passenger distribution (front/rear)	PD1,2,3	2-2	**
Trunk/cargo load			**
Vehicle height	H101	1279 (50.4)	
Cowl point to ground	H114	904 (35.6)	
Deck point to ground	H138	915 (36.0)	
Rocker panel-front to ground	H112	210 (8.3)	
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	172 (6.7)
Min. running ground clearance	H156	148 (5.8)
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 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

### Vehicle Dimensions

See Key Sheets for Definitions

Body Type

ALL

#### ○ Front Compartment

SAE Ref. No.

SgRP front, 'X' coordinate	L31	3050 (124.0)
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	1469 (57.8) Coupes, 1488 (58.6) Convertible
Hip room	W5	1428 (56.2) 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	733 (28.9) 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	350 (12.4)	132 (5.2) Convertible
*** Lifter height	H185	881 (34.7)	

#### Interior Volumes (EPA Classification)

Vehicle class		Sub-Compact
Interior volume index (cu. ft.)**		96.6
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 Conditions

All Linear Dimensions Are In Millimeters (Inches).



# MVMA Specifications

Vehicle Line CAMARO  
Model Year 1991 Issued 12-89 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 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Body Type

ALL

## Vehicle Fiducial Marks

Fiducial Mark 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)#
	H181*	296 (11.7)
	H163*	284 (11.2)
Rear	W22*	548 (21.6)
	L55*	2815 (110.8)*
	H82*	96 (3.8)#
	H182*	417 (16.4)
	H164*	407 (16.0)
		* Vertical Base Grid 2000 mm Line
		# Horizontal 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	1991	Issued	12-89	Revised(*)	4-90
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[illegible]

\* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

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

**\*\*\* Shipping Mass (weight) = Curb Weight Less:**

35 (77)

# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO

Model Year 1991 Issued 12-89 Revised(\*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
AC3	Power Seat, 6-Way (Driver's Side Only)	1.6 (3.5)	2.0 (4.4)	3.6 (7.9)	
AM9	Split Back, Fold Down Rear Seat	-.4 (-.9)	-1.2 (-2.6)	-1.6 (-3.5)	
AU3	Power Door Locks - Electric	.8 (1.8)	1.0 (2.2)	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 (2.6)	
B35	Mats, Rear Floor - Color-Keyed Carpet	.4 (0.9)	.4 (0.9)	.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	Windshield 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	1991	Issued	12-89	Revised(*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
C60	Air Conditioning (Manual Control)	16.8 (36.9)	2.2 (4.8)	19.0 (41.7)	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)	1.4 (3.0)	19.4 (42.7)	
		19.4 (42.8)	1.6 (3.6)	21.0 (46.3)	
DE1	Sunshade - Back Window	-.6 (-1.3)	9.0 (19.8)	8.4 (18.5)	
D34	Visor Vanity Mirror - Passenger Side	.2 (0.4)	0 (0)	.2 (0.4)	
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
F41	Ride And Handling Suspension System	.4 (0.9)	.4 (0.9)	.8 (1.8)	
G80	Limited Slip Rear Axle	0 (0)	2.0 (4.4)	2.0 (4.4)	
J65	Power 4-Wheel Disc Brakes	0 (0)	14.0 (30.8)	14.0 (30.8)	IROC-Z With L98 Only

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

# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO

Model Year 1991 Issued 12-89 Revised(\*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
KC4	Engine Oil Cooler	3.2 (7.0)	-.4 (-0.9)	2.8 (6.1)	
K34	Cruise Control - Three Mode With Resume Feature	2.4 (5.3)	0 (0)	2.4 (5.3)	All Models Except LHO
	(Available On Manual Or Automatic Transmissions)	2.0 (4.4)	0 (0)	2.0 (4.4)	With LHO
LB9	5.0 Liter V8 (305 CID)	68.4 (150.5)	7.8 (17.2)	76.2 (167.7)	Z28 With M39/MK6
		63.8 (140.4)	6.4 (14.1)	70.2 (154.5)	Z28 With MD8
LO3	5.0 Liter V8 (305 CID)	70.2 (154.8)	2.2 (4.9)	72.4 (159.7)	RS With M39
		53.4 (117.7)	1.8 (4.0)	55.2 (121.7)	RS With MD8
L98	5.7 Liter V8 (350 CID)	68.0 (149.6)	6.8 (15.0)	74.8 (164.6)	Z28 With MD8
M39	5-Speed Manual Transmission	-.4 (-0.9)	0 (0)	-.4 (-0.9)	
MD8	Automatic Transmission Overdrive	12.8 (28.2)	4.4 (9.7)	17.2 (37.9)	With LHO-V6 Engine, With RS
		31.8 (70.0)	10.0 (22.0)	41.8 (92.0)	With Convertible
		31.4 (69.2)	10.0 (22.0)	41.4 (91.2)	With LO3-V8 Engine, RS

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

# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1991 Issued 12-89 Revised(\*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
MD8	Automatic Transmission Overdrive	31.4 (69.2)	10.0 (22.0)	41.4 (91.2)	With LB9 & L98 V8 Engines, Z28 Only
N10	Dual Exhaust	-.2 (-0.4)	2.0 (4.4)	1.8 (4.0)	
N33	Steering Column - Tilt	.8 (1.8)	.2 (0.4)	1.0 (2.2)	
TR9	Lamp Group	.2 (0.4)	0 (0)	.2 (0.4)	
T96	Fog Lamps (W/Z04)	1.6 (3.5)	-.2 (-0.4)	1.4 (3.1)	
UA1	Battery - Heavy Duty	0.2 (0.4)	0 (0)	0.2 (0.4)	LH0/L03
		2.2 (4.9)	-0.4 (-0.9)	1.8 (4.0)	LB9
UL5	Radio - Delete	-2.0 (-4.4)	-.6 (-1.3)	-2.6 (-5.7)	
UN6	Extended Range Sound System AM/FM Stereo Radio, Clock, Cassette, ETR	0 (0)	0 (0)	0 (0)	Optional
UQ4	Audio System - BOSE Speakers	2.0 (4.4)	4.0 (8.8)	6.0 (13.2)	
UU8	Extended Range Sound System AM/FM Stereo Cass.Tape, Dolby Sound, Digital Clock, ETR	0.6 (1.3)	0.2 (0.4)	0.8 (1.7)	Optional Except Convertible
U1C	Extended Range Sound System AM/FM Stereo Radio, Compact Disc, Clock, ETR	.8 (1.8)	.4 (0.9)	1.2 (2.7)	

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

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

Model Year	1991	Issued	12-89	Revised(*)	4-90
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\* Also see Engine - General Section for dressed engine mass (weight).

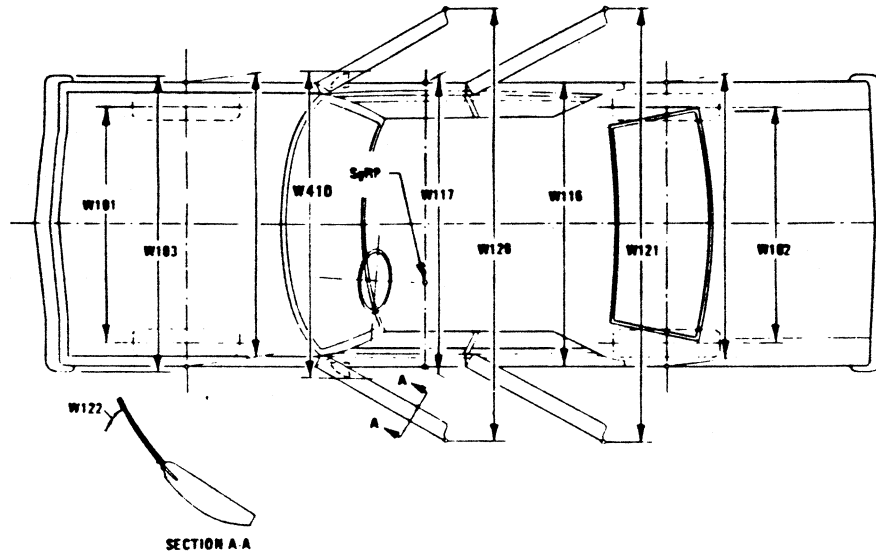


# MVMA Specifications

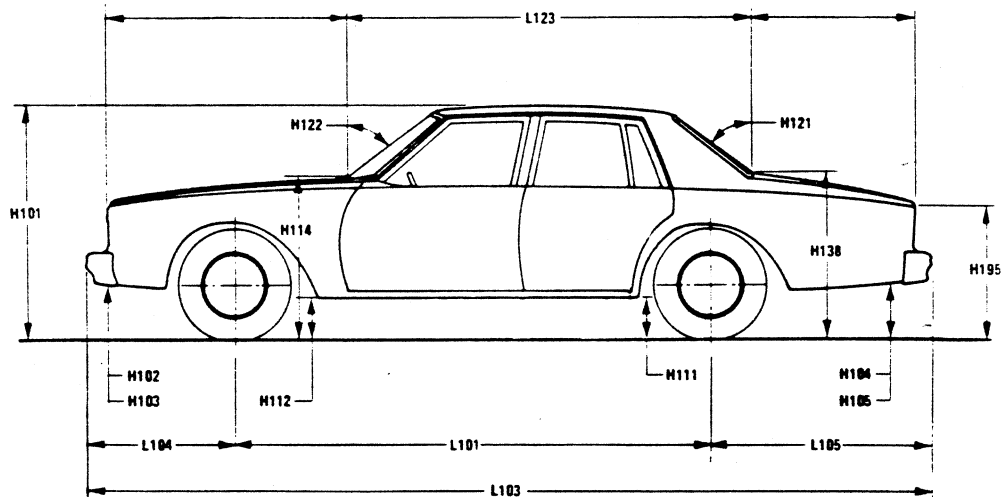
METRIC (U.S. Customary)

## Exterior Vehicle And Body Dimensions – Key Sheet

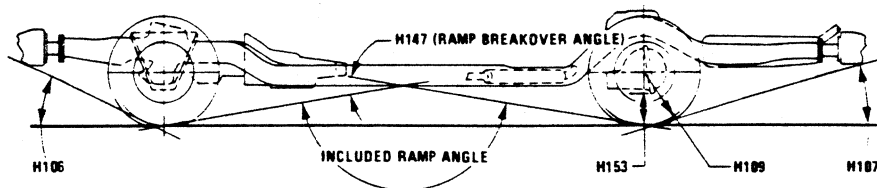
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### Exterior Length & Height



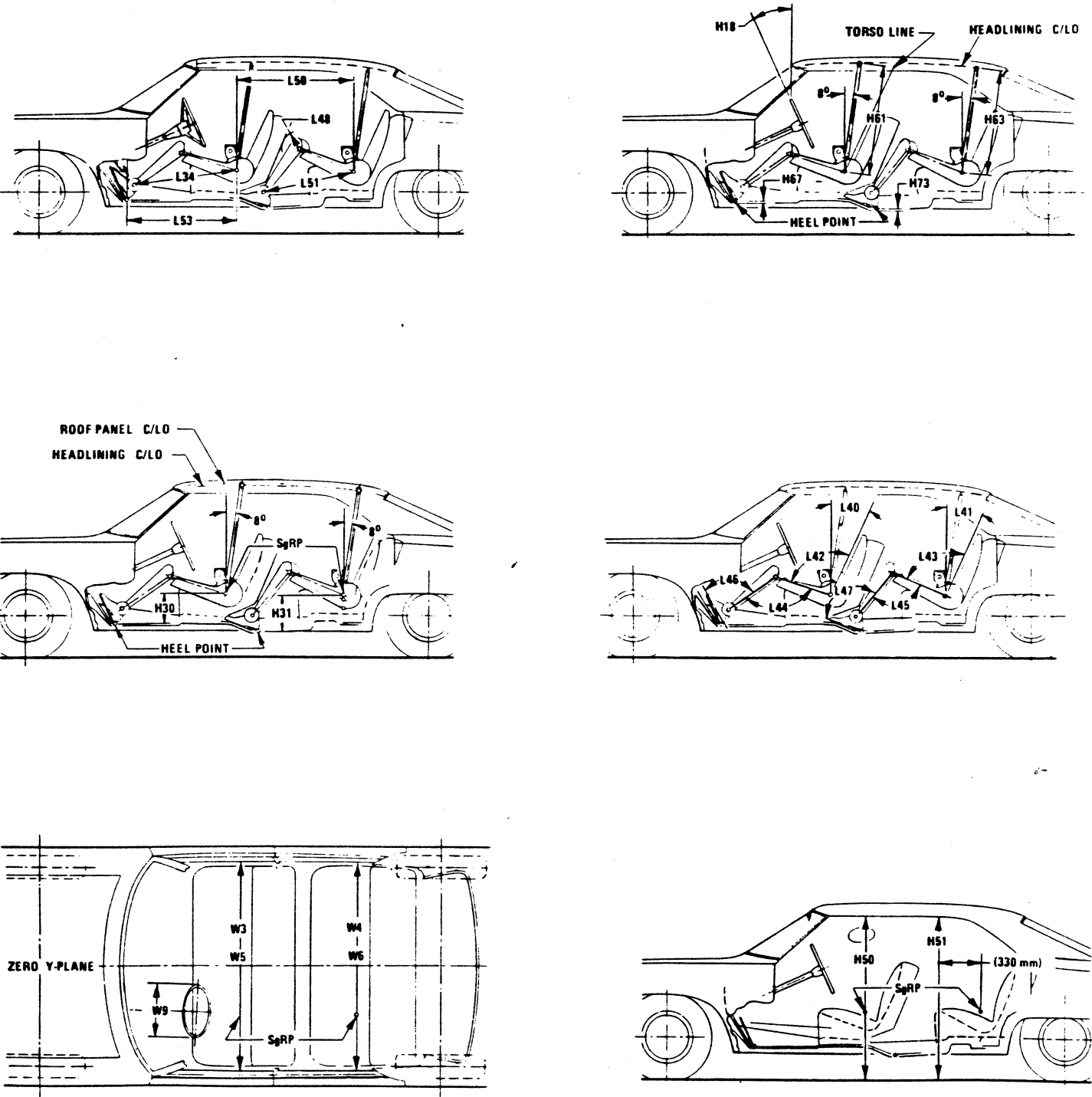
### Exterior Ground Clearance



# MVMA Specifications Form

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet

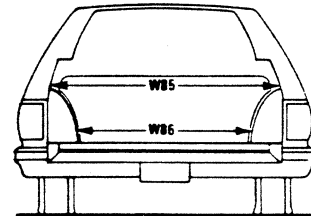
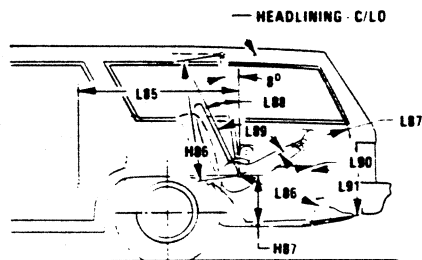


# MVMA Specifications Form

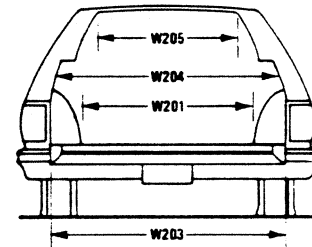
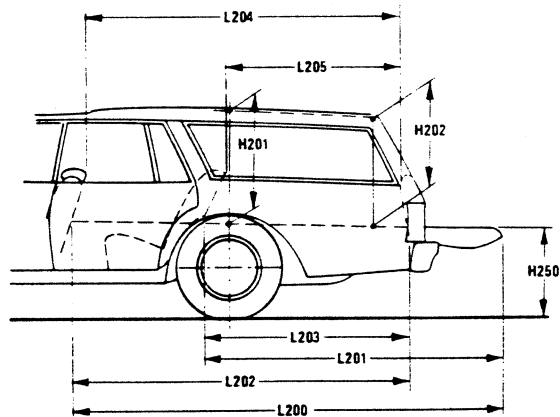
METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions – Key Sheet

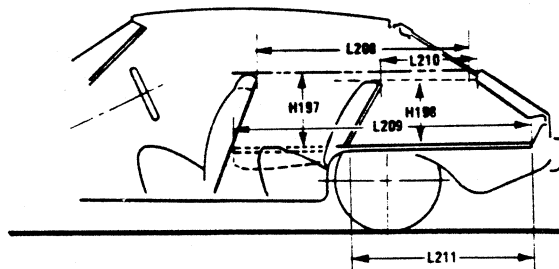
### Third Seat



### Cargo Space



### Station Wagon



### Hatchback

# MVMA Specifications

## METRIC (U.S. Customary)

### Exterior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

#### Seating Reference Point

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

#### Width Dimensions

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

# MVMA Specifications

## METRIC (U.S. Customary)

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

# MVMA Specifications

## METRIC (U.S. Customary)

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

#### Luggage Compartment Dimensions

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

#### Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estimates 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed 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 undeepressed floor covering to the rearmost point on the undeepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH – CLOSED – SECOND. The dimension measured horizontally from the back of the second seat at the height of the undeepressed floor covering to the rearmost point on the undeepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT – FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab 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 wheelhouseings 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 undeepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undeepressed 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 undeepressed 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 undeepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

#### V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

# 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:

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

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

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

Measured in mm:

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

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:

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

Measured in mm:

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

#### 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:

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

Measured in mm:

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

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:

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

Measured in mm:

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

# MVMA Specifications

## METRIC (U.S. Customary)

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