



MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1994

Manufacturer	CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Vehicle Line	LUMINA
Mailing Address	30007 VAN DYKE WARREN, MI 48090-9065	Issued	SEPTEMBER, 1993
		Revised	

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 American Automobile Manufacturers Association.

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.

MVMA

Motor Vehicle Manufacturers Association
of the United States, Inc.

Blank Forms Provided by Technical Affairs Division

MVMA Specifications

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) 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

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Vehicle Origin

Design & development (company)	G.M., Midsize Car Division
Where built (country)	Canada
Authorized U.S. Sales marketing representative	Chevrolet Motor Division

Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
LUMINA 4-Door Notchback Sedan (FWD)	1WL69	6 (3/3)		19/29
LUMINA EURO 2-Door Notchback Coupe (FWD)	1WN27	6 (3/3) 5 (2/3) Opt.		19/29
4-Door Notchback Sedan (FWD)	1WN69	6 (3/3) 5 (2/3) Opt.		19/29
LUMINA Z34 2-Door Notchback Coupe (FWD)	1WP27	5 (2/3)		17/26

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

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Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary) Power Teams

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

		A	B	C	D	
E N G I N E	Engine Code	LHO	LQ1			
	Displacement Liters (cu. in.)	3.1 (191)	3.4 (207)			
	Induction system (FI, Carb, etc.)	Multi-Port Fuel Injection	Sequential Fuel Injection			
	Compression ratio	8.89:1	9.25:1			
	SAE Net at RPM	Power kW(bhp)	104 (140) @ 4400	157 (210) @ 5200		
		Torque Newton meters (lb.ft.)	251 (185) @ 3200	291 (215) @ 4000		
Exhaust Single, dual		Single	Dual			
T R A N S	Transmission/ Transaxle	M13 Auto Transaxle 4-Speed	M13 Auto Transaxle 4-Speed			
	Effective Final Drive/Axle Ratio (std. first)	3.33	3.43			

Series Availability

Power Teams (A - B - C - D)

Model	Code	Standard	Optional
LUMINA			
4-Dr. Notchback Sedan	1WL69	A	-
LUMINA EURO			
2-Dr. Notchback Coupe	1WN27	A	-
4-Dr. Notchback Sedan	1WN69	A	-
LUMINA Z34			
2-Dr. Notchback Coupe	1WP27	B	-

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Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Engine Description
 Engine Code

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

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	60 deg. V, Front, Transverse, OHV	
Manufacturer	General Motors Powertrain Division	
No. of cylinders	6	
Bore	89mm (3.503)	
Stroke	84mm (3.307 in.)	
Bore spacing (C/L to C/L)	111.78mm (4.40 in.)	
Cyl blk matl & mass kg(lbs.)(machined)	Cast Iron, 53.12 (117)	
Cylinder block deck height	224.0mm (9.0 in.)	
Cylinder block length	435.5mm (17.4 in.)	
Deck clearance (minimum) (above or below block)	0.12 mm (.005 in.) Below Block, Nominal (+/- 0.24 mm)	
Cyl. head material & mass kg (lbs.)	Aluminum, 5.30 (11.7)	
Cylinder head volume cu. cm. (cu. in.)	28.0 (1.71)	
Cylinder liner material	Not Applicable	
Head gasket thickness (compressed)	1.62mm (.062 in.)	
Minimum combustion chamber total volume cu. cm. (cu. in.)	27.9 (1.70)	
Cyl. no. system (front to rear)*	L. Bank	2-4-6
	R. Bank	1-3-5
Firing order	1-2-3-4-5-6	
Intake manifold matl & mass kg(lbs.)**	Upper Manifold - Aluminum Alloy, 3.5 (7.9) Lower Manifold - Aluminum Alloy, 6.3 (13.8)	
Exh. manifold matl & mass kg (lbs.)**	Nodular Cast Iron, Wt. Of Manifold, Fire Wall Side 3.76 (8.283); Wt. Of Other Manifold, 2.63 (5.786)	
Knock sensor (number & location)	1, Below Exhaust Manifold, Firewall	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) / 2	87	
Engine mounts	Quantity	4
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	1-Hydraulic; 1-Elastomeric; 2-Torque Struts
	Added isolation (sub-frame, crossmember, etc.)	Isolated (Sub-frame) Supporting The Right & Left Hand Mounts
Total dressed engine mass (wt) dry***	152.41 kg. (336.0 lbs.)	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy, 365 (12.8)
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Engine Camshaft

Location	Cylinder Block	
Material & mass kg (weight, lbs.)	Cast Iron, 3.098 (6.83)	
Drive type	Chain/belt	Chain
	Width/pitch	15.875 x 9.525 mm (0.625 x 0.375 in.)

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

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.4 LITER V6 (207 CID)
 SEQUENTIAL FUEL INJECTION RPO LQ1

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	60 deg., V6, Front, Transverse, DOHC	
Manufacturer	General Motors Powertrain Division	
No. of cylinders	6	
Bore	92.029mm (3.623 in.)	
Stroke	84.0mm (3.307 in.)	
Bore spacing (C/L to C/L)	111.78mm (4.4 in.)	
Cyl. blk matl & mass kg(lbs.)(machined)	Cast Iron, 52.7 kg. (116.2 lbs.)	
Cylinder block deck height	224.0mm (8.82 in.)	
Cylinder block length	435.5mm (17.1 in.)	
Deck clearance (minimum) (above or below block)	0.28mm (.011 in.), Above Block, Nominal (+/- 0.24 mm)	
Cyl. head material & mass kg (lbs.)	Aluminum, 7.7 kg. (17.0 lbs.)	
Cylinder head volume cu. cm. (cu. in.)	52.5 (3.2)	
Cylinder liner material	Not Applicable	
Head gasket thickness (compressed)	1.6mm (0.063 in.)	
Minimum combustion chamber total volume cu. cm. (cu. in.)	67.7 (4.13)	
Cyl. no. system (front to rear)*	L. Bank	2-4-6
	R. Bank	1-3-5
Firing order	1-2-3-4-5-6	
Intake manifold matl & mass kg (lbs.)**	Upper - Aluminum Alloy, 7.9 (17.4); Lower - Aluminum Alloy, 3.2 (7.1)	
Exh. manifold matl & mass kg (lbs.)**	High Silicon Molybdenum Nod. Iron; 4.0 (8.82), Firewall side; 2.8 (6.17), Other	
Knock sensor (number & location)	1, Near Starter Motor Under Exhaust Manifold	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) / 2	87	
Engine mounts	Quantity	4
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	1 - Elastomeric; 2 - Hydraulic; 1 - Torque Strut
	Added isolation (sub-frame, crossmember, etc.)	Isolated (Sub-frame) Supporting The Right & Left Hand Mounts
Total dressed engine mass (wt) dry***	196.3 kg. (432.6 lbs.)	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy, 414 (14.6)
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Engine Camshaft

Location	(4) OHC In Carrier
Material & mass kg (weight, lbs.)	Cast Iron - Left Bank Intake And Exhaust, 4.54 (10.0)
	Cast Iron - Right Bank Intake And Exhaust, 4.31 (9.5)
Drive type	Chain/belt
	Belt And Chain
Width/pitch	Belt, 34.0/9.53 mm (1.34/0.375 in.) Chain, 19.05/9.53mm (0.750/0.375 in.)

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

**Finished state.

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

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Engine Description
 Engine Code

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

Engine - Valve System

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

6/6
 43.64 mm (1.72 in.) / 36.20 mm (1.43 in.)

Engine - Connecting Rods

Material & mass kg., (weight, lbs.) *	Forged Steel, .592 (1.31) Full Assembly.
Length(axis centerline to centerline)	144.78 mm (5.79 in.)

Engine - Crankshaft

Material & mass kg., (weight, lbs.) *	Nodular Cast Iron, 17.2 (37.9)
End thrust taken by bearing (no.)	3
Length & number of main bearings	** 4 Bearings
Seal (material, one, two piece design, etc.)	Front
	Rear

Viton/Steel, One Piece
 Viton/Steel, One Piece

Engine - Lubrication System

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

Engine - Diesel Information

(NOT APPLICABLE)

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

Engine - Intake System

(NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State

** Bearing Overall Length:

For 3.1L V6: #1, 4 = 29.5 mm (1.16 in.); #2, 3 = 24.0 mm (0.94 in.)

MVMA Specifications

Vehicle Line LUMINA
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METRIC (U.S. Customary)

Engine Description	3.4 LITER V6 (207 CID)
Engine Code	SEQUENTIAL FUEL INJECTION RPO LQ1

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard	
Valves	Number intake/exhaust	12/12
	Head O.D. intake/exhaust	36.5mm (1.44 in.) / 32.0mm (1.26 in.)

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged Steel, .592 (1.3)
Length (axes centerline to centerline)	144.78mm (5.7 in.)

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Nodular Cast Iron, 17.2 (37.9)	
End thrust taken by bearing (no.)	3	
Length & number of main bearings	** 4 Bearings	
Seal (material, one, two piece design, etc.)	Front	Viton/Steel, One Piece
	Rear	Viton/Steel, One Piece

Engine - Lubrication System

Normal oil pressure kPa (psi) @ eng rpm	275 (40) @ 2,000
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	With Optional Oil Cooler 4.73 (5.0), Without Filter

Engine - Diesel Information (NOT APPLICABLE)

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

Engine - Intake System (NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State

** Standard measurement for width only:
 #1, 4 = 29.5 mm (1.16 in.); #2, 3 = 24.0 mm (0.94 in.)

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Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

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

Engine - Cooling System

Coolant recovery system (std, opt, n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery	
Radiator cap relief valve pressure kPa (psi)		103.4 (15)	
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open @ deg's C(F)	90 (195)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	12	
	Number of pumps	1	
	Drive (V-belt, other)	Serpentine	
	Bearing type	Ball-Roller	
	Impeller material	Cast Iron	
Housing material		Aluminum	
By-pass recirculation type (inter., ext.)		External, Bypass	
Cooling system capacity	With heater - L (qt.)	A/C Is Standard	
	With air conditioner-L(qt.)	11.59 (12.2) - Includes 0.5L Reservoir Reserve	
	Opt. equip. specify-L(qt.)	Not Applicable	
Water jackets full length of cyl(yes,no)		No	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes,no)		Yes	
Radiator core	Std., A/C, HD	A/C Is Standard Equipment	
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)	High Efficiency Radiator (H.E.R.), Fin & Tube	
	Matl., mass kg (wgt., lbs.)	Aluminum, 3.22 (7.16)	
	Width	774.0 mm (30.5 in.)	
	Height	382.4mm (15.0 in.)	
	Thickness	16.0 mm (0.630 in.)	
Fins per inch, Constant		17, 2.5 mm	
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Electric	Electric
	Number of blades & type (flex, solid, material)	7 Blades, Solid, Plastic	7 Blades, Solid, Plastic
	Number & location (front, rear of radiator)	Rear	Rear
	Diameter & projected width	360mm (14.2 in.) Diameter	360mm (14.2 in.) Diameter
	Ratio(fan to crnshft.rev.)	Not Applicable	Not Applicable
	Fan cutout type	ECM Controlled	ECM Controlled
	Drive type (direct, remote)	Direct	Direct
	RPM at idle (elec.)	1800 Primary	1500 Secondary
	Motor rating(wattage)(elec)	150 W	100 W
	Motor switch (type & location/elec.)	Engine Mounted Coolant Temp. Sensor, A/C Liquid Line Press. Switch or Transducer	(Same)
	Switch point (temp./ pressure/elec.)	(See Below)	(See Below)
	Fan shroud (material)	Not Available	Not Available

PRIMARY FAN (LH)	<u>ON</u>	<u>OFF</u>	SECONDARY FAN (RH)	<u>ON</u>	<u>OFF</u>
A/C Head Pressure or	190 PSI	140 PSI	A/C Head Pressure or	240 PSI	190 PSI
Engine Coolant	223 deg. F.	216 deg. F.	Engine Coolant	235 deg. F.	228 deg. F.

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description

Engine Code

3.4 LITER V6 (207 CID)
 SEQUENTIAL FUEL INJECTION RPO LQ1

Engine - Cooling System

Coolant recovery system (std, opt, n.a.)		Standard	
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery	
Radiator cap relief valve pressure kPa (psi)		103.4 (15)	
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open @ deg's C(F)	90 (194)	
Water Pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	9.7	
	Number of pumps	1	
	Drive (V-belt, other)	Serpentine Poly V	
	Bearing type	Ball Roller	
	Impeller material	Cast Iron	
	Housing material	Aluminum	
By-pass recirculation type (inter., ext.)			
Cooling system capacity	With heater - L (qt.)	A/C Is Standard	
	With air conditioner-L(qt.)	11.04 (12.35) - Incl. 0.5L Reservoir Reserve	
	Opt. equip. specify-L(qt.)	Not Available	
Water jackets full length of cy(yes,no)		No	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes,no)		Yes	
Radiator core	Std., A/C, HD	A/C Is Standard Equipment	
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)	High Efficiency Radiator (H.E.R.), Fin & Tube	
	Matl. mass kg (wgt.,lbs.)	Aluminum, 5.46 (12.04)	
	Width	774 mm (30.5 in.)	
	Height	382mm (15.0 in.)	
	Thickness	34mm (1.3 in.)	
	Fins per inch, Constant	17, 3.0mm	
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Dual Electric Standard	
	Number of blades & type (flex, solid, material)	5 Blades, Solid, Plastic	5 Blades, Solid, Plastic
	Number & location (front, rear of radiator)	Two (Rear)	Two (Rear)
	Diameter & projected width	360.0 mm (14.2 in.) Diameter	360.0 mm (14.2 in.) Diameter
	Ratio(fan to crnkshft.rev.)	Not Applicable	Not Applicable
	Fan cutout type	ECM Controlled	ECM Controlled
	Drive type (direct, remote)	Direct	Direct
	RPM at idle (elec.)	2100 Primary	1500 Secondary
	Motor rating(wattage/elec.)	240 W	100 W
	Motor switch (type & location/elec.)	Engine Mounted Coolant Temp. Sensor, A/C Liquid Line Press. Switch Or Transducer	(Same)
	Switch point (temp.,/ pressure/elec.)	(See Below)	(See Below)
	Fan shroud (material)	Not Available	Not Available

PRIMARY FAN (LH)	ON	OFF	SECONDARY FAN (RH)	ON	OFF
A/C Head Pressure or	190 PSI	140 PSI	A/C Head Pressure or	240 PSI	190 PSI
Engine Coolant	223 deg. F.	216 deg. F.	Engine Coolant	235 deg. F.	228 deg. F.

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

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

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

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Preset-No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injectors At Inlet Ports
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic
	Sys. press. kPa (psi)	300 (43.5)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Not Applicable
	Automatic	600 In Drive
Intake manifold heat control (exhaust or water thermostatic or fixed)		Throttle Body Water Heat - No Induction Air Heat
Air cleaner type		Single Snorkel, Replaceable Paper Element
Fuel filter (type/location)		Replaceable Enclosed Paper Element Located Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electrical
	Location (eng., tank)	Fuel Tank
	Press. range kPa (psi)	Pressure Depends On Flow Rate And System Voltage
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	62.4 @ 350 (Figures For Wide Open Throttle) (16.51 @ 50.8)

Fuel Tank

Capacity refill L (gallons)		62.7 (16.5)
Location (describe)		Underbody, Forward Of Rear Axle
Attachment		Two Steel Straps W/Four Vertical Fasteners
Material & Mass kg (weight lbs.)		Stamped Steel Upper & Lower W/Perimeter Seam Weld; 9.634 (21.239)
Filler pipe	Location & material	Left Rear Quarter Panel
	Connection to tank	Flexible Hose
Fuel line (material)		Steel And Nylon
Fuel hose (material)		Nylon (No Coupled Hose)
Return line (material)		Steel And Nylon
Vapor line (material)		Steel And Nylon
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
	Sictr switch or valve	"
	Separate fill	"

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description 3.4 LITER V6 (207 CID)
Engine Code SEQUENTIAL FUEL INJECTION RPO LQ1

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

Induction type: carburetor, fuel injection system, etc.		Sequential Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Computer Controlled
Fuel Injection	Point of inj. (no.)	At Inlet Ports (6)
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic
	Sys. press. kPa (psi)	300 (43.5)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Computer Controlled
	Automatic	Computer Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		Throttle Body Water Heat; No Induction Air Heat
Air cleaner type		Single Snorkel, Replaceable Paper Element
Fuel filter (type/location)		Replaceable Enclosed Paper Element Located Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electrical
	Location (eng., tank)	Fuel Tank
	Press. range kPa (psi)	250 to 300 kPa
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	62.4 @ 350 (Figures For Wide Open Throttle) (16.51 @ 50.8)

Fuel Tank

Capacity refill L (gallons)		64.7 (17.1)
Location (describe)		Underbody, Forward Of Rear Axle
Attachment		Two Steel Straps W/Four Vertical Fasteners
Material & Mass kg (weight lbs.)		Stamped Steel Upper & Lower W/Perimeter Seam Weld; 9.634 (21.239)
Filler pipe	Location & material	Left Rear Quarter Panel
	Connection to tank	Flexible Hose
Fuel line (material)		Steel And Nylon
Fuel hose (material)		Nylon (No Coupled Hose)
Return line (material)		Steel And Nylon
Vapor line (material)		Steel And Nylon
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
	Sictr switch or valve	"
	Separate fill	"

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

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

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		--
	Air injection	Pump or pulse	Not Applicable
		Driven by	"
		Air distribution (head, manifold, etc.,)	"
		Point of entry	"
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	3 Sized Orifices Which Are Opened Or Closed Using Pintles, And Solenoids. 8 Flow Combination
		Exhaust source	
	Catalytic Converter	Point of exh.inj. (spacer, carb., manifold, other)	Plenum, Near Throttle Body
		Type	Bed Monolith (Dual)
		Number of	1
Location(s)		Mounted To Underbody	
Volume L (cu.in)		2.79 (170)	
Substrate type		Ceramic Monolith	
Noble metal type		Platinum (Pt), Rhodium (Rh)	
Crankcase Emission Control	Noble metal concentration (g/cu. cm.)		Federal: 0.000837; California: 0.000873
	Type (ventilates to atmosphere, induction system, other)		Closed Induction System
	Energy source (manifold vacuum, carburetor, other)		Plenum Vacuum
	Discharges to (intake manifold, other)		Discharges To Plenum
Evaporative Emission Control	Air inlt(breather cap, other)		Duct Between Air Cleaner And Throttle Body
	Vapor vented to (crankcase, canister, other)	Fuel tank	Fuel Tank To Canister To Throttle Body Port
		Carburetor	Not Applicable
Vapor storage provision		Canister	
Electronic System	Closed loop (yes/no)		Yes, Purge Solenoid Control
	Open loop (yes/no)		No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single W/Crossover
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.)		Reverse Flow
Resonator no. & type		88.9 mm O.D., Round Bottle, Straight Thru
Exhaust pipe	Branch o.d., wall thickness	--
	Main o.d., wall thickness	50.8 x 1.77 mm (2.0 x 0.070 in.)
	Matl. & Mass kg (wght.lbs.)	Laminated 409 Stainless Steel
Inter-mediate pipe	o.d. & wall thickness	50.8 x 1.07 mm (2.0 x .042 in.)
	Matl. & Mass kg (wght.lbs.)	409 Stainless Steel
Tail pipe	o.d. & wall thickness	50.8 x 1.07 mm (2.0 x .042 in.)
	Matl. & Mass kg (wght.lbs.)	409 Stainless Steel - Painted

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description

Engine Code

3.4 LITER V6 (207 CID)
 SEQUENTIAL FUEL INJECTION RPO LQ1

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		--
	Air injection	Pump or pulse	Not Available
		Driven by	"
		Air distribution (head, manifold, etc.,)	"
		Point of entry	"
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	3 Sized Orifices Which Are Opened Or Closed Using Pintles And Solenoids. 8 Flow Combination.
		Exhaust source Point of exh.inj. (spacer, carb., manifold, other)	Plenum Near Throttle Body
	Catalytic Converter	Type	Bed Monolith (Dual)
		Number of	1
		Location(s)	Mounted To Underbody
Volume L (cu.in)		1.80 (110)	
Substrate type		Ceramic	
Noble metal type		Platinum (Pt.), Rhodium (Rh)	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		Inlet Manifold
	Air inlt(breather cap, other)		Duct Between Air Cleaner And Throttle Body
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Fuel Tank To Canister To Manifold
		Carburetor	Not Applicable
	Vapor storage provision		Charcoal
Electronic System	Closed loop (yes/no)		Yes, Purge Solenoid Control
	Open loop (yes/no)		No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Dual, W/Crossover
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.)		Reverse Flow
Resonator no. & type		88.9 mm O.D., Round Bottle, Straight Thru
Exhaust pipe	Branch o.d., wall thickness	--
	Main o.d., wall thickness	63.5 x 1.77 mm (2.5 x 0.070 in.)
	Matl. & Mass kg (wght.lbs.)	Laminated 409 Stainless Steel
Inter-mediate pipe	o.d. & wall thickness	57.2 x 1.37 mm, Legs 50.8 x 1.37 mm
	Matl. & Mass kg (wght.lbs.)	409 Stainless Steel
Tail pipe	o.d. & wall thickness	57.2 x 1.37 mm, Tip 1.20 mm
	Matl. & Mass kg (wght.lbs.)	409 Stainless Steel Painted Stub, 304 Stainless Steel Tip

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

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

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

Manual 4-speed (manufacturer/country)	Not Available
Manual 5-speed (manufacturer/country)	"
Manual 6-speed (manufacturer/country)	"
Automatic (manufacturer/country)	"
Auto. overdrive (manufacturer/country)	Hydra-Matic, U.S. (M13)

Manual Transmission/Transaxle (NOT APPLICABLE)

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	6th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity L (put.)	
	Type recommended	

Clutch (Manual Transmission) (NOT APPLICABLE)

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

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Engine Description

3.4 LITER V6 (207 CID)

Engine Code

SEQUENTIAL FUEL INJECTION RPO LQ1

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

Manual 4-speed (manufacturer/country)	Not Available
Manual 5-speed (manufacturer/country)	"
Manual 6-speed (manufacturer/country)	"
Automatic (manufacturer/country)	"
Auto. overdrive (manufacturer/country)	Hydra-Matic/U.S.A. (M13)

Manual Transmission/Transaxle (NOT APPLICABLE)

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	6th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity L (pt.)	
	Type recommended	

Clutch (Manual Transmission) (NOT APPLICABLE)

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

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.1 LITER V6 (191 CID)
 MULTI-PORT FUEL INJECTION RPO LH0

Automatic Transmission/Transaxle

Trade Name		Hydra-Matic 4T60E (M13) Transaxle
Type and special features (describe)		4-Speed Automatic W/Torque Converter Clutch
Shift mechanics		Hydraulic Clutches/Electronic Controls
Gear selector	Location (column, floor, other)	Column & Floor (Mechanical)
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1
	Shift interlock (yes, no, describe)	Yes - Brake, Ignition Key
Gear ratios	1st	2.92
	2nd	1.57
	3rd	1.00
	4th	0.70
	5th	Not Applicable
	6th	"
	Reverse	2.38
Overall	Final drive ratio	3.33
Max. upshift vehicle speed - drive range km/h (mph)		1 - 2 = 66 (41) 2 - 3 = 119 (74) 3 - 4 = 163 (101)
Max. upshift engine speed RPM		5300
Max. kickdown speed - drive range km/h (mph)		3 - 2 = 100 (62) 2 - 1 = 48 (30)
Min. overdrive speed km/h (mph)		52 (32)
Torque converter	Type	Lock-Up
	Torus design	Yes
	Number of elements	3
	Max. ratio at stall	2.23
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 mm (9.65 in.)
Capacity factor %K ²		177
Pump type		Variable Displacement Vane
Lubricant	Capacity refill L (pt.)	12.7 (26.8), Dry Transmission
	Type recommended	Dexron IIE
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral With Radiator
Trans. mass kg (lbs) & case matl.**		81.0 (178.5), Cast Aluminum

All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

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

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

METRIC (U.S. Customary)

Engine Description	3.4 LITER V6 (207 CID)
Engine Code	SEQUENTIAL FUEL INJECTION RPO LQ1

Automatic Transmission/Transaxle

Trade Name		Hydra-Matic 4T60E (M13) Transaxle	
Type and special features (describe)		4-Speed Automatic W/ Torque Converter Clutch	
Shift mechanics		Hydraulic Clutches/Electronic Controls	
Gear selector	Location (column, floor, other)	Floor (Mechanical)	
	Ltr./No. designation (e.g. PRND21)	P-R-N- OD -D-2-1	
	Shift interlock (yes, no, describe)	Yes - Brake, Ignition Key	
Gear ratios	1st	2.92	
	2nd	1.57	
	3rd	1.00	
	4th	.70	
	5th	Not Applicable	
	6th	"	
	Reverse	2.38	
Overall	Final drive ratio	3.43	
Max. upshift vehicle speed - drive range km/h (mph)		1 - 2 = 71 (44)	3 - 4 = 171 (106)
		2 - 3 = 130 (81)	
Max. upshift engine speed RPM		6250	
Max. kickdown speed - drive range km/h (mph)		2 - 1 = 56 (35)	
		3 - 2 = 121 (75)	
Min. overdrive speed km/h (mph)		52 (32)	
Torque converter	Type	Lock-Up	
	Torus design	Yes	
	Number of elements	3	
	Max. ratio at stall	1.83, 2.23	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	245 mm (9.7 in.)	
Capacity factor "K"		180, 177	
Pump type		Variable Displacement Vane	
Lubricant	Capacity refill L (pt.)	12.7 (26.8), Dry Transmission	
	Type recommended	Dexron IIE	
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral With Radiator	
Trans. mass kg (lbs) & case mat.**		81.0 (178.50), Cast Aluminum	

All Wheel / 4 Wheel Drive (NOT APPLICABLE)

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

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

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

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage) AUTOMATIC TRANS (M13)

Effective final drive ratio (or overall top gear ratio)		3.33 (2.35)	
Trnsfr ratio and method(chain,gear,etc)		1.00 Chain	
Front drive unit	Ring gear o.d.	Not Applicable	
	No. of teeth	Pinion	"
		Ring gear	"

Front Drive Unit

Description (integral to trans., etc.)		Planetary Final Drive Integral With Transmission
Limited slip differential (type)		Not Applicable
Drive pinion	Type	"
	Offset	"
No. of differential pinions		2
Pinion/differential	Adjustment (shim, etc.)	Not Applicable
	Bearing adjustment	"
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	8.0 (16.9)
	Type recommended	Dexron II

Axle Shafts - Front Wheel Drive

Manufacturer and number used		2 Per Car	
Type (straight, solid bar, tubular, etc.)	Left	Straight Solid Bar	
	Right	Straight Solid Bar	
Outer diam. x length* x wall thickness	Manual transaxle	Left	Not Applicable
		Right	"
	Automatic transaxle	Left	--
		Right	--
	Optional transaxle	Left	27.06 x 326.0 mm (1.07 x 12.83 in.)
		Right	27.06 x 360.0 mm (1.07 x 14.17 in.)
Slip yoke	Type	--	
	Number of teeth	--	
	Spline o.d.	--	
Universal joints	Make and mfg. no.	Inner	Saginaw Division
		Outer	Saginaw Division
	Number used		4, 2 On Each Shaft
	Type, size, plunge	Inner	Tripot Joint, 27 Size 66 mm Plunge
		Outer	Rzeppa Joint; Fixed, 27 Size
	Attach (u-bolt, clamp, etc.)		Inboard Joint-Snap Ring, Outboard Joint (Nut/Washer-Clamping)
	Bearing	Type (plain, anti-friction)	Inboard Joint: Ball Bearing, Needle Roller Bearing (Anti-Friction Bearing) Outboard Joint: Ball Bearing
		Lubrication (fitting, prepack)	Prepacked
Drive taken through (torque tube, arms or springs)		Front Wheel Drive Shafts	
Torque taken through (torque tube, arms or springs)		Engine Mounting System	

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Engine Description 3.4 LITER V6 (207 CID)
 Engine Code SEQUENTIAL FUEL INJECTION RPO LQ1

Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage) AUTOMATIC TRANS (M13)

Effective final drive ratio (or overall top gear ratio)		3.43 (2.41)
Transfr ratio and method(chain,gear,etc)		
Front drive unit	Ring gear o.d.	
	No. of teeth	Pinion
		Ring gear

Front Drive Unit

Description (integral to trans., etc.)		Integral To Transmission
Limited slip differential (type)		Not Applicable
Drive pinion	Type	"
	Offset	"
No. of differential pinions		2
Pinion/differential	Adjustment (shim, etc.)	None
	Bearing adjustment	None
Driving wheel bearing (type)		Sealed Ball Bearing
Lubricant	Capacity L (pt.)	Part Of Automatic Transmission
	Type recommended	Automatic Transmission Fluid

Axle Shafts - Front Wheel Drive

Manufacturer and number used		Saginaw Division, 2		
Type (straight, solid bar, tubular, etc.)	Left	Straight, Solid Bar		
	Right	Straight, Solid Bar		
Outer diam. x length* x wall thickness	Manual transaxle	Left	Not Applicable	
		Right	"	
	Automatic transaxle	Left	27.1 x 326 mm (1.07 x 12.83 in.)	
		Right	27.1 x 360 mm (1.07 x 14.17 in.)	
	Optional transaxle	Left	Not Available	
		Right	"	
Slip yoke	Type	Not Applicable		
	Number of teeth	"		
	Spline o.d.	"		
Universal joints	Make and mfg. no.	Inner	Saginaw Division	
		Outer	Saginaw Division	
	Number used		Inboard & Outboard On Each Shaft Asm.	
	Type, size, plunge	Inner	Tripot - 27 Size 66mm Plunge	
		Outer	Rzeppa Joint, 27 Size Fixed Center	
	Attach (u-bolt, clamp, etc.)		Retaining Ring	
	Bearing	Type (plain, anti-friction)	Inner - Ball & Roller Outer - Ball	
		Lubrication (fitting, prepack)	Prepacked	
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm, Upper MacPherson Strut		
Torque taken through (torque tube, arms or springs)		Engine Mounting System		

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

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-92 Revised(*) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

COUPE / SEDAN (EXCEPT 3.4L ENGINE)

Suspension - General Including Electronic Controls

Car leveling	Std./opt./n.a.	Not Available	
	Manual/automatic control	"	
	Type (air/hydraulic)	"	
	Primary/assist spring	"	
	Rear only/4 wheel leveling	"	
	Single/dual rate spring	"	
	Single/dual ride heights	"	
	Provision for jacking	Body Rails, Under Rocker Panels; Jack Pad At Center Of Rear Crossmember	
Shock absorber damping controls	Standard/opt./n.a.	Not Available	
	Manual/automatic control	"	
	Number of damping rates	"	
	Type of actuation (manual/ electric motor/air, etc.)	"	
	s e n s o r s	Lateral acceleration	"
		Deceleration	"
Acceleration		"	
Road surface		"	
Shock absorber (front & rear)	Type	MacPherson Strut Front, Tubular Rear	
	Make	Delco Chassis Division	
	Piston diameter	35.0 mm (1.38 in.)	
	Rod diameter	25.0 mm (1.00 in.)	

Suspension - Front

Type and description		MacPherson Strut With Coil Springs, One-Piece "A" Configuration Lower Control Arms.
Travel	Full jounce (define load condition)	78 mm (3.07 in.)
	Full rebound	95mm (3.74 in.)
Spring	Type,(coil,leaf,other&matl)	Coil
	Insulators (type & matl)	Rubber
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Coil: 200.3 mm (7.89 in.); 173 mm (6.81 in.)
	Spring rate N/mm (lb./in.)	16.0 (91.4), Std. & "Soft" Eurosport (FE2); 19.5 (111.4), Eurosport (F41)
	Rate @ wheel N/mm (lb./in)	22.0 (125.6); 24.0 (137.1)
Stabilizer	Type (link,linkless,frmless)	Bar, Standard, All Applications
	Material & O.D. bar/tube, wall thickness	Steel, 30 mm (1.18 in.) - Solid

Suspension - Rear

Type and description		Tri-Link Independent With Transverse Leaf Spring, Tubular Struts, Large Lateral Links Attached To Body Cross Member, Trailing Arms
Travel	Full jounce (define load condition)	107 mm (4.21 in.)
	Full rebound	105 mm (4.13 in.)
Spring	Type(coil,leaf,other&matl)	Leaf, Fiberglass
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Size: Length, 1342 mm (52.8 in.) / Width, 70 mm (2.8 in.) @ Center, 100 mm (3.9 in.) @ Ends
	Spring rate N/mm (lb/in)	13.0 (74.2)
	Rate @ wheel N/mm (lb/in)	13.9 (79.4)
	Insulators(type & material)	Rubber
	if leaf	No. of leaves
Shackle(comp or tens)		--
Stabilizer	Type(link,linkless,frmless)	Link
	Material & O.D. bar/tube, wall thickness	Steel, No Bar For Base Suspension; 12 mm (.472 in.) Solid Bar For Eurosport Suspensions
Track bar (type)		Not Applicable

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
 Model Year 1994 Issued 9-92 Revised(*) _____

Model Code/Description And/Or
 Engine Code/Description

COUPE / SEDAN (3.4L DOHC ENGINE)

Suspension - General Including Electronic Controls

Car leveling	Std./opt./n.a.	Not Available	
	Manual/automatic control	"	
	Type (air/hydraulic)	"	
	Primary/assist spring	"	
	Rear only/4 wheel leveling	"	
	Single/dual rate spring	"	
	Single/dual ride heights	"	
Provision for jacking	Body Rails, Under Rocker Panels; Jack Pad At Center Of Rear Cross Member		
Shock absorber damping controls	Standard/opt./n.a.	Not Available	
	Manual/automatic control	"	
	Number of damping rates	"	
	Type of actuation (manual/ electric motor/air, etc.)	"	
	s s n s o r s	Lateral acceleration	"
		Deceleration	"
		Acceleration	"
Road surface		"	
Shock absorber (front & rear)	Type	MacPherson Strut Front, Tubular Rear	
	Make	Delco Chassis Division	
	Piston diameter	35.0 mm (1.38 in.)	
	Rod diameter	25.0 mm (1.00 in.)	

Suspension - Front

Type and description	MacPherson Strut With Coil Springs, One-Piece "A" Configuration Lower Control Arms.	
Travel	Full jounce (define load condition)	78 mm (3.07 in.)
	Full rebound	95 mm (3.74 in.)
Spring	Type,(coil,leaf,other&matl)	Coil
	Insulators (type & matl)	Rubber
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Coil: 200.3 mm (7.89 in.); 173 mm (6.81 in.)
	Spring rate N/mm (lb./in.)	23.5 (134.2)
	Rate @ wheel N/mm (lb./in.)	26.8 (153.0)
Stabilizer	Type (link,linkless,frmless)	Bar, Standard, All Applications
	Material & O.D. bar/tube, wall thickness	Steel, 34 mm (1.34 in.) - Hollow (Wall Thickness = 5.1 mm)

Suspension - Rear

Type and description	Tri-Link Independent With Transverse Leaf Spring, Tubular Struts, Large Lateral Links Attached To Body Cross Member, Trailing Arms	
Travel	Full jounce (define load condition)	107 mm (4.21 in.)
	Full rebound	105 mm (4.13 in.)
Spring	Type,(coil,leaf,other&matl)	Leaf, Fiberglass
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Size: Length, 1342 mm (52.8 in.) / Width, 70 mm (2.8 in.) @ Center, 100 mm (3.9 in.) @ Ends
	Spring rate N/mm (lb/in)	15.5 (88.5)
	Rate @ wheel N/mm (lb/in)	16.3 (93.1)
	Insulators(type & material)	Rubber
	If leaf	No. of leaves
Shackle(comp or tens)		--
Stabilizer	Type(link,linkless,frmless)	Link
	Material & O.D. bar/tube, wall thickness	Steel, 14 mm (0.551 in.) Solid
Track bar (type)	Not Applicable	

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

Model Code/Description And/Or
 Engine Code/Description
Brakes - Service

COUPE / SEDAN

Description		Dual Piston Caliper - Front Disc; Single Piston Caliper - Rear Disc	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc	
	Rear (disc or drum)	Disc	
Valving type(prop, delay, metering, other)		Proportioning	
Power brake (std., opt., n.a.)		Standard	
Booster type(rmt, intgr, vac., hyd., etc.)		Vacuum	
Vacuum	Source (inline, pump, etc.)	Inline	
	Reservoir (volume cu. in.)	Not Applicable	
	Pump-type	Not Applicable	
Traction assist	Operational speed range	Not Applicable	
	Type (engine or brake intervention)	"	
Antilock device	Front/rear (std., opt., n.a)	Std. - All Models Exc. Available On Base Sedan	
	Manufacturer	Delco Chassis Division, G.M.	
	Type (electronic, mech.)	Electronic	
	Number sensors or circuits	4	
	No. antilock hyd. circuits	4	
	Integral or add-on system	Add-On Mounted To Master Cylinder	
	Yaw control (yes, no)	Yes	
Hydraulic power source		Not Applicable	
Effective area sq. cm. (sq. in.) *		283.9 (44.0), 4 Wheels	
Gross Lng area sq cm (sq in) ** (F/R)		F: 167.7 (26.0); R: 116.1 (18.0)	
Swept area sq cm (sq in) *** (F/R)		F: 1090.9 (169.09); R: 926.4 (143.6)	
Rotor	Outer working diameter	F/R F: 267 mm (10.5 in.); R: 256.5 mm (10.1 in.)	
	Inner working diameter	F/R F: 167.0 mm (6.6 in.); R: 190.5 (7.5 in.)	
	Thickness	F/R F: 26.3 mm (1.04 in.); R: 12.5 mm (.492 in.)	
	Mati & type (vented/sld)	F/R F: Composite Vented; R: Composite Solid	
Drum	Diameter & width	F/R Not Applicable	
	Type and material	F/R "	
Wheel cylinder bore		F: 42.0 mm (1.65 in.) x 2; R: 35.0 mm (1.38 in.)	
Master cylinder	Bore/stroke	F/R Bore: 24.0 mm (.94 in.); Stroke: 35.5 mm (1.40 in.)	
Pedal arc ratio		3.5:1	
Line pressure at 445 N (100 lb.) pedal load kPa (psi)		13600 kPa (1972 psi)	
Lining clearance		F/R 0/0 mm	
Brake lining	Front wheel	Bonded or riveted	Integrally Molded
		Rivet size	--
		Manufacturer	Delco Chassis Division
		Lining code *****	DM127EE
		Material	Semi-Metallic
		**** Pri. or out-brd	119.4 x 38.1 mm/(4.7 x 1.5 in.)
		Size Sec. or in-brd	119.4 x 38.1 mm/(4.7 x 1.5 in.)
	Shoe thckns.(no lng)	4.98mm (.196 in.)	
	Rear wheel	Bonded or riveted	Integrally Molded
		Manufacturer	Delco Chassis Division
		Lining code *****	DM127EE
		Material	Semi-Metallic
		**** Pri. or out-brd	83.8 x 33.0 mm/(3.3 x 1.3 in.)
		Size Sec. or in-brd	102.9 x 33.0 mm/(4.05 x 1.3 in.)
Shoe thckns (no lng)		4.98mm (.196 in.)	

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

MVMA Specifications

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METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

COUPE / SEDAN

Tires And Wheels (Standard)

Tires	Size (service description)		P195/75R14-ALS BW
	Type (bias, radial, etc.)		Steel Belted Radial (2 Ply)
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	205 (30)
		Rear kPa (psi)	205 (30)
Rev/mile-at 70 km/h(45mph)		508	
Wheels	Type & material		Stamped Steel
	Rim (size & flange type)		14 x 5.5
	Wheel offset		39.5mm (1.56 in.)
	Attachment	Type (bolt or stud & nut)	Stud (M12 x 1.5)
Circle diameter		115mm (4.52 in.)	
Number & size		5 & M12	
Spare	Tire and wheel		Compact Spare T125/70D15 15 x 4 Wheel
	Storage position & location (describe)		Horizontal, Under Trunk Compartment Load Floor

Tires And Wheels (Optional)

Tire size (service description)	P205/70R15 - AL2 BL - Euro	P215/65R15 - Police
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial	Steel Belted Radial
Wheel (type & material)	Stamped Steel	Cast Aluminum
Rim (size, flange type and offset)	15 x 6 (42mm Offset)	15 x 6 (40 mm Offset)
Tire size (service description)	P205/70R15-AL2 BL - Euro	
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial	
Wheel (type & material)	Cast Aluminum	
Rim (size, flange type and offset)	15 x 6 (40 mm Offset)	
Tire size (service description)	P215/60R16 - AL2 BL - Euro	
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial	
Wheel (type & material)	Cast Aluminum	
Rim (size, flange type and offset)	16 x 6.5 (38mm Offset)	
Tire size (service description)	P225/60R16 - AL3 BL - Z34	
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial	
Wheel (type & material)	Cast Aluminum	
Rim (size, flange type and offset)	16 x 6.5 (38 mm 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		Multi-Stroke Foot Pedal Application, Hand Release
Location of control		Hand Release, Under Instrument Panel, Left Of Driver's Left Knee
Operates on		Rear Service Brakes
If separate from service brakes	Type(internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

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METRIC (U.S. Customary)

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COUPE / SEDAN

Steering

Manual (std., opt., n.a.)		Not Available		
Power (std., opt., n.a.)		Standard		
Speed-sensitive (std., opt., n.a.)		Not Available		
4-wheel steering (std., opt., n.a.)		Not Available		
Adjustable steering wheel/ column (tilt, telescope, other)	Type	Tilt		
	Manufacturer (std., opt., n.a.)	Saginaw Division Standard		
Wheel diameter ** (W9) SAE J1100	Manual	Not Available		
	Power	380.0 mm		
Turning diameter m (ft.)	Out-side front	Wall to wall (l. & r.)	Coupe: FE1 - 12.93 (42.42); F41/FE2 - 13.58 (44.55); FE3 - 13.60 (44.60) Sedan: FE1 - 12.91 (42.37); F41/FE3/FE2 - 13.56 (44.50)	
		Curb to curb (l. & r.)	FE1 - 11.2 (36.7); F41 - 11.88 (39.0); FE2 - 11.88 (39.0); FE3 - 11.88 (39.0)	
	In-side rear	Wall to wall (l. & r.)	Not Available	
		Curb to curb (l. & r.)	7.18 (23.6)	
Scrub Radius *		Base - 15.78mm; Touring - 16.39; Sport - 24.05		
Manual	Gear	Type	Not Available	
		Manufacturer	"	
	Ratios	Gear	"	
		Overall	"	
No. wheel turns(stop to stop)		"		
Power	Type (coaxial, elec. hyd., etc.)		Hydraulic	
	Manufacturer		Saginaw Division	
	Gear	Type	End Take-Off Rack And Pinion	
		Ratios	Gear	45.13 mm/Rev 49.9 mm/Rev 57.58 "C Factor" mm/Rev
			Overall	17.5:1 FE1 15.7:1 F41, 15.7:1 FE2 14:1 FE3
	Pump (drive)		Belt	
No. wheel turns(stop to stop)		3.05 FE1, 2.60 F41, 2.60 FE2, 2.26 FE3		
Linkage	Type		End Take-Off	
	Location (front or rear of wheels, other)		Rear	
	Tie Rods (one or two)		2	
Steering axis	Inclination at camber (deg.)		13.4	
	Bear-ings (type)	Upper	Ball Bearing	
		Lower	Ball Joint	
		Thrust	Not Applicable	
Steering spindle/knuckle & joint type		MacPherson Strut		

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

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METRIC (U.S. Customary)

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Model Code/Description And/Or
 Engine Model/Code

COUPE/SEDAN

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2.0 (+/-) .5
		Camber (deg.)	0.7 (+/-) .5
		Toe-in outside track - mm (in.)	0.0 (+/-) .1
	Service reset*	Caster (deg.)	Pre-set
		Camber (deg.)	0.7 (+/-) .5
		Toe-in - mm(in.)	0.0 (+/-) .1
Periodic M.V. in-spection	Caster (deg.)		
	Camber (deg.)		
	Toe-in - mm(in.)		
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	0.10 (+/-) 0.50
		Toe-in outside track - mm (in.)	-0.10 (+/-) 0.30 (Sum Toe)
	Service reset*	Camber (deg.)	0.10 (+/-) 0.50
		Toe-in - mm(in.)	-0.10 (+/-) 0.30 (Sum Toe)
	Periodic M.V. in-spection	Camber (deg.)	
		Toe-in - mm(in.)	

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

Electrical - Instruments and Equipment

Speed-ometer	Type (analog, digital, std., opt.)	Analog/Analog
	Trip odometer (std., opt., n.a.)	Not Available/Mechanical
Head-up display	Std., opt., not avail.	Not Available
	Type - Secondary, Opto-electronic	"
	Speedometer Digital	"
	Status/warn. indicators - Turn signals, high beam, low fuel, check gauges	"
	Brightness control Day/night mode, adj.	"
EGR maintenance indicator		"
Charge indicator	Type	Not Available/Analog
	Warning device (light, audible)	Tell-Tale Light
Temperature indicator	Type	Not Available/Analog
	Warning device	Tell-Tale Light
Oil pressure indicator	Type	Not Available
	Warning device	Tell-Tale Light
Fuel indicator	Type	Analog/Analog
	Warning device	Not Available
Wind-shield wiper	Type (standard)	Modular/Depressed Park/Pulse Wiper
	Type (optional)	Not Available
	Blade length	508 mm (20.0 in.)
	Swept area sq cm (sq in)	Coupe: 6692.0 (1037.3)/Sedan: 6742.7 (1045.1)
Wind-shield washer	Type (standard)	Wet-Arm System
	Type (optional)	Not Available
	Fluid level indicator	Not Available
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Available
Horn	Type	Vibrator
	Number used	2
Other	PRNDL	Mechanical/Mechanical
	Odometer	Mechanical/Mechanical
	Tachometer	Not Available/Analog

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METRIC (U.S. Customary)

Engine Code/Description

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

Electrical - Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	SAE 75-525 (1983655)
	Voltage	12
	Amps at 0 deg F cold crk	525
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	54
	Location	Engine Compartment
Alternator	Manufacturer	Delco Remy
	Rating(idle/max rpm drive)	36/100 Amps
	Ratio (alt. crank/rev.)	2.75
	Output at idle (rpm, park)	68 Amps W/AC
	Optional (type & rating)	None
Regulator	Type	Integral With Alternator

Electrical - Starting System

Motor	Manufacturer	Delco Remy
	Curr.dr. -29 (-20) deg C(F)	350 Amps
	Power rating kw (hp)	1.4 (1.9)
Motor drive	Engagement type	Solenoid Operated Shift Lever
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std, opt,n.a.)	Electronic Direct Ignition (Std.) - Control Module With Three Integral Coils And One Remote Timing Sensor (Calif. - Three Timing Sensors)	
	Other (specify)	--	
Coil	Manufacturer	Delco Remy	
	Model	1103759	
	Current	Engine stopped-A	Less Than 100 ma
		Engine idling - A	Less Than 1.5 Amp (Average)
Spark plug	Manufacturer	AC/Rochester Products	
	Model	R44LTSM	
	Thread (mm)	14 x 1.25	
	Tightening torque Newton meters (lb. ft.)	9-20 (7-15)	
	Gap	1.14mm (.045 in.)	
	Number per cylinder	1	
Distributor	Manufacturer	Not	
	Model	Applicable	

Electrical - Suppression

Locations & type	Alternator - Internal Capacitor Suppression Ignition - Internal Resistor/Capacitor Networks
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MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Engine Code/Description

3.4 LITER V6 (207 CID)
 SEQUENTIAL FUEL INJECTION RPO LQ1

Electrical - Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	Standard
	Voltage	12
	Amps at 0 deg F cold crnk	690 CCA
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	54
	Location	Engine Compartment
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	42/105 Amps
	Ratio (alt. crank/rev.)	2.52
	Output at idle (rpm, park)	66 Amps W/AC
	Optional (type & rating)	None
Regulator	Type	Integral With Alternator

Electrical - Starting System

Motor	Manufacturer	Delco Remy
	Curr.dr. -29 (-20) deg C (F)	395 Amps
	Power rating kw (hp)	1.6 (2.1)
Motor drive	Engagement type	Solenoid Operated Shift Lever
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Electronic Direct Ignition (Std.) - Control Module With Three Integral Coils And One Remote Timing Sensor	
	Other (specify)	---	
Coil	Manufacturer	Delco Remy	
	Model	1103792	
	Current	Engine stopped - A	Less Than 100 ma
		Engine idling - A	Less Than 1.5 Amp (Average)
Spark plug	Manufacturer	AC Rochester Division	
	Model	.R42LTSM	
	Thread (mm)	14 x 1.25	
	Tightening torque Newton meters (lb. ft.)	10 - 20 (7.38 - 14.75)	
	Gap	1.14 mm (.045 in.)	
	Number per cylinder	One	
Distributor	Manufacturer	Not Applicable	
	Model	"	

Electrical - Suppression

Locations & type	Alternator - Internal Capacitor Suppression Ignition - Internal Resistor/Capacitor Networks
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MVMA Specifications

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 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary)

Model Code/Description

COUPE / SEDAN

Body

Structure	Unitized Body - Frame. Body Side Assembly Includes Full Drawn Quarter Panels. Fully Stamped Inner/Outer Door Panels With Header Extending Into Roof. Full-Length Deck Lid Inner/Outer Panels, Full-Drawn Floor Pan.
Bumper System Front - Rear	Body Color Soft Fascia, Honeycomb Absorber And Rigid Reinforcing Bar Used At Both Front And Rear.
Anti-Corrosion Treatment	Double-Sided Galvanizing Or Gavaneal Of All Major Body/Sheet Metal Inner/Outer Panels Including Hood, Deck Lid, Doors As Well As Rear And End Panel, Plenum, Fenders, Compartment Pan, Quarter Panels, Rocker Panels And Wheelhouse Outer Panels.

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Base Coat-Clear Coat Acrylic Enamel Over ELPO Primer	
Hood	Material & mass	Steel, 17.3 kg
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Gas Charged Strut
	Release control (int., ext.)	Internal
Trunk lid	Material & mass	Steel
	Type (counterbalance, other)	Dual Torque Rods
Hatch-back lid	Internal release control (elec., mech., n.a.)	Electric, Optional
	Material & mass	Not Available
	Type (counterbalance, other)	"
Tailgate	Internal release control (elec., mech., n.a.)	"
	Material & mass	"
	Type (drop, lift, door)	"
Vent window control (crank, friction, pivot, power)	Front	Not Applicable
	Rear	"
Window regulator type (cable, tape, flex drive, etc.)	Front	Single Lift Arm Regulator
	Rear	Tape
Seat cushion type (e.g., 60/40, bucket, bench wire, foam, etc.)	Front	Bench, 60/40 - Base & Euro; 40/40 Bucket - Euro & Z34; Stamped Frame/Foam
	Rear	Bench - Base, Euro, Z34, Wire Grid W/Foam
	3rd seat	Not Applicable
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bench, 60/40 - Base & Euro; 40/40 Bucket - Euro & Z34, Tubular Frame/Foam
	Rear	1-Piece Fixed Base, Euro, Z34
	3rd seat	Not Applicable

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Body/Frame, Bolted-On Powertrain Cradle with Mounting Provisions For Suspension And Engine Mounts.
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MVMA Specifications

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METRIC (U.S. Customary)

Model Code/Description

COUPE / SEDAN

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat		Lap Belt Manual Adjustment End Release Buckle	
		Second seat	3 Pt. Sngl. Loop W/Shldr. Rtrctr, End Rls. Buckle Child Cinch Rtrctr.(Sedan)	Lap Belt Manual Adjustment End Release Buckle	3 Pt. Sngl. Loop W/Shldr. Rtrctr, End Rls. Buckle Child Cinch Rtrctr.(Sedan)
	Standard/optional	Third seat			
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	3-Point Door Mounted Dual Retractor End Release Buckle		3-Point Door Mounted Dual Retractor End Release Buckle
		Second seat			
	Standard/optional	Third seat			

Glass	SAE	COUPE	SEDAN
	Ref No		
Windshield glass exposed surface area sq.cm.(sq.in.)	S1	12,397 (1921.5)	8798 (1363.7)
Side glass exposed surface area sq. cm. (sq. in.) - total 2- sides	S2	6,802 (1,054), Door 3,020 (468), Qtr. Wdo.	--
Backlight glass exposed surface area sq.cm.(sq.in.)	S3	8,559 (1,327)	4624 (716.7)
Total glass exposed surface area sq. cm. (sq. in.) (Flat area)	S4	30,718 (4,761)	--
Windshield glass (type/thickness)		Curved-2nd Laminated Float, 5.4 mm	
Side glass (type/thickness)		Curved-Tempered Float: 5.0 mm F/D SDN 4.0 mm CPE, R/D SDN, QTR	
Backlight glass (type/thickness)		Curved-Tempered Float, 4.0 mm	
Tinted (yes/no, location)		Tinted All Around	
Solar control (yes/no, coated/batched, location)		No	

Headlamps

Description - sealed beam, halogen, replaceable bulb, etc.	Halogen, Replacement Bulb Unit
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	Not Available
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	Not Available
Quantity	2

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METRIC (U.S. Customary)

Engine Code/Description

ALL

Climate Control System

Air conditioning (std., opt., man., auto.)		Standard - LQ1, LH0
Condenser	Type	Tube & Fin
	Eff. face area (sq. mm.)	315,181
	Fins per inch	13
Evaporator	Type	U Flow, Aluminum
	Eff. face area (sq. mm.)	48,437
	Fins per inch	14
Heater Core	Material	Aluminum
	Eff. face area (sq. mm.)	33,028
	Fins per inch	30
Compressor	Type	V5
	Displacement (cc)	Variable Displacement
	Manufacturer	Harrison Division, G.M.
	A/C pulley ratio	1.37
Accumulator	Type	Non-Serviceable, Sealed, Integral Design
	Height (mm.)	206
	Diameter (mm.)	89
Receiver	Type	Not Applicable
	Height (mm.)	"
	Diameter (mm.)	"
Refrigerant control (CCOT, TVS, etc.)		Variable Displacement Compressor CCOT
Heater water valve (yes / no)		No
Refrigerant (R - 12, R - 134a, etc.)		R134A
Charge level (lbs. - oz.)		2.0 lbs.
Cold engine lockout switch (yes / no)		No
Wide open throttle cutout switch (yes / no)		Yes

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METRIC (U.S. Customary)

Model Code/Description

COUPE/SEDAN

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

	Clock (digital, analog)	Digital - In Radio, Standard
	Compass / thermometer	Not Available
	Console (floor, overhead)	Optional, Floor/Overhead - Not Available
	Defroster, electric windshield	Not Available
	Defroster, electric backlight	Optional
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	Not Available
	Keyless entry	Not Available
	Tripminder (avg. spd. fuel)	Not Available
	Voice alert (list items)	Not Available
	Other	
	Fuel door lock (remote, key, electric)	
Lamps	Auto head on/off delay, dimming	Not Available
	Cornering	Not Available
	Courtesy Dome	Standard
	Door lock, ignition	Lighted Driver Door Key Cylinder - Standard On Coupe
	Engine compartment	Standard
	Fog	Not Available
	Glove compartment	Standard
	Trunk	Standard
	Illuminated entry system (list lamps, activation)	Delayed Panel Lamp Illumination - Standard
	Other Ashtray CHMSL	Standard
Mirrors	Day / night (auto. man.)	Standard - Manual
	L.H. (remote, pwr., heated)	Standard - Remote
	R.H. (convex, rmt, pwr, htd)	Standard - Manual
	Visor vanity (RH/LH illum.)	Not Available, (Uncovered Visor Vanity - Optional)
	Navigation system (describe)	Not Available
	Prkg. brake-auto release (warn. light)	Standard - Warning Light

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METRIC (U.S. Customary)

Model Code/Description

COUPE/SEDAN

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

Power equipment	Deck lid(release, pull down)		Optional, Electric Release
	Door locks (manual, auto., describe system)		Automatic Door Locks - Electric - Standard
	Seats	2 - 4 - 6 way, etc.	Standard 4-Way, Driver Side Only; Optional 6-Way
		Reclining(R.H., L.H.)	Standard - Manual
		Memory (R.H., L.H., preset, recline)	Not Available
		Support (lumbar, hip, thigh, etc.)	Not Available
		Heated (R.H., L.H., other)	Not Available
	Side windows		Optional Electric
	Vent windows		Not Applicable
	Rear windows		Optional Electric Defroster
Radio systems	Antenna (location, whip, w/shield, power)		Standard, Fixed Whip Located On Right Rear Upper Quarter Panel
	Stan.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo, Seek & Scan/Standard
	Opt.		AM/FM Stereo, Seek & Scan/Cassette, Optional AM/FM Stereo, Seek & Scan/Compact Disc, Optional
	Speaker (number, location)		Standard - 2 In Instrument Panel, 2 In Package Shelf
Roof: open air or fixed (flip-up, sliding, 'T')			Not Available
Speed control device			Optional, Automatic Electronic
Speed warn. dev. (light, buzzer, etc.)			Not Available
Tachometer (rpm)			Optional (Included As Part Of Optional Gauge Package)
Telephone system (describe)			Not Available
Theft deterrent system			Not Available

Trailer Towing

Towing capable	Yes / No	Yes
Engine/transmission/axle	Std / Opt	3.1L, 4-Spd. Auto., 3.33; 3.4L, 4-Spd. Auto., 3.43
Tow class (I, II, III)*	Std / Opt	1
Max. gross trailer wgt. (lbs.)	Std / Opt	1000
Max. trailer tongue load (lbs.)	Std / Opt	100
Towing package available	Yes / No	No

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

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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.

Model Code/Description

COUPE	SEDAN
-------	-------

Width

SAE Ref. No.

Tread (front)	W101	1512 (59.5)	
Tread (rear)	W102	1472 (58.0)	
Vehicle width	W103	1822 (71.7)	1803 (71.0)
Body width at Sg RP (front)	W117	1805 (71.0)	1803 (71.0)
Vehicle width (front doors open)	W120	Not Applicable	3398 (133.8)
Vehicle width (rear doors open)	W121	Not Applicable	3640 (143.3)
Tumble-home (deg.)	W122	27.0	25.0
Outside mirror width	W410	1821 (71.7)	

Length

Wheelbase	L101	2730 (107.5)	
Vehicle length	L103	5038 (198.3); Z34, 5062 (199.3)	5038 (198.3)
Overhang (front)	L104	1179 (46.4); Z34, 1192 (46.9)	1179 (46.4)
Overhang (rear)	L105	1129 (44.4); Z34, 1141 (44.9)	1129 (44.4)
Upper structure length	L123	2741 (107.9)	2747 (108.1)
Rear wheel C/L 'X' coordinate	L127	4525 (178.1)	

Height **

Passenger distribution (front/rear)	PD1,2,3	2 - 0	**
Trunk/cargo load			**
Vehicle height	H101	1353 (53.3)	1361 (53.6)
Cowl point to ground	H114	934 (36.8)	933 (36.7)
Deck point to ground	H138	988 (38.9)	1001 (39.4)
Rocker panel-front to ground	H112	234 (9.2)	231 (9.1)
Rocker panel-rear to ground	H111	231 (9.1)	232 (9.1)
Windshield slope angle (deg.)	H122	62.0	59.0
Backlight slope angle (deg.)	H121	66.0	57.0

Ground Clearance **

Front bumper to ground	H102	340 (13.4)	
Rear bumper to ground	H104	326 (12.8)	337 (13.3)
Bumper to ground front at curb mass (wt.)	H103	356 (14.0)	
Bumper to ground rear at curb mass (wt.)	H105	357 (14.0)	370 (14.6)
Angle of approach (deg.)	H106	16.0	
Angle of departure (deg.)	H107	12.0	
Ramp breakover angle (deg.)	H147	10.0	
Axle differential to ground (front/rear)	H153	163 (6.4)	
Min. running ground clearance	H156	149 (5.9)	
Location of min. run. grd. clear.		Exhaust Pipe Rear Of Converter	

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

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

All Linear Dimensions Are In Millimeters (Inches)

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*) _____

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for Definitions

Model Code/Description

COUPE

SEDAN

Front Compartment

SAE Ref. No.

SgRP front, 'X' coordinate	L31	3138 (123.5)	3140 (123.6)
Effective head room	H61	953 (37.5)	982 (38.7)
Max. eff. leg room (accelerator)	L34	1076 (42.4)	1077 (42.4)
SgRP to heel point	H30	240 (9.4)	251 (9.9)
SgRP to heel point	L53	876 (34.5)	875 (34.4)
Back angle (deg.)	L40	26.0	
Hip angle (deg.)	L42	98.0	99.0
Knee angle (deg.)	L44	128.0	
Foot angle (deg.)	L46	87.0	
Design H-point front travel	L17	199 (7.8)	
Normal driving & riding seat track trvl.	L23	178 (7.00)	179 (7.04)
Shoulder room	W3	1460 (57.5)	1478 (58.2)
Hip room	W5	1305 (51.4)	1328 (52.3)
*** Upper body opening to ground	H50	1238 (48.7)	1281 (50.4)
Steering wheel maximum diameter*	W9	374 (14.7)	375 (14.8)
Steering wheel angle (deg.)	H18	22.0	
Accel. heel pt. to steer. whl. cntr	L11	520 (20.5)	515 (20.3)
Accel. heel pt. to steer. whl. cntr	H17	623 (24.5)	620 (24.4)
Undepressed floor covering thickness	H67	27.0 (1.1)	

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

Rear Compartment

(SgRP) mm (1 Seat Adjuster Notch) Forward of Rearmost Seat Position.

SgRP point couple distance	L50	792 (31.2)	826 (32.5)
Effective head room	H63	943 (37.1)	965 (38.0)
Min. effective leg room	L51	884 (34.8)	937 (36.9)
SgRP (second to heel)	H31	249 (9.8)	271 (10.7)
Knee clearance	L48	46 (1.8)	17 (0.7)
Shoulder room	W4	1446 (56.9)	1427 (56.2)
Hip room	W6	1322 (52.0)	1329 (52.3)
*** Upper body opening to ground	H51		1283 (50.5)
Back angle (deg.)	L41	26.0	
Hip angle (deg.)	L43	82.0	87.0
Knee angle (deg.)	L45	88.0	96.0
Foot angle (deg.)	L47	122.0	125.0
Depressed floor covering thickness	H73	18 (0.6)	18 (0.7)

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	441.7 (15.6)	445.0 (15.7)
*** Liftover height	H195	846 (33.3)	845 (33.3)

Interior Volumes (EPA Classification)

Vehicle class		Mid Size	
Interior volume index (cu. ft.)**		110.5	116.0
Trunk / cargo index (cu. ft.)		15.6	15.7

* See page 14.

** Includes passenger and trunk / cargo index - see definition page 33.

*** EPA Loaded Vehicle Weight, Loading Conditions.

All Linear Dimensions Are In Millimeters (Inches)

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for Definitions

Model Code/Description

COUPE/SEDAN

Station Wagon / MPV** - Third Seat

SAE Ref. No. (NOT APPLICABLE)

Seat facing direction	SD1
SgRP couple distance	L85
Shoulder room	W85
Hip Room	W86
Effective leg room	L86
Effective head room	H86
SgRP to heelpoint	H87
Knee clearance	L87
Back angle (deg.)	L88
Hip angle (deg.)	L89
Knee angle (deg.)	L90
Foot angle (deg.)	L91

Station Wagon / MPV** Cargo Space

(NOT APPLICABLE)

Cargo length (open front)	L200
Cargo length (open second)	L201
Cargo length (closed front)	L202
Cargo length (closed second)	L203
Cargo length at belt (front)	L204
Cargo length at belt (second)	L205
Cargo width (wheelhouse)	W201
Rear opening width at floor	W203
Opening width at belt	W204
Min. rear opening width above belt	W205
Cargo height	H201
Rear opening height	H202
Tailgate to ground height	H250
Front seat back to load floor height	H197
Cargo volume index cu. m. (cu. ft.)	V2
Hidden cargo vol. index cu. m. (cu. ft.)	V4
Cargo volume index-rear of 2-seat	V10
Cargo volume index**	V6
Cargo width at floor**	W500
Maximum cargo height**	H505

Hatchback - Cargo Space

(NOT APPLICABLE)

Cargo length at front seatback height	L208
Cargo length at floor (front)	L209
Cargo length at second seatback height	L210
Cargo length at floor (second)	L211
Front seatback to load floor height	H197
Second seatback to load floor height	H198
Cargo volume index cu. m. (cu. ft.)	V3
Hidden cargo vol. index cu. m. (cu. ft.)	V4
Cargo volume index-rear of 2-seat	V11

* EPA Loaded Vehicle Weight, Loading Conditions

** MPV - Multipurpose Vehicle

All Linear Dimensions Are In Millimeters (Inches)

MVMA Specifications

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised(*)

METRIC (U.S. Customary)

Model Code/ Description	COUPE	SEDAN
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Vehicle Fiducial Marks

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

NOTE: Provide
3 of 4
Fiducial Mark
Locations

Front	W21**	555.0 (21.9)	
	L54**	2776.0 (109.29)	2776.0 (109.29)
	H81**	278.0 (10.9)	279.0 (11.0)
	*** H181**	337.0 (13.26)	338.0 (13.3)
	*** H183**	316.0 (12.4)	317.0 (12.5)
Rear	W22**	679 (26.7)	
	L55**	4063.0 (160.0)	
	H82**	288.0 (11.3)	289.0 (11.4)
	*** H182**	353.0 (13.9)	
	*** H184**	327.0 (12.9)	326.0 (12.8)

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

** Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.

*** EPA Loaded Vehicle Weight, Loading Conditions.
All Linear Dimensions Are In Millimeters (Inches).

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

		VEHICLE MASS (weight)				% PASS MASS DISTRIBUTION				
Code	Model	CURB MASS, kg. (lb.)*			SHIPPING MASS kg (lb) ***	ETWC** Code	PASS IN FRONT		PASS IN REAR	
		Front	Rear	Total			Front	Rear	Front	Rear
LUMINA 1WL69 4-Dr. Notchback Sedan (LH0 & M13)		973.4 (2146)	532.4 (1174)	1505.8 (3320)	1467.8 (3236)	V	49.4	50.6	21.8	78.2
LUMINA EURO 1WN27 2-Dr. Notchback Coupe (LH0 & M13) 1WN69		858.0 (2112)	521.8 (1150)	1479.8 (3262)	1441.8 (3178)	V	49.4	50.6	21.8	78.2
4-Dr. Notchback Sedan (LH0 & M13)		979.2 (2159)	541.0 (1193)	1520.2 (3351)	1482.2 (3267)	V	49.4	50.6	21.8	78.2
LUMINA Z34 1WP27 2-Dr. Notchback Coupe (LQ1 & M13)		1027.8 (2266)	530.8 (1170)	1558.6 (3436)	1520.6 (3352)	W	49.4	50.6	21.8	78.2

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

ETWC LEGEND

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

*** Shipping Mass (weight) = Curb Weight Less:
 38 (84)

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
AC3	Adjuster Front Seat, Power 6-Way Driver	.8 (1.8)	.8 (1.8)	1.6 (3.5)	
AG1	Seat Adjuster 6-Way Power Driver Only	.8 (1.8)	.8 (1.8)	1.6 (3.5)	
AN3	Seat Front Bucket, Driver, Passenger Electric	-2.6 (-5.7)	-2.2 (-4.9)	-4.8 (-10.6)	
AP9	Convenience - Net	0 (0)	.2 (.4)	.2 (.4)	
AR9	Seat - Front Bucket, Euro P/D Reclining	-2.4 (-5.3)	-1.8 (-4.0)	-4.2 (-9.3)	
A31	Windows - Power Operated, Side	2.0 (4.4)	2.0 (4.4)	4.0 (8.8)	1WM69
A90	Lock - Rear Compartment Lid, Remote Control Electric	0 (0)	.4 (.9)	.4 (.9)	
BF9	Cover - Floor Mat Delete	-1.8 (-4.0)	-1.6 (-3.5)	-3.4 (-7.5)	
B97	Ornamentation Exterior Molding, Lower Accent	1.0 (2.2)	.8 (1.8)	1.8 (4.0)	
C49	Defogger - Rear Window, Electric	0 (0)	.2 (.4)	.2 (.4)	
D09	Arm Rest - Front Seat (Standard)	.6 (1.3)	.4 (.9)	1.0 (2.2)	1WM69
D55	Console - Front Compartment Floor, Var 1	2.6 (5.7)	2.0 (4.4)	4.6 (10.1)	

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

Optional Equipment Differential Mass (weight)*

Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
D58	Spoiler Rear - Delete	.8 (1.8)	-5.8 (-12.8)	-5.0 (-11.0)	1WM27
D68	Mirrors - Remote Right & Left	.2 (.4)	0 (0)	.2 (.4)	
D80	Spoiler - Rear End Panel	-1.0 (-2.2)	6.4 (14.1)	5.4 (11.9)	1WM69 & ZV8
D80	Spoiler - Rear End Panel	-2 (-4)	2.0 (4.4)	1.8 (4.0)	1WM27 & Z34
FE2	Suspension System - Ride, Handling	1.4 (3.1)	.6 (1.3)	2.0 (4.4)	1WM69
FE3	Suspension System - Sport	-3.8 (-8.4)	-2.0 (-4.4)	-5.8 (-12.8)	1WM27
FE3	Suspension System - Sport	-2 (-4)	0 (0)	-2 (-4)	1WM69
F41	Suspension System - Front/Rear, Firm Ride, Handling	-2.4 (-5.3)	-1.4 (-3.1)	-3.8 (-8.4)	1WM27
F41	Suspension System - Front/Rear, Firm Ride, Handling	-1.0 (-2.2)	-.6 (-1.3)	-1.6 (-3.5)	1WM69
JL9	Brake System - Power Front & Rear Disc ABS	6.8 (14.6)	.6 (1.3)	7.2 (15.9)	1WM69
J65	Brake System - Power, Heavy Duty	-7.4 (-16.3)	-.6 (-1.3)	-8.0 (-17.6)	1WM27
KC4	Cooling System - Engine Oil	2.2 (4.8)	-.2 (-.4)	2.0 (4.4)	

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
 Model Year 1994 Issued 9-93 Revised _____

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
K05	Heater - Engine Block	.4 (.9)	0 (0)	.4 (.9)	
K34	Cruise Control Auto Electronic	1.8 (4.0)	0 (0)	1.8 (4.0)	
LQ1	Engine - Gas, 6 Cylinder 3.4L, MFI	60.8 (134.0)	-8.0 (-17.6)	52.8 (116.4)	
NC5	Exhaust - Dual Vertical Tail Pipes	.8 (1.7)	9.6 (21.2)	10.4 (22.9)	
NW0	Wheel - 16 x 6.5 Cast Aluminum	3.0 (6.6)	3.0 (6.6)	6.0 (13.2)	1WM69
NW0	Wheel - 16 x 6.5 Cast Aluminum	2.6 (5.7)	2.6 (5.7)	5.2 (11.4)	1WM27
PG1	Wheel - 15 x 6 Steel	3.2 (7.0)	3.2 (7.0)	6.4 (14.1)	1WM69
PG1	Wheel - 15 x 6 Steel	1.6 (3.5)	1.6 (3.5)	3.2 (7.0)	1WM27
PH3	Wheel 15 x 6 Cast Aluminum	.2 (.4)	.2 (.4)	.4 (.8)	1WM69
P08	Cover - Super Deluxe Wheel	1.2 (2.6)	1.2 (2.6)	2.4 (5.2)	1WM27
Q1N	Tire - P205/70R15	.8 (1.8)	.8 (1.8)	1.6 (3.5)	1WM69
QMX	Tire - P185/75R14	.2 (.4)	.2 (.4)	.4 (.8)	

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
 Model Year 1994 Issued 9-83 Revised _____

Optional Equipment Differential Mass (weight)*

Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
QPE	Tire - P215/60R16/NBL	3.6 (7.9)	3.6 (7.9)	7.2 (15.8)	1WM27
QPE	Tire - P215/60R16/NBL	4.4 (9.7)	4.4 (9.7)	8.8 (19.4)	1WM69
QXJ	Tire All - P225/60R16/N BL R/PE	4.0 (8.8)	4.0 (8.8)	8.0 (17.6)	1WM27
QXJ	Tire All - P225/60R16/N BL R/PE	4.8 (10.6)	4.8 (10.6)	9.6 (21.2)	1WM69
T61	Lighting Daytime Running	.4 (.9)	0 (0)	.4 (.9)	1WA00 & Z49
UB3	Cluster Assembly - Instrument Panel	.4 (.9)	.2 (.4)	.6 (1.3)	
UM6	Radio - AM/FM stereo, Seek & Scan, Cassette, Clock	.6 (1.3)	.2 (.4)	.8 (1.7)	
UQ4	Audio System - Bose Speaker	1.4 (3.1)	2.4 (5.3)	3.8 (8.4)	
UU8	AM/FM Stereo Cassette ETR	1.0 (2.2)	.4 (.9)	1.4 (3.1)	
UV8	Telephone Provision	1.2 (2.6)	.2 (.4)	1.4 (3.0)	
U1C	Radio - AM/FM Stereo Seek/Scan	.8 (1.8)	0 (0)	.8 (1.8)	
VK3	License Plate Rear Mount Pkg. - Exp.	.6 (1.3)	-.2 (-.4)	-.4 (-.9)	

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

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line LUMINA
Model Year 1994 Issued 9-93 Revised _____**Optional Equipment Differential Mass (weight)***

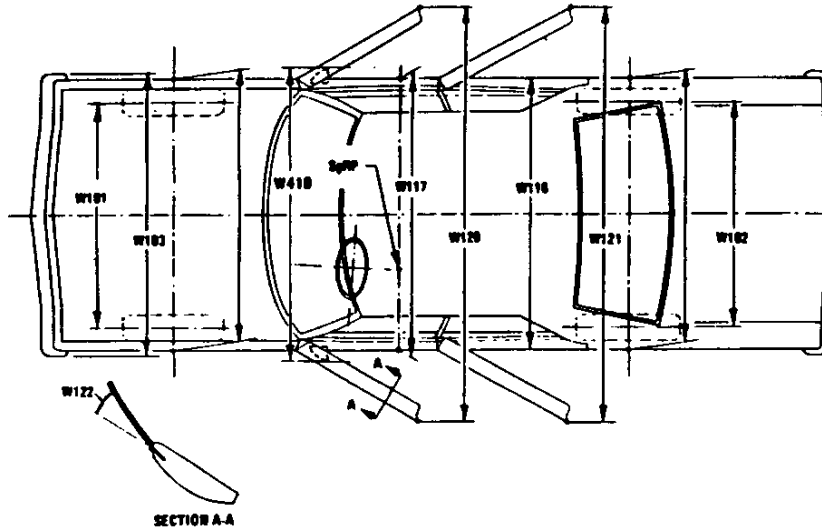
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
VR6	Hook Tie Down	.2 (.4)	.2 (.4)	.4 (.9)	
V56	Carrier - Luggage - Rear (Painted)	-.8 (-1.8)	4.4 (9.7)	3.6 (7.9)	
Z34	Chevrolet Lumina Z34	6.2 (13.7)	2.4 (5.3)	8.6 (19.0)	

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

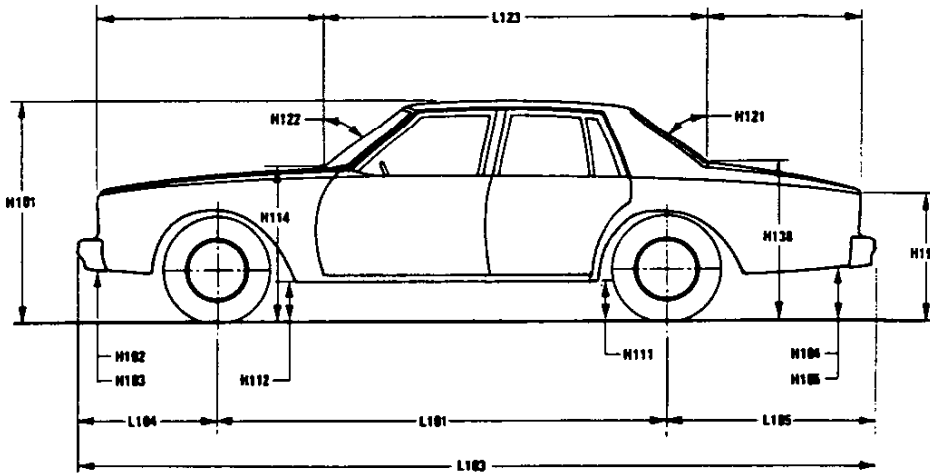
MVMA Specifications
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet

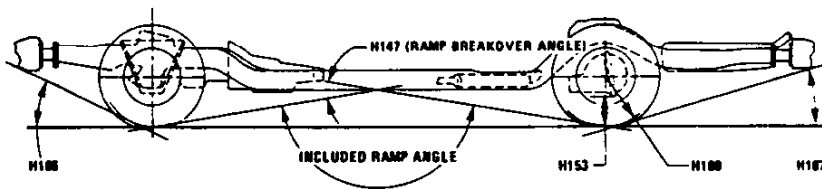
Exterior Width



Exterior Length & Height



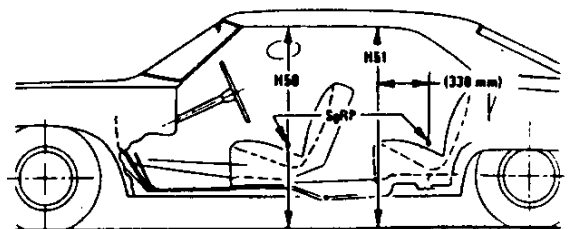
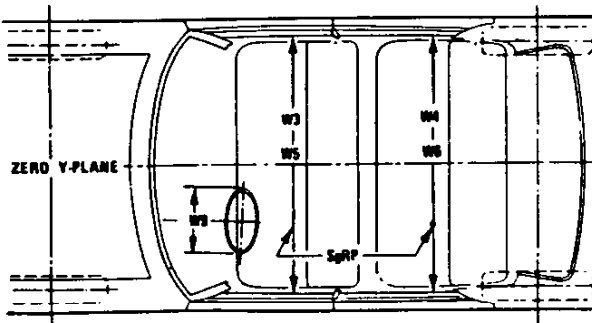
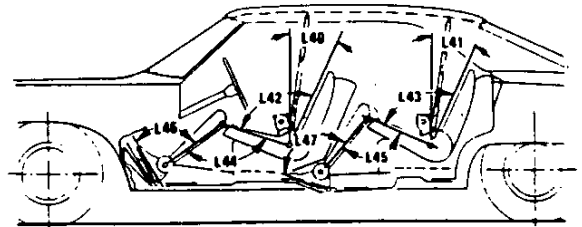
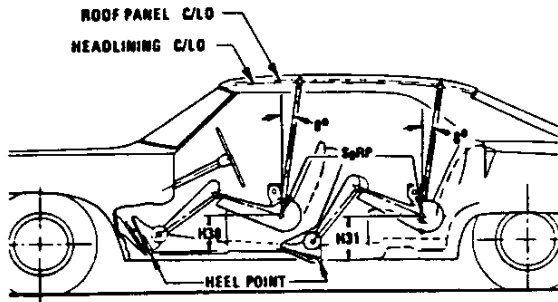
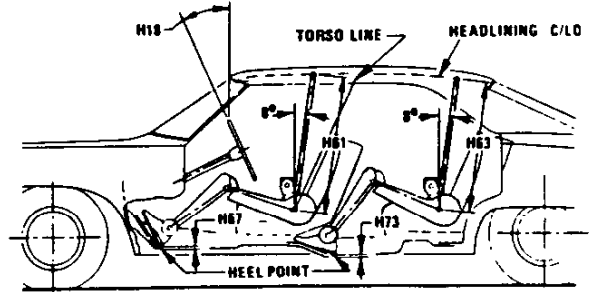
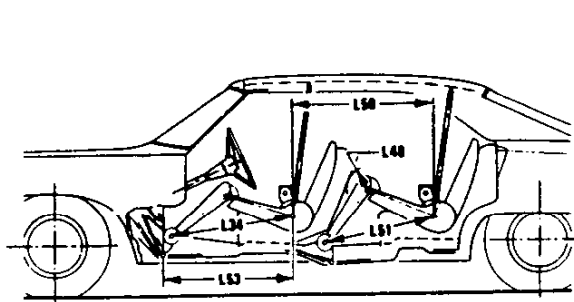
Exterior Ground Clearance



MVMA Specifications Form

METRIC (U.S. Customary)

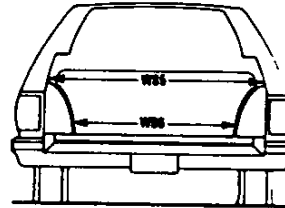
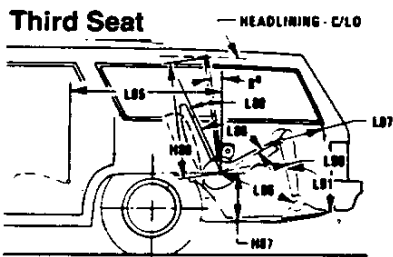
Interior Vehicle And Body Dimensions – Key Sheet



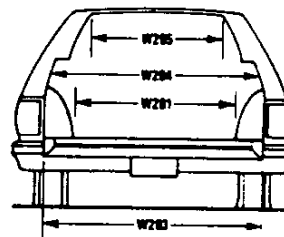
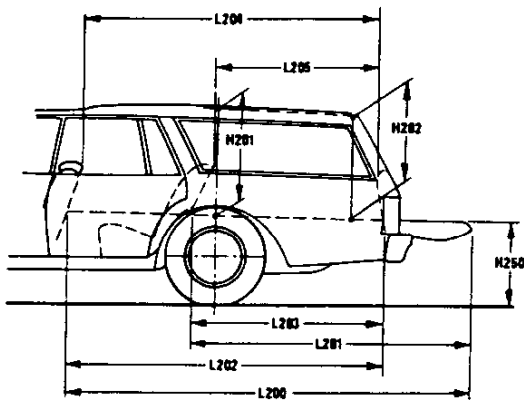
MVMA Specifications

METRIC (U.S. Customary)

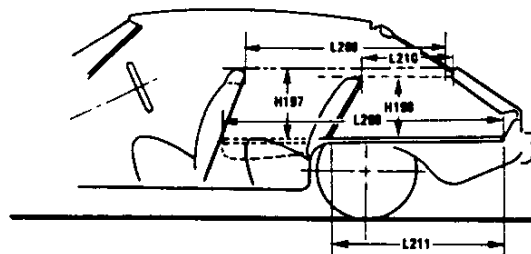
Interior Vehicle And Body Dimensions – Key Sheet



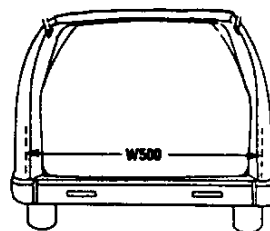
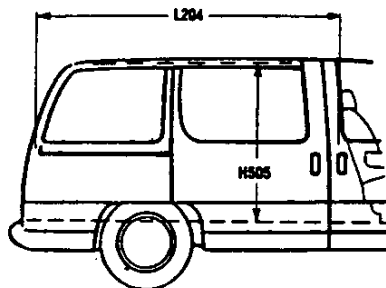
Cargo Space



Station Wagon



Hatchback



Multipurpose Vehicle

MVMA Specifications

METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which –

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

Width Dimensions

- W101 TREAD – FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD – REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W117 BODY WIDTH AT SgRP – FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH – FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH – REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE – HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.
- W410 OUTSIDE MIRROR WIDTH: The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

Length Dimensions

- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHAND – FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L105 OVERHANG – REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

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

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL – REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL – FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD – TIRE RADIUS – REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H102.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point 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.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Glass Areas

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

Fiducial Mark Dimensions

- Fiducial Mark – Number 1**
- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.
- Fiducial Mark – Number 2**
- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT – FRONT TRAVEL. The dimension measured horizontally between the design H-point – front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).
- L31 SgRP – FRONT. "X" COORDINATED.
- L34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP – front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L-40 BACK ANGLE – FRONT. The angle measured between a vertical line through the SgRP – front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L-42 HIP ANGLE – FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE – FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE – FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP – FRONT TO HEEL. The dimension measured horizontally from the SgRP – front to the accelerator heel point.
- W3 SHOULDER ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front at height between the belt line and 254 mm (10.0 in.) above the SgRP – front, excluding the door assist strap and attaching parts.

- W5 HIP ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP – front and 76 mm (3.0 in.) fore and aft of the SgRP – front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H7 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP – front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP – FRONT TO HEEL. The dimension measured vertically from the SgRP – front to the accelerator heel point.
- H50 UPPER BODY OPENING TO GROUND – FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP – front "X" plane.
- H61 EFFECTIVE HEAD ROOM – FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP – front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS – UNDEPRESSED – FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

Rear Compartment Dimensions

- L-41 BACK ANGLE – SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
- L43 HIP ANGLE – SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE – SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE – SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE – SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE – SECOND. The dimension measured horizontally from the driver SgRP – front to the SgRP – second.
- L51 MINIMUM EFFECTIVE LEG ROOM – SECOND. The dimension measured along a line from the ankle pivot center to the SgRP – second plus 254 mm (10.0 in.).
- W4 SHOULDER ROOM – SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP – second at height between 254-406 mm (10.0-16.0 in.) above the SgRP – second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM – SECOND. Measured in the same manner as W5.
- H31 SgRP – SECOND TO HEEL. The dimension measured vertically from the SgRP – second to the two dimensional device heel point on the depressed floor covering.
- H51 UPPER BODY OPENING TO GROUND – SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP – second.
- H63 EFFECTIVE HEAD ROOM – SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING – DEPRESSED – SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

Luggage Compartment Dimensions

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

Interior Volumes (EPA Classification)

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

The 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 / MPV – Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE – THIRD. The dimension measured horizontally from the SgRP – second to the SgRP – third.
- L86 EFFECTIVE LEG ROOM – THIRD. The dimension measured along a line from the ankle pivot center to the SgRP – third plus 254 mm (10.0 in.).
- L87 KNEE CLEARANCE – THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE – THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE – THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE – THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE – THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM – THIRD. Measured in the same manner as W4.
- W86 HIP ROOM – THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM – THIRD. The dimension, measured along a line 8 deg. from the SgRP – third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SgRP – THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION – THIRD.

Station Wagon / MPV – 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 wheel housings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- 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.
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

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:

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

Measured in mm:

$$\frac{L506 \times W505 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

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

Measured in mm:

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

V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT.

The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

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

Measured in mm:

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

Hatchback – Cargo Space Dimensions

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

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

L209 CARGO LENGTH AT FLOOR – FRONT. 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. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.

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

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

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

V3 HATCHBACK.

Measured in inches:

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

Measured in mm:

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

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

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

Measured in inches:

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

Measured in mm:

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

MVMA Specifications

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