MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1987

Manufacturer	Pontiac Motor Division General Motors Corporation	Car Line	FIERO
Mailing Address	Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued NOVEMBER, 1986	Revised

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

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

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

Blank Forms Provided by Technical Affairs Division

MVMA

Motor Vehicle Manufacturers Association of the United States, Inc.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Table of Contents

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.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load–Kilograms (Pounds)
REAR WHEEL DRIVE MID-ENGINE				
FIERO COUPE		2PE37	2 (2/0)	45.4 (100.1)
FIERO SPORT COUPE		2PM37	2 (2/0)	45.4 (100.1)
FIERO SE		2PF37	2 (2/0)	45.4 (100.1)
FIERO GT		2PG97	2 (2/0)	45.4 (100.1)

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

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					Exhaust S/D	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in^3)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM: Power kW (bhp)	SAE Net at RPM: Torque N • m (lb. ft.)			
	L4							
FIERO COUPE	2.5L	SFI	8.3:1	(92	(135	S	MAN. 5-SPD.	3.35
2PE37	(151	*		@	@		BASE	
ALL STATE-BASE	CID)			4800)	3200)		AUTO 3-SPD.	
(EXCEPT 2PG-97)	LR8						OPT.	2.84
FIERO-2PM37	L4	EFI	8.3:1	(92	(135	S	MAN. 5-SPD	3.35
SPORT COUPE	2.5L	*		@	@		BASE	
& SE COUPE	(151			4800)	3200)		AUTO 3-SPD.	
2PF37	CID)						OPT.	2.84
ALL STATES-BASE	LR8							
(EXEPT 2PG97)								
FIERO-SE	V6	MPFI	8.5:1	(135	(165		MAN. 5-SPD.	3.61
OPTIONAL	2.8L			@	@		BASE	
ALL STATES	(173			4500)	3600)		AUTO 3-SPD.	3.33
(EXCEPT 2PG97	CID)						OPT.	
BASE.)	L44							

*-ELECTRONIC FUEL INJECTION.
**-MULTI-PORT FUEL INJECTION.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LR8	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)		MID-ENGINE, TRASVERSE MOUNTED	
Manufacturer		PONTIAC	CHEVROLET
No. of cylinders		4	6
Bore		101.6 (4.00)	89.0 (3.50)
Stroke		76.2 (3.00)	76.0 (2.99)
Bore spacing (C / L to C / L)		111.8 (4.40)	
Cylinder block material & mass kg (lbs.) (machined)		CAST ALLOY IRON 42.554 (93.8)	CAST ALLOY IRON 41.731
Cylinder block deck height		236.1 (9.30)	224..0 (8.82)
Cylinder block length			
Deck clearance (minimum) (above or below block)		0.64 (0.025) BELOW	0.62 (0.024) BELOW
Cylinder head material & mass kg (lbs.)		CAST ALLOY IRON 19.140 (42.2)	CAST ALLOY IRON 11.227 (24.8)
Cylinder head volume (cm^3)		- -	- -
Cylinder liner material			
Head gasket thickness (compressed)		0.97 (0.038)	0.838 (0.033)
Minimum combustion chamber total volume (cm^3)		70.82 (4.32)	63.417 (3.869) @
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4	1-3-5
	R. Bank	- -	2-4-6
Firing order		1-3-4-2	1-2-3-4-5-6
Intake manifold material & mass [kg (lbs.)]**		ALUMINUM CAST 6.580 (14.5)	CAST ALUMINUM 3.810 (8.4)
Exhaust manifold material & mass [kg (lbs.)]**		STAINLESS STEEL 1.980 (4.4)	CAST IRON, LH 2.200 (4.9), RH-2.600 (5.7)
Recommended fuel (leaded, unleaded, diesel)		UNLEADED	
Fuel antiknock index (R + M) / 2		87	
Total dressed engine mass (wt) dry***		154.9 (341.7) AUTO. 165.5 (364.9) MAN.	184.8 (407.3) AUTO.

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	CAST ALUMINUM ALLOY .660 (23.3)	CAST ALUMINUM ALLOY, FLAT HEAD .467 (16.5)

Engine – Camshaft

Location		RIGHT SIDE OF BLOCK	IN BLOCK ABOVE CRANKSHAFT
Material & mass kg (weight, lbs.)		CAST NODULAR IRON 3.411 (7.519)	CAST IRON, 3.098 (6.83)
Drive type	Chain / belt	GEAR	CHAIN
	Width / pitch	- -	19.4 (.764)/9.53 (3.75)

* 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:

OIL AND COOLANT

@ PISTON AT TDC, SPARK PLUG AND VALVES IN PLACE, AND CYLINDER HEAD TORQUED TO SPECIFICATIONS.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LR8	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44

Engine – Valve System

Hydraulic lifters (std., opt., NA)		STANDARD (ROLLER LIFTERS)	
Valves	Number intake / exhaust	4/4	6/6
	Head O.D. intake / exhaust	43.69 91.72)/38.10.(1.50)	43.69 (1.72)/36.20 (1.43)

Engine – Connecting Rods

Material & mass [kg., (weight, lbs.)]*	CAST ARMA STEEL/0.621 (1.37)	SAE 1037 OR 1038 STEEL/0.602 (1.327)

Engine – Crankshaft

Material & mass [kg., (weight, lbs.)]*		NODULAR CAST IRON/12.51 (27.52)	NODULAR CAST IRON/14.17 (31.24)
End thrust taken by bearing (no.)		5	3
Number of main bearings		5	4
Seal (material, one, two piece design, etc.)	Front		
	Rear		

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	259 (37.5)	345-450 (50-65) @ 1200
Type oil intake (floating, stationary)	STATIONARY	
Oil filter system (full flow, part, other)	FULL FLOW	
Capacity of c/case, less filter-refill-L (qt.)	2.8 (3.0)	3.8 (4.0)

Engine – Diesel Information

Diesel engine manufacturer		NOT APPLICABLE
Glow plug, current drain at 0°F		
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine – Intake System

Turbo charger - manufacturer	NOT APPLICABLE
Super charger - manufacturer	
Charge cooler	

*Finished State

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LR8		2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44		
	HEATER	A/C	A/C (V08)	A/C	HEATER

Engine – Cooling System

Coolant recovery system (std., opt., n.a.)			STANDARD			
Coolant fill location (rad., bottle)			BOTTLE			
Radiator cap relief valve pressure [kPa (psi)]			103.4 (15.0)			
Circulation thermostat	Type (choke, bypass)		CHOKE			
	Starts to open at °C (°F)		90 (195°)			
Water pump	Type (centrifugal, other)		CENTRIFUGAL			
	GPM 1000 pump rpm		NOT AVAILABLE			
	Number of pumps		ONE			
	Drive (V-belt, other)		V-BELT			
	Bearing type		SEALED DOUBLE ROW BALL			
	Impeller material		NOT AVAILABLE			
	Housing material		" "			
By-pass recirculation [type (inter,. ext.)]		EXTERNAL	INTERNAL	EXTERNAL	INTERNAL	INTERNAL
Cooling system capacity	With heater–L(qt.)		13.0 (13.8)			
	With air cond.–L(qt.)		13.0 (13.8)			
	Opt. equipment [specify–L(qt.)]		NOT AVAILABLE			
Water jackets full length of cyl. (yes, no)			YES			
Water all around cylinder (yes, no)			YES			
Water jackets open at head face (yes, no)			NO			
Radiator core	Std., A/C, HD	STD	A/C	A/C - H.D.		
	Type (cross-flow, etc.)		CROSS-FLOW			
	Construction (fin & tube mechanical, braze, etc.)		NOT AVAILABLE			
	Material, mass [kg (wgt, lbs.)]		ALUMINUM			
	Width		500			430
	Height		38.2			
	Thickness	23.5	23.5	34.0	34.0	23.5
	Fins per inch	14.5	20.3	12.7	12.7	
Radiator end tank material			NOT AVAILABLE			
Fan	Std., elec., opt.		ELECTRIC			
	Number of blades & type (flex, solid, material)	7	5	PLASTIC 7	5	7
	Diameter & projected width	385 DIA	415 DIA	385 DIA	415 DIA	385 DIA
	Ratio (fan to crankshaft rev.)		FIXED			
	Fan cutout type		NOT AVAILABLE			
	Drive type (direct, remote)		ELECTRIC			
	RPM at idle (elec.)		1800 #		1800 #	
	Motor rating (wattage) (elec.)	96 w	150 w	100/200 w	150 w	
	Motor switch (type & location) (elec.)		CYLINDER BLOCK, ELECTRIC			
	Switch point (temp., pressure) (elec.)		COOL TEMPERATURE			
	Fan shroud (material)	UNSHROUDED	PLASTIC	PLASTIC	PLASTIC	UNSHROUDED

WITH AIR CONDITIONING ON.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LR8	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44

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

Induction type: carburetor, fuel injection system, etc.			FUEL INJECTION	
Manufacturer			ROCHESTER	BOSCH
Carburetor	Choke (type)		NOT APPLICABLE	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual		
		Automatic		
Idle A/F mix.			ECM CONTROL	
Fuel injection	Point of injection (no.)		THROTTLE BODY (1)	PORT (6)
	Constant, pulse, flow		PULSE	
	Control (electronic, mech.)		ELECTRONIC	
	System pressure [kPa (psi)]		83.0 (12.0)	250.0 (36.75)
Intake manifold heat control (exhaust or water thermostatic or fixed)			WATER	NONE
Air cleaner type	Standard		PAPER ELEMENT W/FOAM WRAP	REPLACEABLE PAPER ELEMENT
	Optional		NOT APPLICAPLE	
Fuel pump	Type (elec. or mech.)		ELECTRIC	
	Location (eng., tank)		FUEL TANK	
	Pressure range [kPa (psi)]		83.0 (12.0)	160.0-250.0 (24.0-37.0)

Fuel Tank

Capacity [refill L (gallons)]		45.0 (11.9)
Location (describe)		IN LEFT QTR. AREA & IN TUNNEL BETWEEN SEATS, ON LONGITUDINAL CAR CENTER LINE
Attachment		TWO TRANSVERSE STRAPS
Material & Mass [kg (weight lbs)]		TERNE PLATED STEEL
Filler pipe	Location & material	LH QUARTER PANEL
	Connection to tank	STEEL PIPE W/HOSE SECTION AT TANK END
Fuel line (material)		STEEL (GM 124 - M)
Fuel hose (material)		RUBBER GM 6163 - M
Return line (material)		STEEL (GM 124 - M)
Vapor line (material)		STEEL (GM 124 - M)
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	
	Selector switch or valve	
	Separate fill	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) THROTTLE BODY INJECTION RPO LR8	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		COMPUTER COMMAND CONTROL	
	Air Injection	Pump or pulse	NOT APPLICABLE	
		Driven by	NOT APPLICABLE	
		Air distribution (head, manifold, etc.)	NOT APPLICABLE	
		Point of entry	NOT APPLICABLE	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	CONTROLLED FLOW	PULSE WIDTH MODULATED
		Exhaust source	EXHAUST MANIFOLD	EXHAUST CROSSOVER
		Point of exhaust injection (spacer, carburetor, manifold, other)	INTAKE MANIFOLD	
	Catalytic Converter	Type	SINGLE BED, OXIDIZING/REDUCING	OXIDIZING/REDUCING
		Number of	ONE	
		Location(s)	TRANSVERSE, AHEAD OF AND BELOW ENGINE	
		Volume [L (in^3)]	2.623 (160.0)	2.8 (170.0)
		Substrate type	PELLETS	MONOLITH
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		INDUCTION SYSTEM	
	Energy source (manifold vacuum, carburetor, other)		MANIFOLD VACUUM	
	Discharges (to intake manifold, other)		INLET MANIFOLD	
	Air inlet (breather cap, other)		TBI AIR CLEANER	INTAKE DUCT
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	CANISTER	
		Carburetor	- -	
	Vapor storage provision		CANISTER	
Electronic system	Closed loop (yes/no)		YES	
	Open loop (yes/no)		NO	

Engine – Exhaust System

Type (single, single with cross-over, dual, other)		SINGLE	
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	50.8x1.45 (2.0x.057)	50.8x1.09 (2.0x.043)
	Material & Mass [kg (weight lbs)]	STAINLESS STEEL GM 6125 - M	409 STAINLESS STEEL GM 6125 - M
Intermediate pipe	o.d. & wall thickness	50.8x1.09 (2.0x.043)	
	Material & Mass [kg (weight lbs)]	STAINLESS STEEL GM 6125 - M	
Tail pipe	o.d. & wall thickness	50.8x1.09 (2.0x.043)	
	Material & Mass [kg (weight lbs)]	STAINLESS STEEL GM 6125 - M	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•)

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LR8	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 4-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 5-speed (std., opt., n.a.) (mfr.)	STANDARD
Manual overdrive (std., opt., n.a.) (mfr.)	STANDARD
Automatic (std., opt., n.a.) (mfr.)	OPTIONAL
Automatic overdrive (std., opt., n.a.) (mfr.)	NOT AVAILABLE

Manual Transmission/Transaxle

			(MT2)	(MG2)
Number of forward speeds			5	5
Transmission ratios	In first		3.73	3.50
	In second		2.04	2.05
	In third		1.45	1.38
	In fourth		1.03	0.94
	In fifth		0.74	0.72
	In overdrive		0.74	0.72
	In reverse		3.58	3.41
Synchronous meshing (specify gears)			ALL FORWARD GEARS	
Shift lever location			FLOOR	
Lubricant	Capacity [L (pt.)]		2.55	2.8
	Type recommended		SAE 5W30	
	SAE viscosity number	Summer	--	
		Winter	--	
		Extreme cold	--	

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)			BORG & BECK, DRY DISC, HYDRAULIC	
Assist (yes, no percent)			NO	
Type pressure plate springs			BELLEVILLE SPRING	
Total spring load [N (lb.)]			5251 (1180)	PRESSURE PLACE LOAD 6230 (1400)
No. of clutch driven discs			ONE	
Clutch facing	Material		NON ASBESTOS F202	
	Manufacturer		BORG & BECK	
	Part number		14087222	14087220
	Rivets plate		36	
	Rivet size		3.6 x 5.4 mm (0.143 x 0.213 in.)	
	Outside & inside dia.		216.0x152.5mm(8.5x6.0in.)	232.0x155.0mm(9.13x6.10 in.)
	Total eff. area [cm²(in.²)]		177.73 (28.46)	234.0 (36.42)
	Thickness		6.86-7.37mm (0.27-0.29in.)	7.5-8.0mm (0.295-0.315 in.)
	Engagement cushion method		DRIVEN PLATE WAVE SPOKE SPRINGS	
Release bearing	Type & method of lubrication		BALL THRUST - PREPACKED & SEALED	
Torsional damping	Method: springs, friction material		COIL SPRINGS & METAL-TO-METAL FRICTION	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LR8	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44

Automatic Transmission/Transaxle

Trade name		3-SPEED AUTOMATIC
Type and special features (describe)		PLANETARY GEARS - TORQUE CONVERTER, W/LOCKING CLUTCH, 125c
Selector	Location	FLOOR
	Ltr. No. designation	P-R-N-D-2-1
Gear ratios	1st	2.84
	2nd	1.60
	3rd	1.00*
	4th	NOT APPLICABLE
	Reverse	2.07
Max. upshift speed - drive range [km/h (mph)]		" "
Max. kickdown speed - drive range [km/h (mph)]		" "
Min. overdrive speed [km/h (mph)]		" "
Torque converter	Number of elements	3
	Max. ratio at stall	2.35
	Type of cooling (air, liquid)	LIQUID
	Nominal diameter	245.0 mm (9.65)
Lubricant	Capacity [refill L (pt.)]	4.7 (9.96)
	Type Recommended	DEXRON II
Oil cooler (std., opt., NA, internal, external, air, liquid)		STANDARD - LIQUID - IN RADIATOR

* - CONVERTER CLUTCH ENGAGEMENT.

Axle or Front Wheel Drive Unit

Type (front, rear)			REAR
Description			TRANSAXLE
Limited slip differential (type)			NOT AVAILABLE
Drive pinion offset			" "
Drive pinion (type)			" "
No. of differential pinions			2
Pinion / differential adjustment (shim, other)			NOT AVAILABLE
Pinion / differential bearing adjustment (shim, other)			" "
Driving wheel bearing (type)			" "
Lubricant	Capacity [L (pt.)]		3.8 (8.06)
	Type recommended		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)		3.35	3.65
No. of teeth	Pinion	20	23
	Ring gear or gear	67	84
Ring gear o.d.		NOT AVAILABLE	
Transaxle	Transfer gear ratio	----	----
	Final drive ratio	3.35	3.65

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•)

Engine Description/Carb.	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION
Engine Code	RPO L88	RPO L44

AXLE SHAFTS - REAR WHEEL DRIVE (MID-ENGINE)

Propeller Shaft – Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			SOLID BAR
Outer diam. x length* x wall thickness	Manual 3-speed trans.		NOT AVAILABLE
	Manual 4-speed trans.		NOT AVAILABLE
	Manual 5-speed trans.		27.2 x 725.0 x SOLID mm (1.07 x 28.54 in.)
	Overdrive		NOT AVAILABLE
	Automatic transmission		LEFT - 23.8 x 306.1 x SOLID mm (0.94 x 12.05 in.) RIGHT - 23.8 x 420.9 x SOLID mm (0.94 x 16.57 in.)
Inter-mediate bearing	Type (plain, anti-friction)		NONE
	Lubrication (fitting, prepack)		NONE
Slip yoke	Type		NOT AVAILABLE
	Number of teeth		NOT AVAILABLE
	Spline o.d.		NOT AVAILABLE
Universal joints	Make and mfg. no.	Front	SAGINAW
		Rear	SAGINAW
	Number used		TWO
	Type (ball and trunnion, cross)		TRI-POT
	Rear attach (u-bolt, clamp, etc.)		SNAP-RING
	Bearing: Type (plain, anti-friction)		ANTI-FRICTION
	Bearing: Lubrication (fitting, prepack)		PREPACKED
Drive taken through (torque tube, arms or springs)			LOWER CONTROL ARMS, MACPHERSON STRUT
Torque taken through (torque tube, arms or springs)			ENGINE MOUNTING SYSTEM

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Body Type And/Or Engine Displacement	ALL

Suspension – General

Car leveling	Std./opt. n.a.	NOT AVAILABLE
	Type (air, hyd., etc.)	NOT AVAILABLE
	Manual/auto. controlled	NOT AVAILABLE
Provision for brake dip control		FRONT SUSPENSION GEOMETRY
Provision for accl. squat control		REAR SUSPENSION GEOMETRY
Provisions for car jacking		BODY PICKUP AT ROCKER PANELS
Shock absorber (front & rear)	Type	FRONT: DIRECT, DOUBLE-ACTING; REAR MACPHERSON STRUT
	Make	DELCO
	Piston diameter	25.0 mm (FRONT/REAR)
	Rod diameter	NOT AVAILABLE

Suspension – Front

Type and description		INDEPENDENT SLA W/COIL SPRINGS, SHOCK ABSORBERS BETWEEN LCA & SHEET METAL
Travel	Full jounce	64.0 mm (2.52)
	Full rebound	96.0 mm (3.78)
Spring	Type (coil, leaf, other) & material	COIL, STEEL
	Insulators (type & material)	NOT AVAILABLE
	Size (coil design height & i.d., bar length x dia.)	193x87.5; 2744x12.2mm (7.6x3.4); (108.0x0.5) — 212x87.5; 2863x12.4 mm (8.3x3.4); (112.7x0.5)
	Spring rate [N/mm (lb. in.)]	31.5 (179.5) BASE; 36.5 (208.1) - W/WS6
	Rate at wheel [N/mm (lb./in.)]	NOT AVAILABLE
Stabilizer	Type (link, linkless, frameless)	LINK, TO LCA
	Material & bar diameter	STEEL - 23.0 mm (0.90)

Suspension – Rear

Type and description			MACPHERSON STRUT
Travel	Full jounce		62.0 mm (2.44)
	Full rebound		120.0 mm (4.72)
Spring	Type (coil, leaf, other) & material		COIL, STEEL
	Size (length x width, coil design height & i.d., bar length & dia.)		200.0x166.0; 2700.0x15.6 mm (7.87x6.54); (106.30x0.61)
	Spring rate [N/mm (lb./in.)]		40.0 (228.0) BASE; 44.0 (250.8) W/WS6
	Rate at wheel [N/mm (lb./in.)]		41.0 (234.0) BASE; 95.1 (257.1) W/WS6
	Insulators (type & material)		RUBBER TOP & BOTTOM
	If leaf	No. of leaves	NOT AVAILABLE
		Shackle (comp. or tens.)	
Stabilizer	Type (link, linkless, frameless)		NOT AVAILABLE
	Material & bar diameter		
Track bar (type)			NONE REQUIRED

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Body Type And/Or Engine Displacement

ALL

Brakes - Service

Description			4-WHEEL DISC W/ALUMINUM CALIPERS
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		DISC
	Rear (disc or drum)		DISC
Self-adjusting (std., opt., n.a.)			STANDARD
Special valving	Type (proportion, delay, metering, other)		REMOTE PROPORTIONING FRONT/REAR SPLIT
Power brake (std., opt., n.a.)			STANDARD
Booster type (remote, integral, vac., hyd., etc.)			VACUUM
Vacuum source (inline, pump, etc.)			INTAKE MANIFOLD
Vacuum reservoir (volume in.^{3})			NOT AVAILABLE
Vacuum pump-type (elec, gear driven, belt driven, if other so state)			NONE
Anti-lock device type (std., opt., n.a.) (F/R)			NOT AVAILABLE
Effective area [cm^2(in.^{2})]*			F/200.1 (31.02); R/200.1 (31.02)
Gross lining area [cm^2(in.^{2})]**(F R)			F/200.1 (31.02); R/200.1 (31.02
Swept area [cm^2(in.^{2})]***(F R)			F/105.192 (163.2); R/102.150 (158.4)
Rotor	Outerworking diameter	F R	F/247.0 mm (9.72); R/247.0 mm (9.72)
	Inner working diameter	F R	NOT AVAILABLE
	Thickness	F R	F/11.0 mm (0.433); R/12.6 mm (0.496)
	Material & type (vented solid)	F R	F/R CAST IRON, SOLID
Drum	Diameter & width	F R	NOT APPLICABLE
	Type and material	F R	" "
Wheel cylinder bore			F/49.0 mm (1.92); R/48.0 mm (1.88)
Master cylinder	Bore-stroke	F R	BORE: 25.4 mm (1.0) DIAMETER
Pedal arc ratio			4.0:1
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			NOT AVAILABLE
Lining clearance		F/R	SELF ADJUSTING
Brake lining — Front wheel	Bonded or riveted (rivets seg.)		BONDED
	Rivet size		--
	Manufacturer		DELCO MORAINE
	Lining code*****		DM-8035 SEMI-METALLIC
	Material		SEMI-METALLIC
	**** Primary or out-board		55.1 cm^2 (8.54 in^2)
	Size Secondary or in-board		44.3 cm^2 (6.87 in^2)
	Shoe thickness (no lining)		3.27 mm (.129) OUTBOARD; 4.85 mm (.191) INBOARD
Brake lining — Rear wheel	Bonded or riveted (rivets seg.)		BONDED
	Manufacturer		DELCO MORAINE
	Lining Code*****		DM-8035 SEMI-METALLIC
	Material		SEMI-METALLIC
	**** Primary or out-board		55.1 cm^2 (8.54 in^2)
	Size Secondary or in-board		44.3 cm^2 (6.87 in^2)
	Shoe thickness (no lining)		3.27 mm (.129 in^2) OUTBOARD; 4.85 mm (.191) INBOARD

*Excludes rivet holes,grooves, chamfers, etc.

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

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

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

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Body Type And/Or Engine Displacement	2PE37	2PM37

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P185/75R14 *
	Type (bias, radial, etc.)		STEEL BELTED RADIAL
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	205 (30)
		Rear [kPa (psi)]	205 (30)
	Rev./mile–at 70 km/h (45 mph)		841
Wheels	Type & material		RALLY WHEEL
	Rim (size & flange type)		14 x 6
	Wheel offset		35 mm
	Attachment	Type (bolt or stud)	STUD
		Circle diameter	100 mm (3.94)
		Number & size	HEX NUTS 5-M12
Spare	Tire and wheel (same, if other describe)		15 x 4 ALUMINUM
	Storage position & location (describe)		FRONT COMPARTMENT, INCLINED TO FRONT

* - TIRES ARE "ALL SEASON" MUD AND SNOW, 4TH GENERATION, G.M. TPC.

Tires And Wheels (Optional)

Size (load range, ply)	P185/75R14 WL	
Type (bias, radial, etc.)	STEEL BELTED RADIAL	
Wheel (type & material)	RALLY WHEEL	
Rim (size, flange type and offset)	14 x 6 - 35 mm	
Size (load range, ply)		P195/70R14 WL
Type (bias, radial, etc.)		STEEL BELTED RADIAL
Wheel (type & material)		HI-TECH TRUBO, ALUMINUM
Rim (size, flange type and offset)		14 x 6 - 35 mm
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position	T125/70 D15 TIRE 15 x 4 STEEL WHEEL LOCATED IN FRONT COMPARTMENT	

Brakes – Parking

Type of control		HAND LEVER
Location of control		LEFT SILL, BESIDE DRIVER, STOWS FLAT AT SILL
Operates on		REAR CALIPERS
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Body Type And/Or Engine Displacement	2PF37	2PG97

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P195/70R14	P205/60R15 FRONT-215/60R15 REAR
	Type (bias, radial, etc.)		STEEL-BELTED RADIAL	
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	205 (30)	
		Rear [kPa (psi)]	205 (30)	
	Rev./mile–at 70 km.h (45 mph)		841	
Wheels	Type & material		ALUMINUM	DIAMOND SPOKE WHEEL, ALUMINUM
	Rim (size & flange type)		14 x 6	15 x 7
	Wheel offset		35 mm	30 mm
	Attachment	Type (bolt or stud)	STUD	
		Circle diameter	100 mm (3.94)	
		Number & size	HEX NUTS 5-M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		15 x 4 ALUMINUM	
	Storage position & location (describe)		FRONT COMPARTMENT, INCLINED TO FRONT	

Tires And Wheels (Optional)

Size (load range, ply)	P195/70R14 WL (W/L4)
Type (bias, radial, etc.)	STEEL-BELTED RADIAL
Wheel (type & material)	HI-TECH TURBO-ALUMINUM
Rim (size, flange type and offset)	14 x 6 - 35 mm
Size (load range, ply)	P215/60R14 BSW OR WL (W/V6)
Type (bias, radial, etc.)	STEEL-BELTED RADIAL
Wheel (type & material)	ALUMINUM
Rim (size, flange type and offset)	14 x 6
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and or wheel location & storage position	T125/70I5 TIRE 15 x 4 STEEL WHEEL LOCATED IN FRONT COMPARTMENT

Brakes – Parking

Type of control		HAND LEVER
Location of control		LET SILL, BESIDE DRIVER, STOWS FLAT AT SILL
Operates on		REAR CALIPERS
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Body Type And/Or Engine Displacement	ALL

Steering

Manual (std., opt., n.a.)				STANDARD
Power (std., opt., n.a.)				NOT AVAILABLE
Adjustable steering wheel/column (tilt, telescope, other)		Type		TILT
		Manufacturer		
		(Std., opt., n.a.)		OPTIONAL
Wheel diameter** (W9) SAE J1100		Manual		368.0 mm (14.5) RIM
		Power		NOT AVAILABLE
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		11.5 m (37.7 ft.)
		Curb to curb (l. & r.)		11.3 m (37.1 ft.)
	Inside rear	Wall to wall (l. & r.)		7.2 m (23.6 ft.)
		Curb to curb (l. & r.)		7.0 m (22.9 ft.)
Scrub Radius*				47.0 mm (1.85 in.)
Manual	Gear	Type		RACK AND PINION
		Manufacturer		SAGINAW STEERING GEAR
		Ratios	Gear	21.7:1 BASE & SE WITH Y99 19.28 GT WITH WS6
			Overall	NOT AVAILABLE
	No. wheel turns (stop to stop)			3.0
Power	Type (coaxial, linkage, etc.)			NOT AVAILABLE
	Manufacturer			NOT AVAILABLE
	Gear	Type		NOT AVAILABLE
		Ratios	Gear	NOT AVAILABLE
			Overall	NOT AVAILABLE
	Pump (drive)			NOT AVAILABLE
	No. wheel turns (stop to stop)			NOT AVAILABLE
Linkage	Type			RACK AND PINION
	Location (front or rear of wheels, other)			FRONT
	Tie rods (one or two)			TWO
Steering axis	Inclination at camber (deg.)			9.4° KING PIN @ +.5° CAMBER/+.5° CASTER
	Bearings (type)	Upper		BALL JOINT
		Lower		BALL JOINT
		Thrust		NONE
Steering spindle & joint type				FORGE KNUCKLE W/UPPER & LOWER SPHERICAL JOINTS
Wheel spindle/hub	Diameter	Inner bearing		26.97 mm (1.06 in.)
		Outer bearing		17.45 mm (0.69 in.)
	Thread (size)			314.20 NEF (MIG-T)
	Bearing (type)			TAPERED ROLLER

*The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.
**See Page 21.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Body Type And/Or Engine Displacement

ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+5.0° ± 2.0°
		Camber (deg.)	+0.5° ± 0.8°
		Toe-in [outside track-mm (in.)]	+0.15° ± 0.10°
	Service reset*	Caster	+5.0° ± 1.0°
		Camber	+0.5° ± 0.4°
		Toe-in	+0.15° ± 0.05°
	Periodic M.V. inspection	Caster	+5.0° ± 2.0°
		Camber	+0.5° ± 0.8°
		Toe-in	+0.15° ± 0.10°
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-1.0° ± 0.5°
		Toe-in [outside track-mm (in.)]	+0.15° ± 0.10° PER WHEEL
	Service reset*	Camber	-1.0° ± 0.25°
		Toe-in	+0.15° ± 0.05° PER WHEEL
	Periodic M.V. inspection	Camber	-1.0° ± 0.5°
		Toe-in	+0.15° ± 0.10° PER WHEEL

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

Electrical – Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	CIRCULAR DIAL
	Trip odometer (std., opt., n.a.)	STANDARD
EGR maintenance indicator		LIGHT
Charge indicator	Type	TELL-TALE WARNING LIGHT
	Warning device (light, audible)	LIGHT
Temperature indicator	Type	POINTER GAGE
	Warning device (light, audible)	LIGHT
Oil pressure indicator	Type	POINTER GAGE
	Warning device (light, audible)	LIGHT
Fuel indicator	Type	POINTER GAGE
	Warning device (light, audible)	MARKED SEGMENTS ON DIAL FACE
Windshield wiper	Type (standard)	ELECTRIC
	Type (optional)	NOT AVAILABLE
	Blade length	18 in.
	Swept area [cm^2(in.^{2})]	6106.8 (946.8)
Windshield washer	Type (standard)	ELECTRIC PUMP, FLUIDIC NOZZLE
	Type (optional)	NOT AVAILABLE
	Fluid level indicator (light, audible)	" "
Rear window wiper, wiper/washer (std., opt., n.a.)		NOT AVAILABLE
Horn	Type	ELECTRIC VIBRATOR
	Number used	2
Other		

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•)

Engine Description/Carb. Engine Code	2.5L L4 (151 CID) ELECTRONIC FUEL INJECTION RPO LR8	2.8L V6 (173 CID) MULTI-PORT FUEL INJECTION RPO L44

Electrical – Supply System

Battery	Manufacturer	DELCO REMY FREEDOM II		
	Model, std., (opt.)	75A-60 (BASE)	75-60 (BASE)	75A-60 / UA1
	Voltage	12V		
	Amps at 0°F cold crank	630	500	630
	Minutes-reserve capacity	90	90	90
	Amp/hrs. - 20 hr. rate	54	54	54
	Location	RIGHT FRONT ENGINE COMPARTMENT		
Alternator	Manufacturer			
	Rating	66 AMP	66 AMP	
	Ratio (alt. crank/rev.)	2.78:1		
	Optional (type & rating)	94 AMP		
Regulator	Type	INTEGRAL W/ALTERNATOR		

Electrical – Starting System

Start. motor	Current drain at 0°F	NOT AVAILABLE
Motor drive	Engagement type	OVERRUNNING CLUTCH
	Pinion engages from (front, rear)	FRONT

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)	HIGH ENERGY IGNITION (HEI)	HIGH ENERGY IGNITION (HEI) W/ESC	
	Other (specify)	NOT AVAILABLE		
Coil	Make	DELCO REMY		
	Model	1115305 (REMOTE)	1115314 (REMOTE)	
	Current – Engine stopped – A	0.5		
	Current – Engine idling – A	5.1		
Spark plug	Make	AC		
	Model	R43CTS6	R42CTS	
	Thread (mm)	M14 x 1.25		
	Tightening torque [N-m (lb. ft)]	20-34 (15-25)		
	Gap	1.5 (0.060)	1.1 (0.045)	
	Number per cylinder	ONE		
Distributor	Make	DELCO REMY		
	Model	1103632	1103633	

Electrical – Suppression

Locations & type	INTERNAL ALTERNATOR CAPACITOR, NON-METALLIC HIGH-TENSION CABLES, RESISTOR SPARK PLUGS, IGNITION COIL BYPASS CAPACITOR, INTERNAL AC BLOWER MOTOR BYPASS CAPACITOR AND A/C COMPRESSION DIODE, WITH RADIO PROVISIONS; HOOD GROUNDING CLIP, ENGINE TO DASH PANEL GROUND STRAP, TACH FILTER, AND ON "HEATER-ONLY" BLOWER MOTORS, A COAX CAPACITOR.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Body Type	ALL

Body

Structure	UNITIZED BODY CONSTRUCTION INCLUDING FRONT END STRUCTURE WITH BOLTED-ON FENDERS AND HOOD.
Bumper system front - rear	BUMPER FASCIAS ARE ATTACHED TO STEEL IMPACT BAR AND DUAL ENERSORBERS FOR COLLISION ENERGY ABSORPTION. (MEETS GM 5 MPH IMPACT STANDARD).
Anti-corrosion treatment	SPECIAL ANTI-CORROSION MATERIALS ARE USED ON INTERIOR AND EXTERIOR METAL PANEL SURFACES. MATERIALS INCLUDE ONE AND TWO-SIDED GALVANIZED, ZINCROMETAL AND ZINK-IRON ALLOY STEEL SPECIAL METAL CONDITIONERS, PRIMERS, PROTECTIVE WAXES AND SEALERS ARE USED ON INTERIOR SURFACES. CHIP RESISTANT PLASTISOL MATERIAL IS APPLIED TO EXTERIOR LOWER BODY.

Body – Miscellaneous Information

Type of finish (lacquer, enamel, other)		ACRYLIC ENAMEL BASE COAT/CLEAR COAT
Hood	Hinge location (front, rear)	FRONT
	Type (counterbalance, prop)	PROP
	Release control (internal, external)	INTERNAL
Trunk lid	Type (counterbalance, other)	TORQUE RODS
	Internal release control (elec., mech., n.a.)	STANDARD MECHANICAL CABLE (SE); OPTIONAL - ELECTRIC
Hatch-back lid	Type (counterbalance, other)	NOT APPLICABLE
	Internal release control (elec., mech., n.a.)	" "
Station wagon		
Vent window control (crank, friction, pivot, power)	Front	NOT AVAILABLE
	Rear	NOT AVAILABLE
Seat cushion type (e.g., 60-40, bucket, bench, wire, foam etc.)	Front	BUCKET, MOLDED FOAM PAD
	Rear	- -
	3rd seat	- -
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	BUCKET, MOLDED FOAM PAD
	Rear	- -
	3rd seat	- -

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

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•)

Body Type	2- DOOR COUPES			
	2PE37	2PF37	2PM37	2PG97

Restraint System

Active restraint system	Standard/optional	STANDARD
	Type and description	FRONT: LAP/SHOULDER BELT COMBINATION
	Location	FRONT: RIGHT/LEFT OUTBOARD
Passive seat belts	Standard/optional	NOT AVAILABLE
	Power/manual	NOT AVAILABLE
	2 or 3 point	NOT AVAILABLE
	Knee bar/lap belt	NOT AVAILABLE

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	STEEL SPACE FRAME ASSEMBLY WITH APPLIES SMC. R-RIM OUTER PANELS.

Glass	SAE Ref. No.	
Windshield glass exposed surface area [cm^2 ($in.^2$)]	S1	8614 (1335.2)
Side glass exposed surface area [cm^2 ($in.^2$)] - total 2-sides	S2	4848 (751.4)
Backlight glass exposed surface area [cm^2 ($in.^2$)]	S3	2500 (387.5)
Total glass exposed surface area [cm^2 ($in.^2$)]	S4	15962 (2474.1)
Windshield glass (type)		LAMINATED PLATE
Side glass (type)		CURVED-TEMPERED PLATE
Backlight glass (type)		CURVED-TEMPERED PLATE

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

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Body Type

2- DOOR COUPES			
2PE37	2PF37	2PM37	2PG97

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

Air conditioning (manual, auto. temp control)		OPTIONAL - "ELECTRIC" MODE SELECTION, N/A WITH VALUE LEADER
Clock (digital, analog)		OPTIONAL BASE; STANDARD SE & GT ONLY W/RADIO
Compass - thermometer		NOT AVAILABLE
Console (floor, overhead)		STANDARD - FULL LENGTH, FLOOR
Defroster, elec. backlight		OPTIONAL
Electronic	Diagnostic monitor (integrated, individual)	NOT AVAILABLE
	Instrument cluster (list instruments)	STD SPEEDOMETER, ODOM, TRIP ODOM, TACH, FUEL, COOLANT, TEMP&OIL GAUGES
	Keyless entry	NOT AVAILABLE
	Tripminder (avg. spd., fuel)	NOT AVAILABLE
	Voice alert (list items)	NOT AVAILABLE
	Other	--
		--
Fuel door lock (remote, key, electric)		STANDARD - REMOTE RELEASE
Lamps	Auto head on / off delay, dimming	NOT AVAILABLE
	Cornering	NOT AVILABLE
	Courtesy (map, reading)	STANDARD - DUAL MAP LIGHTS
	Door lock, ignition	NOT AVAILABLE
	Engine compartment	NOT AVAILABLE
	Fog	NOT AVAILABLE
	Glove compartment	--
	Trunk	NOT AVAILABLE
	Other	--
		--
Mirrors	Day night (auto. man.)	MANUAL - STANDARD
	L.H. (remote, power, heated)	REMOTE - STANDARD; ELECTRIC - OPTIONAL
	R. H. (convex, remote, power, heated)	MANUAL CONVEX - STANDARD; ELECTRIC - OPTIONAL
	Visor vanity (RH. LH. illuminated)	NOT AVAILABLE
Parking brake-auto release (warning light)		STANDARD
Power equipment	Door locks deck lid - specify	DOOR LOCKS-OPT; DECK LID-STD SE & GT; OPT BASE & SPORT COUPE
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	NOT AVAILABLE
	Side windows	OPTIONAL
	Vent windows	--
	Rear window	--
		--
Radio systems	Antenna (location, whip, w shield, power)	RIGHT FRONT FENDER
	AM, FM, stero, tape, CB	* STD BASE AM; STD SE AM W/CLOCK; OPT AM/FM, AM/FM STEREO*
	Speaker (number, location) Premium sound	2 ADDITIONAL "EXTENDED RANGE" SPEAKERS LOCATED IN SAIL PANEL
Roof open air fixed (flip-up, sliding, "T")		REMOVABLE CLASS HINGED AT FRONT - OPTIONAL
Speed control device		ELECTRIC TRI-MODE CRUISE CONTROL - OPTIONAL
Speed warning device (light, buzzer,etc.)		NOT AVAILABLE
Tachometer (rpm)		STANDARD
Telephone system - mobile		
Theft protection-type		LOCK MOUNTED ON STEERING WHEEL

* AM/FM STEREO CASSETTE

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

See Key Sheets for definitions

Car Line FIERO
Model Year 1987 Issued 11-86 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.	2- DOOR COUPES 2PE37	2PF37	2PM37	2PG97
Width					
Tread (front)	W101	1482 (58.3)	1468 (57.8)	1468 (57.8)	1482 (58.3)
Trear (rear)	W102	1506 (59.3)	1492 (58.7)	1492 (58.7)	1506 (59.3)
Vehicle width	W103	1752 (69.0)			
Body width at Sg RP (front)	W117	1751 (68.9)			
Vehicle width (front doors open)	W120	3810 (150.0)			
Vehicle width (rear doors open)	W121	NOT APPLICABLE			
Front fender overall width	W106	NOT AVAILABLE			
Rear fender overall width	W107	1718 (67.6)			
Tumble-home (deg.)	W122	30.0°			
Length					
Wheelbase	L101	2373 (93.4)			
Vehicle length	L103	4140 (163.1)			4187 (164.8)
Overhang (front)	L104	972 (38.3)			1028 (40.5)
Overhang (rear)	L105	795 (31.3)			785 (30.9)
Upper structure length	L123	1518 (59.8)			
Rear wheel C/L "X" coordinate	L127	2173 (85.6)			
Cowl point "X" coordinate	L125	197 (7.8)			
Front end length at centerline	L126	924 (36.4)			1028 (40.5)
Rear end length at centerline	L129	1198 (47.2)			
Height **					
Passenger distribution (front/rear)	PD1,2,3	2-0	**		
Trunk/cargo load		0	**		
Vehicle height	H101	1192 (46.9)			
Cowl point to ground	H114	832 (32.8)			
Deck point to ground	H138	875 (34.4)			
Rocker panel-front to ground	H112	168 (6.6)			
Bottom of door closed-front to grd.	H133	245 (9.6)			
Rocker panel-rear to ground	H111	171 (6.7)			
Bottom of door closed-rear to grd.	H135	NOT APPLICABLE			
Windshield slope angle	H122	62.0			
Backlight slope angle	H121	8.0			
Ground Clearance **					
Front bumper to ground	H102	315 (12.4)			334 (13.1)
Rear bumper to ground	H104	333 (13.1)			342 (13.5)
Bumper to ground [front at curb mass (wt.)]	H103	341 (13.4)			315 (12.4)
Bumper to ground [rear at curb mass (wt.)]	H105	343 (13.5)			322 (12.7)
Angle of approach (degrees)	H106	17.9°			13.7°
Angle of departure (degrees)	H107	26.5°			23.9°
Ramp breakover angle (degrees)	H147	13.6°			
Axle differential to ground (front / rear)	H153	NOT AVAILABLE			
Min. running ground clearance	H156	138 (5.4)			134 (5.3)
Location of min. run. grd. clear.		REAR ENGINE CRADLE			FRONT AIR DEFLECTOR

***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 FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Body Type	SAE Ref. No.	2- DOOR COUPES			
		2PE37	2PF37	2PM37	2PG97

Front Compartment

	Sg RP front, "X" coordinate	L31	1152 (45.4)
	Effective head room	H61	941 (37.0)
	Max. eff. leg room (accelerator)	L34	1105 (43.5)
	SgRP to heel point	H30	159 (6.3)
	SgRP to heel point	L53	931 (36.7)
	Back angle	L40	26.5
	Hip angle	L42	98.0
	Knee angle	L44	137.0
	Foot angle	L46	87.0
	Design H-point front travel	L17	199 (7.8)
	Normal driving & riding seat track trvl.	L23	159 (6.3)
	Shoulder room	W3	1395 (54.9)
	Hip room	W5	1380 (54.3)
**	Upper body opening to ground	H50	1081 (42.6)
	Steering wheel maximum diameter	W9	366 (14.4)
	Steering wheel angle	H18	16.5
	Accel. heel pt. to steer. whl. cntr	L11	NOT AVAILABLE
	Accel. heel pt. to steer. whl. cntr	H17	NOT AVAILABLE
	Steering wheel to C / L of thigh	H13	75 (3.0)
	Steering wheel torso clearance	L7	357 (14.1)
	Headlining to roof panel (front)	H37	7 (0.3)
	Undepressed floor covering thickness	H67	41 (1.6)

Rear Compartment

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

	Sg RP Point couple distance	L50	NOT APPLICABLE
	Effective head room	H63	
	Min. effective leg room	L51	
	Sg RP (second to heel)	H31	
	Knee clearance	L48	
	Compartment room	L3	
	Shoulder room	W4	
	Hip room	W6	
**	Upper body opening to ground	H51	
	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	165.6 (5.85)
**	Liftover height	H195	793 (31.2)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		2-PASSENGER
Interior volume index (cu. ft.)		57.0
Trunk/cargo index (cu. ft.)		5.9

All linear dimensions are in millimeters (inches).
**** EPA Loaded Vehicle Weight, Loading Conditions**

MVMA Specifications Form
Passenger Car

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•)

METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2- DOOR COUPES			
		2PE37	2PF37	2PM37	2PG97

Station Wagon – Third Seat

Sg RP couple distance	L85	NOT APPLICABLE
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	NOT APPLICABLE
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	
* Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m^3($ft.^3$)]	V2	
Hidden cargo volume [m^3($ft.^3$)]	V4	
Cargo volume. index-rear of 2-seat	V10	

Hatchback – Cargo Space

Cargo length at front seatback height	L208	NOT APPLICABLE
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 [m^3($ft.^3$)]	V3	
Hidden cargo volume [m^3($ft.^3$)]	V4	
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

Wheel lip to ground, front	H172	672 (26.5)
Wheel lip to ground, rear	H173	682 (26.9)
Frontal area [m^2(ft^2)]	FA	1.78 (19.1)
Drag coefficient (Cd)		NOT AVAILABLE

* EPA Loaded Vehicle Weight. Loading Conditions
All linear dimensions are in millimeters (inches) unless otherwise noted.

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

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•)

Body Type	2- DOOR COUPES			
	2PE37	2PF37	2PM37	2PG97

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - FRONT, MEASURED HORIZONTALLY FROM THE BASE GRID LINE TO THE FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT. Y - FIDUCAIL MARK TO CENTER LINE OF CAR - FRONT, WIDTH MEASUREMENT MADE FROM CENTER LINE OF CAR TO FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT. Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - FRONT, MEASURED VERTICALLY FROM BASE GRID LINE TO FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.
Rear	X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - REAR, MEASURED HORIZONTALLY FROM BASE GRID LINE TO THE REAR FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL). Y - FIDUCIAL MARK TO CENTER LINE OF CAR - REAR, WIDTH MEASUREMENT MADE FROM CENTER LINE OF CAR TO IDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL). Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - REAR, MEASURED VERTICALLY FROM BODY BASE GRID LINE TO THE REAR FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL).

	Fiducial Mark Number	
Front	W21	533 (21.0)
	L54	791 (31.1) *
	H81	-102 (-4.0) #
	H161	216 (8.5)
**	H163	198 (7.8)

Rear	W22	520 (20.5)
	L55	2720 (107.0) *
	H82	81 (3.2) #
	H162	397 (15.6)
**	H164	385 (15.2)

* VERTICAL BASE GRID 2000 mm LINE.
\# HORIZONTAL BASE GRID 500 mm LINE.

* 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 FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

Body Type	2- DOOR COUPES			
	2PE37	2PF37	2PM37	2PG97

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	709 (27.9)
		Lowest	- -
	Taillamp (SAE - H128)	Highest**	716 (28.2)
		Lowest	- -
	Sidemarker	Front	555 (21.9)
		Rear	655 (25.8)
Distance from C/L of car to center of bulb	Headlamp	Inside	- -
		Outside**	511 (20.1)
	Taillamp	Inside	- -
		Outside**	678 (26.7)
	Directional	Front	500 (19.7)
		Rear	538 (21.2)
Halogen headlamp (std., opt., n.a.)	Lo beam		STANDARD
	Hi beam		STANDARD
	Replaceable bulb		N.A. (SEALED BEAM)
	Shape		RECTANGULAR
Headlamp other than above	Lo beam		NOT AVAILABLE
	Hi beam		NOT AVAILABLE
	Replaceable		NOT AVAILABLE
	Shape		NOT AVAILABLE
	Type		NOT AVAILABLE

* Measured at curb mass (weight).
** If single lamps are used enter here.
All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Vehicle Mass (weight)

Model	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg (weight, lb.)**
				Pass In Front		Pass In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
FIERO								
2-DOOR COUPE	494.3	669.8	1164.1	44.2	55.8	-	-	1139.3
(BASE MODEL)	(1090)	(1477)	(2567)					(2512)
2PM37								
FIERO - SE								
2-DOOR COUPE	499.5	671.4	1170.9	44.2	55.8	-	-	1146.1
2PF37	(1101)	(1480)	(2581)					(2527)
FIERO - GT								
2-DOOR COUPE	518.4	716.7	1235.1	44.2	55.8	-	-	1210.3
2PG97	(1143)	(1580)	(2723)					(2668)

CURB MASS -THE CALCULATED WEIGHT OF A VEHICLE WITH STANDARD EQUIPMENT ONLY AS DESIGNED WITH ADDITIONAL LOAD OF OILS, LUBES, COOLANTS AND FUEL FILLED TO CAPACITY (11.9 GALLONS).

SHIPPING MASS - SAME AS CURB MASS EXCEPT WITH 3 GALLONS OF FUEL.

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO

Model Year 1987 Issued 11-86 Revised (•) _____

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS. kg (weight, lb.)			
	Front	Rear	Total	
GLASS HINGED ROOF	3.60	3.60	7.20	
RPO-AD3	(7.9)	(7.9)	(15.8)	
POWER DOOR LOCKS	0.72	0.88	1.60	
RPO-AU3	(1.6)	(1.9)	(3.5)	
POWER WINDOWS	1.20	1.20	2.40	STANDARD ON "GT"
RPO-A31	(2.6)	(2.6)	(5.2)	
DOOR MAP POCKETS	0.50	0.50	1.00	
RPO-BC8	(1.1)	(1.1)	(2.2)	
FLOOR MATS CARPETED	1.54	0.66	2.20	
RPO-B34	(3.4)	(1.5)	(4.9)	
AIR CONDITIONING	8.40	11.60	20.00	NOT AVAILABLE ON BASE COUPE
RPO-C60	(18.5)	(25.6)	(44.1)	
POWER O/S REARVIEW MIRRORS	0.85	0.15	1.00	
RPO-DG7	(1.9)	(0.3)	(2.2)	
EXTERIOR REAR END PANEL	-0.66	3.96	3.30	"GT" & "SE"
RPO-D80	(-1.5)	(8.7)	(7.2)	
CRUISE CONTROL	0.14	1.66	1.80	
RPO-K34	(0.3)	(3.7)	(4.0)	
3-SPEED AUTOMATIC	(1.22	23.08	24.30	
TRANSMISSION RPO-MD9	(2.7)	(50.9)	(53.6)	
TILT STERING WHEEL	0.8	0.2	1.0	STANDRAD ON "GT"
RPO-N33	(1.8)	(0.4)	(2.2)	
ALUMINUM WHEELS (14")	-0.60	-0.60	-1.20	STANDRAD ON "SE" & "GT"
RPO-N78	(-1.3)	(-1.3)	(-2.6)	
DIAMOND SPOKE-WHEEL	-2.6	-2.6	-5.2	STANDARD ON "GT"
ALUMINUM (15") RPO-N90	(-5.7)	(-5.7)	(-11.4)	
STEEL WHEELS				
RPO-P02				
RING UNIT-WHEEL	1.05	1.05	2.10	
RPO-P06	(2.3)	(2.3)	(4.6)	

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line FIERO
Model Year 1987 Issued 11-86 Revised (•) _____

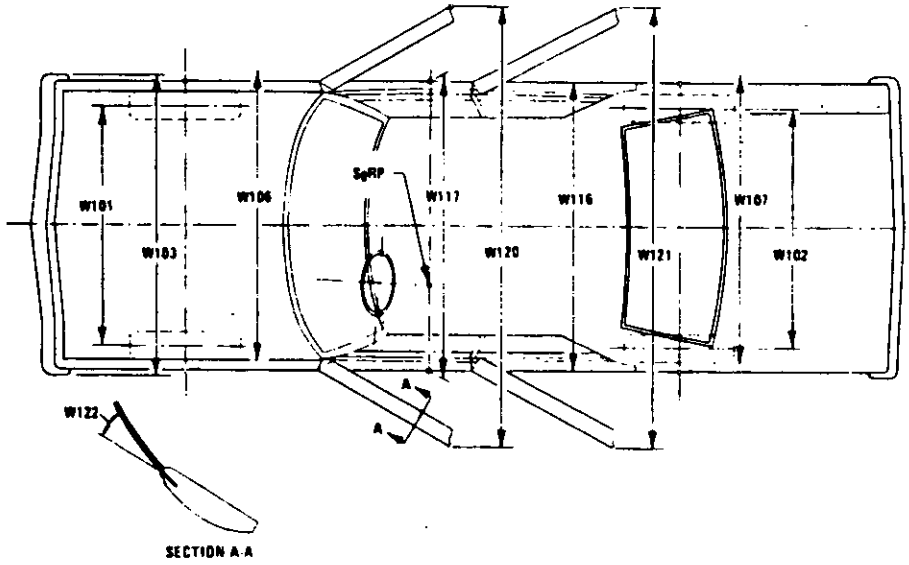
Optional Equipment Differential Mass (weight)*

Equipment	MASS. kg. (weight, lb.)			Remarks
	Front	Rear	Total	
HEAVY-DUTY BATTERY	0.31	1.76	2.07	LR8 ONLY
RPO-UA1	(0.7)	(3.9)	(4.6)	
AM/FM STEREO W/CLOCK	1.88	0.62	2.50	
RPO-UM6	(4.1)	(1.4)	(5.5)	
AM/FM STEREO W/CLOCK/	1.0	0.2	1.2	
CASSETTE RPO-UM7	(2.2)	(0.4)	(2.6)	
AM/FM STEREO W/CASSETTE &	1.53	0.51	2.04	
GRAPHIC EQUALIZER/DIGITAL	(3.4)	(1.1)	(4.5)	
CLOCK RPO-UT4				
AM/FM STEREO W/CLOCK &	0.90	0.30	1.20	
STEREO CASSETTE - ETR	(2.0)	(0.7)	(2.7)	
TYPE RPO-UX1				
SPEAKERS: FOUR DUAL	1.27	1.71	2.98	STANDARD ON "GT"
RPO-U66	(2.8)	(3.8)	(6.6)	
LUGGAGE CARRIER	-0.25	2.75	2.50	
RPO-Y58	(-0.55)	(6.1)	(5.5)	

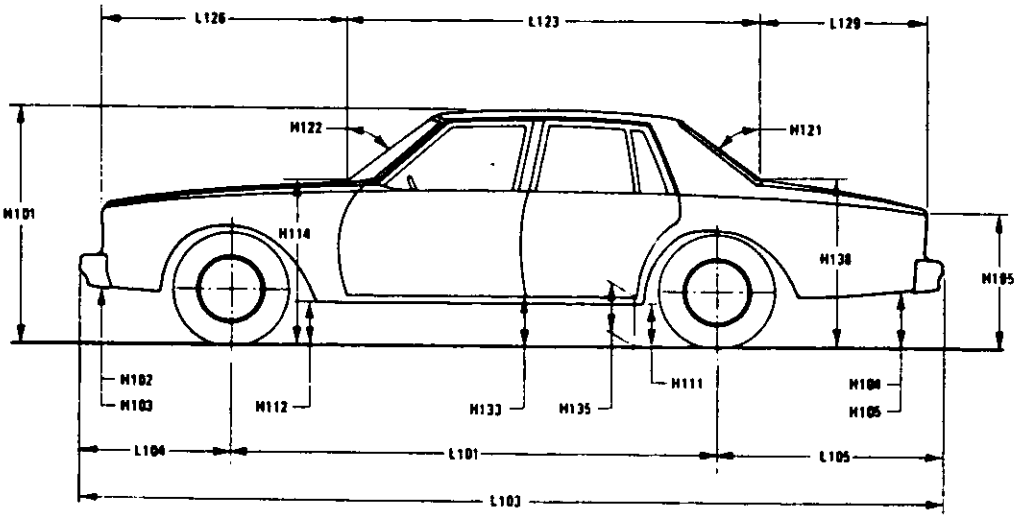
*Also see Engine - General Section for dressed engine mass (weight).

Exterior Car And Body Dimensions – Key Sheet

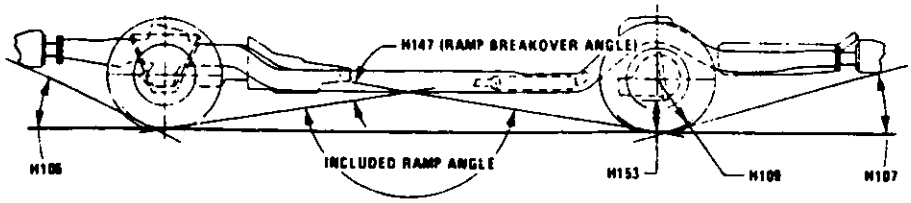
Exterior Width



Exterior Length & Height

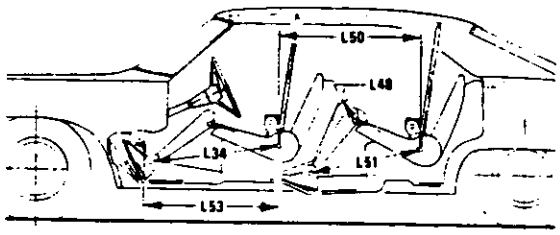


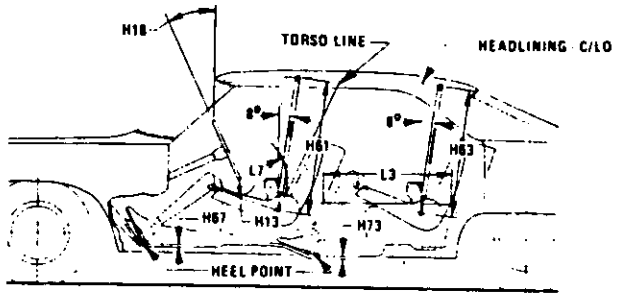
Exterior Ground Clearance

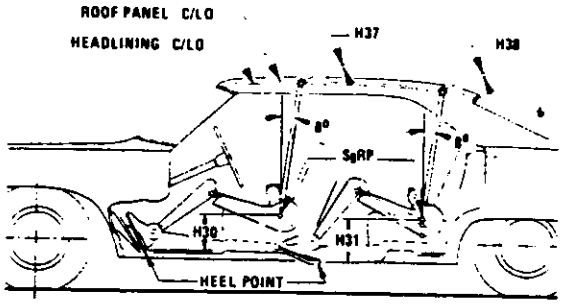


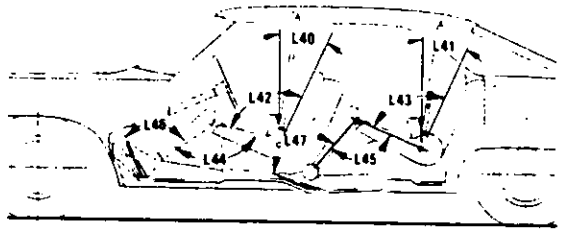
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

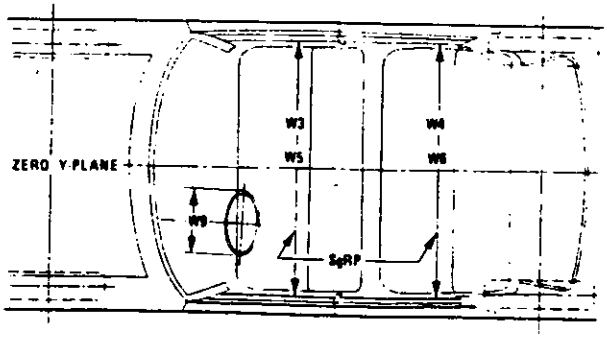
Interior Car And Body Dimensions – Key Sheet

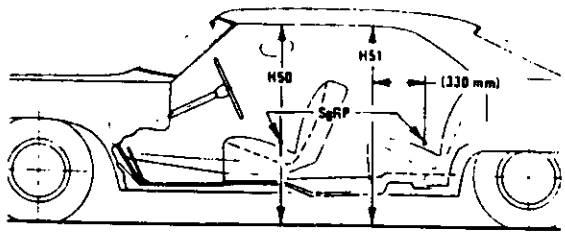






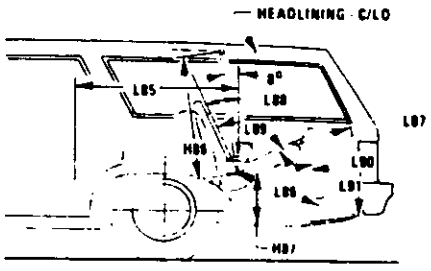


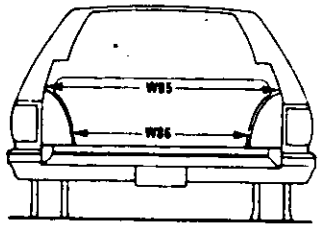




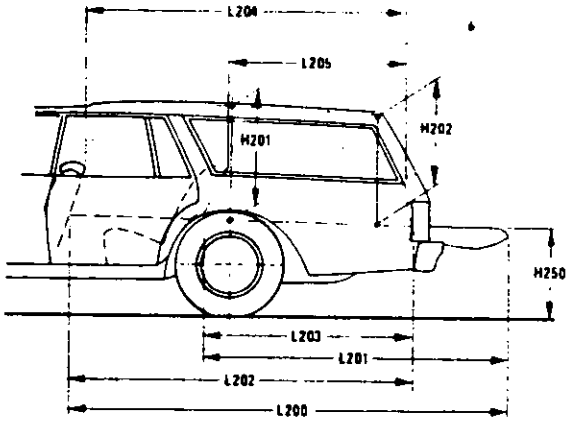
Interior Car And Body Dimensions – Key Sheet

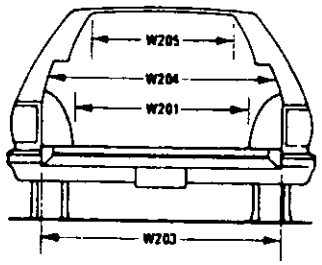
Third Seat



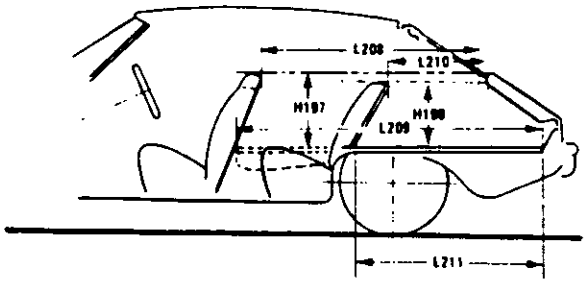


Cargo Space





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 headlamp lens to ground.

H128 TAILLAMP TO GROUND–CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.

H133 BOTTOM OF DOOR CLOSED–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H135 BOTTOM OF DOOR CLOSED–REAR TO GROUND The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

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

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

Ground Clearance Dimensions

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

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

MVMA Specifications Form
Passenger Car
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. (See SAE J1100)

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

L31 SgRP–FRONT. "X" COORDINATED.

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

L40 BACK ANGLE–FRONT. The angle measured between a vertical line through the SgRP–front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

L42 HIP ANGLE–FRONT. The angle measured between torso line and thigh centerline.

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

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

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

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

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

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

H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.

H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.

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

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

H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.

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

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

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

PD1 PASSENGER DISTRIBUTION–FRONT.

Rear Compartment Dimensions

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

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

Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PD2 PASSENGER DISTRIBUTION-SECOND.

Luggage Compartment Dimensions

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

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

Interior Volumes (EPA Classification)

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

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

Station Wagon – Third Seat Dimensions

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

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

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

L88 BACK ANGLE-THIRD Measured in the same mannere as L41.

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

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

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

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

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

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

H87 SgRP-THIRD TO HEEL POINT

PD3 PASSENGER DIRECTION-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 he 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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

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 undepressed floor covering.

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

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

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

V2 STATION WAGON
Measured in inches:

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

Measured in mm:

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

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:

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

Measured in mm:

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

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

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

Measured in mm:

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

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

V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

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

Measured in mm:

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

Hatchback – Cargo Space Dimensions

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

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

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

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

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

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

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

V3 HATCHBACK.
Measured in inches:

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

Measured in mm:

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

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

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

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

Measured in mm:

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

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

Index