

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1986

Manufacturer Pontiac Motor Division General Motors Corporation	Car Line SUNBIRD	
Mailing Address Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued NOVEMBER, 1985	Revised

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

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

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Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front Rear)	Max. Trunk Cargo Load—Kilograms (Pounds)
FWD				
<u>SUNBIRD</u>				
4-DR N/B SEDAN	9-26-85	2JB69	5 (2/3)	60 (132.3)
4-DR STATION WAGON	9-26-85	2JB35	5 (2/3)	40 (88.2)
<u>SUNBIRD SE</u>				
2-DR N/B COUPE	9-26-85	2JD27	5 (2/3)	60 (132.3)
2-DR CONVERTIBLE	9-26-85	2JD67	5 (2/3)	60 (132.3)
3-DR H/B COUPE	9-26-85	2JD77	5 (2/3)	60 (132.3)
<u>SUNBIRD GT</u>				
✓ 2-DR N/B COUPE	9-26-85	2JU27	5 (2/3)	60 (132.3)
2-DR CONVERTIBLE	9-26-85	2JU67	5 (2/3)	60 (132.3)
4-DR N/B SEDAN	9-26-85	2JU69	5 (2/3)	60 (132.3)
✓ 3-DR H/B COUPE	9-26-85	2JU77	5 (2/3)	60 (132.3)

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Power Teams (Indicate whether standard or optional)
 SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.81 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Carb. (Barrels, Fl. etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N·m (lb. ft.)			
<u>STANDARD</u> SUNBIRD SUNBIRD SE	1.8L (110) L4 LH8	EFI	8.8:1	(84@ 5200)	(98@ 2800)	S	5M	3.45
<u>OPTIONAL</u> SUNBIRD GT							3A-125C (OPTIONAL)	3.43
							5M	3.45
							3A-125C (OPTIONAL)	3.43
<u>STANDARD</u> SUNBIRD GT	1.8L (110) L4 LA5	MPFI	8:01	(150@ 5600)	(150@ 2800)	S	4M	3.65
<u>OPTIONAL</u> SUNBIRD (EXC WAGON) SUNBIRD SE							3A-125C (OPTIONAL)	3.33
							4M	3.65
							3A-125C (OPTIONAL)	3.33

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METRIC (U.S. Customary)

Engine Description/Carb.
Engine Code

1.8L L4 (110 CID) ELECTRONIC FUEL INJECTION RPO LH8	1.8L L4 (110 CID) MPFI / TURBO RPO LA5
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ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	INLINE, FRONT, TRANSVERSE, FACES RIGHT SIDE OF VEHICLE	
Manufacturer	PONTIAC	
No. of cylinders	4	4
Bore	84.8 (3.34)	
Stroke	79.5 (3.12)	
Bore spacing (C/L to C/L)	93.0 (3.67)	
Cylinder block material & mass kg (lbs.)	CAST IRON	
Cylinder block deck height	216.0 (8.50)	
Deck clearance (minimum) (above or below block)	36.00 ABOVE (0.14 BELOW)	
Cylinder head material & mass kg (lbs.)	ALUMINUM	
Cylinder head volume (cm ³)	---	
Head gasket thickness (compressed)	1.2 (0.047)	
Minimum combustion chamber total volume (cm ³)	54.10	58.64
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	- -
Firing order	1-3-4-2	
Intake manifold material & mass [kg (weight, lbs.)]	ALUMINUM	
Exhaust manifold material & mass [kg (weight, lbs.)]	CAST IRON	STAINLESS
Recommended fuel (leaded, unleaded, diesel)	UNLEADED	
Fuel antiknock index (R + M) 2	87	
Total dressed engine mass (wt. dry)**	160.0 kg (352.00 lbs.)	131.90 kg (290.80 lbs.)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	CAST ALUMINUM ALLOY, TIN OR LEAD PLATED 333.0 +/- 5.0 g 402.0 (14.2)
--	---

Engine - Camshaft

Location	OVERHEAD CAMSHAFT	
Material & mass kg (weight, lbs.)	HARDENED ALLOY CAST IRON 2.48 (5.47)	
Drive type	Chain / belt	CHAIN
	Width / pitch	19.0 MM (0.748)/10.00 mm (0.39)

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.
 ** Dressed engine mass (weight) includes the following: ALL THOSE ITEMS NECESSARY TO MAKE THE ENGINE A COMPLETE READY-TO-RUN UNIT.

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Engine - Valve System

Hydraulic lifters (std., opt., NA)	STANDARD
Valves	4/4
	41 / 35

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]	MALLEABLE IRON QS 11MS65 - 0.760 (1.68)
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Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]	NODULAR CAST IRON/16.2 (35.7)
End thrust taken by bearing (no.)	3
Number of main bearings	
Seal (material, one, two piece design, etc.)	Front
	Rear

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	448 (65) @ 2500
Type oil intake (floating, stationary)	STATIONARY
Oil filter system (full flow, part, other)	FULL FLOW
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)

Engine - Diesel Information

Diesel engine manufacturer	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	AIRESEARCH TZ
Super charger - manufacturer	NOT APPLICABLE	
Charge cooler	NOT APPLICABLE	

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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		STANDARD	
Coolant fill location (rad., bottle)		BOTTLE	
Radiator cap relief valve pressure [kPa (psi)]		103.43 (15.0)	
Circulation thermostat	Type (choke, bypass)	CHOKE	
	Starts to open at °C (°F)	91° (195)	
Water pump	Type (centrifugal, other)	CENTRIFUGAL	
	GPM 1000 pump rpm	NOT AVAILABLE	
	Number of pumps	ONE	
	Drive (V-belt, other)	COG-BELT	
	Bearing type	DOUBLE ROW BALL	
	Impeller material	NOT AVAILABLE	
	Housing material	" "	
By-pass recirculation [type (inter., ext.)]		EXTERNAL - THRU INTAKE MANIFOLD	
Cooling system capacity	With heater—L(qt.)	7.42 (7.8)	
	With air cond.—L(qt.)	7.46 (7.9)	
	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	STANDARD	A/C
	Type (cross-flow, etc.)	CROSS FLOW	
	Construction (fin & tube mechanical, braze, etc.)	NOT AVAILABLE	
	Material, mass [kg (wt. lbs.)]	" "	
	Width	430.0 (16.9)	500.0 (19.7)
	Height	387.5 (15.3)	387.5 (15.3)
	Thickness	25.0 (0.98)	40.2 (1.6)
	Fins per inch	14.5	14.5
Radiator end tank material		NOT AVAILABLE	
Fan	Std., elec., opt.	ELECTRIC STANDARD	
	Number of blades & type (flex, solid, material)	7, BLADES	
	Diameter & projected width	280.0(11.0)(HTR); 355.0(13.98)(A/C)	290.0(11.4)(HTR); 386.0(15.2)(A/C)
	Ratio (fan to crankshaft rev.)	NOT AVAILABLE	
	Fan cutout type	" "	
	Drive type (direct, remote)	" "	
	RPM at idle (elec.)	1700 - 1850	
	Motor rating (wattage) (elec.)	96 (HTR)	150 (A/C)
	Motor switch (type & location) (elec.)	THERMAL: CYLINDER HEAD	
	Switch point (temp., pressure) (elec.)	110.5 + 3C	
	Fan shroud (material)	GLASS-FILLED NYLON	

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Engine Description: Carb.
 Engine Code

1.8L L4 (110 CID) ELECTRONIC F.I. RPO LH8	1.8L L4 (110 CID) MPFI/TURBO RPO LA5
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Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		FUEL INJECTION		
Carburetor	Mfgr.	ROCHESTER	BOSCH	
	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 (4)	
	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)				
Air cleaner type	Standard	WATER	NONE	
	Optional	REPLACEABLE PAPER ELEMENT		
Fuel pump	Type (elec. or mech.)	ELECTRIC		
	Location (eng., tank)	FUEL TANK		
	Pressure range (kPa (psi))	83.0 (12.0)	160.0-350.0 (24.0-52.0)	

Fuel Tank

Capacity (refill L (gallons))		51.5 (13.6)
Location (describe)		FLOOR PLAN AREA - FRONT OF REAR AXLE
Attachment		TWO STRAPS UNDER BODY
Material & Mass (kg (weight lbs))		STEEL
Filler pipe	Location & material	RIGHT REAR QUARTER PANEL, STEEL
	Connection to tank	HOSE
Fuel line (material)		STEEL (GM 124 - M)
Fuel nose (material)		GM 6163 - M FLASTOMER HOSE
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		

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		3C-TBI, SINGLE BED 3-WAY, EST, BPEGR
	Air Injection	Pump or pulse	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)	BACK PRESSURE MODULATED MANIFOLD
		Exhaust source	
		Point of exhaust injection (spacer, carburetor, manifold, other)	INTAKE MANIFOLD
	Catalytic Converter	Type	SINGLE BED, OXIDIZING/REDUCING
		Number of	ONE
		Location(s)	FORWARD UNDER FLOOR
		Volume [L (in ³)]	2.62 (160.0)
Substrate type		PELLETS	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		INDUCTION SYSTEM
	Energy source (manifold vacuum, carburetor, other)		MANIFOLD VACUUM
	Discharges (to intake manifold, other)		INTAKE MANIFOLD
	Air inlet (breather cap, other)		CARBURETOR AIR CLEANER
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank Carburetor	CANISTER
	Vapor storage provision		CANISTER
Electronic system	Closed loop (yes/no)		YES
	Open loop (yes/no)		NO

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		DUAL OUTLET PIPES (EXCEPT WAGON), SINGLE OUTLET PIPE	
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	44.5x1.02 (1.75 x .040)	67.15 (2.64)
	Material & Mass [kg (weight lbs)]	409 STAINLESS STEEL GM 6125 - M	
Intermediate pipe	o.d. & wall thickness	44.5x1.09 (1.75 x .043)	50.8 (2.0)
	Material & Mass [kg (weight lbs)]	1009 ALUMINUM COATED	
Tail pipe	o.d. & wall thickness	50.8x1.09 (2.0 x .043)	
	Material & Mass [kg (weight lbs)]	1009 ALUMINUM COATED	

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Transmissions Transaxle

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

Manual Transmission Transaxle

		OPTIONAL F/F LEADER			
Number of forward speeds		5	5	4	
Transmission ratios	In first	3.91	3.91	3.31	
	In second	2.15	2.15	1.95	
	In third	1.45	1.33	1.24	
	In fourth	1.03	0.92	0.81	
	In fifth	0.74	0.74	---	
	In overdrive				
	In reverse	3.50	3.50	3.42	
Synchronous meshing (specify gears)		ALL FORWARD GEARS			
Shift lever location		FLOOR			
Lubricant	Capacity [L (pt.)]	2.55 (5.4)	2.8 (5.94)		
	Type recommended	SAE 5W-30			
	SAE viscosity number	Summer	---		
		Winter	---		
Extreme cold		---			

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		NOT AVAILABLE	
Assist (yes, no percent)		" "	
Type pressure plate springs		BELLEVILLE SPRING	
Total spring load [N (lb.)]		550	
No. of clutch driven discs		ONE	
Clutch facing	Material	HN 55 MOLDED NON-ASBESTOS (VELEO F202)	
	Manufacturer		
	Part number	94167716	14087238
	Rivets plate	NOT AVAILABLE	
	Rivet size	" "	
	Outside & inside dia.	" "	
	Total eff. area [cm ² (in. ²)]	176.79 (27.4)	173.73 (28.46)
	Thickness	8.6 + 0.3mm (0.34 + 0.01 in.)	6.6 - 7.1mm (0.260 - 0.280 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	

* FIFTH SPEED IS OVERDRIVE.

** FOURTH SPEED IS OVERDRIVE.

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Automatic Transmission/Transaxle

Trade name	3-SPEED AUTOMATIC	
Type and special features (describe)	PLANETARY GEARS - TORQUE CONVERTER, W/LOCKING CLUTCH	
Selector	Location	FLOOR
	Ltr./No. designation	P-R-N-D-2-1
Gear ratios	R	2.07
	D	1.00
	L ₃	NOT AVAILABLE
	L ₂	1.60
	L ₁	2.84
Max. upshift speed - drive range [km/h (mph)]		111 (69) 119 (74)
Max. kickdown speed - drive range [km/h (mph)]		104 (65) 111 (69)
Min. overdrive speed [km/h (mph)]		NOT AVAILABLE
Torque converter	Number of elements	3
	Max. ratio at stall	2.38
	Type of cooling (air, liquid)	LIQUID
	Nominal diameter	245.0 mm (9.65)
Lubricant	Capacity (refill L (pt.))	5.5 (11.66)
	Type Recommended	GM DEXRON II
Oil cooler (std., opt., NA, internal, external, air, liquid)		STANDARD - LIQUID - IN RADIATOR

Axle or Front Wheel Drive Unit

Type (front, rear)	FRONT		
Description	INTEGRAL W/TRANSMISSION		
Limited slip differential (type)	NONE		
Drive pinion offset	NOT AVAILABLE		
Drive pinion (type)	NOT AVAILABLE		
No. of differential pinions	2		
Pinion / differential adjustment (shim, other)	NOT AVAILABLE		
Pinion / differential bearing adjustment (shim, other)	NOT AVAILABLE		
Driving wheel bearing (type)	INTEGRAL DOUBLE ROW BALL BEARING		
Lubricant	Capacity [L (pt.)]	NOT AVAILABLE (PART OF TRANSMISSION)	
	Type recommended	ATF TEXTRON II FLUID	
	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)		3.43	3.33
No. of teeth	Pinion	NOT AVAILABLE	NOT AVAILABLE
	Ring gear or gear	NOT AVAILABLE	NOT AVAILABLE
Ring gear o.d.		" "	" "
Transaxle	Transfer gear ratio	1.00	1.00
	Final drive ratio	3.06	3.33

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Axle Shafts - Front Wheel Drive

Number used		TWO	
Type (straight, solid bar, tubular, etc.)		Left	STRAIGHT, SOLID BAR
		Right	STRAIGHT, SOLID BAR
Outer diam. x length* x wall thickness	Manual transmission	Left	23.8 x 320.0mm (0.94 x 12.60 in.)
		Right	27.2 x 313.0mm (1.07 x 12.32 in.)
	Automatic transmission	Left	23.8 x 663.0mm (0.94 x 26.10 in.)
		Right	27.2 x 665.0mm (1.07 x 26.18 in.)
	Optional transmission	Left	23.8 x 311.0mm (0.94 x 12.24 in.)
		Right	23.8 x 364.3mm (0.94 x 14.34 in.)
Slip yoke	Type		NONE
	Number of teeth		NONE
	Spline o.d.		NONE
Universal joints	Make and mfg. no.	Inner	SAGINAW
		Outer	SAGINAW
	Number used		TWO ON EACH DRIVE SHAFT
	Type, size, plunge	Inner	TRI-POT, 61mm PLUNGE
		Outer	63mm
	Attach (u-bolt, clamp, etc.)		RZEPPA, FIXED
			SNAP-RING
Bearing	Type (plain, anti-friction)	ANTI-FRICTION	
	Lubrication (fitting, prepack)	PREPACKED	
Drive taken through (torque tube, arms or springs)		WISHBONE 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 attachment.

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Body Type And Or Engine Displacement	SUNBIRD & SE	"GT"
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Suspension - General

Car leveling	Std. opt. n.a.	NOT AVAILABLE	
	Type (air, hyd., etc.)	"	"
	Manual auto. controlled	"	"
Provision for brake dip control		FRONT SUSPENSION GEOMETRY	
Provision for accel. squat control		REAR SUSPENSION GEOMETRY	
Provisions for car jacking		BODY PICKUP AT ROCKER PANELS	
Shock absorber (front & rear)	Type	FRONT: MacPHERSON STRUT; REAR: DOUBLE-ACTING, HYDRAULIC	
	Make	DELCO	
	Piston diameter	32mm (1.2) FRT. 25mm (1.0) Rr.	35mm (1.4) FRT., 25mm (1.0) Rr.
	Rod diameter	25mm (1.0)	25mm (1.0)

Suspension - Front

Type and description		MacPHERSON STRUT DESIGN	
Drive and torque taken through		FRONT WHEEL SUSPENSION & ENGINE MOUNTING	
Travel	Full jounce	92.0mm (3.62) FROM DESIGN	
	Full rebound	86.0mm (3.39) FROM DESIGN	
Spring	Type (coil, leaf, other) & material	COIL, STEEL	
	Insulators (type & material)	RUBBER CUSHION	
	Size (coil design height & i.d., bar length x dia.)	406.6x139.0x2932x12.9mm (160x5.47x115.4x.5) BASE SPRING *	
	Spring rate [N mm (lb. in.)]	16.0 (91.0)	24.0 (137.0)
	Rate at wheel [N mm (lb. in.)]	15.3 (87.4)	22.9 (131.0)
Stabilizer	Type (link, linkless, frameless)	LINK	
	Material & bar diameter	STEEL - 24.0mm (0.94)	STEEL 28.0mm (1.10)

Suspension - Rear

Type and description		COMPOUND CRANK TWIST ANGLE	
Drive and torque taken through		NOT AVAILABLE	
Travel	Full jounce	137.0mm (3.39) FROM CURB	
	Full rebound	68.0mm (2.68) FROM CURB	
Spring	Type (coil, leaf, other) & material	COIL, CONICAL, STEEL SAE 5160	
	Size (length x width, coil design height & i.d., bar length & dia.)	290.0x105.0x2626.0x13.6mm (11.42x4.13x103.4x0.54) BASE SPRING *	
	Spring rate [N mm (lb. in.)]	VARIABLE (CURB/FULL RATED LOAD) 23.0/39.0 (131.0/222.0)	
	Rate at wheel [N mm (lb. in.)]	VARIABLE (CURB/FULL RATED LOAD) 12.5/20.7 (71.3/118.0)	
	Insulators (type & material)	RUBBER CUSHION	
if leaf	No. of leaves	--	
	Shackle (comp. or tens.)	--	
Stabilizer	Type (link, linkless, frameless)	LINK	LINK
	Material & bar diameter	19mm (.075)W/P195/70 TIRES	21mm (0.83) *
Track bar (type)		NONE	

* ALL SPRINGS ARE COMPUTER SELECTED FOR CORRECT SPRING RATE AND LOAD

*INCLUDED WITH GPU/GPV TIRES.

MVMA Specifications Form Passenger Car

Car Line SUNBIRD
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METRIC (U.S. Customary)

Body Type And Or
Engine Displacement

ALL

Brakes - Service

Description		SINGLE CALIPER DISC FRONT, DUO SERVO DRUM REAR			
Brake type (std., opt., n.a.)	Front (disc or drum)	DISC			
	Rear (disc or drum)	DRUM			
Self-adjusting (std., opt., n.a.)		STANDARD			
Special valving	Type (proportion, delay, metering, other)	INTEGRAL PROPORTIONING, DIAGONAL SPLIT CIRCUIT			
Power brake (std., opt., n.a.)		STANDARD			
Booster type (remote, integral, vac., hyd., etc.)		200 TANDEM DELCO MORAINÉ (VACUUM SUSPENDED)			
Vacuum source (inline, pump, etc.)		NOT AVAILABLE			
Vacuum reservoir (volume in ³)		" "			
Vacuum pump-type (elec. gear driven, belt driven, if other so state)		" "			
Anti-skid device type (std., opt., n.a.) (F R)		NONE			
Effective area [cm ² (in. ²)]*		309.0 (47.90)			
Gross lining area [cm ² (in. ²)]** (F R)		381.0 (59.1)			
Swept area [cm ² (in. ²)]*** (F R)		1624.0 (251.8)			
Rotor	Outerworking diameter	F R	F/247.0mm (9.72)		
	Inner working diameter	F R	F/147.0mm (5.80)		
	Thickness	F R	22.4 (0.88)		
	Material & type (vented solid)	F R	F/CAST IRON VENTED		
Drum	Diameter & width	F R	R/200.0 x 45.0mm (7.87 x 1.77)		
	Type and material	F R	CAST IRON - NON FINNED		
Wheel cylinder bore		F/57.0mm (2.24); R/16.0mm (0.63) EXC. WAGON; 17.5mm (0.69) WAGON			
Master cylinder	Bore stroke	F R	BORE: 22.2mm (0.866); STROKE: 31.8mm (1.25)		
Pedal arc ratio		3.9:1			
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]		NOT AVAILABLE			
Lining clearance		F R	F/R SELF-ADJUSTING		
Brake lining	Front wheel	Bonded or riveted (rivets seg.)		BONDED OUTBOARD; RIVETED INBOARD	
		Rivet size		7.92 x 5.33mm (0.31 x 0.21)	
		Manufacturer		DELCO MORAINÉ	
		Lining code*****		121 EE	
		Material		SEMI-METALLIC	
		****	Primary or out-board	116.7x54.7x10.92mm (4.594x2.157x0.430)	
		Size	Secondary or in-board	125.0x59.0x10.2mm (4.92x2.32x0.4)	
	Shoe thickness (no lining)		INBOARD 4.72mm; OUTBOARD 31.4mm (IB 0.186mm; OB 0.123mm)		
	Rear wheel	Bonded or riveted (rivets seg.)		RIVETED	
		Manufacturer		INLAND	
		Lining Code*****		235 FE	
		Material		SEMI-METALLIC	
		****	Primary or out-board	167.7x43.9x3.8mm (6.60x1.73x0.15)	
		Size	Secondary or in-board	167.7x43.9x4.81mm (6.60x1.73x0.19)	
Shoe thickness (no lining)		2.75mm (.11)			

*Excludes rivet holes, grooves, chamfers, etc.

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

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

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

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

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METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

SUNBIRD & SE	GT MODELS
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Tires And Wheels (Standard)

Tires	Size (load range, ply)		P175/80R13	P215/60R14	
	Type (bias, radial, etc.)		STEEL-BELTED RADIAL		
	inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	240 (35)	207 (30)	
		Rear (kPa (psi))	240 (35)	207 (30)	
	Rev./mile—at 70 km/h (45 mph)		893		
Wheels	Type & material		DISC STEEL	CAST ALUMINUM	
	Rim (size & flange type)		13" x 5" JB	14" x 6" JJ	
	Wheel offset		48 mm	47 mm	
	Attachment	Type (bolt or stud)	STUD		
		Circle diameter	100.0 mm (3.94)		
Number & size		HEX NUTS 5-M12 x 1.5			
Spare	Tire and wheel (same, if other describe)		14" x 4" COMPACT WHEEL P115/70D14		
	Storage position & location (describe)		FLAT, AT REAR-UNDER FLOOR		

Tires And Wheels (Optional)

Size (load range, ply)	P195/70R13 (REQUIRED W/HANDLING PACKAGE Y99)	--
Type (bias, radial, etc.)	STEEL-BELTED RADIAL	
Wheel (type & material)	DISC, STEEL	
Rim (size, flange type and offset)	13" x 5" JJ	
Size (load range, ply)	P215/60 R14 (EXC. WAGON) (REQUIRED W/LA5 TURBO)	
Type (bias, radial, etc.)	STEEL-BELTED RADIAL	
Wheel (type & material)	DISC STEEL	
Rim (size, flange type and offset)	14" x 6" JJ	
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)	ALUMINUM, TURBO TORQUE	--
Rim (size, flange type and offset)	13 1/2" x 5 1/2" JB	
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)	ALUMINUM, HI-TECH (EXC 35)	--
Rim (size, flange type and offset)	14" x 6" JJ (47 mm)	
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	HAND LEVER	
Location of control	BETWEEN FRONT SEATS	
Operates on	REAR SERVICE BRAKES	
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

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METRIC (U.S. Customary)

Body Type And Or
Engine Displacement

SUNBIRD	SE	GT
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Steering

Manual (std., opt., n.a.)		STANDARD (EXCEPT CONVERTIBLE AND S/E)		--	
Power (std., opt., n.a.)		OPTIONAL (STANDARD CONVERTIBLE AND S/E)		STANDARD	
Adjustable steering wheel (tilt, swing, other)	Type and description	TILT			
	(Std., opt., n.a.)	OPTIONAL			
Wheel diameter (W9) SAE J1100	Manual	375.0 mm (14.8 in.)			
	Power	375.0 mm (14.8 in.)			
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	NOT AVAILABLE		
		Curb to curb (l. & r.)	10.5 mm (35.1 ft.)		
	Inside rear	Wall to wall (l. & r.)	NOT AVAILABLE		
		Curb to curb (l. & r.)	" "		
Scrub Radius*		" "			
Manual	Gear	Type	RACK AND PINION		
		Make	SAGINAW STEERING GEAR		
	Ratios	Gear			
		Overall	22:1		
No. wheel turns (stop to stop)		4.04			
Power	Type (coaxial, linkage, etc.)		RACK AND PINION W/INTEGRAL POWER UNIT		
	Make		SAGINAW STEERING GEAR		
	Gear	Type	RACK AND PINION		
		Ratios	Gear	NOT AVAILABLE	
	Overall		16:1 (OPTIONAL 14:1 W/Y99 OR WS6)		
	Pump (drive)		BELT OFF ENGINE CRANKSHAFT PULLEY		
No. wheel turns (stop to stop)		2.88 (2.50 OPTIONAL RATIO)			
Linkage	Type		RACK AND PINION		
	Location (front or rear of wheels, other)		REAR		
	Tie rods (one or two)		TWO TIE RODS		
Steering axis	Inclination at camber (deg.)		13.5°		
	Bearings (type)	Upper	BALL BEARING		
		Lower	BALL JOINT		
		Thrust	NOT AVAILABLE		
Steering spindle & joint type		MACPHERSON STRUT W/LOWER BALL JOINT			
Wheel spindle	Diameter	Inner bearing	NOT AVAILABLE		
		Outer bearing	" "		
	Thread (size)		M20 x 1.5		
	Bearing (type)		INTEGRAL DOUBLE ROW BALL, PERMANENTLY LUBRICATED		

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

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METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

SUNBIRD & SE	GT
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Wheel Alignment

Wheel Position	Service	Parameter	Specification
Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+0.7° TO +2.7°
		Camber (deg.)	+0.2° TO +1.5°
		Toe-in [outside track-mm (in.)]	0.13° TOE-OUT + 0.10° PER WHEEL
	Service reset*	Caster	+0.7° TO 2.7°
		Camber	+0.2° TO 1.5°
		Toe-in	+0.13° TOE-OUT + 0.10° PER WHEEL
	Periodic M.V. inspection	Caster	+0.7° TO 2.7°
		Camber	+0.2° TO 1.5°
		Toe-in	0.13° TOE-OUT + 0.10° PER WHEEL
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-0.25°
		Toe-in [outside track-mm (in.)]	0.125° TOE-IN
	Service reset*	Camber	-0.25°
		Toe-in	0.125° TOE-IN
	Periodic M.V. inspection	Camber	-0.25°
		Toe-in	0.125° TOE-IN

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

Electrical - Instruments and Equipment

Speedometer	Type	ELECTRONIC-CIRCULAR DIAL W/POINTER, MPH HIGHLIGHTED	
	Trip odometer (std., opt., n.a.)	STANDARD	
EGR maintenance indicator		NOT AVAILABLE	
Charge indicator	Type	OPTIONAL GAGES AVAILABLE	GAGE STANDARD
	Warning device	TELLTALE	NOT AVAILABLE
Temperature indicator	Type	GAGE	
	Warning device	NOT AVAILABLE	
Oil pressure indicator	Type	OPTIONAL GAGES AVAILABLE	GAGE STANDARD
	Warning device	TELLTALE	NOT AVAILABLE
Fuel indicator	Type	ELECTRIC GAGE	
	Warning device	NOT AVAILABLE	
Windshield wiper	Type (standard)	ELECTRIC 2-SPEED	
	Type (optional)	CONTROLLED CYCLE WIPER SYSTEM	
	Blade length	430.0 (16.0)	
	Swept area [cm ² (in. ²)]	COUPES 4900.0 (759.7); SEDANS, STATION WAGONS 4937.0 (765.4)	
Windshield washer	Type (standard)	FLUIDIC	
	Type (optional)	NOT AVAILABLE	
	Fluid level indicator	NOT AVAILABLE	
Horn	Type	ELECTRIC VIBRATOR	
	Number used	1 (2 W/OPTIONAL DUAL HORNS)	
Other	TACHOMETER WITH OPTIONAL RALLY INSTRUMENTATION.		TACHOMETER STANDARD
	TURBO BOOST GAGE INCLUDED WITH LAS TURBO ENGINE.		TURBO BOOST GAGE STANDARD

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Car Line SUNBIRD
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METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

1.8L L4 (110 CID) ELECTRONIC FUEL INJECTION RPO LH8	1.8L L4 (110 CID) MPFI / TURBO RPO LA5
---	--

Electrical – Supply System

Battery	Make	DELCO REMY FREEDOM II	
	Model, std., (opt.)	75A-60	
	Voltage	12 V	
	Amps at 0°F cold crank	630	
	Minutes-reserve capacity	90	
	Amp/hrs. - 20 hr. rate	54	
Location		LEFT HAND, FRONT SIDE OF ENGINE COMPARTMENT	
Generator or alternator	Type and rating	(c, d, e, f.)	
	Ratio (alt. crank/rev.)	2.49:1	2.31:1
	Optional (type & rating)	(c, d, e, f.)	
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) W/ESC (LA5)	
	Other (specify)	NOT AVAILABLE	
Coil	Make	DELCO REMY	
	Model	1115308/1115307 REMOTE MOUNTED	
	Current	Engine stopped - A	0.5 MAX
Engine idling - A		5.1	
Spark plug	Make	AC	
	Model	R44CXLS	R42CXLS
	Thread (mm)	14	
	Tightening torque [N·m (lb. ft)]	20-34 (15-25)	
	Gap	0.90 (0.035)	
	Number per cylinder	ONE	
Distributor	Make	DELCO REMY	
	Model	1103609	1103610

Electrical – Suppression

Locations & type	INTERNAL ALTERNATOR CAPACITOR, NON-METALLIC HIGH-TENSION CABLE, 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.
------------------	--

- (c) 56 AMP 12 SI WITH HEATER
- (d) 66 AMP 12 SI WITH HEATED BACKLIGHT

- (e) 78 AMP 12 SI WITH A/C, WITHOUT A/C ON TURBO
- (f) 94 AMP 12 SI HEAVY-DUTY OPTION WITH A/C, STANDARD WITH TURBO AND A/C

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Car Line SUNBIRD
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METRIC (U.S. Customary)

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 STEELS. 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 LACQUER
Hood	Hinge location (front, rear)	REAR
	Type (counterbalance, prop)	PROP ROD
	Release control (internal, external)	INTERNAL
Trunk lid	Type (counterbalance, other)	COUNTERBALANCE - TORQUE ROD
	Internal release control (elec., mech., n.a.)	OPTION - ELECTRIC
Hatch-back lid	Type (counterbalance, other)	COUNTERBALANCE - GAS FILLED STRUTS
	Internal release control (elec., mech., n.a.)	OPTION - ELECTRIC
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	BENCH, MOLDED FOAM PAD
	3rd seat	NOT AVAILABLE
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	RECLINING BUCKET, MOLDED FOAM PAD
	Rear	BENCH, MOLDED FOAM PAD
	3rd seat	NOT AVAILABLE

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METRIC (U.S. Customary)

Car Line SUNBELTD
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Body Type ALL

Restraint System

Active restraint system	Standard/optional	STANDARD
	Type and description	FRONT: LAP/SHOULDER BELT COMBINATION REAR: LAPBELTS
	Location	FRONT: RIGHT/LEFT OUTBOARD REAR: RIGHT/CENTER/LEFT
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)
 BODY - FRAME INTEGRAL WITH BOLT-ON POWER TRAIN CRADLE

Glass	SAE Ref. No.	COUPE-27	WAGON-35	SEDAN-69	H/COUPE-77	CONVERT-67
Windshield glass exposed surface area [cm ² (in. ²)]	S1	7487 (1160.5)	7487 (1160.5)	7487 (1160.5)	7487 (1160.5)	7487 (1160.5)
Side glass exposed surface area [cm ² (in. ²)] - total 2-sides	S2	10910 (1691.0)	16955 (2628.0)	11532 (1787.5)	11478 (1779.1)	10910 (1691.0)
Backlight glass exposed surface area [cm ² (in. ²)]	S3	5154 (798.9)	4892 (758.3)	5691 (882.1)	8685 (1346.2)	3393 (525.9)
Total glass exposed surface area [cm ² (in. ²)]	S4	2355 (3650.4)	29334 (4546.8)	24710 (3830.0)	27650 (4285.7)	21790 (3377.4)
Windshield glass (type)		CURVED-TEMPERED AND LAMINATED PLATE				
Side glass (type)		CURVED-TEMPERED PLATE				
Backlight glass (type)		CURVED-TEMPERED PLATE				

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Body Type

ALL

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

Air conditioning (manual, auto. temp control)	MANUAL CONTROL - OPTIONAL	
Clock (digital, analog)	DIGITAL INCLUDED W/SOME RADIOS - OPTIONAL	
Compass / thermometer	NOT AVAILABLE	
Console (floor, overhead)	FLOOR	
Defroster, elec. backlight	OPTIONAL - NOT AVAILABLE CONVERTIBLE	
Electronic	Diagnostic warning (integrated, individual)	NOT AVAILABLE
	Instrument cluster (list instruments)	NOT AVAILABLE
	Keyless entry	NOT AVAILABLE
	Trip/finder (avg. spd., fuel)	NOT AVAILABLE
	Voice alert (list items)	NOT AVAILABLE
	Other	NOT AVAILABLE
Fuel door lock (remote, key, electric)	KEY - OPTIONAL	
Lamps	Auto head on / off delay, dimming	NOT AVAILABLE
	Cornering	NOT AVAILABLE
	Courtesy (map, reading)	IP COURTESY W/LAMP GROUP - OPTIONAL
	Door lock, ignition	NOT AVAILABLE
	Engine compartment	NOT AVAILABLE
	Fog	STANDARD SE MODELS, OPTIONAL SUNBIRD & GT, GT DELUXE DESIGN
	Glove compartment	OPTIONAL W/LAMP GROUP
	Trunk	OPTIONAL W/LAMP GROUP
Mirrors	Day/night (auto. man.)	MANUAL STANDARD
	L.H. (remote, power, heated)	REMOTE & POWER - OPTIONAL
	R. H. (convex, remote, power, heated)	POWER OPTIONAL
	Visor vanity (RH / LH, illuminated)	RH - OPTIONAL
Parking brake-auto release (warning light)	STANDARD (MANUAL RELEASE) LOWER AREA OF SPEEDOMETER	
Power equipment	Door locks / deck lid - specify	DOOR/DECK LID - OPTIONAL
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	OPTIONAL - 4 - WAY MANUAL DRIVER SEAT OPTIONAL - 6 - WAY POWER DRIVER SEAT
	Side windows	OPTIONAL
	Vent windows	NOT AVAILABLE
	Rear window	NOT AVAILABLE
Radio systems	Antenna (location, whip, w/shield, power)	STANDARD ALL MODELS RIGHT FRONT FENDER, WHIP
	AM, FM, stereo, tape, CB	STANDARD AM; OPTIONAL AM/FM STEREO, CASSETTE, EQUALIZER
	Speaker (number, location) Premium sound	NOT AVAILABLE
Roof open air/fixd (flip-up, sliding, "T")	FLIP-UP - OPTIONAL	
Speed control device	OPTIONAL W/RESUME & ACCELERATE FEATURES	
Speed warning device (light, buzzer, etc.)	NOT AVAILABLE	
Tachometer (rpm)	OPTIONAL SUNBIRD AND SE, STANDARD GT	
Theft protection-type	LOCK MOUNTED ON STEERING WHEEL - STANDARD	

* SPEAKERS - STANDARD W/STEREO RADIO

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Passenger Car

Car Line SUNBIRD
 Model Year 1986 Issued 10-85 Revised (e) _____

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.	COUPE 27	WAGON 35	SEDAN 69	COUPE 77	CONVERT 67
Width						
Tread (front)	W101	1412 (55.6)	1412 (55.6)	1412 (55.6)	1412 (55.6)	1412 (55.6)
Tread (rear)	W102	1402 (55.2)	1402 (55.2)	1402 (55.2)	1402 (55.2)	1402 (55.2)
Vehicle width	W103	1677 (66.0)	1685 (66.3)	1685 (66.3)	1692 (66.6)	1677 (66.0)
Body width at Sg RP (front)	W117	1652 (65.0)	1652 (65.0)	1652 (65.0)	1652 (65.0)	1652 (65.0)
Vehicle width (front doors open)	W120	3684 (145.0)	3218 (126.7)	3218 (126.7)	3684 (145.0)	3684 (145.0)
Vehicle width (rear doors open)	W121	---	2832 (111.5)	2832 (111.5)	---	---
Front fender overall width	W106	1647 (64.8)				
Rear fender overall width	W107	1677 (66.0)	1685 (66.3)	1685 (66.3)	1677 (66.0)	1677 (66.0)
Tumble-home (deg)	W122	21.5	22.0	21.5	21.5	21.5

Length

Wheelbase	L101	2571 (101.2)	2571 (101.2)	2571 (101.2)	2571 (101.2)	2571 (101.2)
Vehicle length	L103	4412 (173.7)	4467 (175.9)	4463 (175.7)	4412 (173.7)	4412 (173.7)
Overhang (front)	L104	938 (36.9)	938 (36.9)	938 (36.9)	938 (36.9)	938 (36.9)
Overhang (rear)	L105	903 (35.5)	958 (37.7)	954 (37.6)	903 (35.5)	903 (35.5)
Upper structure length	L123	2335 (91.9)	2924 (115.1)	2363 (93.0)	2800 (110.2)	2340 (92.1)
Rear wheel C.L. 'X' coordinate	L127	2354 (92.7)	2354 (92.7)	2354 (92.7)	2354 (92.7)	2354 (92.7)
Cowl point 'X' coordinate	L125	247 (9.7)	245 (9.6)	245 (9.6)	247 (9.7)	247 (9.7)
Front end length at centerline	L126	1402 (55.2)	1401 (55.2)	1401 (55.2)	1402 (55.2)	1402 (55.2)
Rear end length at centerline	L129	570 (22.4)	34 (1.3)	595 (23.4)	117 (4.6)	590 (23.2)

Height **

Passenger distribution (front/rear)	PD: 2/3	2 - 0	2 - 0	2 - 0	2 - 0	2 - 0
Trunk cargo load						
Vehicle height	H101	1317 (51.9)	1374 (54.1)	1367 (53.8)	1317 (51.9)	1317 (51.9)
Cowl point to ground	H114	942 (37.1)	946 (37.2)	943 (37.1)	942 (37.1)	942 (37.1)
Deck point to ground	H138	943 (37.1)	948 (37.3)	948 (37.3)	943 (37.1)	943 (37.1)
Rocker panel-front to ground	H112	216 (8.5)	220 (8.7)	216 (8.5)	216 (8.5)	216 (8.5)
Bottom of door closed-front to grd	H133	288 (11.3)	294 (11.6)	287 (11.3)	288 (11.3)	288 (11.3)
Rocker panel-rear to ground	H111	209 (8.2)	211 (8.3)	209 (8.2)	209 (8.2)	209 (8.2)
Bottom of door closed-rear to grd	H135	---	299 (11.8)	289 (11.4)	---	---
Windshield slope angle	H122	58.7	55.0	55.0	58.7	58.8
Backlight slope angle	H121	51.0	35.5	49.0	69.0	54.5

Ground Clearance **

Front bumper to ground	H102	237 (9.3)	236 (9.3)	237 (9.3)	237 (9.3)	237 (9.3)
Rear bumper to ground	H104	339 (13.3)	352 (13.9)	339 (13.3)	339 (13.3)	339 (13.3)
Bumper to ground (front at curb mass (wt.))	H103	260 (10.2)	261 (10.3)	260 (10.2)	260 (10.2)	260 (10.2)
Bumper to ground (rear at curb mass (wt.))	H105	367 (14.4)	385 (15.2)	367 (14.4)	367 (14.4)	367 (14.4)
Angle of approach (degrees)	H106	13.4°	12.9°	13.4°	13.4°	13.4°
Angle of departure (degrees)	H107	17.4°	19.8°	17.4°	17.4°	17.4°
Ramp breakover angle (degrees)	H147	13.8°	15.1°	13.8°	13.8°	13.8°
Axle differential to ground (front/rear)	H153	NOT APPLICABLE				
Min. running ground clearance	H156	150 (5.9)	150 (5.9)	150 (5.9)	150 (5.9)	150 (5.9)
Location of min. run. grd. clear		FRONT SUSPENSION CRADLE				

**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 Or At Least 33% Of The Car Line. Plus Two Occupants

MVMA Specifications Form

Passenger Car

Car Line SUNBIRD
 Model Year 1986 Issued 10-85 Revised (●) _____

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

SAE Ref. No.	COUPE	WAGON	SEDAN	COUPE	CONVERT
Body Type	27	35	69	77	67

Front Compartment

Sg RP front, "X" coordinate	L31	1113 (43.8)	1113 (43.8)	1113 (43.8)	1113 (43.8)	1113 (43.8)
Effective head room	H61	958 (37.7)	973 (38.3)	980 (38.6)	955 (37.6)	978 (38.5)
Max. eff. leg room (accelerator)	L34	1071 (42.2)	1072 (42.2)	1072 (42.2)	1071 (42.2)	1071 (42.2)
SgRP to heel point	H30	233 (9.2)	256 (10.1)	257 (10.1)	233 (9.2)	233 (9.2)
SgRP to heel point	L53	872 (34.3)	866 (34.1)	866 (34.1)	872 (34.3)	872 (34.3)
Back angle	L40	25.0°	25.0°	25.0°	25.0°	25.0°
Hip angle	L42	96.0	98.5	98.0	96.0	96.0
Knee angle	L44	126.5	127.5	127.0	126.5	126.5
Foot angle	L46	87.0	87.0	87.0	87.0	87.0
Design H-point front travel	L17	192 (7.6)	192 (7.6)	192 (7.6)	192 (7.6)	192 (7.6)
Normal driving & riding seat track trvl.	L23	171 (6.7)	170 (6.7)	171 (6.7)	171 (6.7)	171 (6.7)
Shoulder room	W3	1364 (53.7)	1363 (53.7)	1363 (53.7)	1364 (53.7)	1364 (53.7)
Hip room	W5	1248 (49.1)	1241 (48.9)	1240 (48.8)	1248 (49.1)	1230 (48.4)
Upper body opening to ground	H50	1211 (47.7)	1246 (49.1)	1240 (48.8)	1211 (47.7)	1211 (47.7)
Steering wheel maximum diameter	W9	370 (14.6)	370 (14.6)	370 (14.6)	370 (14.6)	375 (14.8)
Steering wheel angle	H18	20.0°	20.0°	20.0°	20.0°	20.0°
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	98 (3.9)	88 (3.5)	86 (3.4)	98 (3.9)	98 (3.9)
Steering wheel torso clearance	L7	390 (15.4)	378 (14.9)	380 (15.0)	390 (15.4)	390 (15.4)
Headlining to roof panel (front)	H37	10 (0.4)	13 (0.5)	10 (0.4)	10 (0.4)	10 (0.4)
Undepressed floor covering thickness	H67	16 (0.6)	16 (0.6)	16 (0.6)	16 (0.6)	17 (0.7)

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

Rear Compartment

Sg RP Point couple distance	L50	720 (28.3)	741 (29.2)	758 (29.8)	715 (28.1)	720 (28.3)
Effective head room	H63	931 (36.7)	986 (38.8)	964 (38.0)	925 (36.4)	949 (37.4)
Min. effective leg room	L51	807 (31.8)	857 (33.7)	871 (34.3)	807 (31.8)	791 (31.1)
Sg RP (second to heel)	H31	259 (10.2)	259 (10.2)	272 (10.7)	252 (9.9)	259 (10.2)
Knee clearance	L48	-21 (-0.8)	2 (0.1)	9 (0.4)	-24 (-0.9)	-16 (-0.6)
Compartment room	L3	635 (25.0)	660 (26.0)	657 (25.9)	652 (25.7)	636 (25.0)
Shoulder room	W4	1335 (52.6)	1364 (53.7)	1364 (53.7)	1332 (52.0)	964 (38.0)
Hip room	W6	1265 (49.8)	1244 (49.0)	1241 (48.9)	1234 (48.6)	964 (38.0)
Upper body opening to ground	H51	---	1251 (49.3)	1243 (48.9)	---	---
Back angle	L41	25.0°	25.0°	26.0°	25.0°	19.0°
Hip angle	L43	78.0	81.0	83.0	71.0	78.0
Knee angle	L45	78.5	86.0	85.0	81.0	77.5
Foot angle	L47	115.5	121.0	118.0	116.5	114.0
Headlining to roof panel (second)	H38	9 (0.4)	13 (0.5)	8 (0.3)	10 (0.4)	9 (0.4)
Depressed floor covering thickness	H73	18 (0.7)	20 (0.8)	18 (0.7)	18 (0.7)	19 (0.7)

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	356 (12.6)	---	381 (13.5)	---	294 (10.4)
Liftover height	H195	834 (32.8)	549 (21.6)	832 (32.8)	834 (32.8)	834 (32.8)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)	COMPACT				
Interior volume index (cu. ft.)	100.3	125.0	100.3	100.3	86.3
Trunk/cargo index (cu. ft.)	12.6	34.1	13.5	14.8	10.4

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

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

Car Line SUNBIRD
 Model Year 1986 Issued 10-85 Revised (●) _____

See Key Sheets for definitions

Body Type	SAE Ref. No.	WAGON 35	COUPE 77
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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	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	1709 (67.3)
Cargo length (closed second)	L203	980 (38.6)
Cargo length at belt (front)	L204	1581 (62.2)
Cargo length at belt (second)	L205	837 (33.0)
Cargo width (wheelhouse)	W201	944 (37.2)
Rear opening width at floor	W203	1226 (48.3)
Opening width at belt	W204	1206 (47.5)
Max. rear opening width above belt	W205	970 (38.2)
Cargo height	H201	846 (33.3)
Rear opening height	H202	764 (30.1)
Tailgate to ground height	H250	549 (21.6)
Front seat back to load floor height	H197	602 (23.7)
Cargo volume index [m ³ (ft. ³)]	V2	1824 (64.4)
Hidden cargo volume [m ³ (ft. ³)]	V4	NOT AVAILABLE
Cargo volume index-rear of 2-seat	V10	966 (34.1)

Hatchback – Cargo Space

Cargo length at front seatback height	L208	1426 (56.1)
Cargo length at floor (front)	L209	1654 (65.1)
Cargo length at second seatback height	L210	745 (29.3)
Cargo length at floor (second)	L211	906 (35.7)
Front seatback to load floor height	H197	602 (23.7)
Second seatback to load floor height	H198	384 (15.1)
Cargo volume index [m ³ (ft. ³)]	V3	1226 (43.3)
Hidden cargo volume [m ³ (ft. ³)]	V4	--
Cargo volume index-rear of 2-seat	V11	419 (14.8)

Aerodynamics*

	COUPE-27	WAGON-35	SEDAN-69	COUPE-77	CONVERT-67
Wheel lip to ground, front	642 (25.3)				
Wheel lip to ground, rear	658 (25.9)				
Frontal area [m ² (ft. ²)]	1.86 (0.073)	1.93 (0.076)	1.92 (0.076)	1.86 (0.073)	1.86 (0.073)
Drag coefficient (Cd)	NOT AVAILABLE				

* EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line SUNBIRD
 Model Year 1986 Issued 10-85 Revised (*) _____

Body Type	COUPE 27	WAGON 35	SEDAN 69	COUPE 77	CONVERT. 67
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Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location					
Front	(1)	X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - FRONT MEASURED HORIZONTALLY FROM THE BASE GRID LINE TO THE FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.				
		Y - FIDUCIAL MARK TO 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.				
Rear	(2)	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.				
	(1)	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).				
Fiducial Mark Number	(1)	Y - FIDUCIAL MARK TO CENTER LINE OF CAR - REAR, WIDTH MEASUREMENT MADE FROM CENTER LINE OF CAR TO FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL).				
	(2)	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).				
Front	W21	504 (19.8)	504 (19.8)	504 (19.8)	504 (19.8)	505 (19.9)
	L54	746 (29.4) *	746 (29.4) *	746 (29.4) *	746 (29.4) *	746 (29.4) *
	H81	-54 (-2.1) #	-54 (-2.1) #	-54 (-2.1) #	-54 (-2.1) #	-36 (-1.4) #
	H161	296 (11.7)	300 (11.8)	296 (11.7)	296 (11.7)	296 (11.7)
	** H163	268 (10.6)	273 (10.7)	268 (10.6)	268 (10.6)	268 (10.6)
Rear	W22	440 (17.3)	440 (17.3)	440 (17.3)	440.0 (17.3)	440.0 (17.3)
	L55	2900 (114.2) *	2951 (116.2) *	2951 (116.2) *	2900.0 (114.2) *	2900.0 (114.2) *
	H82	62 (2.4) #	62 (2.4) #	62 (2.4) #	62.0 (2.4) #	62.0 (2.4) #
	H162	422 (16.6)	431 (17.0)	422 (16.6)	422.0 (16.6)	422.0 (16.6)
	** H164	388 (15.3)	401 (15.8)	388.0 (15.3)	388.0 (15.3)	388.0 (15.3)
* VERTICAL BASE GRID 2000mm LINE # HORIZONTAL BASE GRID 300mm 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 SUNBIRD
 Model Year 1986 Issued 10-85 Revised (●) _____

Body Type

COUPE 27	WAGON 35	SEDAN 69	COUPE 77	CONVERT 67
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Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	669 (26.3)	670 (26.4)	669 (26.3)	669 (26.3)	669 (26.3)
		Lowest					
	Taillamp (SAE - H128)	Highest**	724 (28.5)	590 (23.2)	723 (28.5)	724 (28.5)	724 (28.5)
		Lowest					
	Sidemarker	Front	531 (20.9)	532 (20.9)	531 (20.9)	531 (20.9)	531 (20.9)
		Rear	729 (28.7)	759 (29.9)	719 (28.3)	729 (28.7)	729 (28.7)
Distance from C L of car to center of bulb	Headlamp	Inside	413 (16.3)				
		Outside**	593 (23.4)				
	Taillamp	Inside	509 (20.0)	714 (28.1)	383 (15.1)	509 (20.0)	509 (20.0)
		Outside**	644 (25.4)		647 (25.5)	644 (25.4)	644 (25.4)
	Directional	Front	581 (22.9)				
		Rear	644 (25.4)	714 (28.1)	647 (25.5)	644 (25.4)	644 (25.4)
Halogen headlamp (std., opt., n.a.)	%	Lo beam	NOT AVAILABLE				
		Hi beam	OPTIONAL				
		Replaceable bulb	ENTIRE SEALED BEAM UNIT REPLACED				
		Shape	RECTANGULAR				
Headlamp other than above	#	Lo beam	STANDARD				
		Hi beam	STANDARD				
		Replaceable	ENTIRE SEALED BEAM UNIT REPLACED				
		Shape	RECTANGULAR				
		Type	HALOGEN				

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

% - TT5 OPTIONAL - SUNBIRD AND SE
 # - TT4 STANDARD - GT

MVMA Specifications Form Passenger Car

Car Line SUNBIRD

Model Year 1986

Issued 10-85

Revised (e) _____

METRIC (U.S. Customary)

Optional Equipment Differential Mass (weight)*

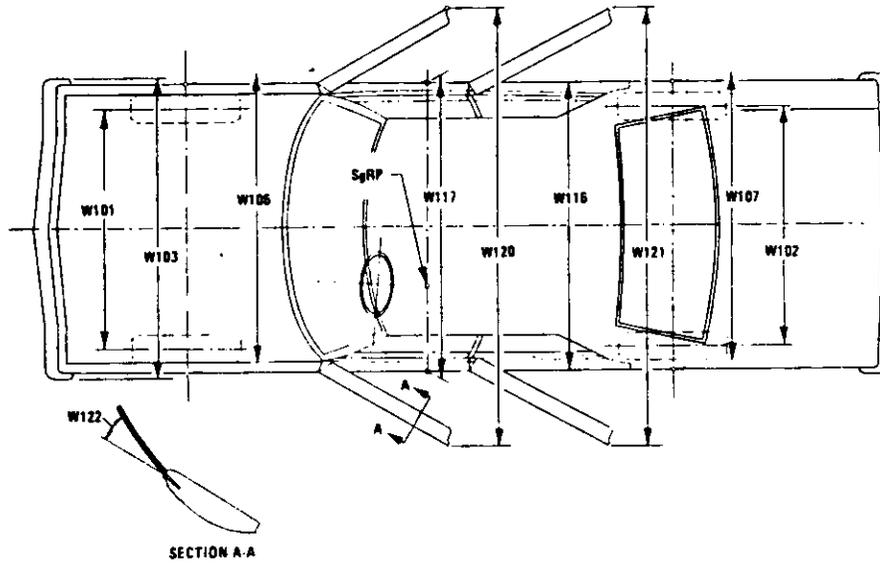
Equipment		MASS. kg. (weight, lb.)			Remarks
		Front	Rear	Total	
POWER SEAT: 6-WAY, DRIVER	AC3	1.92 (4.23)	2.08 (4.59)	4.00 (8.62)	
SUNROOF REMOVABLE GLASS	AD3	3.38 (7.45)	3.82 (8.42)	7.20 (15.87)	27, 69 MODELS
POWER DOOR LOCKS: 2-DR	AU3	0.60 (1.32)	1.00 (2.20)	1.60 (3.52)	
POWER DOOR LOCKS: 4-DR	AU3	0.88 (1.94)	1.62 (3.57)	2.50 (5.51)	
POWER WINDOWS: 2-DR	A31	1.62 (3.57)	1.18 (2.60)	2.80 (6.17)	STANDARD - CONVERTIBLE
POWER WINDOWS: 4-DR	A31	2.96 (6.53)	2.14 (4.72)	5.10 (11.24)	
ADJ CUSTOM BUCKET	AQ9	4.17 (9.19)	4.53 (9.99)	8.70 (19.18)	NOT AVAILABLE - STATION WAGONS
REAR WINDOW: WIPER/WASHER	C25	-0.82 (-1.81)	4.62 (10.19)	3.80 (8.38)	2JB35
REAR WINDOW: WIPER/WASHER	C25	-0.76 (-1.68)	4.26 (9.39)	3.50 (7.72)	HATCHBACKS
LOUVERED SUNSHIELD	DE1	-0.48 (-1.06)	5.32 (11.73)	4.85 (10.69)	HATCHBACKS
CONSOLE ARMREST	D06	1.64 (3.62)	1.36 (3.00)	3.00 (6.62)	
REAR COMPT SECURITY COVER	D42	0.00 (0.00)	2.30 (5.07)	2.30 (5.07)	HATCHBACKS
DECK LID SPOILER	D80	-1.04 (-2.29)	4.34 (9.57)	3.30 (7.28)	
ELECTRONIC SPEED CONTROL W/RESUME SPEED	K34	1.20 (2.65)	0.0 (0.0)	1.20 (2.65)	
1.8L PFI TURBO	LA5	18.52 (40.83)	3.55 (7.83)	22.07 (48.66)	STANDARD - GT
3-SPD AUTO TRANS (LH8)	MD9	26.16 (57.67)	-2.34 (-5.16)	23.82 (52.51)	
3-SPD AUTO TRANS (LA5)	MD9	23.38 (51.54)	-2.08 (-4.59)	21.30 (46.96)	
POWER STEERING	N40	7.32 (16.14)	0.18 (0.40)	7.51 (16.56)	STANDARD - SE CONVERTIBLE & GT
BATTERY, H.D. (LH8)	UA1	2.8 (6.2)	-0.4 (-0.9)	2.4 (5.3)	
LUGGAGE CARRIER-ROOF	V55	2.24 (4.94)	2.26 (4.98)	4.50 (9.92)	2JB35
LUGGAGE RACK-REAR DECK LID	V58	-0.48 (-1.06)	2.86 (6.31)	2.39 (5.27)	2JB69, 2JD27

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

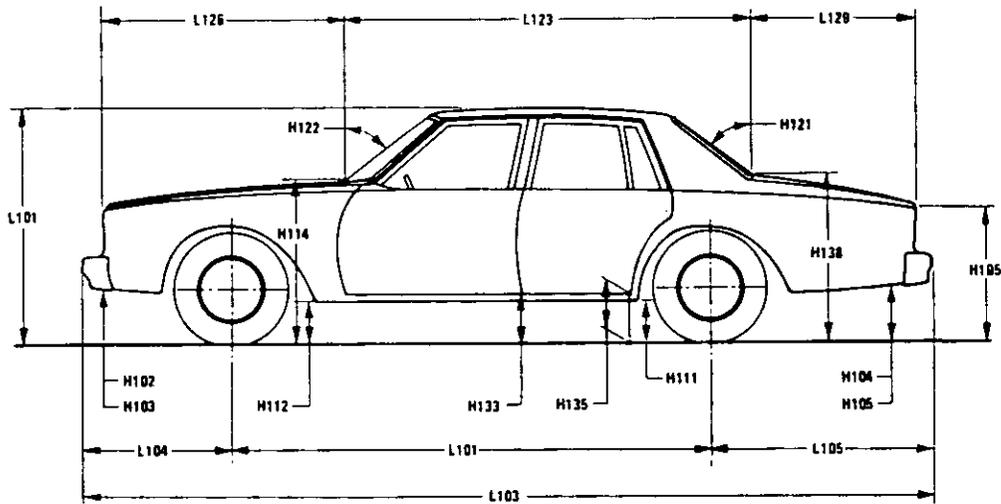
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

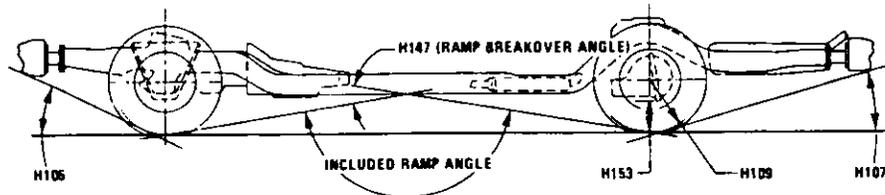
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

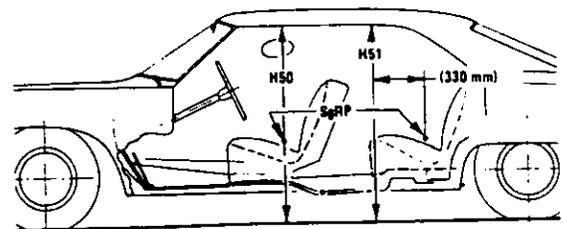
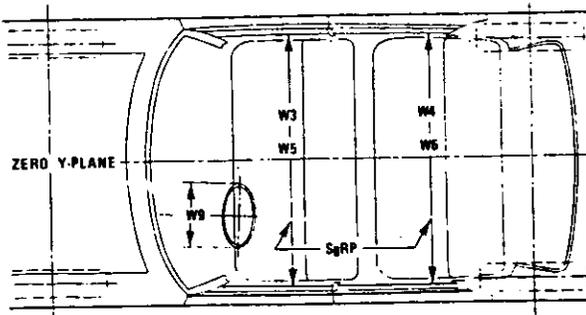
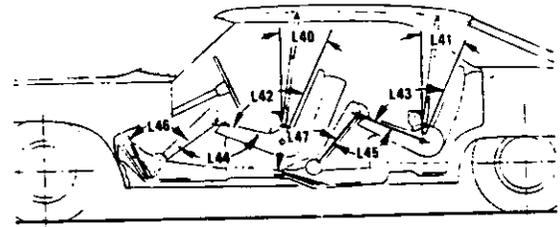
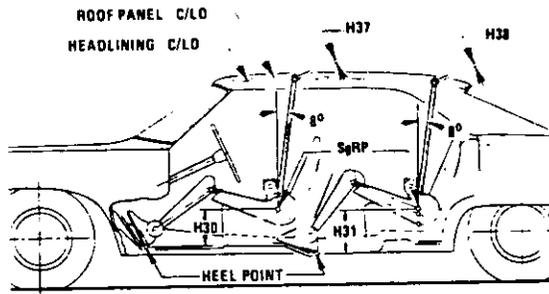
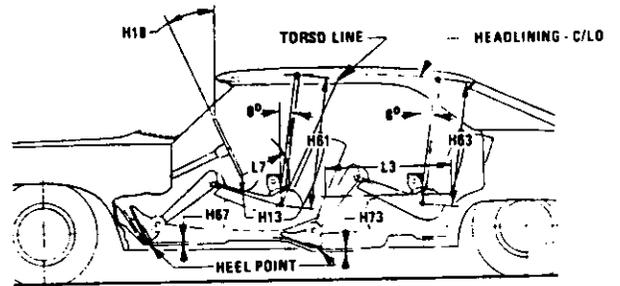
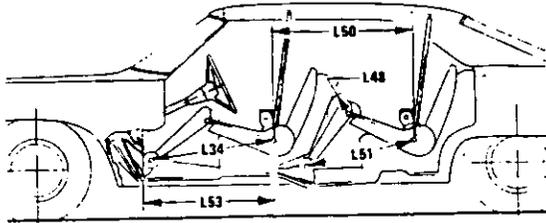


MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

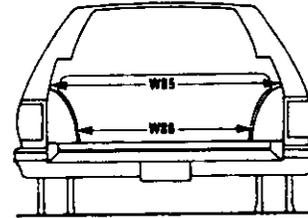
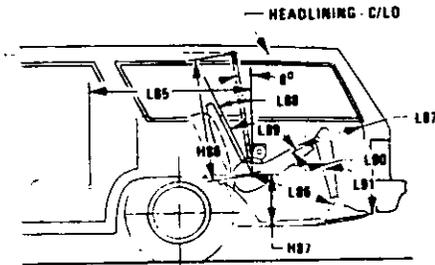
Interior Car And Body Dimensions – Key Sheet



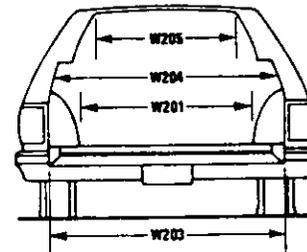
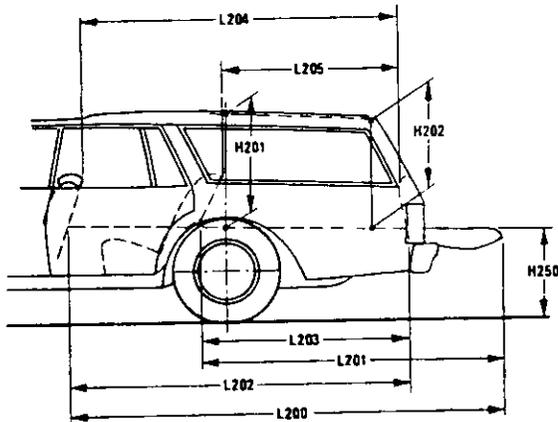
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

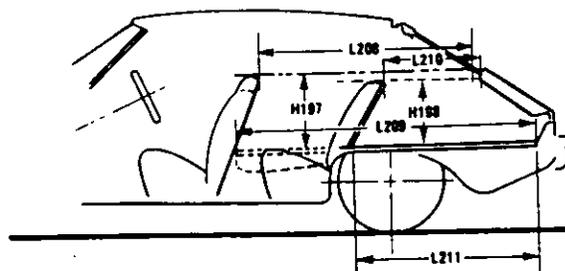
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

Dimensions Definitions

Seating Reference Point

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

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

Width Dimensions

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

Length Dimensions

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

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

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

Height Dimensions

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

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND–CURB MASS (WT.). Measured in the same manner as H102.

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METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

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

Glass Areas

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

Fiducial Mark Dimensions

Fiducial Mark – Number 1

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

Fiducial Mark – Number 2

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

Front Compartment Dimensions

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

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

Rear Compartment Dimensions

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

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Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

- L41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

Luggage Compartment Dimensions

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

Interior Volumes (EPA Classification)

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

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

Station Wagon – Third Seat Dimensions

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

Station Wagon – Cargo Space Dimensions

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

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Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

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

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5 TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V8 HIDDEN LUGGAGE CAPACITY-REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.
- V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

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

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

Hatchback – Cargo Space Dimensions

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

- L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209 CARGO LENGTH AT FLOOR-FRONT-HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT-HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- L211 CARGO LENGTH AT FLOOR-SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seat back to the undepressed floor covering.
- V3 HATCHBACK.
Measured in inches:

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

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

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

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

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