

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer Oldsmobile Division	Car Line Firenza	
Mailing Address 920 Townsend Street Lansing, Michigan 48921	Issued	Revised

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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

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Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form

Passenger Car

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 completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Line Firenza
Model Year 1986 Issued _____ Revised (•) _____

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
<u>7JC77</u>				
Firenza S Hatchback		2-door Coupe	5 (2/3)	60 (130)
<u>3JC69</u>				
Firenza		4-door Sedan	5 (2/3)	60 (130)
<u>3JC35</u>				
Firenza Cruiser		4-door Wagon	5 (2/3)	40 (90)
<u>3JD77</u>				
Firenza GT		2-door Coupe	5 (2/3)	60 (130)
<u>3JD69</u>				
Firenza LX		4-door Sedan	5 (2/3)	60 (130)
<u>3JD27</u>				
Firenza Notchback (Brougham)		2-door Coupe	5 (2/3)	60 (130)
<u>3JC27</u>				
Firenza Notchback		2-door Coupe	5 (2/3)	60 (130)

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Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N•m (lb. ft.)			
3JA00 (Std.)	2.0L (212 L4) LQ5	EFI	9.3			S	4-speed Manual Auto/3-speed	Std. 3.65 Std. 3.18 Opt. 3.43
3JA00 (Opt.)	1.8L (112 LH) LH8	EFI	9.0	61 (82) @ 5200	139 (102) @ 2800	S	5-speed Manual (Opt.) Auto/ 3-speed	Std. 3.45 Std. 3.18 Except ALT Opt. 3.43 Fed. Std. (ALT) 3.43
3JA00 (Opt.)	2.8L (173 V6) LB6	MPFI	8.9			S	4-speed Manual (Opt.) Auto/ 3-speed	Std. 3.65 Std. 3.18

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Engine Description/Carb.
Engine Code

1.8L (112) L4 LH8 (ALL)	2.0L (121) L4 LQ5
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ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Inline, Front, Transverse	
Manufacturer		
No. of cylinders	4	
Bore	84.8 (3.34)	89.0 (3.5)
Stroke	79.5 (3.13)	80.0 (3.15)
Bore spacing (C/L to C/L)	93.0 (3.66)	99.0 (3.90)
Cylinder block material & mass kg (lbs.)	Cast Iron	
Cylinder block deck height	216.0 (8.5)	215.55 (8.49)
Deck clearance (minimum) (above or below block)	0.36 Above 0.14 Below	0.15 (.006) Below
Cylinder head material & mass kg (lbs.)	Aluminum	Cast Iron
Cylinder head volume (cm ³)	33.3 cm ³ (2.03)	
Head gasket thickness (compressed)	1.02 mm (.047)	1.1 (.043)
Minimum combustion chamber total volume (cm ³)	54.1 (3.3)	46.5 (2.84)
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	-
Firing order	1-3-4-2	
Intake manifold material & mass [kg (weight, lbs.)]		
Exhaust manifold material & mass [kg (weight, lbs.)]		
Recommended fuel (leaded, unleaded, diesel)	Unleaded	
Fuel antiknock index (R + M) 2	87	
Total dressed engine mass (wt) dry**	131.9 (290.8) 114.4 (252) Auto, 119 (262) Man.	

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	Cast Aluminum Alloy 410 + 59 (14.5 + .18)	467 (16.5)
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Engine – Camshaft

Location	Overhead Camshaft	In Cylinder Block
Material & mass kg (weight, lbs.)	Hardened Alloy Cast Iron	3.138 (6.92)
Drive type	Chain / belt	Chain
	Width / pitch	19 (.75) x 9.525 19.3 (.76) x 9.53 (.38)

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

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

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Engine Description/Carb.
Engine Code

2.8L
(173) V6
LB6

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Inline Front Transverse, Front of engine faces the right side of vehicle	
Manufacturer		
No. of cylinders	6	
Bore	89 (3.50)	
Stroke	76 (2.99)	
Bore spacing (C/L to C/L)	111.8 (4.40)	
Cylinder block material & mass kg (lbs.)	Cast Iron	
Cylinder block deck height		
Deck clearance (minimum) (above or below block)		
Cylinder head material & mass kg (lbs.)	Cast Iron	
Cylinder head volume (cm ³)	NA	
Head gasket thickness (compressed)		
Minimum combustion chamber total volume (cm ³)		
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 material & mass [kg (weight, lbs.)]		
Exhaust manifold material & mass [kg (weight, lbs.)]		
Recommended fuel (leaded, unleaded, diesel)	Unleaded	
Fuel antiknock index (R + M) 2	87	
Total dressed engine mass (wt) dry**		

Engine - Pistons

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

Engine - Camshaft

Location	In block above crankshaft	
Material & mass kg (weight, lbs.)	Cast Iron	
Drive type	Chain / belt	Chain
	Width / pitch	

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

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

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Engine Description/Carb.
Engine Code

1.8L (112) L4 LH8 (ALL)	2.0L (121) L4 LQ5
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Engine – Valve System

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

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]	Steel SAE #1140 .760 (1.7)	.675 (1.49)
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Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]	Nodular Cast Iron 16.2 (35.71)	12.746 (28.10)
End thrust taken by bearing (no.)	Three	Five
Number of main bearings		
Seal (material, one, two piece design, etc.)	Front	
	Rear	

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	448 (65) @ 2500 RPM	435-530 (63-77) @ 1200
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full Flow	
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)	

Engine – Diesel Information

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

Engine – Intake System

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

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(173) V6
LB6

Engine - Valve System

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

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]	
---------------------------------------	--

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]		Nodular Cast Iron 12.746 (28.10)
End thrust taken by bearing (no.)		5
Number of main bearings		
Seal (material, one, two piece design, etc.)	Front	
	Rear	

Engine - Lubrication System

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

Engine - Diesel Information

NA

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

Engine - Intake System

NA

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

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Engine Description/Carb.
Engine Code

1.8L	2.0L
112 L4	121 L4
LH8 (ALL)	LQ5

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Std.		
Coolant fill location (rad., bottle)		Bottle		
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15 PSI)		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at °C (°F)	91 °C (195 °F)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	8.45		
	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
	Bearing type	Sealed Double Row		
	Impeller material			
	Housing material			
By-pass recirculation [type (inter., ext.)]		External-Thru Intake Manifold Internal		
Cooling system capacity	With heater-L (qt.)	Cross-flow		
	With air cond.-L (qt.)	7.4 (7.8)	7.4 (7.8)	
	Opt. equipment [specify-L (qt.)]	7.5 (7.9)	7.5 (7.9)	
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes-		
Water jackets open at head face (yes, no)				
Radiator core	Std., A/C, HD	Std.	A/C	* For LQ5 2.0L
	Type (cross-flow, etc.)	Infor. See Data Below		
	Construction (fin & tube mechanical, braze, etc.)			
	Material, mass [kg (wgt, lbs.)]			
	Width	430 (16.9)	500.0 (19.7)	
	Height	387.5 (15.25)	387.5 (15.25)	
	Thickness	25.0 (.98)	40.0 (1.58)	
	Fins per inch	14.5	14.5	
	Radiator end tank material			
Fan	Std., elec., opt.	Elec.		
	Number of blades & type (flex, solid, material)	Std.-4 A/C-7		
	Diameter & projected width	Std.-290 (11.4) A/C-373 (14.7) 373 (14.7)		
	Ratio (fan to crankshaft rev.)	NA		
	Fan cutout type	NA		
	Drive type (direct, remote)	NA		
	RPM at idle (elec.)	2200		
	Motor rating (wattage) (elec.)	100		
	Motor switch (type & location) (elec.)	Engine Block		
	Switch point (temp., pressure) (elec.)	-		
	Fan shroud (material)	Glass Filled Nylon		

* LQ5 Data

Std.	A/C
Width - 430.0 (16.9)	Width - 500.0
Height - 387.5 (15.25)	Height - 387.5
Thickness - 25.0 (.98)	Thickness - 25.0
Fins Per Inch - 14.5	Fins Per Inch - 17

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(173) V6
LB6

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Std.			
Coolant fill location (rad., bottle)		Bottle, coolant recovery			
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15)			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at °C (°F)	91 (195°)			
Water pump	Type (centrifugal, other)	Centrifugal, with aluminum die cast body			
	GPM 1000 pump rpm	-			
	Number of pumps	One			
	Drive (V-belt, other)	V-Belt			
	Bearing type	Sealed, ball-roller			
	Impeller material				
Housing material					
By-pass recirculation [type (inter., ext.)]		Internal			
Cooling system capacity	With heater-L (qt.)	10.04 (10.6) Auto., 10.14 (10.7) Man.			
	With air cond.-L (qt.)	10.39 (11.0) Auto., 10.49 (11.1) Man.			
	Opt. equipment [specify-L (qt.)]	10.55 (11.2) Auto., and Man.			
Water jackets full length of cyl. (yes, no)		Yes			
Water all around cylinder (yes, no)		Yes			
Water jackets open at head face (yes, no)					
Radiator core	Std., A/C, HD	Auto Std.	Auto A/C	Man. Std.	Man. A/C
	Type (cross-flow, etc.)				
	Construction (fin & tube mechanical, braze, etc.)	Cross-Flow, copper brass, high efficiency radiator			
	Material, mass [kg (wt. lbs.)]				
	Width	599.5	599.5	599.5	599.5
	Height	360.4	360.4	360.4	360.4
	Thickness	23.5	23.5	23.5	23.5
	Fins per inch	2.5	2.5	2.5	2.5
Radiator end tank material					
Fan	Std., elec., opt.	Electric			
	Number of blades & type (flex, solid, material)	Std.-4, Flex, plastic (opt. same - 7, Flex, plastic)			
	Diameter & projected width	Std. and Opt. same - 373 (14.7)			
	Ratio (fan to crankshaft rev.)	NA			
	Fan cutout type	ECM controlled			
	Drive type (direct, remote)	Direct			
	RPM at idle (elec.)	-			
	Motor rating (wattage) (elec.)	150			
	Motor switch (type & location) (elec.)	Engine Block			
	Switch point (temp., pressure) (elec.)	-			
Fan shroud (material)		Glass filled nylon			

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1.8L	2.0L
112 L4	121 L4
LH8	LQ5

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

Induction type: carburetor, fuel injection system, etc.

Fuel Injection

Carburetor	Mfg.	Brazil	Rochester
	Choke (type)	None	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Automatically ECM controlled-no adjustment
		Automatic	Same as manual
Idle A/F mix.			
Fuel injection	Point of injection (no.)	Throttle Body	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	Electronic	
	System pressure [kPa (psi)]	83 KPA (12 PSI)	68.95 - 82.74 (10-12)
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water - Thermostatic	
Air cleaner type	Standard	Replaceable paper element	
	Optional	None	
Fuel pump	Type (elec. or mech.)	Electrical	
	Location (eng., tank)	Tank	
	Pressure range [kPa (psi)]	83 KPA (12 PSI)	

Fuel Tank

Capacity [refill L (gallons)]		51.6 (13.6)
Location (describe)		Rear Center Underside, R.H. Rear Quarter Panel
Attachment		Underbody Strap
Material & Mass [kg (weight lbs)]		Steel
Filler pipe	Location & material	Right Rear Quarter Panel
	Connection to tank	Coupled Holes
Fuel line (material)		Steel SAE #1008 or #1010
Fuel hose (material)		Rubber
Return line (material)		Steel SAE #1008 or #1010
Vapor line (material)		Steel SAE #1008 or #1010
Extended range tank	Opt., n.a.	NA
	Capacity [L (gallons)]	NA
	Location & material	NA
	Attachment	NA
Auxiliary tank	Opt., n.a.	NA
	Capacity [L (gallons)]	NA
	Location & material	NA
	Attachment	NA
	Selector switch or valve	NA
	Separate fill	NA

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(173) V6
LB6

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

Induction type: carburetor, fuel injection system, etc.		Port Fuel Injection (2.8 Multi-Port FI)	
Carburetor	Mfgr.	Rochester	
	Choke (type)	None	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Automatically ECM controlled-no adjustment
		Automatic	Same as manual
Idle A/F mix.		Preset - no adjustment provided	
Fuel injection	Point of injection (no.)	Throttle body	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	Electronic	
	System pressure [kPa (psi)]	Not Available	
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water	
Air cleaner type	Standard	Replaceable paper element single snorkel	
	Optional	None	
Fuel pump	Type (elec. or mech.)	Electric	
	Location (eng., tank)	Tank	
	Pressure range [kPa (psi)]	NA	

Fuel Tank

Capacity [refill L (gallons)]		51.5 (13.6)
Location (describe)		Underside - rear center
Attachment		Underbody strap
Material & Mass [kg (weight lbs)]		Steel
Filler pipe	Location & material	R.H. rear quarter
	Connection to tank	Solid solder
Fuel line (material)		Steel GM 124M
Fuel hose (material)		Rubber GM 6163M
Return line (material)		Steel GM 124M
Vapor line (material)		Steel GM 124M
Extended range tank	Opt., n.a.	NA
	Capacity [L (gallons)]	NA
	Location & material	NA
	Attachment	NA
Auxiliary tank	Opt., n.a.	NA
	Capacity [L (gallons)]	NA
	Location & material	NA
	Attachment	NA
	Selector switch or valve	NA
	Separate fill	NA

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(112) L4
LH8

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		3C-TBI, Single bed 3-way EST, BPEGR
	Air Injection	Pump or pulse	NA
		Driven by	
		Air distribution (head, manifold, etc.)	
		Point of entry	
	Exhaust Gas Recircula- tion	Type (controlled flow, open orifice, other)	Back pressure modulated
		Exhaust source	Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold
	Catalytic Converter	Type	Plat - Palladium - Rhodium
		Number of	One
Location(s)		Mounted Under Floor	
Volume [L (in ³)]		160 Cu. In.	
Substrate type		Aluminum Beads	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges (to intake manifold, other)		Intake Manifold
	Air inlet (breather cap, other)		Carburetor Air Cleaner
Evapora- tive Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	-
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		Reverse Flow
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	
	Main o.d., wall thickness	44.5 1.02 min.
	Material & Mass [kg (weight lbs)]	Stainless Steel
Inter- mediate pipe	o.d. & wall thickness	44.5 1.09 Min.
	Material & Mass [kg (weight lbs)]	#1009 Aluminum Coated
Tail pipe	o.d. & wall thickness	50.8 1.09 min.
	Material & Mass [kg (weight lbs)]	#1009 Aluminum Coated

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Engine Description/Carb.
Engine Code

2.0L (121) L4 LQ5	2.8L (173) V6 LB6
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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		CCC control with pulse air	
	Air Injection	Pump or pulse	None	None
		Driven by	Exhaust pulses	None
		Air distribution (head, manifold, etc.)	Separate Manifold	None
		Point of entry	Exhaust Manifold	None
	Exhaust Gas Recircula- tion	Type (controlled flow, open orifice, other)	Controlled Flow	Not Available
		Exhaust source	Exhaust Manifold	Not Available
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold	Not Available
	Catalytic Converter	Type	Single bed, oxidizing and reducing	
		Number of	One	
		Location(s)	Mounted to center underbody	
		Volume [L (in ³)]	2.78 (170)	
		Substrate type	Monolith	
	Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum		
Discharges (to intake manifold, other)		Intake Manifold		
Air inlet (breather cap, other)		Carburetor Air Cleaner		
Evapora- tive Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	-	
	Vapor storage provision		Canister	
Electronic system	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single	
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		One-Reverse Flow	
Resonator no. & type		None	
Exhaust pipe	Branch o.d., wall thickness		
	Main o.d., wall thickness	45.95 1.02 min.	50.8 x 0.94 min.
	Material & Mass [kg (weight lbs)]	Stainless Steel	
Inter- mediate pipe	o.d. & wall thickness	50.8 1.09 min.	
	Material & Mass [kg (weight lbs)]	#1009 Aluminum Coated	
Tail pipe	o.d. & wall thickness	57.15 1.09 min.	50.8 x 1.09 min.
	Material & Mass [kg (weight lbs)]	#1009 Aluminum Coated	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Engine Description/Carb.
Engine Code

2.0L (121) L4 LQ5 ALL	1.8L (112) L4 LH8	2.8L V6 LB6
-----------------------------	-------------------------	-------------------

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	NA	NA	NA
Manual 4-speed (std., opt., n.a.) (mfr.)	Std.	NA	Std.
Manual 5-speed (std., opt., n.a.) (mfr.)	NA	Std.	NA
Manual overdrive (std., opt., n.a.) (mfr.)	NA	NA	NA
Automatic (std., opt., n.a.) (mfr.)	Opt.	Opt.	Opt.
Automatic overdrive (std., opt., n.a.) (mfr.)	NA	NA	NA

Manual Transmission/Transaxle

Number of forward speeds		4	5	4
Transmission ratios	In first	3.53	3.91	3.31
	In second	1.95	2.15	1.95
	In third	1.24	1.45	1.24
	In fourth	.81	1.03	.90
	In fifth	NA	.74	NA
	In overdrive	NA		NA
	In reverse	3.42	3.50	3.42
Synchronous meshing (specify gears)		All Forward Gears		
Shift lever location		Floor		
Lubricant	Capacity [L (pt.)]	2.8L	2.8L	2.8L
	Type recommended			
	SAE viscosity number	Summer	5W30	5W30
		Winter	5W30	5W30
		Extreme cold	5W30	5W30

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)		Borg & Beck	Daikin Dry Disc	Borge & Beck
Assist (yes, no / percent)				
Type pressure plate springs		Belleville Spring	Belleville Spring	Belleville Spring
Total spring load [N (lb.)]		5516 (1240)	5391 (1212)	6227 (1400)
No. of clutch driven discs		One		
Clutch facing	Material	Woven Molded Asbestos	Asbestos	Woven Mold. Nonasbt.
	Manufacturer	Borg & Beck	Daikin	Borg & Beck
	Part number	14087237	94148663	14087239
	Rivets/plate	32	16	32
	Rivet size	.143x.213	.197 (5.0)	.143x.213
	Outside & inside dia.	203.2x152.4 (8.0x6.0)	203.2x152.4 (8.0x6.0)	232x156 (9.1x6.1)
	Total eff. area [cm ² (in. ²)]	142 (22.0)	142 (22.0)	231 (34)
	Thickness	6.8/7.37 (.280)	8.3 + .3	7.49/8.0 (.305)
	Engagement cushion method	Drive Plate Wave Spoke Spring		
Release bearing	Type & method of lubrication	Ball Thrust-Prepacked & Sealed		
Torsional damping	Method: springs, friction material	Coil Springs & Metal to Metal Stops		

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Engine Description/Carb.
Engine Code

1.8L	2.0L	2.8L
112 L4	121 L4	(173) V6
LH8 ALL	LQ5	LB6

Automatic Transmission/Transaxle

Trade name		Turbo Hydramatic
Type and special features (describe)		3-speed with Torque Converter
Selector	Location	Floor
	Ltr./No. designation	PRND21
Gear ratios	R	2.07
	D	2.84, 1.60, 1.00
	L ₃	NA
	L ₂	2.84, 1.60
	L ₁	2.84
Max. upshift speed - drive range [km/h (mph)]		114 (71)
Max. kickdown speed - drive range [km/h (mph)]		109 (68)
Min. overdrive speed [km/h (mph)]		NA
Torque converter	Number of elements	Three
	Max. ratio at stall	2.70
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 mm
Lubricant	Capacity [refill L (pt.)]	3.75L (4 qts.)
	Type Recommended	Dextron II
Oil cooler (std., opt., NA, internal, external, air, liquid)		Std.-External, Oil to Engine Coolant

Axle or Front Wheel Drive Unit

Type (front, rear)		Front
Description		
Limited slip differential (type)		None
Drive pinion offset		NA
Drive pinion (type)		NA
No. of differential pinions		Two
Pinion / differential adjustment (shim, other)		NA
Pinion / differential bearing adjustment (shim, other)		NA
Driving wheel bearing (type)		Integral Double Row Ball Bearing
Lubricant	Capacity [L (pt.)]	
	Type recommended	ATF Dextron II
	SAE viscosity number	Summer
		Winter
	Extreme cold	

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

Axle ratio (or overall top gear ratio)		2.84	3.06	3.45	4.10
No. of teeth	Pinion	33	33	NA	NA
	Ring gear or gear	37	37	NA	NA
Ring gear o.d.		-	-	-	-
Transaxle	Transfer gear ratio	1.0	1.0	.74	.81
	Final drive ratio	3.18	3.43	2.55	3.32

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Engine Description/Carb.
Engine Code

2.0L	1.8L
121 L4	112 L4
LQ5 ALL	LH8

Axle Shafts – Front Wheel Drive

Number used		Two	
Type (straight, solid bar, tubular, etc.)		Left	Straight Solid Bar
		Right	Straight Solid Bar @
Outer diam. x length* x wall thickness	Manual transmission	Left	23.8x320.8 (.937x12.63) 23.8x352.95 (.937x13.90)
		Right	23.8x663.0 (.937x26.22) 23.8x698.40 (.937x27.50)
	Automatic transmission	Left	23.8x320.8 (.937x12.63 mm) 23.8x341.90 (.937x13.46)
		Right	23.8x363.0 (.937x14.29 mm) 23.8x395.2 (.937x15.56)
	Optional transmission	Left	–
		Right	–
Slip yoke	Type	None	
	Number of teeth	None	
	Spline o.d.	None	
Universal joints	Make and mfg. no.	Inner	Saginaw
		Outer	Saginaw
	Number used		Two on each drive shaft
	Type, size, plunge	Inner	Tripot, 63 mm Plunge
		Outer	61 mm
	Attach (u-bolt, clamp, etc.)		RZEPPA – fixed
	Bearing	Type (plain, anti-friction)	NA Antifriction
		Lubrication (fitting, prepack)	NA Prepack
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm, Upper McPherson Strut	
Torque taken through (torque tube, arms or springs)		Engine Mounting System	

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

@ Tubular R.H. Shaft with Manual Transmission – LQ5 Only

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (e) _____

Body Type And/Or
Engine Displacement

ALL

Suspension - General

Car leveling	Std./opt./n.a.	NA
	Type (air, hyd., etc.)	NA
	Manual/auto. controlled	NA
Provision for brake dip control		Front Suspension Geometry
Provision for accel. squat control		Rear Suspension Geometry
Provisions for car jacking		
Shock absorber (front & rear)	Type	Rear: MacPherson Strut Front: MacPherson Strut
	Make	Delco Products
	Piston diameter	Front: 32 mm Rear: 25 mm
	Rod diameter	Front: 25 mm Rear: 13 mm

Suspension - Front

Type and description		MacPherson Strut with Coil Spring
Drive and torque taken through		Strut & Lower Control Arm
Travel	Full jounce	86.5 mm
	Full rebound	84 mm
Spring	Type (coil, leaf, other) & material	Coil - Steel
	Insulators (type & material)	Top & Bottom - Rubber
	Size (coil design height & i.d., bar length x dia.)	Spring Computer Selected - Varies with Option Content
	Spring rate [N/mm (lb./in.)]	16 N/mm (Base Car)
	Rate at wheel [N/mm (lb./in.)]	12.3 N/mm (Base Car)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel: 24 mm (Base Car)

Suspension - Rear

Type and description		Trailing Crank Arm with Twist Beam
Drive and torque taken through		NA
Travel	Full jounce	137 mm
	Full rebound	68 mm
Spring	Type (coil, leaf, other) & material	Coil - Steel
	Size (length x width, coil design height & i.d., bar length & dia.)	Spring Computer Selected - Varies with Option Content
	Spring rate [N/mm (lb./in.)]	23 N/mm @ Curb - Variable (Base Car)
	Rate at wheel [N/mm (lb./in.)]	11.1 N/mm @ Curb - Variable (Base Car)
	Insulators (type & material)	Top & Bottom - Rubber
	If leaf	No. of leaves Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	NA (Base Car)
	Material & bar diameter	NA (Base Car)
Track bar (type)		NA

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

ALL

Brakes - Service

Description			Power Assisted Hydraulic Brakes
Brake type (std., opt., n.a.)	Front (disc or drum)		Std. - Disc
	Rear (disc or drum)		Std. - Drum
Self-adjusting (std., opt., n.a.)			Std.
Special valving	Type (proportion, delay, metering, other)		Proportioning, Diagonal Split Circuit
Power brake (std., opt., n.a.)			Std.
Booster type (remote, integral, vac., hyd., etc.)			Tandem Vacuum
Vacuum source (inline, pump, etc.)			Inline
Vacuum reservoir (volume in. ³)			None
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			NA
Anti-skid device type (std., opt., n.a.) (F/R)			NA
Effective area [cm ² (in. ²)]*			309 (47.9)
Gross lining area [cm ² (in. ²)]**(F/R)			381 (59.1)
Swept area [cm ² (in. ²)]*** (F/R)			1624 (251.8)
Rotor	Outerworking diameter	F/R	Frnt. - 247 (9.72)
	Inner working diameter	F/R	
	Thickness	F/R	Frnt. - 22.4 (.88)
	Material & type (vented/solid)	F/R	Frnt. - Vented Cast Iron
Drum	Diameter & width	F/R	Frnt. - 200 x 45 (7.87 x 1.77)
	Type and material	F/R	Cast Iron
Wheel cylinder bore			Frnt. - 57 (2.24) RR-16 (.63) (Wagon RR 17.5)
Master cylinder	Bore/stroke	F/R	Bore - 22 (.866) Stroke - 33.9 (1.33)
Pedal arc ratio			3.9:1
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			12900
Lining clearance		F/R	Both - Self Adjusting
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Inboard Integrally Molded-Inboard and Outboard
		Rivet size	7.92 x 5.33 (.312 x .21)
		Manufacturer	Delco Moraine
		Lining code*****	122 FE
		Material	Semi-Metallic
		**** Primary or out-board	116.7 x 47 x 10.92
		Size Secondary or in-board	125 x 47 x 10.2
		Shoe thickness (no lining)	4.72 IB (.186), 3.14 OB (1.23)
	Rear wheel	Bonded or riveted (rivets/seg.)	Riveted
		Manufacturer	Inland Division
		Lining Code*****	235 FE
		Material	Organic
		**** Primary or out-board	167.7 x 43.9 x 6 mm
		Size Secondary or in-board	194 x 43.9 x 7 mm
	Shoe thickness (no lining)	2.75 (.11)	

*Excludes rivet holes, grooves, chamfers, etc.

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

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

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

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

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METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

ALL

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P175/80R13
	Type (bias, radial, etc.)		Steel Belted Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	240 (35 PSI)
		Rear [kPa (psi)]	240 (35 PSI)
	Rev./mile—at 70 km/h (45 mph)		540 (869)
Wheels	Type & material		Steel
	Rim (size & flange type)		13 x 5.5 JB
	Wheel offset		48.0
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100.0 (3.94)
Number & size		5-12 mm	
Spare	Tire and wheel (same, if other describe)		T115/70D-14, Wheel Diameter 14 x 4, Inflation 415 (60 PSI)
	Storage position & location (describe)		Under Deck of Luggage Compartment

Tires And Wheels (Optional)

Size (load range, ply)		P195/70R13
Type (bias, radial, etc.)		Steel Belted Radial
Wheel (type & material)		Rally Wheel (Steel)
Rim (size, flange type and offset)		13 x 5.5 JB (49 mm offset)
Size (load range, ply)		P205/60R14
Type (bias, radial, etc.)		Radial
Wheel (type & material)		Styled Wheel (Steel)
Rim (size, flange type and offset)		13 x 5.5 JB (47 mm offset)
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		13 x 5.5 JB (48 mm offset)
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		14 x 6 JJ (47 mm offset)
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

Brakes - Parking

Type of control		Grip Handle
Location of control		Between Front Seats
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	NA
	Drum diameter	NA
	Lining size (length x width x thickness)	NA

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Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

ALL

Steering

Manual (std., opt., n.a.)		Std. on Firenza "S", Firenza Sedan & Firenza Cruiser	
Power (std., opt., n.a.)		Std. on Firenza "SX", Firenza "LX" & Firenza Cruiser "LX"	
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt	
	(Std., opt., n.a.)	Opt.	
Wheel diameter (W9) SAE J1100	Manual	375 mm (14.8)	
	Power	375 mm (14.8)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	10.6 (34.4)
	Inside rear	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	
Scrub Radius*			
Manual	Gear	Type	Rack & Pinion
		Make	Saginaw
		Ratios	
		Gear Overall	- 22.0:1
	No. wheel turns (stop to stop)	3.96	
Power	Type (coaxial, linkage, etc.)		Rack & Pinion w/ Integral Unit
	Make		Saginaw
	Gear	Type	Rack & Pinion
		Ratios	
		Gear Overall	- 16.0:1
	Pump (drive)		Belt Off Crankshaft Pulley
	No. wheel turns (stop to stop)		2.88
Linkage	Type		Center Take-off Tie Rods, Rack & Pinion
	Location (front or rear of wheels, other)		Rear
	Tie rods (one or two)		Two
Steering axis	Inclination at camber (deg.)		13.5°
	Bearings (type)	Upper	Ball Bearings
		Lower	Ball Joint
		Thrust	Incorporated in Upper Bearing
Steering spindle & joint type			
Wheel spindle	Diameter	Inner bearing	NA
		Outer bearing	NA
	Thread (size)		M20 x 1.5
	Bearing (type)		Integral Double Row Ball, Permanently Lubed

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

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Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Body Type And/Or
Engine Displacement

ALL

Wheel Alignment

(Cross Car Caster and Camber must be within 1°)

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	0.7° to 2.7°
		Camber (deg.)	0.2° to 1.5°
		Toe-in (outside track-mm (in.))	-.06° + 0.10° (Degrees per Wheel)
	Service reset*	Caster	0.7° to 2.7°
		Camber	0.2° to 1.5°
		Toe-in	-.06° + 0.10° (Degrees per Wheel)
	Periodic M.V. inspection	Caster	NA
		Camber	NA
		Toe-in	NA
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	NA
		Toe-in (outside track-mm (in.))	NA
	Service reset*	Camber	NA
		Toe-in	NA
	Periodic M.V. inspection	Camber	NA
		Toe-in	NA

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

Electrical – Instruments and Equipment

Speedometer	Type	Dial with Pointer
	Trip odometer (std., opt., n.a.)	Opt.
EGR maintenance indicator		NA
Charge indicator	Type	Indicator Lamp
	Warning device	Indicator Lamp
Temperature indicator	Type	Indicator Lamp
	Warning device	Indicator Lamp
Oil pressure indicator	Type	Indicator Lamp
	Warning device	Indicator Lamp
Fuel indicator	Type	Gauge
	Warning device	NA
Wind-shield wiper	Type (standard)	Electric 2-speed
	Type (optional)	Pulse Wiper System
	Blade length	430 (16.0)
	Swept area [cm ² (in. ²)]	Coupe 5074.2 (787), Sedan & Wagon 5085.0 (788.3)
Wind-shield washer	Type (standard)	Push Button (Fluidic)
	Type (optional)	NA
	Fluid level indicator	NA
Horn	Type	Vibrator
	Number used	Single, Dual Horn Opt.
Other		

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METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Engine Description/Carb.
Engine Code

1.8L	2.0L
(112) L4	(121) L4
LH8 (ALL)	LQ5

Electrical – Supply System

Battery	Make	Delco Remy	
	Model, std., (opt.)	Std. - Freedom Battery	
	Voltage	12V	
	Amps at 0°F cold crank	500	500
	Minutes-reserve capacity	90 min.	90 min.
	Amp/hrs. - 20 hr. rate	54	54
	Location	Under Hood Front	
Generator or alternator	Type and rating	Diode Rectified (56 Amps)	66
	Ratio (alt. crank/rev.)	2.3:1	
	Optional (type & rating)	78 Amp, 66 Amp.	78 Amp.
Regulator	Type	Integral w/ Alternator	

Electrical – Starting System

Start, motor	Current drain at 0°F	315 Amps @ -20°F	305 Amps @ -20°F
Motor drive	Engagement type	Overrunning Clutch	Solenoid
	Pinion engages from (front, rear)	Front	

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)	Std.	
	Other (specify)	High Energy Ignition System (HEI)	
Coil	Make	Delco Remy	
	Model	Remote Mounted from Dist.	1115461
	Current	Engine stopped - A	0-Amp.
		Engine idling - A	5.1 max. 3.5 max.
Spark plug	Make	AC Division	
	Model	R44XLS	R42CTS
	Thread (mm)	14 mm	
	Tightening torque (N·m (lb. ft))	20-34 (15-25)	9-20 (7-15)
	Gap	.89 (.035)	
	Number per cylinder		
Distributor	Make	Delco Remy	
	Model	1103609	1103567

Electrical – Suppression

Locations & type	Internal alternator capacitor, non-metallic high tension cables, resistor spark plugs, ignition coil bypass capacitor, A/C compression diode, engine to dash panel ground strap, fuse block capacitor.
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Car Line Firenza

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Body Type

ALL

Body

Structure

Unitized Frame

Bumper system
front - rear

Anti-corrosion treatment

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Acrylic Lacquer or Water Base Acrylic Lacquer
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	Gas Rods on Station Wagon-Torque Rods on Coupe & Sedan
	Internal release control (elec., mech., n.a.)	Electrical (Opt.)
Hatch-back lid	Type (counterbalance, other)	Gas Rods
	Internal release control (elec., mech., n.a.)	Electrical (Opt.)
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	None
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Foam
	Rear	Foam
	3rd seat	None
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Foam
	Rear	Foam
	3rd seat	None
Vehicle ID number location		Left Topside of I/P

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Car Line Firenza
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Body Type

J27	J77	J69	J35
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Restraint System

Active restraint system	Standard/optional	
	Type and description	
	Location	
Passive seat belts	Standard/optional	
	Power/manual	
	2 or 3 point	
	Knee bar/lap belt	

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Frame
---	----------------

Glass	SAE Ref. No.				
Windshield glass exposed surface area [cm ² (in. ²)]	S1	7487 (1161)	7487 (1161)	7487 (1161)	7487 (1161)
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	10,902 (1689)	11,478 (1779)	11,532 (1787)	16,954 (2627)
Backlight glass exposed surface area [cm ² (in. ²)]	S3	5154 (798)	8685 (1346)	5691 (882)	4892 (758)
Total glass exposed surface area [cm ² (in. ²)]	S4	23,543 (3649)	27,650 (4285)	24,710 (3830)	29,333 (4546)
Windshield glass (type)		Curved Laminated Plate			
Side glass (type)		Curved Laminated Plate			
Backlight glass (type)		Curved Laminated Plate			

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Firenza

Model Year 1986

Issued

Revised (●)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.

SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	Coupe	JC27	Sedan	Wagon
Width					
Tread (front)	W101	1407 (55.4)		1407 (55.4)	1407 (55.4)
Tread (rear)	W102	1402 (55.2)		1402 (55.2)	1402 (55.2)
Vehicle width	W103	1650 (65.0)		1652 (65.0)	1652 (65.0)
Body width at Sg RP (front)	W117	1652 (65.0)		1652 (65.0)	1652 (65.0)
Vehicle width (front doors open)	W120	3684 (145.0)		3218 (126.7)	3218 (126.7)
Vehicle width (rear doors open)	W121	-		2832 (111.5)	2832 (111.5)
Front fender overall width	W106				
Rear fender overall width	W107	1677 (66.0)		1685 (66.3)	1685 (66.3)
Tumble-home (deg.)	W122	21.5°		21.5°	22.0°

Length

Wheelbase	L101	2571 (101.2)		2571 (101.2)	2571 (101.2)
Vehicle length	L103	4426 (174.3)		4476 (176.2)	4476 (176.2)
Overhang (front)	L104	935 (36.8)		935 (36.8)	935 (36.8)
Overhang (rear)	L105	920 (36.2)		970 (38.2)	958 (37.7)
Upper structure length	L123	2800 (110.2)	2335 (91.9)	2363 (93.0)	2924 (115.1)
Rear wheel C/L "X" coordinate	L127				2354 (92.7)
Cowl point "X" coordinate	L125	247 (9.7)		245 (9.6)	246 (9.7)
Front end length at centerline	L126				
Rear end length at centerline	L129				

Height **

Passenger distribution (front/rear)	PD1.2.3	2/0**	2/0**	2/0**
Trunk/cargo load		0**	0**	0**
Vehicle height	H101	1314.1 (51.7)	1365.1 (53.7)	1402.9 (55.2)
Cowl point to ground	H114	931.2 (36.7)	931.2 (36.7)	936.0 (36.9)
Deck point to ground	H138	917.0 (36.1)	870.0 (34.3)	-
Rocker panel-front to ground	H112	219.3 (8.6)	219.3 (8.6)	225.1 (8.8)
Bottom of door closed-front to grd.	H133	309.2 (12.2)	309.2 (12.2)	314.7 (12.4)
Rocker panel-rear to ground	H111	211.6 (8.3)	211.6 (8.3)	226.4 (8.9)
Bottom of door closed-rear to grd.	H135	-	310.1 (12.2)	324.1 (12.8)
Windshield slope angle	H122			
Backlight slope angle	H121			

Ground Clearance **

Front bumper to ground	H102	291 (11.5)	291 (11.5)	288 (11.3)
Rear bumper to ground	H104	380 (15.0)	380 (15.0)	326 (12.8)
Bumper to ground [front at curb mass (wt.)]	H103	311 (12.2)	311 (12.2)	308 (12.1)
Bumper to ground [rear at curb mass (wt.)]	H105	410 (16.1)	410 (16.1)	351 (13.8)
Angle of approach (degrees)	H106	14.2°	14.2°	14.1°
Angle of departure (degrees)	H107	17.8°	17.8°	19.6°
Ramp breakover angle (degrees)	H147	17.5°	17.5°	17.6°
Axle differential to ground (front : rear)	H153	-	-	-
Min. running ground clearance	H156	163.4 (6.4)	163.4 (6.4)	170.5 (6.7)
Location of min. run. grd. clear.		Converter Shield	Converter Shld 4-Cyl. Engine Oil	Pan

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

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

MVMA Specifications Form**Passenger Car****METRIC (U.S. Customary)
Car and Body Dimensions**

See Key Sheets for definitions

Car Line FirenzaModel Year 1986

Issued _____

Revised (●) _____

Body Type

SAE
Ref.
No.

Coupe

/

JC27

Sedan

Front Compartment

Sg RP front, "X" coordinate	L31	1113 (43.8)	1113 (43.8)
Effective head room	H61	946 (37.2)	958 (37.7) 971 (38.2) JC69 980 (38.6)
Max. eff. leg room (accelerator)	L34	1071 (42.1)	1072 (42.2)
SgRP to heel point	H30	233 (9.2)	257 (10.1)
SgRP to heel point	L53	872 (34.3)	866 (34.1)
Back angle	L40	25°	25°
Hip angle	L42	96°	98°
Knee angle	L44	126.5°	127°
Foot angle	L46	87°	87°
Design H-point front travel	L17	192 (7.6)	192 (7.6)
Normal driving & riding seat track trvl.	L23	171 (6.7)	171 (6.7)
Shoulder room	W3	JC77-1358(53.5) JD77-1358(53.5)	JC69-1357(53.4) JD69-1357(53.4)
Hip room	W5	JC77-1340(52.8) JD77-1280(50.4)	1247(49.1)
** Upper body opening to ground	H50		
Steering wheel maximum diameter	W9	378 (14.9)	378 (14.9)
Steering wheel angle	H18	20°	20°
Accel. heel pt. to steer. whl. cntr	L11		
Accel. heel pt. to steer. whl. cntr	H17		
Steering wheel to C/L of thigh	H13	94 (3.7)	82 (3.2)
Steering wheel torso clearance	L7	388 (15.3)	377 (14.8)
Headlining to roof panel (front)	H37	10 (.4)	19 (.7)
Undepressed floor covering thickness	H67	16 (.6)	16 (.6)

All Interior Dimensions Are Measured With The Seating Reference Point (SgRP) 21 mm (1 Seat Adjuster Notch) Forward Of Rearmost Seat Position.**Rear Compartment**

Sg RP Point couple distance	L50	715 (28.1)	720 (28.3)	758 (29.8)
Effective head room	H63	916 (36.1)	931 (36.7)	954 (37.6) JC69 964 (38.0)
Min. effective leg room	L51	807 (31.8)		871 (34.3)
Sg RP (second to heel)	H31	252 (9.9)	259 (10.2)	272 (10.7)
Knee clearance	L48	-24 (-0.9)	-21 (-0.8)	7 (.3)
Compartment room	L3	652 (25.7)	635 (25.0)	657 (25.9)
Shoulder room	W4	1322 (52.0)	1335 (52.6)	JC69-1353(53.3) JD69-1353(53.3)
Hip room	W6	1234 (48.6)	1265 (49.8)	JC69-1245(49.0) JD69-1255(49.4)
** Upper body opening to ground	H51	NA		1234 (48.9)
Back angle	L41	25°		26°
Hip angle	L43	78°		83°
Knee angle	L45	78.5°		85°
Foot angle	L47	115.5°		118.0°
Headlining to roof panel (second)	H38	9 (.4)		8 (.3)
Depressed floor covering thickness	H73	18 (.7)		18 (.7)

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	419 (14.8)	356.3 (12.6)	387.0 (13.7)
** Litter height	H195	833 (32.8)		832 (32.8)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Compact 100.2 Ave.	
Interior volume index (cu. ft.)		83.149	88.850
Trunk/cargo index (cu. ft.)		14.768	13.669

All linear dimensions are in millimeters (inches).

** EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line Firenza
 Model Year 1986 Issued _____ Revised (•) _____

Body Type

ALL

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

Air conditioning (manual, auto. temp control)		(C60) Opt.-Manual
Clock (digital, analog)		Part of Radio Package
Compass / thermometer		NA
Console (floor, overhead)		(D06) Opt.-Floor
Defroster, elec. backlight		(C49) Opt.-Electric
Electronic	Diagnostic warning (integrated, individual)	
	Instrument cluster (list instruments)	(U21) Opt.-3JC00 & 3JD69 Std.-3JD27 & 3JD77
	Keyless entry	NA
	Trip/reminder (avg. spd., fuel)	NA
	Voice alert (list items)	NA
	Other	
Fuel door lock (remote, key, electric)		(N09) Opt. (Except 3JD77)
Lamps	Auto head on / off delay, dimming	NA
	Cornering	NA
	Courtesy (map, reading)	Opt.
	Door lock, ignition	NA
	Engine compartment	Opt.
	Fog	NA
	Glove compartment	Opt.
	Trunk	Opt.
	Other	
Mirrors	Day/night (auto. man.)	Std.-Manual
	L.H. (remote, power, heated) #	(D33) Opt.- (Only 3JC00) REM (DSI) Std.- (3JC00 Only) Direct
	R. H. (convex, remote, power, heated)	(D35) Opt.- (3JC00) Std.- (3JD00) Direct Cont. Cont.
	Visor vanity (RH / LH, illuminated)	Opt.
Parking brake-auto release (warning light)		NA
Power equipment	Door locks / deck lid - specify	(AU3) Opt.-Door Locks
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	(AC3) Opt.-6-way, Power, Bucket Seat, Driver Only
	Side windows	(A31) Opt.
	Vent windows	NA
	Rear window	NA
Radio systems	Antenna (location, whip, w/shield, power)@	(U56) Std. Fixed Only 3JD77; (U73) Std. Fixed exc. 3JD77;
	AM, FM, stereo, tape, CB *	(U63) Std.-AM, Mtr; (UK4) Opt.-AM/FM Stereo, Seek & Scan,
	Speaker (number, location) Premium sound +	(UX6) Std.-Frt., Dual; (U66) Opt.-4, Dual Frt. Dash Mtd;
Roof open air/fixd (flip-up, sliding, "T")		(AD3) Opt.-exc. 3JC35-Hinged Roof Window
Speed control device		(K34) Opt.
Speed warning device (light, buzzer, etc.)		NA
Tachometer (rpm)		NA
Theft protection-type		NA

(D35) Opt. (3JC00) Std. (3JD00)-REM cont.

@ (U75) Opt.-Power

* ETR; (UM6) Opt.-AM/FM Stereo, Seek & Scan, Auto Rev., Cassette, Clock, ETR; (UM7) Opt.-AM/FM Stereo, Seek & Scan, Clock, ETR
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+ (Extd. Range); (U64) Opt.-4, Dual Frt. Dash Mtd. (Std. Range)

MVMA Specifications Form**Passenger Car****METRIC (U.S. Customary)****Car and Body Dimensions** See Key Sheets for definitionsCar Line FirenzaModel Year 1986

Issued _____

Revised (•) _____

Body Type

SAE
Ref.
No.

Station Wagon

Front Compartment

Sg RP front, "X" coordinate	L31	1113 (43.8)
Effective head room	H61	967 (38.1)
Max. eff. leg room (accelerator)	L34	1072 (42.2)
SgRP to heel point	H30	256 (10.1)
SgRP to heel point	L53	
Back angle	L40	25°
Hip angle	L42	
Knee angle	L44	
Foot angle	L46	
Design H-point front travel	L17	192 (7.6)
Normal driving & riding seat track trvl.	L23	
Shoulder room	W3	JC35-1355 (53.3) JD35-1356 (53.4)
Hip room	W5	1244 (49.0)
** Upper body opening to ground	H50	1241 (48.9)
Steering wheel maximum diameter	W9	
Steering wheel angle	H18	20°
Accel. heel pt. to steer. whl. cntr	L11	
Accel. heel pt. to steer. whl. cntr	H17	
Steering wheel to C/L of thigh	H13	
Steering wheel torso clearance	L7	
Headlining to roof panel (front)	H37	
Undepressed floor covering thickness	H67	

All Interior Dimensions Are Measured With The Seating Reference Point (SgRP) 21 mm (1 Seat Adjuster Notch) Forward Of Rearmost Seat Position.**Rear Compartment**

Sg RP Point couple distance	L50	741 (29.2)
Effective head room	H63	980 (38.6)
Min. effective leg room	L51	857 (33.7)
Sg RP (second to heel)	H31	259 (10.2)
Knee clearance	L48	2 (0.1)
Compartment room	L3	660 (26.0)
Shoulder room	W4	JC35-1342 (52.8) JD35-1350 (53.1)
Hip room	W6	JC35-1250 (49.2) JD35-1262 (49.7)
** Upper body opening to ground	H51	1244 (49.0)
Back angle	L41	
Hip angle	L43	
Knee angle	L45	
Foot angle	L47	
Headlining to roof panel (second)	H38	
Depressed floor covering thickness	H73	

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	
** Lifter height	H195	636 (25.0)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Small 122.9 Average
Interior volume index (cu. ft.)		89.340
Trunk/cargo index (cu. ft.)		33.577

All linear dimensions are in millimeters (inches).

** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form**Passenger Car****METRIC (U.S. Customary)****Car and Body Dimensions** See Key Sheets for definitionsCar Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

Body Type

SAE
Ref.
No.

Station Wagon

Station Wagon – Third Seat

NA

Sg RP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon – Cargo Space

Cargo length (open front)	L200	NA
Cargo length (open second)	L201	NA
Cargo length (closed front)	L202	1709 (67.3)
Cargo length (closed second)	L203	980 (38.6)
Cargo length at belt (front)	L204	1581 (62.2)
Cargo length at belt (second)	L205	837 (33.0)
Cargo width (wheelhouse)	W201	944 (37.2)
Rear opening width at floor	W203	1226 (48.3)
Opening width at belt	W204	1206 (47.5)
Max. rear opening width above belt	W205	970 (38.2)
Cargo height	H201	846 (33.3)
Rear opening height	H202	764 (30.1)
Tailgate to ground height	H250	NA
Front seat back to load floor height	H197	–
Cargo volume index [m ³ (ft. ³)]	V2	1795 (63.4) JD35-1806 (63.8)
Hidden cargo volume [m ³ (ft. ³)]	V4	–
Cargo volume, index-rear of 2-seat	V10	

Hatchback – Cargo Space

Coupe

Cargo length at front seatback height	L208	1410 (55.5)
Cargo length at floor (front)	L209	1654 (65.1)
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	542 (21.3)
Second seatback to load floor height	H198	
Cargo volume index [m ³ (ft. ³)]	V3	1097.7 (43.2)
Hidden cargo volume [m ³ (ft. ³)]	V4	–
Cargo volume index-rear of 2-seat	V11	419.1 (16.5)

Aerodynamics*

NA

Wheel lip to ground, front	
Wheel lip to ground, rear	
Frontal area [m ² (ft. ²)]	
Drag coefficient (Cd)	

* EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form
Passenger Car
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Car Line Firenza
 Model Year 1986 Issued _____ Revised (●) _____

Body Type

ALL

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front	X	Fiducial mark to vertical base grid line - front, measured horizontally from base grid line to the front fiducial mark located on top of front seat adjuster mounting bolt.
	Y	Fiducial mark to centerline of car - front, width measurement made from centerline of car to the fiducial mark located on top of the front seat adjuster mounting bolt.
	Z	Fiducial mark to horizontal base grid line - front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear	X	Fiducial mark to vertical base grid line - rear, measured horizontally from the base grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).
	Y	Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal).
	Z	Fiducial mark to horizontal base grid line - rear, measured vertically from base grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).
Fiducial Mark Number		
		Coupe (ALL) Sedan/Wagon
Front	W21	504 (19.8) 504 (19.8)
	L54	2746 (108.1) 2746 (108.1)
	H81	246 (9.7) 246 (9.7)
	H161	
	** H163	
Rear	W22	440 (17.3) 440 (17.3)
	L55	4900 (192.9) 4951 (194.9)
	H82	362 (14.3) 362 (14.3)
	H162	
	** H164	

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

All linear dimensions are in millimeters (inches).

** EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line Firenza
 Model Year 1986 Issued _____ Revised (●) _____

Body Type

Coupe/Sedan _____ Wagon _____

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	673 (26.5)	671.1 (26.4)
		Lowest		
	Taillamp (SAE - H128)	Highest**	727 (28.5)	690.5 (27.2)
		Lowest		
	Sidemarker	Front		
		Rear		
Distance from C/L of car to center of bulb	Headlamp	Inside		
		Outside**	586 (23.1)	586 (23.1)
	Taillamp	Inside		
		Outside**	645 (25.4)	714 (28.1)
	Directional	Front	445 (17.5)	445 (17.5)
		Rear	645 (25.4)	714 (28.1)
Halogen headlamp (std., opt., n.a.)	Lo beam			
	Hi beam			
	Replaceable bulb			
	Shape			
Headlamp other than above	Lo beam			
	Hi beam			
	Replaceable			
	Shape			
	Type			

* Measured at curb mass (weight).
 ** If single lamps are used enter here.

METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (●) _____

* Reference – SAE J1100 Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition –

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Firenza
Model Year 1986 Issued _____ Revised (•) _____

		Optional Equipment Differential Mass (weight)*			
Equipment		MASS, kg. (weight, lb.)			Remarks
		Front	Rear	Total	
Power Windows	A31	1.7	1.1	2.8	
Coupe		(3.7)	(2.4)	(6.1)	
Power Windows	A31	2.0	3.1	5.1	
Sedan/Wagon		(4.4)	(6.8)	(11.2)	
Front Floor Mats	B34	.9	.4	1.3	
		(2.0)	(.9)	(2.9)	
Rear Floor Mats	B35	.3	.7	1.0	
		(.7)	(1.5)	(2.2)	
Air Conditioning	C60	27.8	-3.2	24.6	
Coupe		(61.3)	(-7.1)	(54.2)	
Air Conditioning	C60	28.9	-3.0	25.9	
Sedan		(63.7)	(-6.6)	(57.1)	
Air Conditioning	C60	27.8	-2.0	25.8	With IQ5 Engine
Wagon		(61.3)	(-4.4)	(56.9)	
Air Conditioning	C60	24.7	-2.4	22.3	With LH8 Engine
		(54.5)	(-5.3)	(49.2)	
Cruise Control	K34	1.2	.0	1.2	
		(2.6)	(0.0)	(2.6)	
Engine Option	LH8	.9	-1.8	-.9	
Coupe		(1.9)	(-3.9)	(-2.0)	
Power Steering	N40	7.2	.2	7.4	
		(15.9)	(.4)	(16.3)	
Wire Wheel Disc	N91	3.7	3.6	7.3	
		(8.2)	(7.9)	(16.1)	
Sedan	LH8	3.8	1.6	5.4	
		(8.3)	(3.5)	(11.8)	
Station Wagon	LH8	6.4	-1.0	5.4	
		(14.0)	(-2.2)	(11.8)	
Engine Option	LB6	40.0	6.0	46.0	
		(88.2)	(13.2)	(101.4)	

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

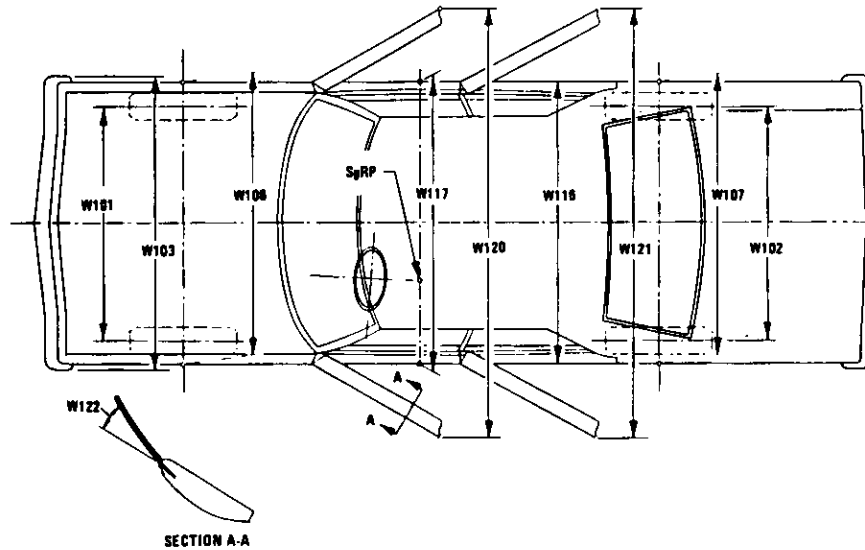
MVMA Specifications Form

Passenger Car

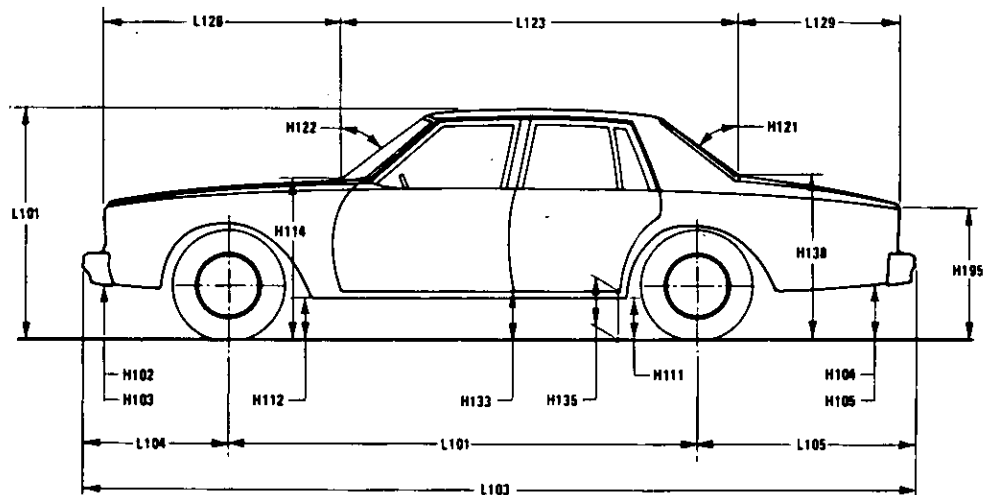
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

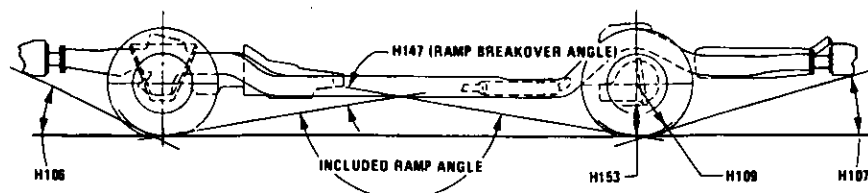
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

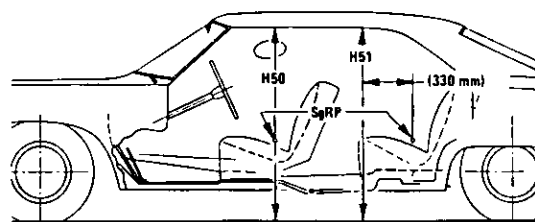
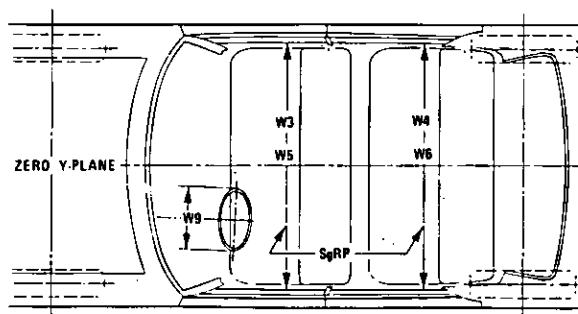
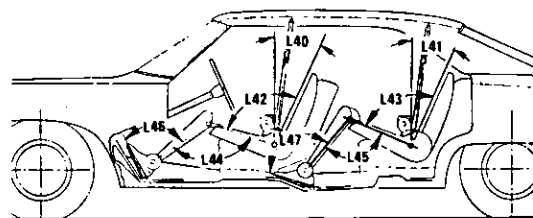
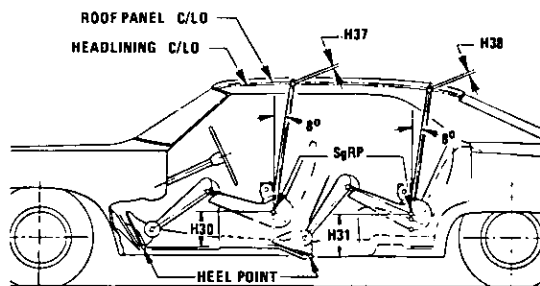
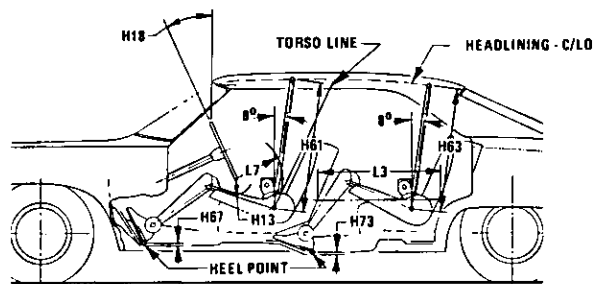
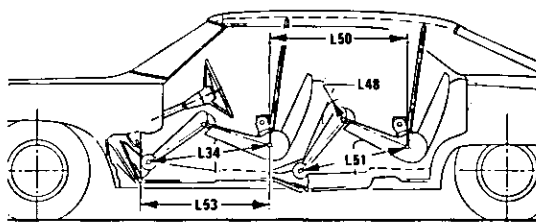


MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

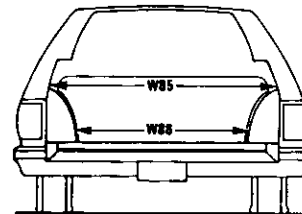
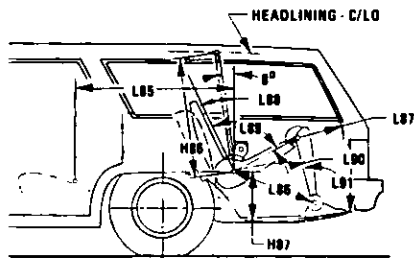
Interior Car And Body Dimensions – Key Sheet



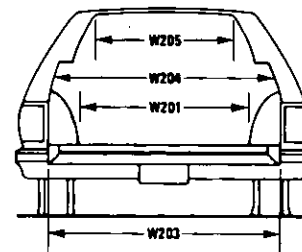
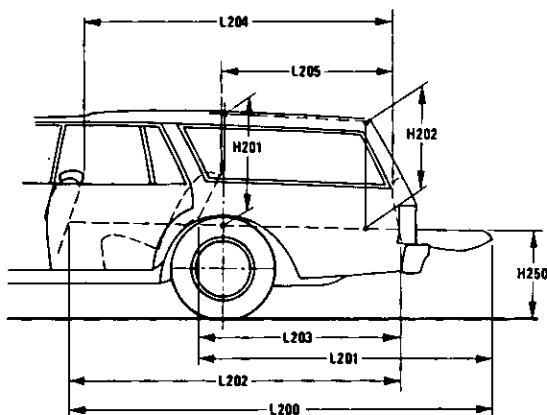
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

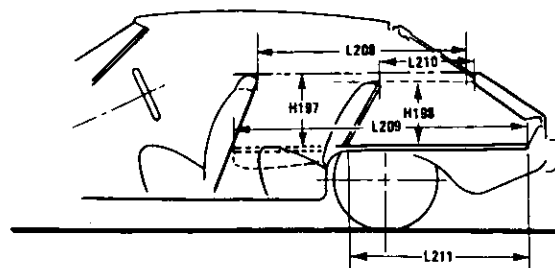
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

Dimensions Definitions

Seating Reference Point

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

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

Width Dimensions

- W101 TREAD–FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD–REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- W117 BODY WIDTH AT SgRP–FRONT. The dimension measured laterally between the widest points on the body at the SgRP–front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH–FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH–REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE–HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

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

dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL–REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL–FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in) long drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamps to ground.
- H128 TAILLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.
- H133 BOTTOM OF DOOR CLOSED–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED–REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

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.

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METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Glass Areas

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

Fiducial Mark Dimensions

Fiducial Mark – Number 1

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

Fiducial Mark – Number 2

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

Front Compartment Dimensions

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT–FRONT TRAVEL. The dimension measured horizontally between the design H-point–front in the foremost and rearmost seat track positions.
- L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions.
- L31 SgRP–FRONT. "X" COORDINATED.

- L34 MAXIMUM EFFECTIVE LEG ROOM–ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP–front plus 254 mm (10.0 in) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L40 BACK ANGLE–FRONT. The angle measured between a vertical line through the SgRP–front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42 HIP ANGLE–FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE–FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE–FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP–FRONT TO HEEL. The dimension measured horizontally from the SgRP–front to the accelerator heel point.
- W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front at height between the belt line and 254 mm (10.0 in.) above the SgRP–front, excluding the door assist strap and attaching parts.
- W5 HIP ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP–front and 76 mm (3.0 in.) fore and aft of the SgRP–front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP–FRONT TO HEEL. The dimension measured vertically from the SgRP–front to the accelerator heel point.
- H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50 UPPER BODY OPENING TO GROUND–FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP–front "X" plane.
- H61 EFFECTIVE HEAD ROOM–FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP–front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS–UNDEPRESSED–FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
- PD1 PASSENGER DISTRIBUTION–FRONT.

Rear Compartment Dimensions

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

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METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

- L41 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 front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

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

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

Station Wagon – Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP-third.
- L86 EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SgRP-third plus 254 mm (10.0 in.).
- L87 KNEE CLEARANCE-THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE-THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE-THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM-THIRD. Measured in the same manner as W4.
- W86 HIP ROOM-THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM-THIRD. The dimension, measured along a line 8 deg. rear from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- PD3 PASSENGER DISTRIBUTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

Station Wagon – Cargo Space Dimensions

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

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Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

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

V2 STATION WAGON

Measured in inches:

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

Measured in mm:

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

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

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

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

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

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

Measured in mm:

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

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

V10 STATION WAGON CARGO VOLUME INDEX.

Measured in inches:

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

Measured in mm:

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

Hatchback – Cargo Space Dimensions

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

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

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

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

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

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

- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seat back to the undeepressed floor covering.

V3 HATCHBACK.

Measured in inches:

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

Measured in mm:

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

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

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

Measured in inches:

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

Measured in mm:

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

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