MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1987

Manufacturer	Car Line	
Mitsubishi Motors Corporation	Starion	
Mailing Address		
33-8, Shiba 5-Chome, Minato-ku, Tokyo, 108, Japan	Issued 3-1-1986	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.

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mvma

Motor Vehicle Manufacturers Association of the United States, Inc.

MVMA-C-87

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 Starion

Model Year 1987 Issued 3-1-1986 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)
2 DOOR HATCH BACK (RWD)		A187AMNXL F/H A187AMRXL F/H A187AMNFGL F/H	5 (2/3)	35 kg (77 lbs)

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 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 kW (bhp)	SAE Net at RPM Torque N•m (lb. ft.)			
A187AM Series	2.555 (156)	F.I	7.0	108 (145) at 5000	251 (185) at 2500	S	Manual 5-Speed	3.545
							Automatic 4-Speed	
				131 (176) at 5000	302 (223) at 2500		Manual 5-Speed	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Engine Description/Carb. Engine Code	G54B with Turbo (2.555 Liters)		G54B with Inter cooled turbo (2.555 Liters)
	M/T	A/T	M/T

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)		In line front longitudinal		
Manufacturer		Mitsubishi Motors Corporation		
No. of cylinders		4		
Bore		91.1		
Stroke		98		
Bore spacing (C / L to C / L)		101		
Cylinder block material & mass kg (lbs.) (machined)		Cast iron / 48.5 (106.9)		
Cylinder block deck height		251		
Cylinder block length		439		
Deck clearance (minimum) (above or below block)		Below 0.6		
Cylinder head material & mass kg (lbs.)		Aluminum alloy / 10.0 (22.0)		
Cylinder head volume (cm^3)		75.2		
Cylinder liner material		N.A.		
Head gasket thickness (compressed)		1.25		
Minimum combustion chamber total volume (cm^3)		105.6		
Cyl. no. system (front to rear)*	L. Bank	N.A.		
	R. Bank	N.A.		
Firing order		1-3-4-2		
Intake manifold material & mass [kg (lbs.)]**		Aluminum alloy, 2.7 (6.0)		
Exhaust manifold material & mass [kg (lbs.)]**		Cast iron, 5.1 (11.2)		
Recommended fuel (leaded, unleaded, diesel)		Unleaded		
Fuel antiknock index $\frac{(R+M)}{2}$		RON 91 (minimum)		
Total dressed engine mass (wt) dry***		173.5	161.0	171

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy 464 (16)

Engine – Camshaft

Location		Center of IN. and EX. valve on cylinder-head
Material & mass kg (weight, lbs.)		Cast iron 2.8 (6.2)
Drive type	Chain / belt	Chain
	Width / pitch	23.3 / 9.525

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

** Finished state.

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

Engine Description/Carb. Engine Code	G54B with Turbo (2.555 Liters)	G54B with Inter cooled Turbo (2.555 Liters)

Engine – Valve System

Hydraulic lifters (std., opt., NA)		Std.	N.A.
Valves	Number intake / exhaust	4 / 4	
	Head O.D. intake / exhaust	46 / 38	

Engine – Connecting Rods

Material & mass (kg., (weight, lbs.))*	Drop-forged steel, 0.830 (1.8)

Engine – Crankshaft

Material & mass (kg., (weight, lbs.))*		Drop-forged steel	
End thrust taken by bearing (no.)		17.5 (38.6)	3
Number of main bearings		5	
Seal (material, one, two piece design, etc.)	Front	Synthetic rubber, One piece	
	Rear	Synthetic rubber, One piece	

Engine – Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	390 (56.5)
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 (3.3)

Engine – Diesel Information

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

Engine – Intake System

Turbo charger - manufacturer	With–Mitsubishi Heavy Industries Ltd.	
Super charger - manufacturer	None	
Charge cooler	None	With

*Finished State

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Engine Description/Carb. / Engine Code	G54B with Turbo (2.555 Liters)		G54B with Inter cooled turbo (2.555 Liters)
	M/T	A/T	M/T

Engine – Cooling System

Coolant recovery system (std., opt., n.a.)				
Coolant fill location (rad., bottle)		2.6 L	2.8 L	
Radiator cap relief valve pressure [kPa (psi)]		88.2 kpa		
Circulation thermostat	Type (choke, bypass)	Choke pellet		
	Starts to open at °C (°F)	88 (190.4)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	–		
	Number of pumps	1		
	Drive (V-belt, other)	V – Belt		
	Bearing type	Ball, integral shaft, Permanently Sealed		
	Impeller material	Cold-rolled Carbon Steel Sheet		
	Housing material	Aluminum die casting		
By-pass recirculation (type (inter,. ext.)]		External		
Cooling system capacity	With heater–L(qt.)	8.3 (8.8)	8.5 (9.0)	
	With air cond.–L(qt.)	8.3 (8.8)	8.5 (9.0)	
	Opt. equipment [specify–L(qt.)]	–		
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		No		
Water jackets open at head face (yes, no)		Yes		
Radiator core	Std., A/C, HD			
	Type (cross-flow, etc.)	Down Flow		Down Flow
	Construction (fin & tube mechanical, braze, etc.)	Braze		
	Material, mass [kg (wgt, lbs.)]	6.1	6.2	7.2 (kg)
	Width	646	648	(mm)
	Height	400		(mm)
	Thickness	32		(mm)
	Fins per inch	11	12	15
Radiator end tank material		Chalcopyrite		
Fan	Std., elec., opt.	Std.		Elec.
	Number of blades & type (flex, solid, material)	7 – Uneven		4
	Diameter & projected width	410		320 + 270
	Ratio (fan to crankshaft rev.)	1.1		–
	Fan cutout type	Thermal hydraulic coupling		–
	Drive type (direct, remote)	V-belt direct		–
	RPM at idle (elec.)	–		2000 rpm
	Motor rating (wattage) (elec.)	–		120W, 80W
	Motor switch (type & location) (elec.)	–		Thermo Type in Radiator
	Switch point (temp., pressure) (elec.)	–		85°C, 100°C
	Fan shroud (material)	Steel		Steel

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

Engine Description/Carb. Engine Code	G54B with Turbo (2.555 Liters)	G54B with Inter cooled Turbo (2.555 Liters)

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			Mikuni Co., Ltd.	
Carburetor	Choke (type)		–	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	–	
		Automatic	–	
Idle A/F mix.			13.0	13.0
Fuel injection	Point of injection (no.)		On throttle valve (two)	
	Constant, pulse, flow		21.0 mm³ / 2.5 mSec, & 32.0 mm³ / 3.5mSec	
	Control (electronic, mech.)		Electronic	
	System pressure [kPa (psi)]		245 kPa	
Intake manifold heat control (exhaust or water thermostatic or fixed)			Water thermostatic	
Air cleaner type	Standard		Dry, Non-woven cloth	
	Optional		N.A.	
Fuel pump	Type (elec. or mech.)		Electric	
	Location (eng., tank)		Near by Fuel Tank	
	Pressure range [kPa (psi)]		620 to 800 (90 to 120)	

Fuel Tank

Capacity [refill L (gallons)]		75 L (19.8 gallons)
Location (describe)		Underneath rear floor pan cargo area between axle and rear bumper
Attachment		Bolts
Material & Mass [kg (weight lbs)]		Steel, 14.5 kg (31.97 lbs)
Filler pipe	Location & material	Left side rear quarter panel, Steel pipe
	Connection to tank	Rubber hose
Fuel line (material)		Steel pipe
Fuel hose (material)		Rubber hose
Return line (material)		Steel pipe
Vapor line (material)		Steel pipe
Extended range tank	Opt., n.a.	–
	Capacity [L (gallons)]	–
	Location & material	–
	Attachment	–
Auxiliary tank	Opt., n.a.	–
	Capacity [L (gallons)]	–
	Location & material	–
	Attachment	–
	Selector switch or valve	–
	Separate fill	–

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

Engine Description/Carb. Engine Code	G54B with Turbo (2.555 Liters)	G54B with Inter cooled Turbo (2.555 Liters)

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Three-way catalyst with feedback control. Exhaust gas recirculation and Air induction.
	Air Injection	Pump or pulse	Pulse
		Driven by	N.A.
		Air distribution (head, manifold, etc.)	N.A.
		Point of entry	N.A.
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow
		Exhaust source	Exhaust port No. 2
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold
	Catalytic Converter	Type	Three-way
		Number of	2
		Location(s)	In engine compartment & Under floor
		Volume [L (in^3)]	1.0 (61) + 1.0 (61)
		Substrate type	Monolith
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction system
	Energy source (manifold vacuum, carburetor, other)		Intake manifold vacuum
	Discharges (to intake manifold, other)		To intake manifold
	Air inlet (breather cap, other)		Air cleaner
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)		Yes

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 (Straight thru.) Aluminized steel
			6.9 kg (15.2 lb) | 3.2 kg (7.05 lb)
Resonator no. & type			–
Exhaust pipe	Branch o.d., wall thickness		–
	Main o.d., wall thickness		54 x 1.5 (mm)
	Material & Mass [kg (weight lbs)]		Stainless steel 1.6 kg (3.5 lb)
Intermediate pipe	o.d. & wall thickness		54 x 1.2 (mm)
	Material & Mass [kg (weight lbs)]		Aluminized steel 4.1 kg (9.0 lb)
Tail pipe	o.d. & wall thickness	54 x 1.2	42.7 x 1.2 (Dual) (mm)
	Material & Mass [kg (weight lbs)]	Aluminized steel 0.45 kg (1.0 lb)	Aluminized steel 1.2 kg (2.7 lb)

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Star Ion
Model Year 1987 Issued 3-1-1986 Revised (•)

Engine Description/Carb. Engine Code	G54B with Turbo (2.555 Liters)	G54B with Inter cooled Turbo (2.555 Liters)

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	N.A.	
Manual 4-speed (std., opt., n.a.) (mfr.)	N.A.	
Manual 5-speed (std., opt., n.a.) (mfr.)	Std. MMC	
Manual overdrive (std., opt., n.a.) (mfr.)	N.A.	
Automatic (std., opt., n.a.) (mfr.)	N.A.	
Automatic overdrive (std., opt., n.a.) (mfr.)	Std. JATCO	N.A.

Manual Transmission/Transaxle

Number of forward speeds			5
Transmission ratios	In first		3.369
	In second		2.035
	In third		1.360
	In fourth		1.000
	In fifth		0.856
	In overdrive		–
	In reverse		3.578
Synchronous meshing (specify gears)			1, 2, 3, 4, 5
Shift lever location			Floor
Lubricant	Capacity [L (pt.)]		2.3 (4.9)
	Type recommended		Multipurpose gear oil conforming to API GL4
	SAE viscosity number	Summer	SAE 80W, 75W-85W
		Winter	SAE 80W, 75W-85W
		Extreme cold	SAE 80W, 75W-85W

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)			Daikin Manufacturing Co.,Ltd. Dry single plate type (Hydraulic)
Assist (yes, no / percent)			No
Type pressure plate springs			Diaphragm
Total spring load [N (lb.)]		5394 (1213)	5982 (1345)
No. of clutch driven discs			One
Clutch facing	Material		Woven Asbestos
	Manufacturer		Hitachi Chemical Co.,Ltd.
	Part number		None
	Rivets/plate		16
	Rivet size		4 (mm)
	Outside & inside dia.		225 X 150 (mm)
	Total eff. area [cm^2 ($in.^2$)]		442 (68.5)
	Thickness		3.5 (mm)
	Engagement cushion method		Flat-wave springs
Release bearing	Type & method of lubrication		Ball bearing, permanently lubricated
Torsional damping	Method: springs, friction material		Coil springs and friction washers

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Engine Description/Carb. Engine Code	G54B with Turbo (2.555 Liters)	G54B with Intercooled turbo (2.555 Liters)

Automatic Transmission/Transaxle

Trade name		JATCO L4N71B	–
Type and special features (describe)		Lock up torque converter with automatically operated planetary gear transmission	
Selector	Location	Lever : Console mounted	–
	Ltr./No. designation	P.R.N.D.2.L/6	–
Gear ratios	1st	2.458	–
	2nd	1.458	–
	3rd	1.000	–
	4th	0.686	–
	Reverse	2.182	–
Max. upshift speed - drive range [km/h (mph)]		107 (67)	–
Max. kickdown speed - drive range [km/h (mph)]		89 (56)	–
Min. overdrive speed [km/h (mph)]		44 (28)	–
Torque converter	Number of elements	Three	–
	Max. ratio at stall	1.84 : 1	–
	Type of cooling (air, liquid)	Liquid	–
	Nominal diameter	236	–
Lubricant	Capacity [refill L (pt.)]	7.0 (14.9)	–
	Type Recommended	DEXRON or DEXRON II automatic transmission fluid	–
Oil cooler (std., opt.; NA, internal, external, air, liquid)		External air cooling	–

Axle or Front Wheel Drive Unit

Type (front, rear)			Rear	
Description			Separable	
Limited slip differential (type)			Opt. (Friction)	Std. (Friction)
Drive pinion offset			30	(mm)
Drive pinion (type)			Hypoid	
No. of differential pinions			2	
Pinion / differential adjustment (shim, other)			Shim	
Pinion / differential bearing adjustment (shim, other)			Shim	
Driving wheel bearing (type)			Ball	
Lubricant	Capacity [L (pt.)]		1.3 (2.4)	
	Type recommended		Multipurpose gear oil conforming to API GL-5	
	SAE viscosity number	Summer	SAE 90	
		Winter	SAE 90	
		Extreme cold	SAE 90	

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

Axle ratio (or overall top gear ratio)			3.545	
No. of teeth	Pinion		11	
	Ring gear or gear		39	
Ring gear o.d.			184.0	200 (mm)
Transaxle	Transfer gear ratio		–	
	Final drive ratio		–	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Engine Description/Carb. / Engine Code	G54B with Turbo (2.555 Liters)		G54B with Inter cooled turbo (2.555 Liters)
	M/T	A/T	M/T

Propeller Shaft – Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)			MMC, Straight tube		
Outer diam. x length* x wall thickness	Manual 3-speed trans.		N.A.		
	Manual 4-speed trans.		N.A.		
	Manual 5-speed trans.		75x722x1.6 (mm)	N.A.	75 x 722 x 1.6 (mm)
	Overdrive		N.A.		
	Automatic transmission		N.A.	75x538x1.6 (mm)	N.A.
Inter-mediate bearing	Type (plain, anti-friction)				
	Lubrication (fitting, prepack)				
Slip yoke	Type		Sliding spline		
	Number of teeth		23(24 Indexed)	25(26 Indexed)	23(24 Indexed)
	Spline o.d.		27.3	28.5	27.3
Universal joints	Make and mfg. no.	Front	Cross: MMC, Bearing: Koyo Seiko Co.,Ltd.		
		Rear	Cross: MMC, Bearing: Koyo Seiko Co.,Ltd.		
	Number used		Two		
	Type (ball and trunnion, cross)		Cross		
	Rear attach (u-bolt, clamp, etc.)		Clamp (Snap ring)		
	Bearing	Type (plain, anti-friction)	Anti-friction		
		Lubrication (fitting, prepack)	Prepack		
Drive taken through (torque tube, arms or springs)			Torque tube		
Torque taken through (torque tube, arms or springs)			Torque tube		

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

Body Type And/Or Engine Displacement	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Suspension – General

Car leveling	Std./opt./n.a.	N.A.	
	Type (air, hyd., etc.)	–	
	Manual/auto. controlled	–	
Provision for brake dip control		N.A.	
Provision for accl. squat control		N.A.	
Provisions for car jacking		N.A.	
Shock absorber (front & rear)	Type	Front: Strut type	Rear: Strut type
	Make	Kayaba Industry Co.,Ltd.	Tokiko Co.,Ltd.
	Piston diameter	30	32 (mm)
	Rod diameter	22	

Suspension – Front

Type and description		Independent strut type	
Travel	Full jounce	85 (mm)	
	Full rebound	85	75 (mm)
Spring	Type (coil, leaf, other) & material	Coil / SUP9	Coil / SUP12*1
	Insulators (type & material)	Cylindrical, Rubber	
	Size (coil design height & i.d., bar length x dia.)	339 x 117.2 x 2650 x 12.8	346 x 117.2 x 2650 x 12.8 (mm)
	Spring rate [N/mm (lb./in.)]	23.5 (134.4)	
	Rate at wheel [N/mm (lb./in.)]	21.0 (120.2)	22.0 (125.6)
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	SUP6, 21 (mm)	

Suspension – Rear

Type and description		Independent strut type	
Travel	Full jounce	95 (mm)	
	Full rebound	90 (mm)	
Spring	Type (coil, leaf, other) & material	Coil / SUP6	Coil / SUP7
	Size (length x width, coil design height & i.d., bar length & dia.)	327.7 x 107.8 x 2515 x 12.2 (mm)	
	Spring rate [N/mm (lb./in.)]	22.6 (129.5)	
	Rate at wheel [N/mm (lb./in.)]	19.6 (112.1)	20.0 (114.6)
	Insulators (type & material)	Cylindrical, Rubber	
	If leaf: No. of leaves	–	
	If leaf: Shackle (comp. or tens.)	–	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	S45C, 16	S45C, 19 (mm)
Track bar (type)		–	

*1 Spring steel, Specified in JIS

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type And/Or Engine Displacement	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Brakes - Service

Description			A187AMNXLF,H RXLF, H	A187AMNFGL F/H
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		SUMITOMO Electric Industries, Ltd., Disc	
	Rear (disc or drum)		AKEBONO Brake Industry, Ltd., Disc	
Self-adjusting (std., opt., n.a.)			Std.	
Special valving	Type (proportion, delay, metering, other)		Proportion valve	
Power brake (std., opt., n.a.)			Std.	
Booster type (remote, integral, vac., hyd., etc.)			Integral	
Vacuum source (inline, pump, etc.)			in line	
Vacuum reservoir (volume in.³)			-	
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			-	
Anti-lock device type (std., opt., n.a.) (F/R)			N.A.	Std. (R)
Effective area [cm²(in.²)]*		(F/R)	184 (28.5) / 128 (19.8)	
Gross lining area [cm²(in.²)]**(F R)			189 (29.3) / 133 (20.6)	
Swept area [cm²(in.²)]***(F R)			1316(204.0)/999(154.9)	1461(226.5)/1091(169.1)
Rotor	Outerworking diameter	F R	252 / 245	274 / 264 (mm)
	Inner working diameter	F R	147 / 168	169 / 187 (mm)
	Thickness	F R	24 / 18	(mm)
	Material & type (vented/solid)	F R	Cast iron (Vented)	
Drum	Diameter & width	F R	-	
	Type and material	F R	-	
Wheel cylinder bore		(F/R)	57.2 / 41.3	(mm)
Master cylinder	Bore/stroke	F R	23.81/ 31	(mm)
Pedal arc ratio			4.42	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			10563 (1532)	
Lining clearance		F R	No major adjustment required/No major adjustment required	
Brake lining — Front wheel	Bonded or riveted (rivets/seg.)		Bonded	
	Rivet size		-	
	Manufacturer		AKEBONO Brake Industry Ltd.	
	Lining code*****		AKV 3017 EE	
	Material		Molded	
	**** Primary or out-board		107.0 x 43.0 x 10	(mm)
	Size Secondary or in-board		107.0 x 43.0 x 10	(mm)
	Shoe thickness (no lining)		5.5	(mm)
Brake lining — Rear wheel	Bonded or riveted (rivets/seg.)		Bonded	
	Manufacturer		AKEBONO Brake Industry Ltd.	
	Lining Code*****		AKS 26 GF	
	Material		Molded	
	**** Primary or out-board		95 x 33.8 x 8.5	(mm)
	Size Secondary or in-board		95 x 33.8 x 8.5	(mm)
	Shoe thickness (no lining)		6	(mm)

*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 Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type And/Or Engine Displacement	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Tires And Wheels (Standard)

Tires	Size (load range, ply)		215/ 60R 15 90H	Fr205/55VR16	Rr225/50VR16
	Type (bias, radial, etc.)		Radial		
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	190 (27)		
		Rear (kPa (psi))	190 (27)		
	Rev./mile–at 70 km/h (45 mph)		520	829	
Wheels	Type & material		Disc. Aluminum		
	Rim (size & flange type)		15 x 6 1/2 JJ	16 x 7J	16 x 8J
	Wheel offset		18		-10
	Attachment	Type (bolt or stud)	Stud.		
		Circle diameter	114.3		
		Number & size	Four, M12 x 1.5 (Metric)	Five, M12 x 1.5 (Metric)	
Spare	Tire and wheel (same, if other describe)		Other, T135/90D15 High pressure tire		
	Storage position & location (describe)		Luggage room		

Tires And Wheels (Optional)

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)	
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	

Brakes – Parking

Type of control		Handle, Hand-operated
Location of control		Between front seats
Operates on		Rear wheels
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 Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type And/Or Engine Displacement	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Steering

Manual (std., opt., n.a.)				N.A.	
Power (std., opt., n.a.)				Std.	
Adjustable steering wheel column (tilt, telescope, other)		Type		Tilt	
		Manufacturer		MMC	
		(Std., opt., n.a.)		Std.	
Wheel diameter** (W9) SAE J1100		Manual		–	
		Power		380	(mm)
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		10.7 (35.1)	
		Curb to curb (l. & r.)		9.6 (31.5)	
	Inside rear	Wall to wall (l. & r.)		–	
		Curb to curb (l. & r.)		–	
Scrub Radius*					
Manual	Gear	Type		N.A.	
		Manufacturer		N.A.	
		Ratios	Gear	N.A.	
			Overall	N.A.	
	No. wheel turns (stop to stop)			N.A.	
Power	Type (coaxial, linkage, etc.)			Integral type power steering	
	Manufacturer			Koyo Seiko Co.,Ltd.	
	Gear	Type		Recirculating ball nut	
		Ratios	Gear	14.3	
			Overall	14.3	
	Pump (drive)			V – belt	
	No. wheel turns (stop to stop)			2.8	
Linkage	Type			Parallelogram, trailing, equal length the rods	
	Location (front or rear of wheels, other)			Rear	
	Tie rods (one or two)			Two	
Steering axis	Inclination at camber (deg.)			10°00'	
	Bearings (type)	Upper		Ball bearing	
		Lower		Ball joint	
		Thrust		–	
Steering spindle & joint type				Ball	
Wheel spindle	Diameter	Inner bearing		31.750	(mm)
		Outer bearing		19.050	(mm)
	Thread (size)			M16 X 1.0 (Metric)	
	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 Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type And/Or Engine Displacement	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	5°50' ± 30'
		Camber (deg.)	-0°30'
		Toe-in [outside track-mm (in.)]	-5 (-0.20) to 5 (0.20)
	Service reset*	Caster	
		Camber	
		Toe-in	
	Periodic M.V. inspection	Caster	
		Camber	
		Toe-in	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-0°15'
		Toe-in [outside track-mm (in.)]	-2 (-0.08) to 2 (0.08)
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. inspection	Camber	
		Toe-in	

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

Electrical – Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analog (Standard) or Digital (Option)
	Trip odometer (std., opt., n.a.)	Standard with combination meter
EGR maintenance indicator		N.A.
Charge indicator	Type	Moving iron or Digital (Bar graph)
	Warning device (light, audible)	Voltmeter (driving pointer or digital bar graph), & warning light
Temperature indicator	Type	Electric thermal or Digital (Bar graph)
	Warning device (light, audible)	Driving pointer or Digital (Bar graph) & warning light (only digital meter)
Oil pressure indicator	Type	Electric thermal or Digital (Bar graph)
	Warning device (light, audible)	Driving pointer or Digital (Bar graph)
Fuel indicator	Type	Electric thermal or Digital (Bar graph)
	Warning device (light, audible)	Driving pointer or Digital (Bar graph), & Warning light
Windshield wiper	Type (standard)	Electric two speed with variable intermittent operation
	Type (optional)	N.A.
	Blade length	480 (mm)
	Swept area [cm^2($in.^2$)]	5630 (873)
Windshield washer	Type (standard)	Electric
	Type (optional)	N.A.
	Fluid level indicator (light, audible)	Warning light
Rear window wiper, wiper/washer (std., opt., n.a.)		Electric one speed with intermittent operation (Std.)
Horn	Type	90 diameter
	Number used	two
Other		Brake system and parking brake warning light fasten belts warning light.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

Engine Description/Carb. Engine Code	G54B with Turbo (2.555 Liters)	G54B with Inter cooled Turbo (2.555 Liters)

Electrical – Supply System

Battery	Manufacturer	YUASA BATTERY CO.,LTD. or JAPAN STORAGE BATTERY CO.,LTD. or MATSUSHITA BATTERY IND.CO.,LTD. or SHIN-KOBE ELECTRIC MACHINERY CO.,LTD.
	Model, std., (opt.)	NX100-S6(S)-MF
	Voltage	12
	Amps at 0°F cold crank	420
	Minutes-reserve capacity	75
	Amp/hrs. - 20 hr. rate	45
	Location	Front, left side of engine compartment
Alternator	Manufacturer	Mitsubishi Electric Corp.
	Rating	65 / 75
	Ratio (alt. crank/rev.)	2.06 : 1
	Optional (type & rating)	N.A.
Regulator	Type	Voltage Control

Electrical – Starting System

Start. motor	Current drain at 0°F	
Motor drive	Engagement type	Solenoid
	Pinion engages from (front, rear)	Front

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)		Std.
	Other (specify)		
Coil	Make		Diamond Electric Manufacturing Co.,Ltd.
	Model		LB-119
	Current	Engine stopped – A	0
		Engine idling – A	1.4
Spark plug	Make		NGK Spark Plug Co.,Ltd. or Nippon Denso
	Model		BUR6EA-11 or W20EPR-S11
	Thread (mm)		14
	Tightening torque [N-m (lb. ft)]		20 to 30 (15 to 22)
	Gap		1.0 to 1.1
	Number per cylinder		1
Distributor	Make		Mitsubishi Electric Corp.
	Model		

Electrical – Suppression

Locations & type	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

Body Type	A187A	
	MNXLF/H, MRXLY/H	MNFGLF/H

Body

Structure	Monocock body
Bumper system front - rear	Impact absorbing system Facia (Polyurethane) Energy absorber (Polyurethane) Reinforcement (Steel)
Anti-corrosion treatment	Cathodic ED paint Extend use of galvanealed Steel Wax injection Stone chipping resistance coating

Body – Miscellaneous Information

Type of finish (lacquer, enamel, other)		-
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	-
	Internal release control (elec., mech., n.a.)	-
Hatch-back lid	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	Mech.
Station wagon		
Vent window control (crank, friction, pivot, power)	Front	
	Rear	
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	bucket, Spring
	Rear	bench, Urethane form
	3rd seat	-
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	bucket, Spring
	Rear	Sprit, Urethane form
	3rd seat	-

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

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front:2 point seat belt with ELR ; Rear:outboard:2 point seat belt with ALR Rear:center:2 point seat belt with manual adjusting device
	Location	Front, Rear
Passive seat belts	Standard/optional	Standard
	Power/manual	Power
	2 or 3 point	2 point
	Knee bar/lap belt	Keep bar and lap belt

Frame

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

Glass	SAE Ref. No.	
Windshield glass exposed surface area [cm^2($in.^2$)]	S1	7368 (1142)
Side glass exposed surface area [cm^2($in.^2$)] - total 2-sides	S2	8740 (1350)
Backlight glass exposed surface area [cm^2($in.^2$)]	S3	9350 (1450)
Total glass exposed surface area [cm^2($in.^2$)]	S4	25458 (3942)
Windshield glass (type)		Curved-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 Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

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

Air conditioning (manual, auto. temp control)		Std. (Auto)	
Clock (digital, analog)		Std. (digital)	
Compass · thermometer		N.A.	
Console (floor, overhead)		Std. (floor)	
Defroster, elec. backlight		Std.	
Electronic	Diagnostic monitor (integrated, individual)	Std. (partly integrated)	
	Instrument cluster (list instruments)	*Opt.	N.A.
	Keyless entry	N.A.	
	Tripminder (avg. spd., fuel)	N.A.	
	Voice alert (list items)	N.A.	
	Other		
Fuel door lock (remote, key, electric)		Std. (remote, key)	
Lamps	Auto head on · off delay, dimming	N.A.	
	Cornering	N.A.	
	Courtesy (map, reading)	Std.	
	Door lock, ignition	N.A.	
	Engine compartment	N.A.	
	Fog	Std.	
	Glove compartment	Std.	
	Trunk	Std.	
	Other		
Mirrors	Day·night (auto, man.)	Std. (Man.)	
	L.H. (remote, power, heated)	Std. (Power)	
	R. H. (convex, remote, power, heated)	Std. (Convex, Power)	
	Visor vanity (RH LH, illuminated)	RH/Std. (Illu.) LH/N.A.	
Parking brake-auto release (warning light)		-	
Power equipment	Door locks deck lid - specify	Std.	N.A.
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)		
	Side windows	Std.	
	Vent windows	N.A.	
	Rear window	N.A.	
Radio systems	Antenna (location, whip, w/shield, power)	Std. (power on rear quarter)	
	AM, FM, stero, tape, CB	Std. (AM/FM MPX, electronic auto tuning radio with cassete player & equalize	
	Speaker (number, location) Premium sound	6 or 8 speakers-i/pnl doors shelf	
Roof open air/fixed (flip-up, sliding, "T")		Opt. (flip-up)	
Speed control device		Std.	
Speed warning device (light, buzzer, etc.)		N.A.	
Tachometer (rpm)		Std.	
Telephone system - mobile		N.A.	
Theft protection-type		Disk tumbler, key locks on ignition switch, doors, fue lid luggage compartment lockable Steering	

*Opt. (Speed, Tacho, Fuel, Temp, Trip-odo, Oilpress, Turbo, Volt)

MVMA Specifications Form
Passenger Car

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

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

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each 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.	A187A	
Width		MNXLF/H, MRXLF/H	MNFGLF/H
Tread (front)	W101	1410	1465
Trear (rear)	W102	1400	1455
Vehicle width	W103	1685	1735
Body width at Sg RP (front)	W117	1685	
Vehicle width (front doors open)	W120	3745	3595
Vehicle width (rear doors open)	W121	–	
Front fender overall width	W106	1685	1720
Rear fender overall width	W107	1685	1735
Tumble-home (deg.)	W122	31°	
Length			
Wheelbase	L101	2435	
Vehicle length	L103	4400	
Overhang (front)	L104	970	
Overhang (rear)	L105	995	
Upper structure length	L123	2600	
Rear wheel C/L "X" coordinate	L127	2010	
Cowl point "X" coordinate	L125	85	
Front end length at centerline	L126	1480	
Rear end length at centerline	L129	320	
Height*			
Passenger distribution (front/rear)	PD1,2,3	Front:2, Rear:3	
Trunk/cargo load		–	
Vehicle height	H101	1275	
Cowl point to ground	H114	915	
Deck point to ground	H138	895	
Rocker panel-front to ground	H112	180	
Bottom of door closed-front to grd.	H133	260	
Rocker panel-rear to ground	H111	175	
Bottom of door closed-rear to-grd.	H135	–	
Windshield slope angle	H122	60°	
Backlight slope angle	H121	70°	
Ground Clearance*			
Front bumper to ground	H102	350	
Rear bumper to ground	H104	300	
Bumper to ground [front at curb mass (wt.)]	H103	355	
Bumper to ground [rear at curb mass (wt.)]	H105	370	
Angle of approach (degrees)	H106	18°	16°
Angle of departure (degrees)	H107	19°	
Ramp breakover angle (degrees)	H147	12°	
Axle differential to ground (front / rear)	H153	160	
Min. running ground clearance	H156	115	
Location of min. run. grd. clear.		Exhaust pipe	

* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.
Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.
All linear dimensions are in millimeters (inches) unless otherwise noted.

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

See Key Sheets for definitions

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

Body Type	SAE Ref. No.	A187A	
		MNXLF/H, MRXLF/H	MNFGLF/H

Front Compartment

Sg RP front, "X" coordinate	L31	995
Effective head room	H61	930
Max. eff. leg room (accelerator)	L34	1035
SgRP to heel point	H30	215
SgRP to heel point	L53	825
Back angle	L40	25°
Hip angle	L42	91°
Knee angle	L44	117°
Foot angle	L46	87°
Design H-point front travel	L17	180
Normal driving & riding seat track trvl.	L23	180
Shoulder room	W3	1330
Hip room	W5	1350
Upper body opening to ground	H50	1190
Steering wheel maximum diameter*	W9	380
Steering wheel angle	H18	21°
Accel. heel pt. to steer. whl. cntr	L11	445
Accel. heel pt. to steer. whl. cntr	H17	595
Steering wheel to C/L of thigh	H13	45
Steering wheel torso clearance	L7	380
Headlining to roof panel (front)	H37	15
Undepressed floor covering thickness	H67	20

Rear Compartment

Sg RP Point couple distance	L50	605
Effective head room	H63	900
Min. effective leg room	L51	740
Sg RP (second to heel)	H31	250
Knee clearance	L48	0
Compartment room	L3	525
Shoulder room	W4	1300
Hip room	W6	1030
Upper body opening to ground	H51	–
Back angle	L41	25° (Outboard), 28° (Center)
Hip angle	L43	74°
Knee angle	L45	64°
Foot angle	L47	118°
Headlining to roof panel (second)	H38	15
Depressed floor covering thickness	H73	15

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	–
Liftover height	H195	–

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		Subcompact
Interior volume index (cu. ft.)		86.5 ft^3
Trunk/cargo index (cu. ft.)		10.3 ft^3

* See page 14.

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

MVMA Specifications Form
Passenger Car

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•)

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

Body Type	SAE Ref. No.	A187A	
		MNXLF/H, MRXLF/H	MNFGLF/H
Station Wagon – Third Seat			
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	–	
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	1250	
Cargo length at floor (front)	L209	1515	
Cargo length at second seatback height	L210	590	
Cargo length at floor (second)	L211	890	
Front seatback to load floor height	H197	285	
Second seatback to load floor height	H198	305	
Cargo volume index [m^3($ft.^3$)]	V3	0.51	
Hidden cargo volume [m^3($ft.^3$)]	V4	–	
Cargo volume index-rear of 2-seat	V11	–	
Aerodynamics*			
Wheel lip to ground, front		–	
Wheel lip to ground, rear		–	
Frontal area [m^2(ft^2)]		1.74 (18.77)	1.84 (19.81)
Drag coefficient (Cd)		0.35	

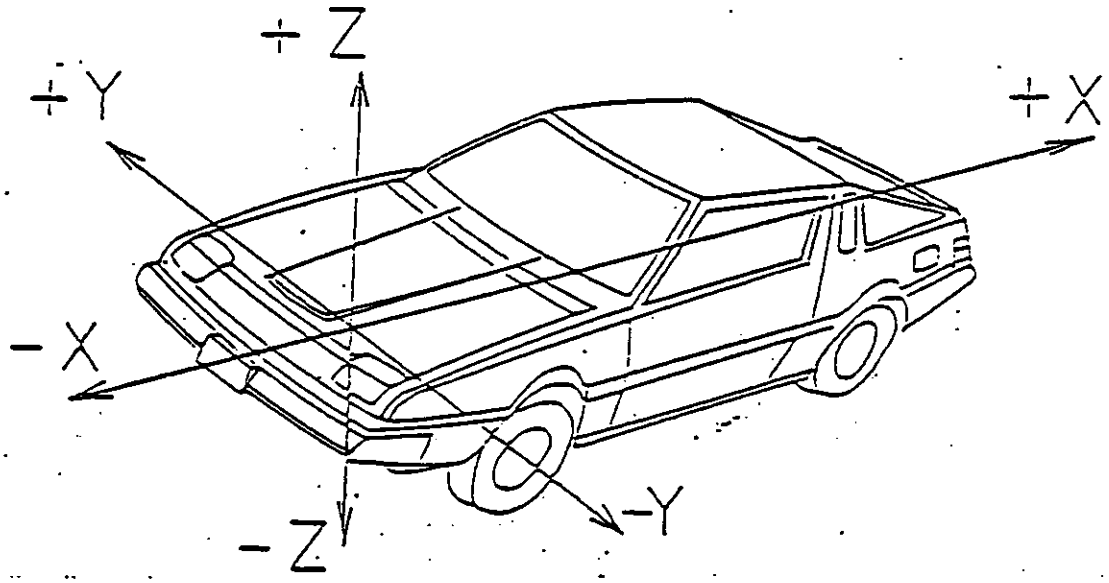
* EPA Loaded Vehicle Weight, Loading Conditions
All linear dimensions are in millimeters (inches) unless otherwise noted.

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

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		
Rear		Datum plane difinition – Vertical longitudinal plane through the longitudinal center of the car. Vertical transverse place through the front wheel center. Horizontal plane through the bottom of the rocker panels.
Fiducial Mark Number		
Front	W21*	345
	L54*	0.35
	H81*	111
	H161*	295
	H163*	–
Rear	W22*	520
	L55*	2965
	H82*	291
	H162*	450
	H164*	–

* Reference – SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.
All linear dimensions are in millimeters (inches).

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

Car Line Starion
Model Year 1987 Issued 3-1-1986 Revised (•) _____

Body Type	A187A	
	MNXLF/H, MRXLF/H	MNFGLF/H

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	720 (283)
		Lowest	–
	Taillamp (SAE - H128)	Highest**	725 (285)
		Lowest	720 (283)
	Sidemarker	Front	595 (234)
		Rear	745 (293)
Distance from C/L of car to center of bulb	Headlamp	Inside	–
		Outside**	560 (220)
	Taillamp	Inside	415 (163) 565 (222)
		Outside**	715 (281)
	Directional	Front	570 (224)
		Rear	415 (163) 565 (222)

Halogen headlamp (std., opt., n.a.)	Lo beam	Std.
	Hi beam	Std.
	Replaceable bulb	N.A.
	Shape	5.6 X 7.9 in rectangular unit (2B1)
Headlamp other than above	Lo beam	N.A.
	Hi beam	N.A.
	Replaceable	N.A.
	Shape	N.A.
	Type	N.A.

* 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 Starion

Model Year 1987 Issued 3-1-1986 Revised (•) _____

Model	Vehicle Mass (weight)							
	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	
A187AMNXLF	724	631	1355	63	73	95	109	1307
A187AMNXLH	(1596)	(1391)	(2988)	(139)	(161)	(209)	(240)	(2882)
A187AMRXLF	735	637	1372	63	73	95	109	1324
A187AMRXLH	(1621)	(1405)	(3025)	(139)	(161)	(209)	(240)	(2919)
A187AMNFGLF	747	653	1400	63	73	95	109	1352
A187AMNFGLH	(1647)	(1440)	(3087)	(139)	(161)	(209)	(240)	(2981)

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

** Shipping mass (weight) definition – Curb weight minus fuel (48kg)

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line Starion

Model Year 1987 Issued 3-1-1986 Revised (•) _____

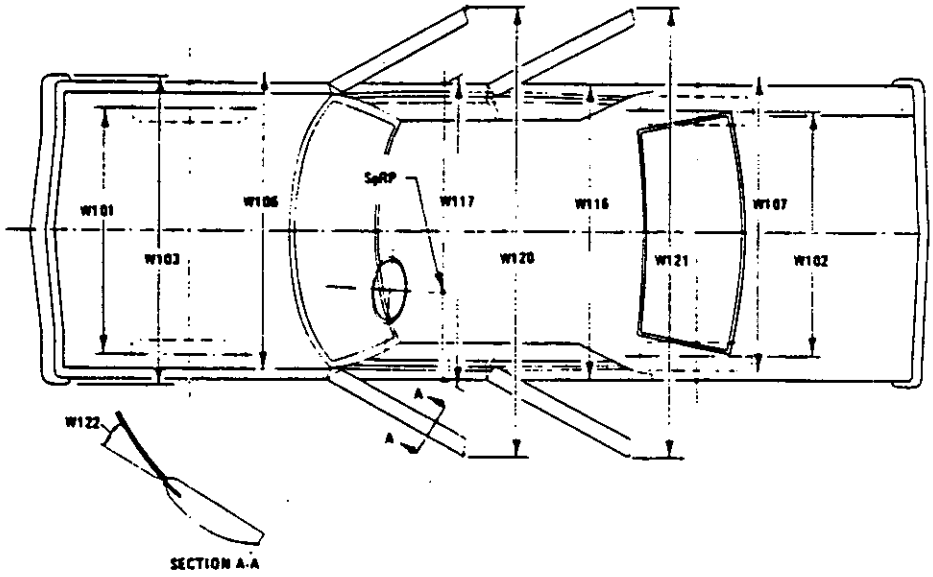
Optional Equipment Differential Mass (weight)*

Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Digital speedmeter	0.1	0	0.1	
	(0.2)	(0)	(0.2)	
SUN ROOF	2.0	5.0	7.0	
	(4.4)	(11.0)	(15.4)	

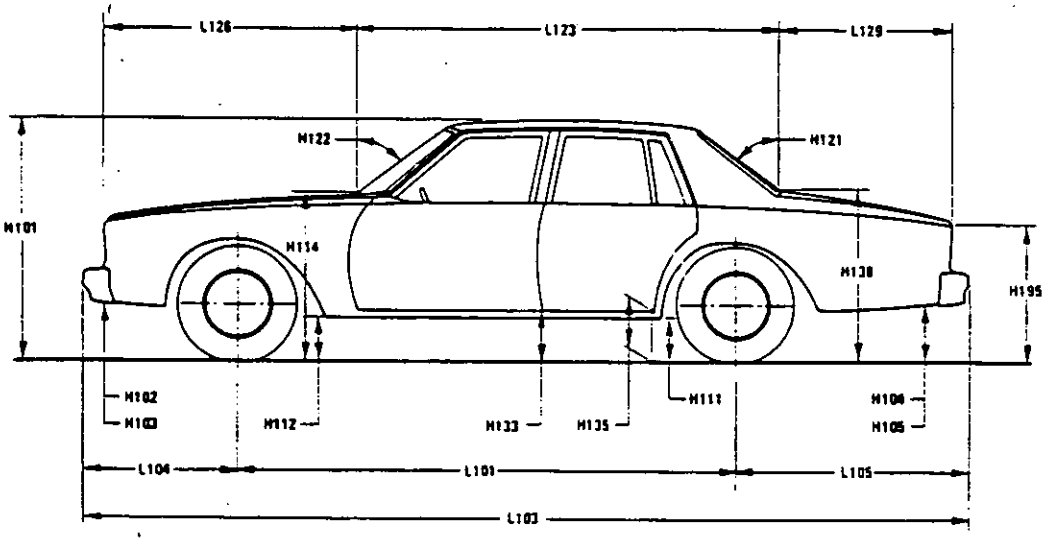
*Also see Engine - General Section for dressed engine mass (weight).

Exterior Car And Body Dimensions – Key Sheet

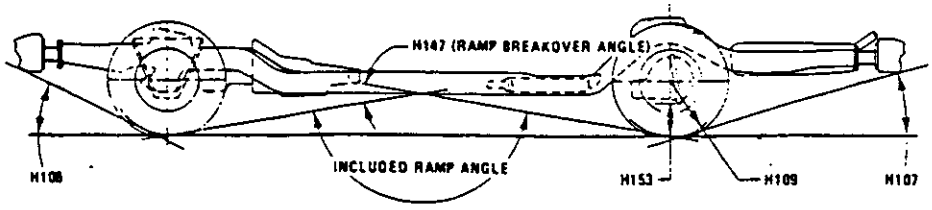
Exterior Width



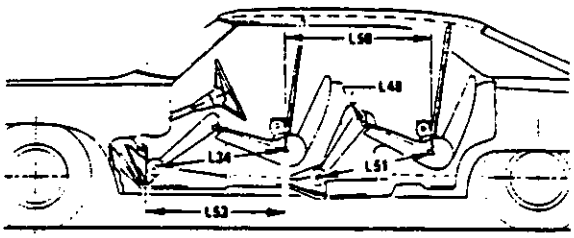
Exterior Length & Height

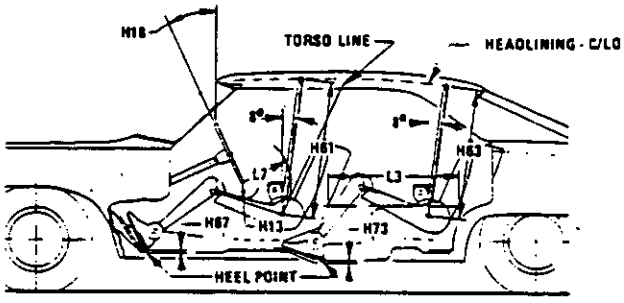


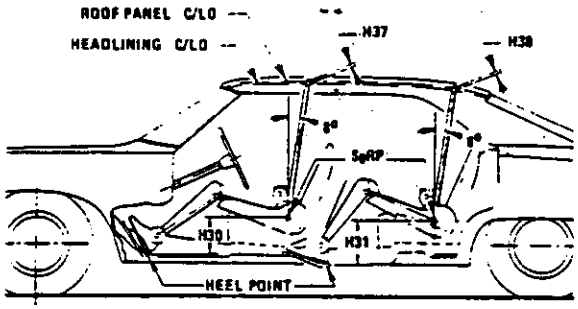
Exterior Ground Clearance

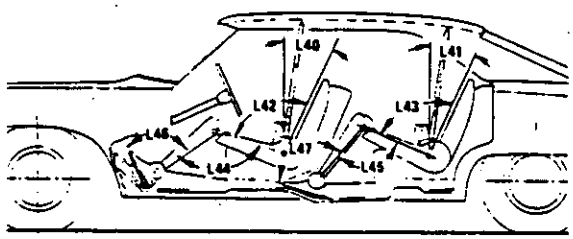


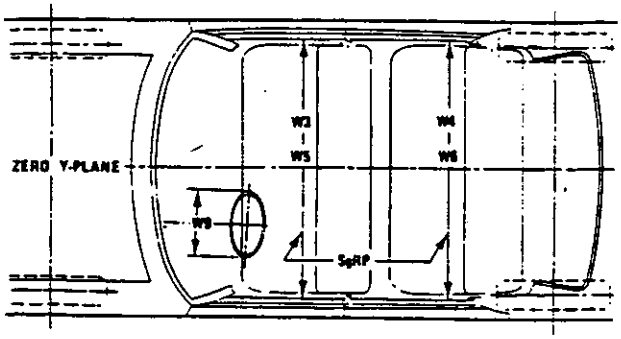
Interior Car And Body Dimensions – Key Sheet

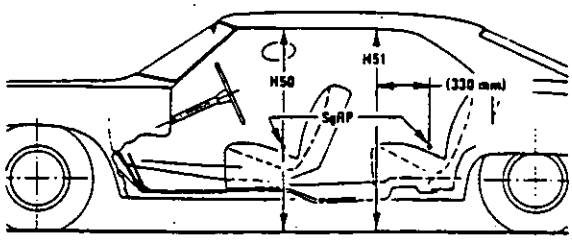






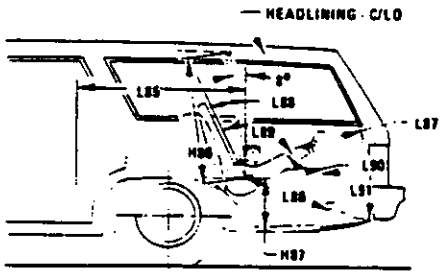


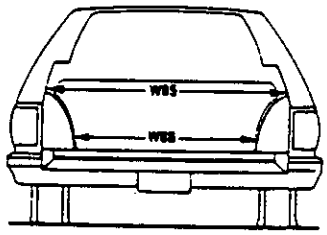




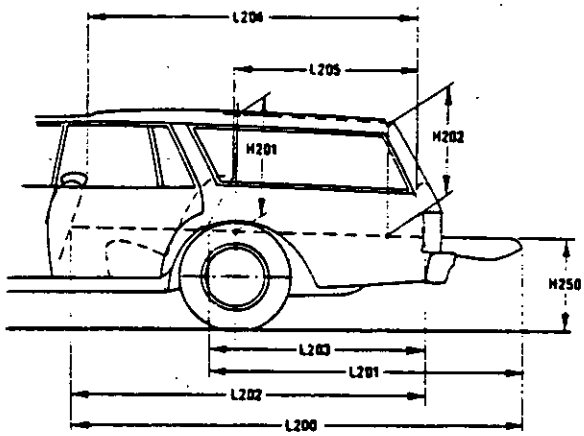
Interior Car And Body Dimensions – Key Sheet

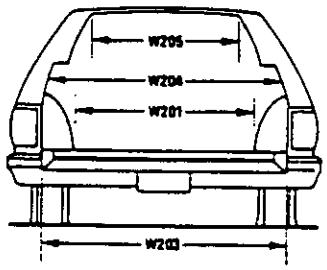
Third Seat



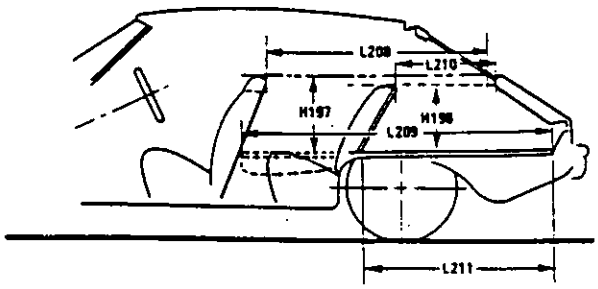


Cargo Space





Station Wagon



Hatchback

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.

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.

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