

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

# 1988

Manufacturer	Chevrolet Motor Division General Motors Corporation	Vehicle Line  CAMARO	
Mailing Address	Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued June, 1987	Revised September, 1987

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.

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# MVMA Specifications Form

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

**MVMA Specifications Form****METRIC (U.S. Customary)**Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_**Vehicle Models**

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear).			Max. Trunk/Cargo Load—Kilograms (Pounds)
REAR WHEEL DRIVE CAMARO		MODEL NUMBER	FRONT/REAR			
<u>COUPES</u>						
Sport Coupe 2-Door Sport Coupe		1FP87	2	2	45.4 (100.1)	
<u>Model Option</u>						
IROC-Z 2-Door Sport Coupe		1FP87/w/Z28	2	2	45.4 (100.1)	
<u>CONVERTIBLES (Model Options)</u>						
Sport Coupe 2-Door Convertible Coupe		1FP87/W/Z08	2	2	NA	
IROC-Z 2-Door Convertible Coupe		1FP87 W/Z28/Z08	2	2	NA	

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

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# MVMA Specifications Form

Vehicle Line CAMARO  
 Model Year 1988 Issued 6-87 Revised (•) 9-87

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

**Power Teams** (Indicate whether standard or optional)

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION/ TRANSAXLE	Drive Ratios (:1)			
	Displ. Liters (in <sup>3</sup> )	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				Axle Ratio		Overall	
				Power kW (bhp)	Torque N·m (lb. ft.)			Overall Veh.	Overall Veh.	Base Drive	Opt. Drive
1FP00-A11 States-Base Except IROC	V6 2.8L (173CID) LB8	MFI **	8.9:1	135 @ 4900	160 @ 3900	S	Man. 5-Spd. (MB1) 4.03 Low/Base Auto '700-R4 Avail (MD8)	3.42+	2.60	--	--
1FP00 Avail-All States Sport Coupe (Optional) IROC Coupe (Base)	V8 5.0Liter (305CID) L03	EFI ***	9.3:1	170 @ 4000	255 @ 2400	S	Man. 5-Spd. (M39) 2.95 Low/Base Auto '700-R4' (MD8) Avail	3.08	1.94	--	--
Avail All States IROC (Optional)	V8 5.0Liter (305CID) LB9	TPI @	9.3:1	220 @ 4400	290 @ 3200	D	Man. 5-Spd.M39 MK6 2.95 Low/Base Auto '700-R4' (MD8) Opt.	3.08	1.94	--	--
				195 @ 4000	295 @ 2800	D	Auto '700-R4' (MD8) Opt.	2.73\$	1.91	3.23*	2.26
Avail All States IROC (Optional)	V8 5.7Liter (350CID) L98	TPI @	9.3:1	230 @ 4400	330 @ 3200	D	Auto '700-R4' Base	3.27%*2.29	2.77%	1.94	
<div>* - Optional on IROC with VR tires. ** - Multi-Port Fuel Injection *** - Electronic Fuel Injection % - With Rear Disc Brakes. \$ - No 3-4 WOT upshift. @ - Tuned Port Fuel Injection.</div>											

**MVMA Specifications Form****METRIC (U.S. Customary)**Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) 9-87Engine Description/Carb.  
Engine Code2.8 Liter V6 (173 CID)  
(2.8 Multi Port FI)  
RPO LB8**ENGINE - GENERAL**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	60°V - Front - Longitudinal
Manufacturer	Chevrolet
No. of cylinders	6
Bore	89.0 (3.50)
Stroke	76.0 (2.99)
Bore spacing (C/L to C/L)	111.8 (4.40)
Cylinder block material & mass kg (lbs.) (machined)	Cast iron 41.731 (91.9)
Cylinder block deck height	224 (8.82)
Cylinder block length	435.5 (17.1)
Deck clearance (minimum) (above or below block)	0.12 (.0047) Below
Cylinder head material & mass kg (lbs.)	Cast iron 11.227 (24.8)
Cylinder head volume (cm <sup>3</sup> )	--
Cylinder liner material	Not Applicable
Head gasket thickness (compressed)	.838 (.033)
Minimum combustion chamber total volume (cm <sup>3</sup> )	51.546 (2.029)@
Cyl. no. system (front to rear)*	L. Bank 1-3-5 R. Bank 2-4-6
Firing order	1-2-3-4-5-6
Intake manifold material & mass [kg (lbs.)]**	Cast aluminum/2.370 (5.1) ctr, 3.810 (8.4) Lwr
Exhaust manifold material & mass [kg (lbs.)]**	Cast Iron/3.610 (8.0) RH, 2.425 (5.3) LH
Recommended fuel (leaded, unleaded, diesel)	Unleaded
Fuel antiknock index (R + M) 2	87
Total dressed engine mass (wt) dry***	195.7 (431.4) Auto, 206.9 (456.1) Man

**Engine - Pistons**

Material & mass, g (weight, oz.) - piston only	Aluminum alloy/.467 (1.0)
--	---------------------------

**Engine - Camshaft**

Location	In block above crankshaft
Material & mass kg (weight, lbs.)	Cast iron/3.098 (6.83)
Drive type	Chain / belt Width / pitch Chain 19.4/60.9

\* Rear of engine - drive takeoff. View from drive takeoff end to determine left &amp; right side of engine.

\*\* Finished state.

\*\*\* Dressed engine mass (weight) includes the following:

@ - Piston at TDC, spark plug and valves in place, and cylinder head torques to specifications.

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

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) 9-87

Engine Description/Carb.  
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-camber, etc.)	90°V Front Longitudinal
Manufacturer	Chevrolet
No. of cylinders	8
Bore	94.89 (3.74)
Stroke	88.39 (3.48)
Bore spacing (C/L to C/L)	111.8 (4.40)
Cylinder block material & mass kg (lbs.) (machined)	Cast alloy iron 68.674 (151.4)
Cylinder block deck height	229.4 (9.025)
Cylinder block length	512.8 (20.19)
Deck clearance (minimum) (above or below block)	.635 (.025) below
Cylinder head material & mass kg (lbs.)	Cast alloy iron 19.800 (43.7)
Cylinder head volume (cm <sup>3</sup> )	--
Cylinder liner material	Not Applicable
Head gasket thickness (compressed)	.533 (.021)
Minimum combustion chamber total volume (cm <sup>3</sup> )	55.2 (+/- 2.2)
Cyl. no. system (front to rear)*	L. Bank 1-3-5-7
	R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Intake manifold material & mass [kg (lbs.)]**	Cast aluminum/6.900 (15.2)
Exhaust manifold material & mass [kg (lbs.)]**	Cast iron 4.345 (9.6) L.H., 3.800 (8.4) R.H.
Recommended fuel (leaded, unleaded, diesel)	Unleaded
Fuel antiknock index (R + M) 2	87
Total dressed engine mass (wt) dry***	275.1 (606.5) Auto. 290.8 (641.1) Man.

## Engine - Pistons

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

## Engine - Camshaft

Location	In block above crankshaft
Material & mass kg (weight, lbs.)	Steel 4.124 (9.1)
Drive type	Chain / belt Chain
	Width / pitch 15.976 (6.25)/.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 Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) 9-87

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
(Tuned Port Fuel Injection)  
RPO LB9

## ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	90°V Front Longitudinal
Manufacturer	Chevrolet
No. of cylinders	8
Bore	94.89 (3.74)
Stroke	88.39 (3.48)
Bore spacing (C/L to C/L)	111.8 (4.40)
Cylinder block material & mass kg (lbs.) (machined)	Cast Iron/68.674 (151.4)
Cylinder block deck height	229 (9.025)
Cylinder block length	512.8 (20.19)
Deck clearance (minimum) (above or below block)	.635 (.025) below
Cylinder head material & mass kg (lbs.)	Cast Iron/19.800 (43.7)
Cylinder head volume (cm³)	--
Cylinder liner material	Not Applicable
Head gasket thickness (compressed)	.533 (.021)
Minimum combustion chamber total volume (cm³)	55.2 (+/- 2.2)
Cyl. no. system (front to rear)*	L. Bank 1-3-5-7
	R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Intake manifold material & mass (kg (lbs.))**	Cast Aluminum/6.117 (13.5)
Exhaust manifold material & mass (kg (lbs.))**	Cast Iron/L.H. 4.460 (9.8), R.H. 3.800 (8.4)
Recommended fuel (leaded, unleaded, diesel)	Unleaded
Fuel antiknock index (R + M) 2	91
Total dressed engine mass (wt) dry***	254.1 (560.2) Auto. 297.9 (656.7) Man. 282.4 (622.6)

## Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum/.645 (1.4)
--	---------------------

## Engine - Camshaft

Location	In block above crankshaft
Material & mass kg (weight, lbs.)	Steel 4.200 (9.3)
Drive type	Chain / belt
	Width / pitch
	Chain 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 engine a complete ready-to-run unit.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) 9-87

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (350 CID)  
Tuned Port Fuel Injection (TPI)  
RPO L98

## ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	90°V Front Longitudinal
Manufacturer	Chevrolet
No. of cylinders	8
Bore	101.6 (4.00)
Stroke	88.4 (3.48)
Bore spacing (C/L to C/L)	111.8 (4.40)
Cylinder block material & mass kg (lbs.) (machined)	Cast Iron/68.674 (151.5)
Cylinder block deck height	229.2 (9.025)
Cylinder block length	506.2 (19.93)
Deck clearance (minimum) (above or below block)	.025 below
Cylinder head material & mass kg (lbs.)	Cast Iron/19.800 (43.7)
Cylinder head volume (cm <sup>3</sup> )	--
Cylinder liner material	Not Applicable
Head gasket thickness (compressed)	.021
Minimum combustion chamber total volume (cm <sup>3</sup> )	75.47 Combustion chamber with piston at top dead center and all components in place torqued to specifications.
Cyl. no. system (front to rear)*	L. Bank 1-3-5-7
	R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Intake manifold material & mass [kg (lbs.)]**	Cast Aluminum/6.117 (13.5)
Exhaust manifold material & mass [kg (lbs.)]**	Iron 4.460 (9.8) L.H., 3.800 (8.4) R.H.
Recommended fuel (leaded, unleaded, diesel)	Unleaded
Fuel antiknock index (R + M) 2	91
Total dressed engine mass (wt) dry***	284.5 (627.3) auto.

## Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Impacted cast aluminum, .645 (1.4)
--	------------------------------------

## Engine - Camshaft

Location	In cylinder block "V" above crankshaft
Material & mass kg (weight, lbs.)	Steel 4.200 (9.3)
Drive type	Chain / belt
	Chain
	Width / pitch
	15.976 (.625)/.5

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

\*\* Finished state.

\*\*\* Dressed engine mass (weight) includes the following:

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



# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.8 Liter V6 (173 CID)  
(2.8 Multi-Port FI)  
RPO LB8

## Engine - Valve System

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

## Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	SAE 1037 or 1038 Steel .399 (0.9)
--	-----------------------------------

## Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*		Nodular cast iron 14.170 (31.24)
End thrust taken by bearing (no.)		3
Length & number of main bearings		4
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) at engine rpm)	345-448 (50-65) @ 1200
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full-flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)

## Engine - Diesel Information

Diesel engine manufacturer		
Glow plug, current drain at 0°F		
Injector nozzle	Type	Not
	Opening pressure (kPa (psi))	Applicable
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection 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

Turbo charger - manufacturer	Not
Super charger - manufacturer	Applicable
Charge cooler	--

\*Finished State

Ø 1988 Format Change

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO

Model Year 1988

Issued 6-87

Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
(Electronic Fuel Injection)  
RPO L03

## Engine - Valve System

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

## Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	SAE 1037 or 1038 steel/.388 (.855)
--	------------------------------------

## 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
	Rear
	Fluoroelastomer, one-piece, lip seal
	Fluoroelastomer, one-piece, lip seal

## Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	345-448 (50-65) @ 2000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full-flow
Capacity of c/case, less filter-refill-L (qt.)	4.5 (5.0)

## Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type
	Opening pressure [kPa (psi)]
	Not
	Applicable
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection 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

Turbo charger - manufacturer	Not
Super charger - manufacturer	Applicable
Charge cooler	

\*Finished State

Ø 1988 Format Change

**MVMA Specifications Form****METRIC (U.S. Customary)**Vehicle Line **CAMARO**  
Model Year **1988** Issued **6-87** Revised (●) \_\_\_\_\_Engine Description/Carb.  
Engine Code5.0 Liter V8 (305 CID)  
(Tuned Port Fuel Injection)  
RPO LB9**Engine - Valve System**

Hydraulic lifters (std., opt., NA)	Standard
Valves	Number intake / exhaust
	Head O.D. intake / exhaust

8/8  
46.74 (1.84), 38.10 (1.50)**Engine - Connecting Rods**

Material & mass [kg., (weight, lbs.)]*	SAE 1037 or 1038 Steel/.388 (0.85)
--	------------------------------------

**Engine - Crankshaft**

Material & mass [kg., (weight, lbs.)]*	Nodular Cast Iron/23.360 (51.50)
End thrust taken by bearing (no.)	5
<input checked="" type="checkbox"/> Length & number of main bearings	5
Seal (material, one, two piece design, etc.)	Front
	Rear

Fluoroelastomer, one-piece, lip seal  
Fluoroelastomer, one-piece, lip seal**Engine - Lubrication System**

Normal oil pressure [kPa (psi) at engine rpm]	345-450 (50-65) @ 2000 with Auto. Trans., *
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full-flow
Capacity of c/case, less filter-refill-L (qt.)	4.5 (5.0)

**Engine - Diesel Information**

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type
	Opening pressure [kPa (psi)]
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection 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**

Turbo charger - manufacturer	Not
Super charger - manufacturer	Applicable
Charge cooler	--

\*Finished State

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\* 485-585 (70-85) @ 2000 with Manual Transmission

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (350 CID)  
Tuned Port Fuel Injection (TPI)  
RPO L98

## Engine - Valve System

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

## Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	1037 or 1038 Steel - .388 (0.855)
--	-----------------------------------

## Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]*	Nodular Cast Iron - 23.360 (51.5)
End thrust taken by bearing (no.)	5
<input checked="" type="checkbox"/> Length & number of main bearings	5
Seal (material, one, two piece design, etc.)	Front
	Rear
Fluoroelastomer, one-piece, lip seal	
Fluoroelastomer, one-piece, lip seal	

## Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	485-585 (70-85) @ 2000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full-flow (including engine oil cooler)
Capacity of c/case, less filter-refill-L (qt.)	4.5 (5.0)

## Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0°F	
Injector nozzle	Type
	Opening pressure [kPa (psi)]
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection 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

Turbo charger - manufacturer	Not
Super charger - manufacturer	Applicable
Charge cooler	--

\*Finished State

☒ 1988 Format Change

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) 9-87

Engine Description/Carb.  
Engine Code

2.8 Liter V6 (173 CID)  
(2.8 Multi-Port FI)  
RPO LB8

## 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 at °C (°F)	91°C (195°F)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	15.5
	Number of pumps	One
	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.)	12.18 (12.87) Auto, 12.28 (12.98) Man.
	With air cond.-L.(qt.)	12.20 (12.89) Auto, 12.10 (12.79) Man.
	Opt. equipment [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	Aut
	Type (cross-flow, etc.)	Cross-flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube
	Material, mass (kg (wgt. lbs.))	Aluminum, high efficiency radiator
	Width	599.5 599.5
	Height	437.8 437.8
	Thickness	23.5 23.5
	Fins per inch @	4.0 3.0
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 crankshaft rev.)	Not available
	Fan cutout type	ECM controlled
	Drive type (direct, remote)	--
	RPM at idle (elec.)	--
	Motor rating (wattage) (elec.)	150
	Motor switch (type & location) (elec.)	Part ECM
	Switch point (temp., pressure) (elec.)	1900-2100
	Fan shroud (material)	Plastic

@ - Distance between top of fins.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) 9-87

Engine Description/Carb.  
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)	
Circulation thermostat	Type (choke, bypass)	Choke
	Starts to open at °C (°F)	90.6°C (195°F)
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	14 (Total cooling system flow)
	Number of pumps	One
	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.)	15.52 (16.40)
	With air cond.-L.(qt.)	15.90 (16.80)
	Opt. equipment (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	Std.   A/C or HD   AC & HD
	Type (cross-flow, etc.)	Cross flow
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube
	Material, mass [kg (wgt. lbs.)]	Aluminum, high efficiency radiator
	Width	667.5   667.5
	Height	437.8   437.8
	Thickness	23.5   23.5
Radiator end tank material	①	*   2.5
	Plastic	
Fan	Std., elec., opt.	Std.   Opt.
	Number of blades & type (flex, solid, material)	5, Plastic, solid   5, Plastic, solid
	Diameter & projected width	423.0 (16.7)   423.0 (16.7)
	Ratio (fan to crankshaft rev.)	Not Applicable
	Fan cutout type	ECM controlled
	Drive type (direct, remote)	--
	RPM at idle (elec.)	--
	Motor rating (wattage) (elec.)	150
	Motor switch (type & location) (elec.)	Temp switch engine cylinder head
	Switch point (temp., pressure) (elec.)	1900-2100
	Fan shroud (material)	Plastic

① - Distance between top of fins.

\* - 4.0 with manual trans.

3.5 with auto. trans.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO

Model Year 1988 Issued 6-87 Revised (e) 9-87

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
Tuned Port Fuel Injection  
RPO LB9

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)	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at °C (°F)	90.6°C (195°F)	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	12 (Total cooling system flow)	
	Number of pumps	One	
	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.)	16.78 (17.7)	
	With air cond.—L(qt.)	16.28 (17.2)	
	Opt. equipment [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	
	Material, mass [kg (wgt, lbs.)]	Aluminum, high efficiency radiator	
	Width	667.5	
	Height	437.8	
	Thickness	34.0	
	Fins per inch @	2.5	
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Standard   A/C	
	Number of blades & type (flex, solid, material)	5, plastic, solid	
	Diameter & projected width	423.0 (16.7) - 2 fans   318.0 (12.5) - 2 fans	
	Ratio (fan to crankshaft rev.)	Not Applicable	
	Fan cutout type	ECM controlled	
	Drive type (direct, remote)	--	
	RPM at idle (elec.)	--	
	Motor rating (wattage) (elec.)	150 RT & LT	
	Motor switch (type & location) (elec.)	Temp. switch engine cylinder head	
	Switch point (temp., pressure) (elec.)	2100-2200 RT & LT	
Fan shroud (material)	Plastic	Plastic	

@ - Distance between top of fins.

\* - 21.36mm (0.84") wide, 5.20mm (0.20") thick with uniform dynamic tensioner.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.8 Liter V6 (173 CID)  
(2.8 Multi-Port FI)  
RPO LB8

## Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		Rochester Products
Carburetor	Choke (type)	None
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual
		Automatic
Idle A/F mix.		Preset - no adjustment provided
Fuel injection	Point of injection (no.)	Fuel injectors at inlet ports
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	ECM
	System pressure [kPa (psi)]	300 (45)
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water
Air cleaner type	Standard	Dual Elements
	Optional	--
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Fuel Tank
	Pressure range [kPa (psi)]	350 (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
	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	"
	Selector switch or valve	"
	Separate fill	"



**MVMA Specifications Form**Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_**METRIC (U.S. Customary)**Engine Description/Carb.  
Engine Code5.0 Liter V8 (305 CID)  
(Electronic Fuel Injection)  
RPO L03**Engine - Fuel System** (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			Fuel Injection
Manufacturer			Rochester Products
Carburetor	Choke (type)		None
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	"
			"
		Automatic	"
Idle A/F mix.			Preset - no adjustment provided
Fuel injection	Point of injection (no.)		Fuel Injection at Inlet Ports
	Constant, pulse, flow		Pulse
	Control (electronic, mech.)		ECM
	System pressure (kPa (psi))		
Intake manifold heat control (exhaust or water thermostatic or fixed)			Not Applicable
Air cleaner type	Standard		Replaceable element, single snorkel
	Optional		None
Fuel pump	Type (elec. or mech.)		Electric
	Location (eng., tank)		In fuel tank
	Pressure range (kPa (psi))		14.5-31.0 (2.1-4.5)

**Fuel Tank**

Capacity (refill L (gallons))		58.7 (15.5)
Location (describe)		Rear center
Attachment		Underbody strap
Material & Mass (kg (weight lbs))		Steel 8.765 (19.3)
Filler pipe	Location & material	Left rear quarter
	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.	"
	Capacity (L (gallons))	"
	Location & material	"
	Attachment	"
	Selector switch or valve	"
	Separate fill	"

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
(Tuned Port Fuel Injection)  
RPO LB9

## Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection	
Manufacturer		Bosch	
Carburetor	Choke (type)	None	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	"
			"
		Automatic	"
Idle A/F mix.		Preset - no adjustment provided	
Fuel injection	Point of injection (no.)	Fuel Injection at inlet ports	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	ECM	
	System pressure [kPa (psi)]	300 (44)	
Intake manifold heat control (exhaust or water thermostatic or fixed)		Not Applicable	
Air cleaner type	Standard	Replaceable dual elements	
	Optional	--	
Fuel pump	Type (elec. or mech.)	Electric	
	Location (eng., tank)	Fuel Tank	
	Pressure range [kPa (psi)]	350 (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
	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.	"
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Selector switch or valve	"
	Separate fill	"

**MVMA Specifications Form****METRIC (U.S. Customary)**Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_Engine Description/Carb.  
Engine Code5.7 Liter V8 (350 CID)  
Tuned Port Fuel Injection (TPI)  
RPO L98**Engine - Fuel System** (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			TPI - Tuned Port Fuel Injection
Manufacturer			Bosch
Carburetor	Choke (type)		None
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	"
			"
		Automatic	"
Idle A/F mix.			Preset - no adjustment provided
Fuel injection	Point of injection (no.)		Fuel injectors at inlet ports
	Constant, pulse, flow		Pulse
	Control (electronic, mech.)		Electronic - on board computer
	System pressure [kPa (psi)]		255 (37)
Intake manifold heat control (exhaust or water thermostatic or fixed)			Water, thermostat
Air cleaner type	Standard		Replaceable paper dual element
	Optional		--
Fuel pump	Type (elec. or mech.)		Electric
	Location (eng., tank)		In fuel tank
	Pressure range [kPa (psi)]		350 (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
	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.	"
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Selector switch or valve	"
	Separate fill	"

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.8 Liter V6 (173 CID)  
(2.8 Multi Port FI)  
RPO LB8

## Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Computer Command Control
	Air Injection	Pump or pulse	Pump - manual transmission only
		Driven by	Belt
		Air distribution (head, manifold, etc.)	Exhaust Manifold
		Point of entry	Exhaust Manifold
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Back Pressure Modulated Controlled Flow
		Exhaust source	Manifold Exhaust Crossover
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold
	Catalytic Converter	Type	Single Bed, Oxidizing & Reducing
		Number of	One
Location(s)		Beneath RF underbody	
Volume [L (in <sup>3</sup> )]		2.78 (170)	
Substrate type		Monolith	
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 inlet (breather cap, other)		Air Inlet Duct
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	--
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

## Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single with dual tailpipes
**	Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]	One, Reverse flow
	Resonator no. & type	*(See below)
**	Exhaust pipe	@(See below)
	Branch o.d., wall thickness	Stainless Steel
	Main o.d., wall thickness	63.5 X 1.58 (2.5 X 0.06)
**	Material & Mass [kg (weight lbs)]	Aluminum coated steel
	o.d. & wall thickness	57.15 x 1.09 (2.25 x 0.04)
**	Intermediate pipe	Aluminum coated steel
	Material & Mass [kg (weight lbs)]	Aluminum coated steel
**	Tail pipe	Aluminum coated steel
	Material & Mass [kg (weight lbs)]	Aluminum coated steel 3.231 (7.1)

\* Outer Pipe 57.15X1.02 (2.25 x 0.04), Inner Pipe 50.08x0.086 (2.0x.003)\*  
(2.5 (0.1) air gap between pipes).

@ Outer Pipe 63.5x1.02 (2.5x0.04), Inner Pipe 57.15x0.086 (2.25x0.003)  
(2.15 (0.08) air gap between pipes).

\*\* Muffler & Tail Pipe Unit 7.620 (16.8)

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
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 with Computer Command Control
	Air Injection	Pump or pulse	Vane Pump
		Driven by	V-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 exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold
	Catalytic Converter	Type	Dual Bed, Oxidizing & Reducing
		Number of	One
		Location(s)	Beneath RF underbody
		Volume [L (in³)]	2.786 (170)
Substrate type		Monolith	
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 inlet (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)]		One, Reverse flow
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	(a)
	Main o.d., wall thickness	(b)
	Material & Mass [kg (weight lbs)]	(See Notes) 5.069 (11.2)
* Intermediate pipe	o.d. & wall thickness	57.15 x 1.14 (2.25) x .045)
	Material & Mass [kg (weight lbs)]	Aluminum coated steel
* Tail pipe	o.d. & wall thickness	63.5 x 1.07 (2.5 x 0.042)
	Material & Mass [kg (weight lbs)]	Aluminum coated steel

SEE ATTACHED NOTES

NOTES:

- (a) Left hand branch - Stainless steel; outer 57.15 x 1.02 (2.25 x 0.04), inner 50.8 x 0.86 (2.0 x 0.003) with 2.155 (0.085) air gap between pipes.  
Right hand branch - Laminated; stainless steel outer tube, 50.8 x 0.86 (2.0 x 0.003), with steel inner tube.
- (b) Stainless steel; outer 63.5 x 1.02 (2.5 x 0.04), inner 57.15 x 0.86 (2.25 x 0.003) with 2.155 (0.085) air gap between pipes).
- \* Muffler & tail pipe unit 8.732 (19.3)

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
(Tuned Port Fuel Injection)  
RPO LB9

5.7 Liter V8 (350 CID)  
(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 exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold	
	Catalytic Converter	Type	Dual bed, Oxidizing & Reducing	
		Number of	One	
		Location(s)	Beneath RF underbody	
		Volume [L (in <sup>3</sup> )]	2.78 (170)	
		Substrate type	Monolith	
	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

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)]	One, Reverse flow	
	Resonator no. & type	
* Exhaust pipe	None	
	Branch o.d., wall thickness	
	(a)	
* Intermediate pipe	Main o.d., wall thickness	
	(b)	
	Material & Mass [kg (weight lbs)]	
* Tail pipe	(See Notes) 6.124 (13.5)	
	o.d. & wall thickness	
	69.85 x 1.40 (2.75 x 0.05)	
* Tail pipe	Material & Mass [kg (weight lbs)]	
	Aluminum coated steel	
	o.d. & wall thickness	
* Tail pipe	63.5 x 1.07 (2.25 x .04)	
	Material & Mass [kg (weight lbs)]	
	Aluminum coated steel	

(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.

\* Muffler & tail pipe unit 8.845 (19.5).

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.8 Liter V6 (173 CID)  
Multi-Port FI  
RPO LB8

## ☒ 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
Automatic overdrive (manufacturer/country)	Optional

## ☒ Manual Transmission/Transaxle (MBI)

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

## ☒ Clutch (Manual Transmission)

Clutch manufacturer		Belleville
Clutch type (dry, wet; single, multiple disc)		Dry disc
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	130n
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N (lbs)		5750 (1293)
Clutch facing	Facing mfr. & material coding	Valeo/F202
	Facing material & construction	Non-Asbestos
	Rivets per facing	16
	Outside x inside dia. (nominal)	232.0 x 155.0 (9.125 x 6.125)
	Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )]	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 (0.0433)
	Engagement cushion method	Driven plate wave spoke springs

Torsional damping method, springs, hysteresis Coil springs with non-metal friction control

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

## ☒ 1988 Format Change



# MVMA Specifications Form

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) \_\_\_\_\_

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

Engine Description/Carb.  
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
Automatic overdrive (manufacturer/country)	Optional

## ☒ Manual Transmission/Transaxle (M39)

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

## ☒ Clutch (Manual Transmission)

Clutch manufacturer		Belleville
Clutch type (dry, wet; single, multiple disc)		Dry disc
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	150n
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N (lbs)		7750 (1742)
Clutch facing	Facing mfr. & material coding	Valeo/F202
	Facing material & construction	Non-asbestos
	Rivets per facing	18
	Outside x inside dia. (nominal)	254.0 x 165.0 (10.0 x 6.5)
	Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )]	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 (0.0433)
	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.

## ☒ 1988 Format Change

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
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
Automatic overdrive (manufacturer/country)	Optional

## ☐ Manual Transmission/Transaxle (M39) (MK6)

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

## ☐ Clutch (Manual Transmission)

Clutch manufacturer		Belleville
Clutch type (dry, wet; single, multiple disc)		Dry disc
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	150n
	Released	
Assist (spring, power/percent, nominal)		None
Type pressure plate springs		Diaphragm
Total spring load (nominal, new) N (lbs)		7750 (1742)
Clutch facing	Facing mfr. & material coding	Valeo/F202
	Facing material & construction	Non-asbestos
	Rivets per facing	18
	Outside x inside dia. (nominal)	267.0 x 165.0 (10.5 x 6.5)
	Total eff. area (cm <sup>2</sup> (in. <sup>2</sup> ))	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 (0.0433)
	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.

## ☐ 1988 Format Change

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) 9-87

Engine Description/Carb.  
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
Automatic overdrive (manufacturer/country)	Standard

## ☒ Manual Transmission/Transaxle

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	Not Available
	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)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		
Linkage (hydraulic, cable, rod, lever, other)		Not Available
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal, new) N (lbs)		
Clutch facing	Facing mfg. & material coding	
	Facing material & construction	
	Rivets per facing	
	Outside x inside dia. (nominal)	
	Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )]	
	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.

## ☒ 1988 Format Change

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

2.8 Liter V6 (173 CID)  
(2.8 Multi Port FI)  
RPO LB8

## Automatic Transmission/Transaxle

Trade name	4-Speed Automatic
Type and special features (describe)	Torque converter with clutch 700-R4
Selector	Location On floor console
	Ltr./No. designation P-R-N- D -D-2-1
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 2.35
	Type of cooling (air, liquid) Liquid
	Nominal diameter 245 (9.65)
Lubricant	Capacity [refill L (pt.)] 4.5L (9.5 pts.)
	Type Recommended GM Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)	Standard, integral with radiator
<input checked="" type="checkbox"/> Transmission case material & mass kg (lbs)*	Aluminum 71.7 (158.1)

\* Torque converter clutch in 3rd & 4th gears.

## Axle or Front Wheel Drive Unit

Type (front, rear)	Rear
Description	Semi-floating axle, overhung hypoid drive pinion and ring gear
Limited slip differential (type)	Not Available
Drive pinion offset	1.50
Drive pinion (type)	Hypoid gear
No. of differential pinions	Two
Pinion / differential (shim, other)	Shim
Pinion / differential (shim, other)	Collapsible Sleeve
Driving wheel bearing (type)	Roller bearing
	Capacity [L (pt.)] 1.66
	Type recommended GL-5 Gear Lubricant
Lubricant	SAE viscosity number
	Summer 80W or 80W-90 GL-5
	Winter 80W or 80W-90 GL-5
	Extreme cold 80W GL-5

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

Axle ratio (or overall top gear ratio)	3.42
No. of teeth	Pinion 41
	Ring gear or gear 12
Ring gear o.d.	194 (7.625)
Transaxle	Transfer gear ratio Not Applicable
	Final drive ratio " "

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

☒ 1988 Format Change

**MVMA Specifications Form****METRIC (U.S. Customary)**Vehicle Line CAMAROModel Year 1988Issued 6-86

Revised (e) \_\_\_\_\_

Engine Description/Carb.  
Engine Code5.0 Liter V8 (305 CID)  
(Electronic Fuel Injection)  
RPO L03**Automatic Transmission/Transaxle**

Trade name	4-speed Automatic
Type and special features (describe)	Torque converter with clutch 700-R4
Selector	Location On floor console
	Ltr./No. designation P-R-N- D -D-2-1
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=59(37), 2-3=113(70)
Max. kickdown speed - drive range [km/h (mph)]	3-2=106(66), 2-1=42 (26)
Min. overdrive speed [km/h (mph)]	58 (36)
Torque converter	Number of elements 3
	Max. ratio at stall 1.91
	Type of cooling (air, liquid) Liquid
	Nominal diameter 298 (11.75)
Lubricant	Capacity [refill L (pt.)] 4.5L (9.5 pts.)
	Type Recommended GM Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)	Standard integral with radiator
Transmission case material & mass kg (lbs)*	Aluminum 71.1 (158.1)

\*Torque converter clutch in 2nd, 3rd &amp; 4th gears.

**Axle or Front Wheel Drive Unit**

Type (front, rear)	Rear
Description	Semi-floating axle, overhung hypoid drive pinion and rear gear
Limited slip differential (type)	Not Available
Drive pinion offset	1.50
Drive pinion (type)	Hypoid gear
No. of differential pinions	Two
Pinion / differential (shim, other)	Shim
Pinion / differential (shim, other)	Collapsible Spacer
Driving wheel bearing (type)	Straight roller bearing
Lubricant	Capacity [L (pt.)] 1.66
	Type recommended GL-5 Gear Lubricant
	SAE viscosity number Summer 80W or 80W-90 GL-5
	Winter 80W or 80W-90 GL-5
	Extreme cold 80W GL-5

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

Manual Trans.      Auto. Trans.

Axle ratio (or overall top gear ratio)	3.08	2.73
No. of teeth	Pinion 40	41
	Ring gear or gear 13	15
Ring gear o.d.	194 (7.625)	194 (7.625)
Transaxle	Transfer gear ratio Not Applicable	
	Final drive ratio " "	

\* Includes shift linkage, lubricant, &amp; clutch housing. If other specify.

1988 Format Change

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-86 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
(Tuned Port Fuel Injection)  
RPO LB9

5.7 Liter V8 (350 CID)  
(Tuned Port Fuel Injection)  
RPO L98

## Automatic Transmission/Transaxle

Trade name	4-speed Automatic	
Type and special features (describe)	Torque converter with clutch 700-R4	
Selector	Location	On floor console
	Ltr./No. designation	P-R-N- D -D-2-1
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) 1-2=55(34), 2-3=105(65)
Max. kickdown speed - drive range [km/h (mph)]		3-2=116(72), 2-1=55(34) 3-2=88(55), 2-1=32(20)
Min. overdrive speed [km/h (mph)]		66 (41) 58 (36)
Torque converter	Number of elements	3
	Max. ratio at stall	2.15 1.91
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298 (11.75)
Lubricant	Capacity [refill L (pt.)]	4.5L (9.5 pts.)
	Type Recommended	GM Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)		Standard integral with radiator
Transmission case material & mass kg (lbs)*		Aluminum 71.1 (158.1)

\*Torque converter clutch in 2nd, 3rd, & 4th gears.

## Axle or Front Wheel Drive Unit

Type (front, rear)	Rear	
Description	Semi-floating axle, overhung hypoid drive pinion and rear gear	
Limited slip differential (type)	Cone clutch	
Drive pinion offset	1.50	
Drive pinion (type)	Hypoid gear	
No. of differential pinions	Two*, Four@	
Pinion / differential (shim, other)	Shim	
Pinion / differential (shim, other)	Collapsible spacer	
Driving wheel bearing (type)	Straight roller bearing*, tapered roller bearing @	
Lubricant	Capacity [L (pt.)]	1.66
	Type recommended	GL-5 Gear Lubricant
	SAE viscosity number	Summer 80W or 80W-90 GL-5
		Winter 80W or 80W-90 GL-5
		Extreme cold 80W GL-5

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

Axle ratio (or overall top gear ratio)						3.23	3.08	2.73	3.45
No. of teeth	Pinion		42	40	41	38			
	Ring gear or gear		13	13	15	11			
Ring gear o.d.			194 (7.625)					197 (7.75)	
Transaxle	Transfer gear ratio		Not Applicable						
	Final drive ratio		" "						

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

Ø 1988 Format Change

\* - 2.73 and 3.23 axles.  
@ - 3.27 and 3.45 axles.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-86 Revised (e) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

SPORT COUPE		IROC-Z	
2.8L V6 173CID	5.0L V8 305CID	5.0L V8 305CID	5.7L V8 350CID
PFI	4-Bbl. Carb.	PFI	PFI
RPO LB8	RPO LG4	RPO LB9	RPO L98

## Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube - Internal damper	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	Not Available	
	Manual 4-speed trans.	"	
	Manual 5-speed trans.	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)	None	
	Lubrication (fitting, prepack)	"	
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 44
		Rear	Saginaw 44
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear 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)		Torque Arm	
Torque taken through (torque tube, arms or springs)		Torque Arm	

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

\* - 70mm (2.75) dia. aluminum shaft replaces base steel shaft where necessary for weight reduction.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

All Models

## Suspension - General

Car leveling	Std./opt./n.a.	Not Available
	Type (air, hyd., etc.)	Not Available
	Manual/auto. controlled	Not Available
Provision for brake dip control		Front suspension geometry
Provision for accel. squat control		Rear suspension geometry
Provisions for car jacking		Jacking provisions on rocker panels
Shock absorber (front & rear)	Type	Direct, double acting, hydraulic (a)
	Make	Delco
	Piston diameter	54mm (2.125 in) front; 25 (1.0) rear
	Rod diameter	25mm (1.0 in) front; 13.49mm (0.53) rear
		(a) - Delco Bilstein rear shock absorbers on IROC-Z

## Suspension - Front

Type and description		Independent w/coil springs, modified MacPherson strut.	
Travel	Full jounce	75.0 mm (2.95 in)	
	Full rebound	104.0 mm (4.09 in)	
Spring	Type (coil, leaf, other) & material	Coil, Steel Alloy	
	Insulators (type & material)	Rubber (top)	
	Size (coil design height & i.d., bar length x dia.)	260 x 103.0; 2490 x 15 mm. base (10.2 x 4.06; 98 x 59 in)	
	Spring rate [N/mm (lb./in.)]	Sport Coupe 64.0 (365.0), IROC-Z 96.0 (548.0)	
	Rate at wheel [N/mm (lb./in.)]	Sport Coupe 17.7 (101.0), IROC-Z 25.6 (146.0)	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	Steel 30 mm (1.2 in)	Steel 34mm (1.3 in) IROC-Z

## Suspension - Rear

Type and description		Salisbury axle w/torque arm, ICA, track bar, coil springs	
Travel	Full jounce	87.0 mm (3.4)	
	Full rebound	118.0 mm (4.6)	
Spring	Type (coil, leaf, other) & material	Coil-Steel Alloy	
	Size (length x width, coil design height & i.d., bar length & dia.)	254.0 x 102.6; 2709 x 12.0 (10 x 4.03; 27.9 x .472 in)	
	Spring rate [N/mm (lb./in.)]	18.0 (103.0) Spt. Cpe. IROZ-Z 23.0 (131.5)	
	Rate at wheel [N/mm (lb./in.)]	22.7 (130.0) Spt. Cpe. IROZ-Z 29.0 (165.4)	
	Insulators (type & material)	Rubber isolated	
	If leaf	No. of leaves	Not Applicable
		Shackle (comp. or tens.)	"
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	18 mm (007 in) Spt. Cpe	IROZ-Z - 23 mm (0.9 in)
Track bar (type)		"U" section w/rubber bushings	



# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO/FIREBIRD  
Model Year 1988 Issued 2/1/88 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

## Brakes - Service

Description			FRONT & REAR DISC BRAKES (H.D. W/PROC. RPO 1LE)	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		DISC	
	Rear (disc or drum)		DISC	
Valving type (proportion, delay, metering, other)			REMOTE PROPORTIONING FRONT/REAR SPLIT	
Power brake (std., opt., n.a.)			STD	
Booster type (remote, integral, vac., hyd., etc.)			200mm (7.87 in.) TANDEM VACUUM	
Vacuum	Source (inline, pump, etc.)		ENGINE	
	Reservoir (volume in. <sup>3</sup> ) and source		N/A	
	Pump-type (elec, gear driven, belt driven)		N/A	
Traction control	Operational speed range		N/A	
	Type engine intervention (electronic, mech.)		N/A	
Anti-lock device	Front/rear (std., opt., n.a.)		N/A	
	Manufacturer		N/A	
	Type (electronic, mech.)		N/A	
	Number sensors or circuits		N/A	
	Number anti-lock hydraulic circuits		N/A	
	Integral or add-on system		N/A	
	Yaw control (yes, no)		N/A	
	Hydraulic power source (elect., vac. mtr., pwr. strg.)		N/A	
Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]*			717 cm <sup>2</sup> (111.1 in. <sup>2</sup> )	
Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)			792 cm <sup>2</sup> (122.9 in. <sup>2</sup> )	
Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)			2980.74 cm <sup>2</sup> (462.02 in. <sup>2</sup> )	
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 mm (0.79 in.)
	Material & type (vented/solid)	F/R	CAST IRON VENTED	
Drum	Diameter & width	F/R	N/A	
	Type and material	F/R	N/A	
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 (rivets/seg.)	INTEGRALLY MOLDED	
		Rivet size	N/A	
		Manufacturer	JAPAN BRAKE INDUSTRIES	
		Lining code*****	CP26	
		Material	SEMI METALLIC	
		*** Primary or out-board	53.2 cm <sup>2</sup> X 9.5 mm (8.25 in. <sup>2</sup> X .37 in.) AREA X THICKNESS	
		Size Secondary or in-board	53.2 cm <sup>2</sup> X 9.5 mm (8.25 in. <sup>2</sup> X .37 in.) AREA X THICKNESS	
		Shoe thickness (no lining)	IB 6.0 mm (.24 in.) OB 6.0 mm (.24 in.)	
	Rear wheel	Bonded or riveted (rivets/seg.)	INTEGRALLY MOLDED	
		Manufacturer	JAPAN BRAKE INDUSTRIES	
		Lining code*****	HB33	
		Material	SEMI METALLIC	
		*** Primary or out-board	28.4 cm <sup>2</sup> X 8.2 mm (4.4 in. <sup>2</sup> X .32 in.) AREA X THICKNESS	
		Size Secondary or in-board	28.4 cm <sup>2</sup> X 8.2 mm (4.4 in. <sup>2</sup> X .32 in.) AREA X THICKNESS	
	Shoe thickness (no lining)	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 circumference.)  
(Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

\*\*\*\*Size for drum brakes includes length x width x thickness. \*\*\*\*\*Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

SPORT COUPE

IROC-Z

## Brakes - Service

Description			Single caliper disc front, duo-servo drum rear disc optional front/rear		
Manufacturer and brake type (std., opt., n.a.)		Front (disc or drum)	Disc		
		Rear (disc or drum)	Drum; disc optional for IROC-Z		
Self-adjusting (std., opt., n.a.)			Standard		
Special valving	Type (proportion, delay, metering, other)		Remote metering and proportioning, front/rear split		
Power brake (std., opt., n.a.)			Standard		
Booster type (remote, integral, vac., hyd., etc.)			200 mm (7.87 in) Tandem Vacuum		
Vacuum source (inline, pump, etc.)			Engine		
Vacuum reservoir (volume in. <sup>3</sup> )			None		
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			"		
Anti-lock device type (std., opt., n.a.) (F/R)			Not Available		
Effective area (cm <sup>2</sup> (in. <sup>2</sup> ))*			615.5 (95.4) total		
Gross lining area (cm <sup>2</sup> (in. <sup>2</sup> ))* (F/R)			691.6 (107.2) total		
Swept area (cm <sup>2</sup> (in. <sup>2</sup> ))* (F/R)			1985.1 (307.7) total		
Rotor	Outerworking diameter	F/R	F/267 mm (10.5), R/267 mm (10.5)		
	Inner working diameter	F/R	F/171.5 mm (6.75), R/171.5 mm (6.75)		
	Thickness	F/R	F/26.2 mm (1.03), R/26.2 mm (1.03)		
	Material & type (vented/solid)	F/R	Cast iron, vented F/R		
Drum	Diameter & width	F/R	241.0 mm (9.5), 50.8 mm (2.0)		
	Type and material	F/R	Cast iron finned (aluminum for selected applications)		
Wheel cylinder bore		F/R	F/64 mm (2.5); R/19 mm (0.75) drum; 48.0 mm (1.9) disc		
Master cylinder	Bore/stroke	F/R	Bore: 24.0 mm (0.94) disc/drum; 25.4 mm (1.0) disc/disc		
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 (rivets/seg.)		Riveted; 8	
		Rivet size		5.33 x 7.92 (.210 x .312)	
		Manufacturer		Delco Moraine	
		Lining code*****		DM8034	
		Material		Semi-metallic	
		****	Primary or out-board	125.0 x 48.4 x 11.04 mm (4.92 x 1.91 x 0.435)	
		Size	Secondary or in-board	125.0 x 48.4 x 10.55 mm (4.92 x 1.91 x 0.415)	
		Shoe thickness (no lining)			OB/3.42 mm (0.135); IB 4.85 mm (0.191)
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted 10 primary, 12 secondary drum; riveted, 8-disc	
		Manufacturer		Inland Delco Moraine	
		Lining Code*****		IN 4035/4050 DM 5470	
		Material		Non-asbestos	
		****	Primary or out-board	192.5 x 50.8 x 4.98mm (7.58 x 2.0 x 0.196) / (a)	
		Size	Secondary or in-board	249.6 x 50.8 x 6.75mm (9.83 x 2.0 x 0.266) / (b)	
		Shoe thickness (no lining)			Drum 1.98mm(0.078);disc OB/3.42mm(0.135) IB/4.85mm(0.191)
					(a) 125.0 x 48.4 x 11.04mm (4.92 x 1.91 x 0.435)
				(b) 125.0 x 48.4 x 10.55 (4.92 x 1.91 x 0.415)	

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

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

\*\*\*Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)  
(Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

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

\*\*\*\*\*Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) A

Body Type And/Or  
Engine Displacement

SPORT COUPE

IROC-Z

## Tires And Wheels (Standard)

Tires	Size (load range, ply)		P215/65R-15BL (+)	
	Type (bias, radial, steel, nylon, etc.)		Steel belted radials (Eagle GT)	
	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 (45 mph)		498	
Wheels	Type & material		Cast aluminum	
	Rim (size & flange type)		15 x 7	
	Wheel offset		8.0 (.315)	
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	120.7 (4.75)	
Number & size		5-M12 x 1.5 - 6H-thd. (metric)		
Spare	Tire and wheel (same size, if other describe)		(a) 15x4'T125/70D15,Bias ply, Nylon(Temp type)415(60) (b) 15x5;P195/75D/14,Bias Ply, Nylon(Inflatable)240(35)	
	Storage position & location (describe)		Vertically adjacent to R.H. quarter panel	

\* Directional Tread. (+) - Non "All Season" tires.

## Tires And Wheels (Optional)

Tire size (load range, ply)		P245/50VR16 BL * (+)
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: 20
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel (size)		
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

## Brakes - Parking

Type of control		Grip handle control
Location of control		Right side of floor console
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

(a) Use with base 15" wheels. (b) Use with optional 16" wheels.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) 9-87

Body Type And/Or  
Engine Displacement

SPORT COUPE

IROC-Z

## Steering

Manual (std., opt., n.a.)				Not Available		
Power (std., opt., n.a.)				Standard		
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt-universal jointed strg. shaft @ base of strg. whl. 6 pos				
	Manufacturer	Saginaw Steering Gear				
	(Std., opt., n.a.)	Optional				
Wheel diameter** (W9) SAE J1100	Manual	Not Available				
	Power	368 mm (14.5 in)				
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	11.91 (39.1)		12.02m (39.4)	
		Curb to curb (l. & r.)	11.47 (37.6)			
	Inside 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, linkage, etc.)		Coaxial			
	Manufacturer		Saginaw Steering Gear Div. G.M.C.			
	Gear	Type	Semi-reversible recirculating ball			
		Ratios	Gear	14:1	12.7:1	
			Overall	15.4:1	14:1	
	Pump (drive)		Belt			
No. wheel turns (stop to stop)		2.72	2.26			
Linkage	Type		Parallelogram			
	Location (front or rear of wheels, other)		Front			
	Tie rods (one or two)		Two			
Steering axis	Inclination at camber (deg.)		Not Available			
	Bearings (type)	Upper	Ball stud			
		Lower	Ball stud			
		Thrust	None			
Steering spindle & joint type		Steering knuckle with spherical joints				
Wheel spindle/hub	Diameter	Inner bearing	31.73-31.74 (1.2493-1.2498)			
		Outer bearing	21.04-21.42 (0.83-0.84)			
	Thread (size)		3/4-20 UNEF-3A (modified)			
	Bearing (type)		Tapered roller			

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

\*\*See Page 21.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

SPORT COUPE

IROC-Z

## Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+5° +/- .5°	+3.5° +/- .5°
		Camber (deg.)	+1° +/- .5°	
		Toe-in [outside track-mm (in.)]	+1.15° +/- .5°	
	Service reset*	Caster	+5° +/- 0.5°	+3.5° +/- .5°
		Camber	+1° +/- 0.5°	
		Toe-in	+1.15 +/- .05°	
	Periodic M.V. inspection	Caster	+5° +/- .5°	+3.5° +/- .5°
		Camber	+1° +/- .5°	
		Toe-in	+1.15° +/- .5°	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Applicable	
		Toe-in [outside track-mm (in.)]	"	
	Service reset*	Camber	"	
		Toe-in	"	
	Periodic M.V. inspection	Camber	"	
		Toe-in	"	

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

## Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Round dial, pointer 0-115 mph (a)(b)
	Trip odometer (std., opt., n.a.)	Standard
EGR maintenance indicator		Not Available
Charge indicator	Type	Electric gage
	Warning device (light, audible)	Not Available
Temperature indicator	Type	Electric gage
	Warning device (light, audible)	Not Available
Oil pressure indicator	Type	Electric gage
	Warning device (light, audible)	Not Available
Fuel indicator	Type	Electric gauge with pointer
	Warning device (light, audible)	Not Available
Windshield wiper	Type (standard)	Two speed-manual control-fluidic (wet arm)
	Type (optional)	Intermittent
	Blade length	454 mm (18 inches)
	Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]	5792 (898.0)
Windshield washer	Type (standard)	Manual control
	Type (optional)	Not Available
	Fluid level indicator (light, audible)	" "
Rear window wiper, wiper/washer (std., opt., n.a.)		" "
Horn	Type	Vibrator
	Number used	Two
Other		Tachometer standard (Round dial, pointer) Upshift telltale

(a) Metric conversions included.

(b) 0-145 speed for IROC-Z with LB9 or L98 V8.

**MVMA Specifications Form****METRIC (U.S. Customary)**Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_Engine Description/Carb.  
Engine Code2.8 Liter V6 (173 CID)  
(2.8 Multi Port FI)  
RPO LB8**Electrical – Supply System**

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525 (a), 75-570 (b)
	Voltage	12 Volts
	Amps at 0°F cold crank	525 (a), 570 (b)
	Minutes-reserve capacity	(a) 90 minutes, (b) 90 minutes
	Amp/hrs. - 20 hr. rate	--
Alternator	Location	Engine compartment right front
	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	(c, d)
	Ratio (alt. crank/rev.)	2.75:1
	Output at idle (rpm, park)	
Regulator	Optional (type & rating)	None
	Type	Micro circuit units, integral with alternator

**Electrical – Starting System**

Start, motor	Current drain at 0°F	235 @ -20°F
Motor drive	Engagement type	Positive shift solenoid
	Pinion engages from (front, rear)	Rear

**Electrical – Ignition System**

Type	Electronic (std., opt., n.a.)	--
	Other (specify)	Computer controlled coil ignition (C <sup>3</sup> I)
Coil	Make	Delco Remy
	Model	Separate
	Current	Engine stopped - A 0
		Engine idling - A 5.5 max.
Spark plug	Make	AC
	Model	R42 CTS
	Thread (mm)	M14 x 1.25 SAE
	Tightening torque (N-m (lb, ft))	9-20 (7-15)
	Gap	1.143 (.045)
	Number per cylinder	One
Distributor	Make	Not Applicable
	Model	--

**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.
------------------	---

**Ø 1988 Format Change**

- (a) - Standard battery
- (b) - With H.D. option UA1
- (c) - 85 amp with heater, 30 amp at idle.
- (d) - 100 amp with air conditioning, 36 amp at idle.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
(Electronic Fuel Injection)  
RPO L03

## Electrical - Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	70-525 (a), 75-570 (b)
	Voltage	12 Volts
	Amps at 0°F cold crank	525 (a), 570 (b)
	Minutes-reserve capacity	75 (a), 90 (b)
	Amp/hrs. - 20 hr. rate	--
	Location	Engine compartment right front
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	(a, b)
	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

Start, motor	Current drain at 0°F	305 @ - 20°F (c)
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	Make	Delco Remy
	Model	Integral with distributor
	Current	Engine stopped - A
		0.5
	Engine idling - A	1.0
Spark plug	Make	AC
	Model	R45TS
	Thread (mm)	M14 x 1.25 SAF
	Tightening torque (N-m (lb. ft))	9-20 (7-15)
	Gap	0.89 (0.035")
	Number per cylinder	One
Distributor	Make	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.
------------------	---

## 1988 Format Change

- (a) - 85 amp (+C41), 30 amp at idle.
- (b) - 100 amp (+C60/C67), 36 amp at idle.
- (c) - First five seconds of engine cranking at -20°F.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (•) \_\_\_\_\_

Engine Description/Carb.  
Engine Code

5.0 Liter V8 (305 CID)  
(Tuned Port Fuel Injection)  
RPO LB9

5.7 Liter V8 (350 CID)  
(Tuned Port Fuel Injection)  
RPO L98

## Electrical - Supply System

Battery	Manufacturer	Delco Remy	
	Model, std., (opt.)	70-525 (a), 75-570 (b)	75-630
	Voltage	12 Volts	
	Amps at 0°F cold crank	525 (a), 570 (b)	630
	Minutes-reserve capacity	75 (a), 90 (b)	90
	Amp/hrs. - 20 hr. rate	--	
	Location	Engine compartment right front	
Alternator	Manufacturer	Delco Remy	
	Rating (idle/max. rpm)	105 amp (42 amp at idle)	
	Ratio (alt. crank/rev.)	3.14:1	
	Output at idle (rpm, park)		
Regulator	Optional (type & rating)	None	
	Type	Micro circuit units, integral with alternator	

## Electrical - Starting System

Start, motor	Current drain at 0°F	305 @ - 20°F
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	Make	Delco Remy
	Model	Remote mounted
	Current	Engine stopped - A
		0.5
Spark plug	Current	Engine idling - A
		1.0
	Make	AC
	Model	R43TS
	Thread (mm)	M14 x 1.25 SAE
	Tightening torque (N-m (lb. ft))	9-20 (7-15)
Distributor	Gap	0.89 (0.035")
	Number per cylinder	One
Distributor	Make	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.
------------------	---

## 1988 Format Change

- (a) - Standard battery.
- (b) - With H.D. option UA1.



# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Body Type

SPORT COUPE AND IROC-Z

## 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 facia, honeycomb absorber and heavy gauge reinforcement used front and rear. GM 5 mph protection.
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)		Lacquer or enamel (base coat/clear coat)
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Gas strut assist
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	Convertible only
	Internal release control (elec., mech., n.a.)	Convertible only. Mechanical release
Hatch-back lid	Type (counterbalance, other)	Dual gas struts - electric final closure standard.
	Internal release control (elec., mech., n.a.)	Electric release optional
Tailgate	Type (drop, lift, door)	
	Internal release control (elec., mech., n.a.)	
Convertible	Tonneau cover	Counterbalanced. Electric release
	Folding top	Manual standard. No power option
Vent window control (crank, friction, pivot, power)	Front	Not Available
	Rear	Not Available
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Bucket molded foam pad
	Rear	Bucket molded foam pad
	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	--

☒ 1988 Format Change

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

Vehicle Line CAMARO  
 Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

Body Type

SPORT COUPE AND IROC-Z

**Restraint System**

Active restraint system	Standard/optional	Standard
	Type and description	3-point shoulder/lap belts - front; lap belts - rear
	Location	2-front, 2-rear
Passive seat belts	Standard/optional	Not Available
	Power/manual	--
	2 or 3 point	--
	Knee bar/lap belt	--

**Frame**

Type and description (separate frame, unitized frame, partially-unitized frame)	Full integral body frame, includes bolted on front suspension crossmember.
---	--

Glass	SAE Ref. No.	Coupe	Convertible
Windshield glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]	S1	9000.4 (1395.0)	
Side glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )] - total 2-sides	S2	6519.8 (1010.6)	
Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]	S3	6232.0 ( 966.0)	3844.1 (595.8)
Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]	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

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

Vehicle Line CAMARO  
 Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Body Type

SPORT COUPE AND IROC-Z

**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 (NA convertible)
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	"
	Keyless entry	"
	Trip/indicator (avg. spd., fuel)	"
	Voice alert (list items)	"
	Other	"
		--
Fuel door lock (remote, key, electric)		Not Available
Lamps	Auto head on / off delay, dimming	Not Available
	Cornering	Not Available
	Courtesy (map, reading)	Included in optional lamp group (under dash)
	Door lock, ignition	Not Available
	Engine compartment	Included in optional lamp group
	Fog	Standard IROC-Z, NA Sport Coupe
	Glove compartment	Standard (compartment in floor console)
	Trunk	Included in optional lamp group
	Other	Not Available
Mirrors	Day/night (auto. man.)	Manual standard
	L.H. (remote, power, heated)	Remote standard, power optional
	R. H. (convex, remote, power, heated)	Manual standard, power optional. Both convex
	Visor vanity (RH / LH, illuminated)	RH, non-illuminated NA Spt. Cpe Std. IROC-Z
Parking brake-auto release (warning light)		Hand release, warning light standard
Power equipment	Door locks / deck lid - specify	Opt.-Electric, door locks and rear hatch release (a)
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Standard - Reclining both front seats Optional 6-way power driver's seat
	Side windows	Optional
	Vent windows	Not Available
	Rear window	Not Available
		--
Radio systems	Antenna (location, whip, w/shield, power)	R.F. fender fixed mast standard, power optional
	AM, FM, stereo, tape, CB	AM/FM stereo std (b)
	Speaker (number, location) Premium sound	Four-two in inst. panel, two in roof sail panel (c)
Roof open air (fixed, flip-up, sliding, "T")		"T" type, optional
Speed control device		Cruise control, optional
Speed warning device (light, buzzer, etc.)		Not Available
Tachometer (rpm)		Standard
Telephone system - mobile		Not Available
Theft protection-type		Lock mounted on steering column; locks steering wheel, transmission shift lever and ignition.

(a) See Attached

- (a) Power final closure latch standard for both non-convertible models.
- (b) AM/FM stereo cass., AM stereo/FM stereo cass.w/equal. Opt, AM/FM stereo cass. with Bose and equalizer opt.
- (c) In quarter sidewalls for convt. two Bose speakers in load floor hinged panel (NA convt)

# MVMA Specifications Form

## 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.

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Body Type	SAE Ref. No.	SPORT COUPE	IROC-Z
<b>Width</b>			
Tread (front)	W101	1525 ( 60.0)	
Tread (rear)	W102	1548 ( 60.9)	
Vehicle width	W103	1850 ( 72.8)	
Body width at Sg RP (front)	W117	1830 ( 72.0)	
Vehicle width (front doors open)	W120	3939 (155.1)	
Vehicle width (rear doors open)	W121	--	
Front fender overall width	W106	1850 ( 72.8)	
Rear fender overall width	W107	1840 ( 72.4)	
Tumble-home (deg.)	W122	31.5°	

### Length

Wheelbase	L101	2566 (101.0)
Vehicle length	L103	4877 (192.0)
Overhang (front)	L104	1178 ( 46.4)
Overhang (rear)	L105	1133 ( 44.6)
Upper structure length	L123	2669 (105.1)
Rear wheel C/L "X" coordinate	L127	2138 ( 84.2)
Cowl point "X" coordinate	L125	108 ( 4.3)
Front end length at centerline	L126	--
Rear end length at centerline	L129	345 ( 13.6)

### Height\*

Passenger distribution (front/rear)	PD1.2.3	
Trunk/cargo load		
Vehicle height	H101	1279 ( 50.3)
Cowl point to ground	H114	904 ( 35.6)
Deck point to ground	H138	918 ( 36.1)
Rocker panel-front to ground	H112	201 ( 7.9)
Bottom of door closed-front to grd.	H133	362 ( 14.3)
Rocker panel-rear to ground	H111	197 ( 7.8)
Bottom of door closed-rear to grd.	H135	--
Windshield slope angle	H122	62.0°
Backlight slope angle	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 (degrees)	H106	12.2°
Angle of departure (degrees)	H107	18.8°
Ramp breakover angle (degrees)	H147	13.4°
Axle differential to ground (front / rear)	H153	182 ( 7.2)
Min. running ground clearance	H156	128 ( 5.1)
Location of min. run. grd. clear.		Front crossmember

\* All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight.

Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified.

All linear dimensions are in millimeters (inches) unless otherwise noted.

**MVMA Specifications Form****METRIC (U.S. Customary)****Vehicle Dimensions** See Key Sheets for definitionsVehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Body Type

SAE Ref. No.	SPORT COUPE	IROC-Z
--------------	-------------	--------

**Front Compartment**

Sg RP front, "X" coordinate	L31	1050 (41.3)
Effective head room	H61	940 (37.0) coupes, 942 (37.1) convertible
Max. eff. leg room (accelerator)	L34	1092 (43.0) coupes, 1089 (42.9) convertible
SgRP to heel point	H30	181 (7.1)
SgRP to heel point	L53	911 (35.9)
Back angle	L40	26.5
Hip angle	L42	98.0
Knee angle	L44	133.0
Foot angle	L46	87.0
Design H-point front travel	L17	192 (7.6)
Normal driving & riding seat track trvl.	L23	171 (6.7)
Shoulder room	W3	1460 (57.5) coupes, 1488 (58.6) convertible
Hip room	W5	1430 (56.3) coupes, 1342 (52.8) convertible
Upper body opening to ground	H50	--
Steering wheel maximum diameter*	W9	368 (14.5)
Steering wheel angle	H18	18.0
Accel. heel pt. to steer. whl. cntr	L11	Not Available
Accel. heel pt. to steer. whl. cntr	H17	" "
Steering wheel to C / L of thigh	H13	91 (3.6)
Steering wheel torso clearance	L7	360 (14.2)
Headlining to roof panel (front)	H37	12 (0.5)
Undepressed floor covering thickness	H67	16 (0.6)

**Rear Compartment**

Sg RP Point couple distance	L50	668 (26.3)
Effective head room	H63	905 (35.6) coupes, 918 (36.1) convertible
Min. effective leg room	L51	756 (29.8) coupes, 719 (28.3) convertible
Sg RP (second to heel)	H31	183 (7.2)
Knee clearance	L48	-15 (-0.6)
Compartment room	L3	582 (22.9)
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	L41	28.0°
Hip angle	L43	68.0
Knee angle	L45	66.5
Foot angle	L47	116.5
Headlining to roof panel (second)	H38	Not Available
Depressed floor covering thickness	H73	18 (0.7)

**Luggage Compartment**

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

**Interior Volumes (EPA Classification)**

Vehicle class (subcompact, compact, etc.)		Sub-Compact
Interior volume index (cu. ft.)		84.9
Trunk/cargo index (cu. ft.)		12.4

\* See page 14.

# MVMA Specifications Form

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Body Type

SAE Ref. No.	SPORT COUPE	IROC-Z
--------------	-------------	--------

## Station Wagon - Third Seat

Sg RP couple distance	L85	Not
Shoulder room	W85	Applicable
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

## Station Wagon - Cargo Space

Cargo length (open front)	L200	Not
Cargo length (open second)	L201	Applicable
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 [m <sup>3</sup> (ft. <sup>3</sup> )]	V2	
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	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 [m <sup>3</sup> (ft. <sup>3</sup> )]	V3	879 (31.0)
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	--
Cargo volume index-rear of 2-seat	V11	350 (12.4)

## Aerodynamics\*

Wheel lip to ground, front	H172	689 (27.1)
Wheel lip to ground, rear	H173	693 (27.3)
Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )]		1.99 (21.3)
Drag coefficient (Cd)		Not Available

\* EPA Loaded Vehicle Weight, Loading Conditions

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

Vehicle Line CAMARO  
 Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Body Type

SPORT COUPE

IROC-Z

**Vehicle Fiducial Marks**

Fiducial Mark Number*		Define Coordinate Location
Front		X - Fiducial mark to vertical base grid line - front measured horizontally, from the base grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.
		Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.
		Z - Fiducial mark to horizontal base grid line - front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear		X - Fiducial mark to vertical base grid line - rear, measured horizontally from the base grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).
		Y - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal).
		Z - Fiducial mark to horizontal base grid line - rear, measured vertically from the base grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).
Front	W21*	540 ( 21.3)
	L54*	688 ( 27.1)*
	H81*	-32 ( -1.3)#
	H161*	296 ( 11.7)
	H163*	284 ( 11.2)
Rear	W22*	548 ( 21.6)
	L55*	2815 (110.8)*
	H82*	96 ( 3.8)#
	H162*	417 ( 16.4)
	H164*	407 (16.0)
		* Vertical Base Grid 2000 mm Line. # Horizontal Base Grid 500 mm Line.

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



# MVMA Specifications Form

## METRIC (U.S. Customary)

Vehicle Line CAMARO  
 Model Year 1988 Issued 6-87 Revised (e) \_\_\_\_\_

Body Type

SPORT COUPE

IROC-Z

### Lamps and Headlamp Shape\*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	641 (25.2)
		Lowest	641 (25.2)
	Taillamp (SAE - H128)	Highest**	776 (30.5)
		Lowest	776 (30.5)
	Sidemarkers	Front	511 (20.1)
		Rear	706 (27.8)
Distance from C/L of car to center of bulb	Headlamp	Inside	487.5 (19.2)
		Outside**	667.5 (26.3)
	Taillamp	Inside	--
		Outside**	610.5 (24.0)
	Directional	Front	574.5 (22.6)
		Rear	481.0 (18.9)
Halogen headlamp (std., opt., n.a.)	Lo beam		Optional
	Hi beam		Optional
	Replaceable bulb		N.A. (sealed beam)
	Shape		Rectangular
Headlamp other than above	Lo beam		Conventional
	Hi beam		Conventional
	Replaceable		Entire sealed beam unit
	Shape		Rectangular
		Type	Four lamp system

\* Measured at curb mass (weight).

\*\* If single lamps are used enter here.

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

Vehicle Line **CAMARO**  
 Model Year **1988** Issued **6-87** Revised (e) \_\_\_\_\_

[illegible]

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

\*\* Shipping mass (weight) definition –

# MVMA Specifications Form

Vehicle Line CAMARO  
Model Year 1988 Issued 6-87 Revised (●) \_\_\_\_\_

**METRIC (U.S. Customary)**[illegible]

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

**METRIC (U.S. Customary)**Model Year 1988 Issued 6-87 Revised (•)

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

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

Model Year 1988 Issued 6-87 Revised (•) \_\_\_\_\_

Equipment		Optional Equipment Differential Mass (weight)*			
		MASS, kg. (weight, lb.)			
		Front	Rear	Total	Remarks
Power 4-Wheel Disc Brakes. RPO-J65		0 (0)	7.0 (15.4)	7.0 (15.4)	
Cruise Control-Three Mode with Resume Feature. (Available on Manual or Automatic Transmissions.) RPO-K34		2.4 (5.3)	0 (0)	2.4 (5.3)	All models except LB8
		2.0 (4.4)	0 (0)	2.0 (4.4)	With LB8
5.0 Liter V8 (305 CID) RPO-LB9		79.4 (175.1)	7.6 (16.7)	87.0 (191.8)	IROC-Z with M39
		67.6 (149.0)	6.8 (15.0)	74.4 (164.0)	IROC-Z with MD8
5.0 Liter V8 (305 CID) RPO-L03		73.8 (162.7)	2.4 (5.3)	76.2 (168.0)	Sport Coupe with M39
		54.4 (119.9)	1.8 (4.0)	56.2 (123.9)	Sport Coupe with MD8
5.7 Liter V8 (350 CID) RPO-L98		76.4 (168.4)	7.2 (15.9)	83.6 (184.3)	IROC-Z with MD8
5-Speed Manual Transmission RPO-M39		1.0 (2.2)	1.0 (2.2)	2.0 (4.4)	

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

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

Model Year 1988

Issued 6-87

Revised (●)

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

**METRIC (U.S. Customary)**Model Year 1988 Issued 6-87 Revised (●)

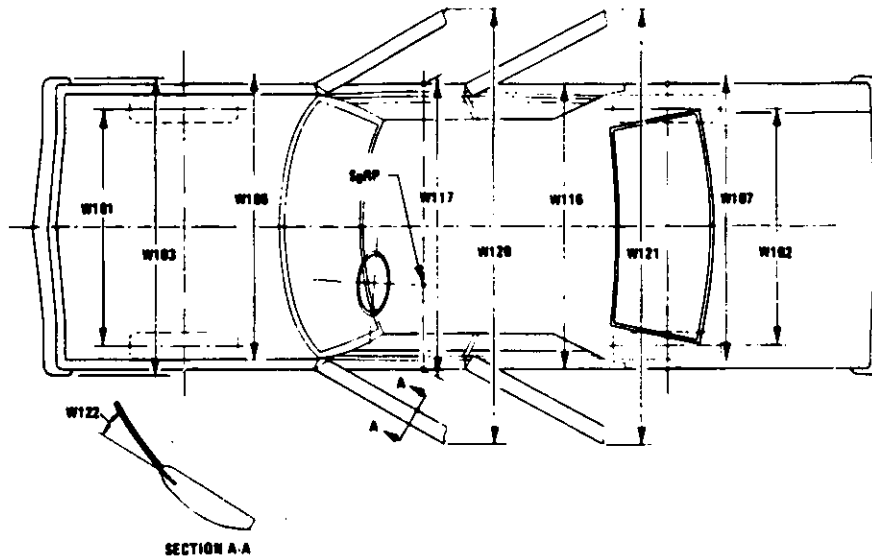
\*Also see Engine - General Section for dressed engine mass (weight).

# MVMA Specifications Form

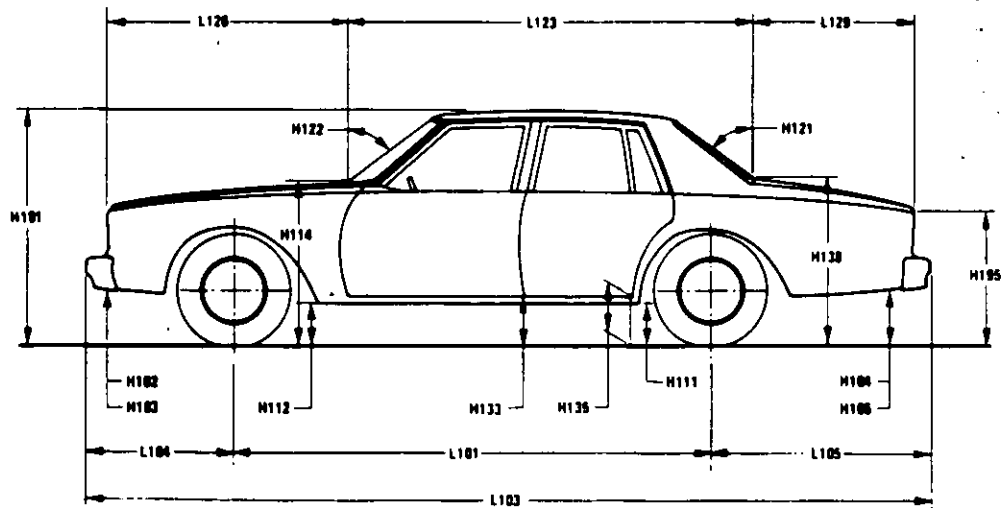
METRIC (U.S. Customary)

## Exterior Vehicle And Body Dimensions – Key Sheet

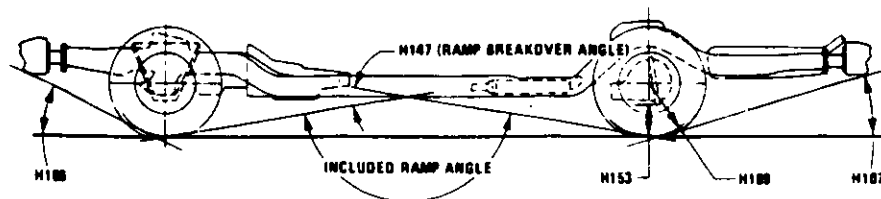
### Exterior Width



### Exterior Length & Height



### Exterior Ground Clearance

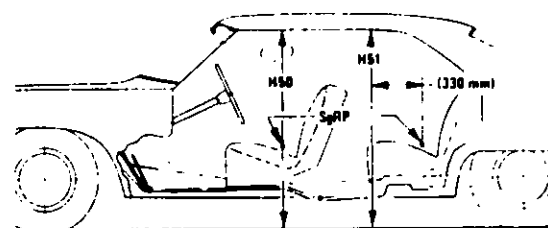
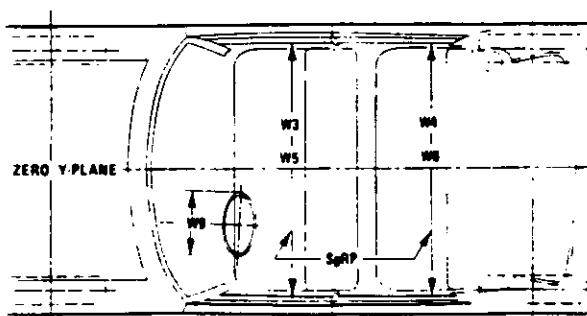
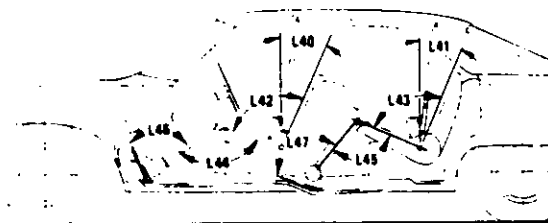
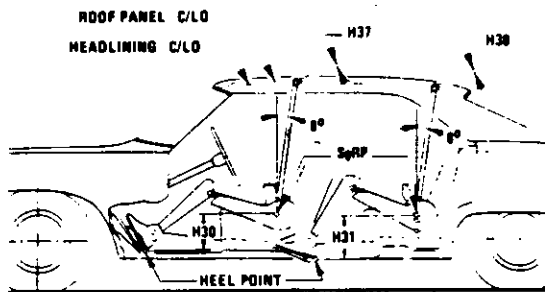
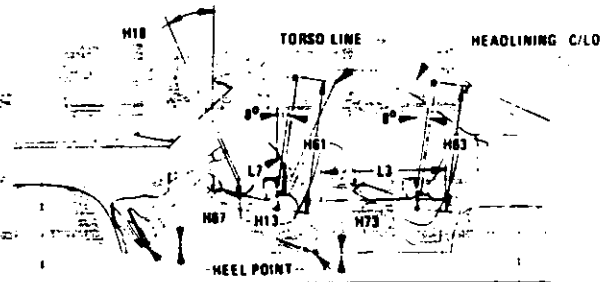
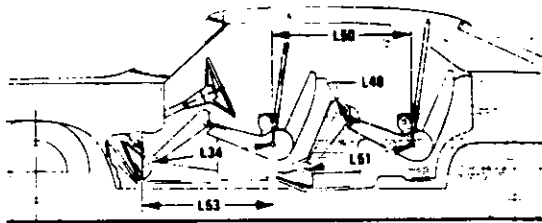




# MVMA Specifications Form

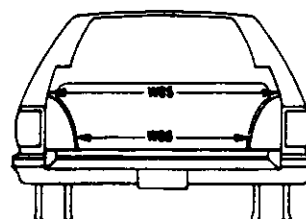
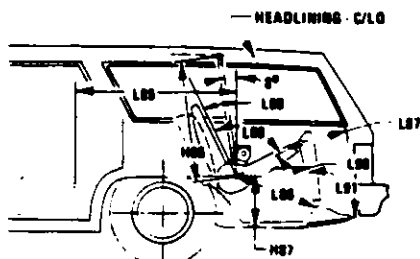
METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions – Key Sheet

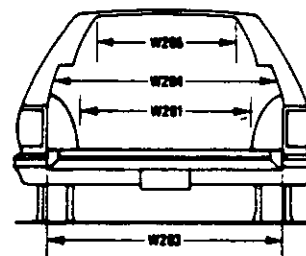


**METRIC (U.S. Customary)**

### Third Seat



Technical drawing of a car side profile with dimensions L200, L201, L202, L203, M201, M202, and M204.



**MVMA-C-88**

# MVMA Specifications Form

## 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.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- W117 BODY WIDTH AT SgRP–FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH–FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH–REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE–HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.  
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

#### Length Dimensions

- 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 OVERHANG–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.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- 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.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

#### 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.
- H127 HEADLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamp lens to ground.
- H128 TAILLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.
- H133 BOTTOM OF DOOR CLOSED–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED–REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- 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.

# MVMA Specifications Form

## METRIC (U.S. Customary)

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

- 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 of 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.

#### 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

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- 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 LEVEL. 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.
- L40 BACK ANGLE-FRONT. The angle measured between a vertical line through the SgRP-front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42 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.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 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.
- H37 HEADLINING TO ROOF PANEL-FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- 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.
- PD1 PASSENGER DISTRIBUTION-FRONT.

#### Rear Compartment Dimensions

- L3 COMPARTMENT ROOM-SECOND. The dimension measured horizontally from the back of the front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

# MVMA Specifications Form

## METRIC (U.S. Customary)

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

- 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 254mm (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.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- 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.
- PD2 PASSENGER DISTRIBUTION-SECOND.

#### 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.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

#### 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 51mm (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.
- PD3 PASSENGER DISTRIBUTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

#### Station Wagon - Cargo Space Dimensions

- L200 CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202 CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhouseings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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## METRIC (U.S. Customary)

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

- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2 STATION WAGON  
Measured in inches:

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

Measured in mm:

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

- 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.

- V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$

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 electrically 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 "Y" 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 seat back 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:

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

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