MOTOR VEHICLE

Specifications

METRIC (U.S. Customary)

Passenger Car

1985

Manufacturer	Car Line	
PONTIAC MOTOR DIVISION GENERAL MOTORS CORPORATION	SUNBIRD	
Mailing Address ONE PONTIAC PLAZA PONTIAC, MICHIGAN 48053	Issued 9/1/84	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.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Table of Contents

1	Car Models
2	Power Teams
3-6	Engine
4	Lubrication System
4	Diesel Information
5	Cooling System
6	Fuel System
7	Vehicle Emission Control
7	Exhaust System
8-10	Transmission, Axles and Shafts
11	Suspension-Front and Rear
12-13	Brakes
13	Tires and Wheels
14-15	Steering
15-16	Electrical
17	Body – Miscellaneous Information
17	Glass
17	Frame
18	Restraint System
19	Convenience Equipment
20-22	Car and Body Dimensions
23	Vehicle Fiducial Marks
24	Lamps and Headlamps
25	Vehicle Mass (Weight)
26	Optional Equipment Differential Mass (Weight)
27-31	Car and Body Dimension Key Sheets
32	Index

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 and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Car Models

Model Description 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)
FRONT WHEEL DRIVE				
SUNBIRD				
2-DOOR NOTCHBACK COUPE	11/08/84	2JB27	5 (2/3)	60 (132.3)
4-DOOR STATION WAGON	11/08/84	2JB35	5 (2/3)	40 (88.2)
4-DOOR NOTCHBACK SEDAN	11/08/84	2JB69	5 (2/3)	60 (132.3)
3-DOOR HATCHBACK COUPE	11/08/84	2JB77	5 (2/3)	60 (132.3)
SUNBIRD LE				
2-DOOR NOTCHBACK COUPE	11/08/84	2JC27	5 (2/3)	60 (132.3)
4-DOOR STATION WAGON	11/08/84	2JC35	5 (2/3)	40 (88.2)
4-DOOR NOTCHBACK SEDAN	11/08/84	2JC69	5 (2/3)	60 (132.3)
2-DOOR CONVERTIBLE	11/08/84	2JC67	4 (2/2)	60 (132.3)
SUNBIRD S/E				
2-DOOR NOTCHBACK COUPE	11/08/84	2JD27	5 (2/3)	60 (132.3)
4-DOOR NOTCHBACK SEDAN	11/08/84	2JD69	5 (2/3)	60 (132.3)
3-DOOR HATCHBACK COUPE	11/08/84	2JD77	5 (2/3)	60 (132.3)

MVMA Specifications Form
Passenger Car

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

METRIC (U.S. Customary)

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.)				
STANDARD									
SUNBIRD & SUNBIRD LE	1.8L (110) L4 LH8	EFI	8.8:1	62@ 5200 (84@ 5200)	133@ 2800 (98@ 2800)	S	5M	MK7	3.45
							3A-125C (OPTIONAL)	MD9	3.43
SUNBIRD COUPE (FUEL ECONOMY LEADER) *							5M	MY7	3.19
STANDARD									
SUNBIRD S/E	1.8L (110) L4 TURBO LA5	MPFI	8.0:1	110@ 5600 (150@ 5600)	205@ 2800 (150@ 2800)	S	4M	M17	4.10
							3A-125C (OPTIONAL)	MD9	3.33
OPTIONAL									
ALL EXCLUDING WAGONS							3A-125C (OPTIONAL)	MD9	3.33

* AIR CONDITIONING AND POWER STEERING NOT AVAILABLE.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Engine Description/Carb. Engine Code	1.8L L4 (110 CID) ELECTRONIC FUEL INJECTION RPO LH8	1.8L L4 (110 CID) MPFI / TURBO RPO LA5

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	
No. of cylinders		4	4
Bore		84.8 (3.34)	
Stroke		79.5 (3.13)	
Bore spacing (c / l to c / l)		93.0 (3.67)	
Cylinder block material		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		ALUMINUM	
Cylinder head volume (cm^3)		33.36 (2.04 $in.^3$)	
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	
Recommended fuel (leaded, unleaded, diesel)		UNLEADED	
Fuel antiknock index $\frac{(R+M)}{2}$		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: OIL AND COOLANT.

NOMINAL COMBUSTION CHAMBER VOLUME.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

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Engine – Valve System

Hydraulic lifters (std., opt., NA)		STANDARD
Valves	Number intake / exhaust	4/4
	Head O.D. intake / exhaust	

Engine – Connecting Rods

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

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	

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/care, 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 T2
Super charger - manufacturer	NOT APPLICABLE	
Charge cooler	NOT APPLICABLE	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

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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		
	Number of pumps	ONE	
	Drive (V-belt, other)	COG-BELT	
	Bearing type		
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.)]		
Water jackets full length of cyl. (yes, no)		YES	
Water all around cylinder (yes, no)		YES	
Radiator core	Describe (type, material, no. of rows)	CROSS FLOW	
	Std., A/C, HD	STANDARD	A/C
	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
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.)		
	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	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

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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		STEEL
Filler pipe	Location & material	RIGHT REAR QUARTER PANEL, STEEL
	Connection to tank	HOSE
Fuel line (material)		STEEL (GM 124 - M)
Fuel hose (material)		GM 6163 - M ELASTOMER 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	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued _____ Revised (•) _____

Engine Description/Carb. Engine Code	1.8L L4 (110 CID) ELECTRONIC F.I. RPO LH8	1.8L L4 (110 CID) MULTI-PORT F.I./TURBO RPO LA5

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
		Exhaust source	MANIFOLD
		Point of exhaust injection (spacer, carburetor, manifold, other)	INTAKE MANIFOLD
	Catalytic Converter	Type	SINGLE BED, OXDIZING/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	CANISTER
		Carburetor	
	Vapor storage provision		CANISTER
Electronic system	Closed loop (yes/no)		YES
	Open loop (yes/no)		NO

Engine – Exhaust System

Type (single, single with cross-over, dual, other)			SINGLE W/DUAL OUTLET PIPES
Muffler no. & type (reverse flow, straight thru, separate resonator)			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		409 STAINLESS STEEL GM 6125 - M
Intermediate pipe	o.d. & wall thickness		44.5x1.09 (1.75x.043) 50.8 (2.0)
	Material		1009 ALUMINUM COATED
Tail pipe	o.d. & wall thickness		50.8x1.09 (2.0x.043)
	Material		1009 ALUMINUM COATED

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

Engine Description/Carb. Engine Code	1.8L L4 (110 CID) ELECTRONIC FUEL INJECTION RPO LH8	1.8L L4 (110 CID) MULTI-PORT FUEL INJECTION TURBO RPO LA5

Transmissions/Transaxle

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

Manual Transmission/Transaxle

				OPTIONAL F/E 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		TEXACO 5W30		
	SAE viscosity number	Summer	---		
		Winter	---		
		Extreme cold	---		

Clutch (Manual Transmission)

Make, type, engagement (describe)			
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		
	Rivet size		
	Outside & inside dia.		
	Total eff. area [cm^2($in.^2$)]	176.79 (27.4)	173.73 (28.46)
	Thickness	8.6 ± 0.3 mm (0.34 ± 0.01 in.)	6.6 - 7.11 mm (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.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Engine Description/Carb. Engine Code	1.8L L4 (110 CID) ELECTRONIC FUEL INJECTION RPO LH8	1.8L L4 (110 CID) MULTI-PORT FUEL INJECTION/TURBO RPO LA5

Automatic Transmission/Transaxle

Trade name		3-SPEED AUTOMATIC	TURBO HYDRAMATIC
Type and special features (describe)		3-SPEED - 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		
	SAE viscosity number - Winter		
	SAE viscosity number - Extreme cold		

Axle or Transaxle Ratio and Tool 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 AVAILALBE	NOT AVAILABLE
Ring gear o.d.			
Transaxle	Transfer gear ratio	1.00	1.00
	Final drive ratio	3.06	3.33

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

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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 (a)	
Outer diam. x length* x wall thick-ness	Manual transmission		Left	23.8 x 320.0 mm(0.94 x 12.60 in.)	27.2 x 313.0 mm(1.07 x 12.32 in.)
			Right	23.8 x 663.0 mm(0.94 x 26.10 in.)	27.2 x 665.0 mm(1.07 x 26.18 in.)
	Automatic transmission		Left	23.8 x 311.0 mm(0.94 x 12.24 in.)	
			Right	23.8 x 364.3 mm(0.94 x 14.34 in.)	
	Optional transmission		Left	---	
			Right	---	
Slip yoke	Type			NONE	
	Number of teeth			NONE	
	Spline o.d.			NONE	
Universal joints	Make and mfg. no.		Inner	SAGINAW	
			Outer	SAGINAW	
	Number used			TWO ON EACH DRIVE SHAFT	
	Type, size, plunge		Inner	TRI-POT, 61 mm PLUNGE	63 mm
			Outer	RZEPPA, FIXED	
	Attach (u-bolt, clamp, etc.)			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.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Body Type And/Or Engine Displacement	ALL

Suspension – General

Car leveling	Std./opt./n.a.	NONE
	Type (air, hyd., etc.)	
	Manual/auto. controlled	
Provision for brake dip control		FRONT SUSPENSION GEOMETRY
Provision for accl. squat control		REAR SUSPENSION GEOMETRY
Provisions for car jacking		BODY PICKUP AT ROCKER PANELS
Shock absorber (front & rear)	Type	FRONT: MacPHERSON STRUT; REAR: DOUBLE-ACTING, HYDRAULIC
	Make	DELCO
	Piston diameter	
	Rod diameter	

Suspension – Front

Type and description		MacPHERSON STRUT DESIGN
Drive and torque taken through		FRONT WHEEL SUSPENSION & ENGINE MOUNTING
Travel	Full jounce	92.0 mm (3.62) FROM DESIGN
	Full rebound	86.0 mm (3.39) FROM DESIGN
Spring	Type (coil, leaf, other) & material	COIL, STEEL
	Insulators (type & material)	
	Size (coil design height & i.d., bar length x dia.)	406.6x139.0x2932x12.9 mm (160x5.47x115.4x.5) BASE SPRING *
	Spring rate [N/mm (lb./in.)]	16.0 (91.0)
	Rate at wheel [N/mm (lb./in.)]	15.3 (87.4)
Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	STEEL - 22.0 mm (0.87)

Suspension – Rear

Type and description			COMPOUND CRANK TWIST ANGLE
Drive and torque taken through			NOT AVAILABLE
Travel	Full jounce		137.0 mm (3.39) FROM CURB
	Full rebound		68.0 mm (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.)		290.0x105.0x2626.0x13.6 mm (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)		LINKLESS
	Material & bar diameter		SAE 1070
Track bar (type)			NONE

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Body Type And/Or Engine Displacement	ALL

Brakes - Service

Description				
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 MORAINE (VACUUM SUSPENDED)
Vacuum source (inline, pump, etc.)				
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/247.0 mm(4.72)
	Inner working diameter		F/R	F/127.0 mm (5.0)
	Thickness		F/R	
	Material & type (vented/solid)		F/R	F/CAST IRON VENTED
Drum	Diameter & width		F/R	R/200.0x 45.0 mm (7.87x1.77)
	Type and material		F/R	CAST IRON
Wheel cylinder bore			F/R	F/57.0 mm (2.24); R/16.0 mm (0.63) EXCLUDING WAGON; 17.5 mm (0.69) WAGON
Master cylinder	Bore/stroke		F/R	BORE: 22.2 mm (0.866); STROKE: 31.8 mm (1.25)
Pedal arc ratio				3.9:1
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]				
Lining clearance			(F/R)	F/R SELF-ADJUSTING
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		BONDED OUTBOARD; RIVETED INBOARD
		Rivet size		7.92x5.33 mm (0.31x0.21)
		Manufacturer		DELCO MORAINE
		Lining code		122 FE
		Material		SEMI-METALLIC
		**** Primary or out-board		116.7x54.7x10.92 mm (4.594x2.157x0.430)
		Size Secondary or in-board		125.0x59.0x10.2 mm (4.92x2.32x0.4)
		Shoe thickness (no lining)		INBOARD 4.72 mm; OUTBOARD 31.4 mm (IB 0.186 mm; OB 0.123 mm)
	Rear wheel	Bonded or riveted (rivets/seg.)		RIVETED
		Manufacturer		INLAND
		Lining code		235 FE
		Material		SEMI-METALLIC
		**** Primary or out-board		167.7x43.9x3.8 mm (6.60x1.73x0.15)
		Size Secondary or in-board		167.7x43.9x4.81 mm (6.60x1.73x0.19)
		Shoe thickness (no lining)		2.75 mm (.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.

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

Body Type And/Or Engine Displacement	ALL (EXCEPT SE)	(SE ONLY)

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P175/80R13	P205/70R14
	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)			

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)	P205/60R14 (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)	13½" x 5½" JB
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	ALUMINUM, HI-TECH
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)	

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

Body Type And/Or Engine Displacement	ALL

Steering

Manual (std., opt., n.a.)				STANDARD (EXCEPT CONVERTIBLE AND S/E)
Power (std., opt., n.a.)				OPTIONAL (STANDARD CONVERTIBLE AND S/E)
Adjustable steering wheel (tilt, swing, other)		Type and description		TILT
		(Std., opt., n.a.)		OPTIONAL
Wheel diameter		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.)		
		Curb to curb (l. & r.)		10.5 m (35.1 ft.)
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Scrub Radius				
Manual	Gear	Type		RACK AND PINION
		Make		SAGINAW STEERING GEAR
		Ratios	Gear	22:1
			Overall	
	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	16:1 (OPTIONAL 14:1 W/Y99 OR WS6)
			Overall	
	Pump (drive)			BELT OFF ENGINE CRANKSHAFT PULLEY
	No. wheel turns (stop to stop)			2.88
Linkage	Type			RACK AND PINION
	Location (front or rear of wheels, other)			REAR
	Drag links (trans. or longit.)			NONE
	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		
Steering spindle & joint type				
Wheel spindle	Diameter	Inner bearing		
		Outer bearing		
	Thread (size)			M20 x 1.5
	Bearing (type)			INTEGRAL DOUBLE ROW BALL, PERMANENTLY LUBRICATED

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Body Type And/Or Engine Displacement	ALL

Wheel Alignment

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	CIRCULAR DIAL W/POINTER, MPH HIGHLIGHTED
	Trip odometer (std., opt., n.a.)	STANDARD
EGR maintenance indicator		NOT AVAILABLE
Charge indicator	Type	OPTIONAL GAGES AVAILABLE
	Warning device	TELLTALE
Temperature indicator	Type	OPTIONAL GAGES AVAILABLE
	Warning device	TELLTALE
Oil pressure indicator	Type	OPTIONAL GAGES AVAILABLE
	Warning device	TELLTALE
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)	
	Fluid level indicator	
Horn	Type	ELECTRIC VIBRATOR
	Number used	1 (2 W/OPTIONAL DUAL HORNS)
Other		TURBO BOOST GAGE INCLUDED W/LA5 TURBO ENGINE

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

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	INTERGRAL 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	Conventional (std., opt., n.a.)			
	Electronic (std., opt., n.a.)			
	Other (specify)		HIGH ENERGY IGNITION (HEI) W/ESC (LA5)	
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			
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 HEATER AND 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, STANDAR WITH TURBO AND A/C

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Body Type	ALL

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)	COUNTERBLANCE - 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
Bumper front	Bar material & mass, kg (weight, lbs.)	STEEL/URETHANE 10.24 KG (22.53 LBS.)
	Reinforcement material & mass, kg (lbs.)	STEEL 3.68 KG (8.10 LBS.)
Bumper rear	Bar material & mass, kg (weight, lbs.)	STEEL/URETHANE 5.62 KG (12.36 LBS.)
	Reinforcement material & mass, kg. (lbs.)	NOT APPLICABLE
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	MOLDED FOAM PAD
	Rear	MOLDED FOAM PAD
	3rd seat	NOT AVAILABLE
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	MOLDED FOAM PAD
	Rear	MOLDED FOAM PAD
	3rd seat	NOT AVAILABLE
Vehicle identification no. location		TOP LEFT HAND OF INSTRUMENT PANEL PAD

Frame

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

Glass

		2JB27	2JB35	2JB69	2JB77	2JC67
Backlight slope angle (deg.)	H121	51.0	49.0	35.5	69.0	54.5
Windshield slope angle (deg.)	H122	58.75	55.0	55.0	58.75	58.8
Tumble-Home (deg.)	W122	21.5	22.0	21.5	21.5	21.5
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				

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

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

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

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

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

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
	Tripminder (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 - LE, S/E; NOT AVAILABLE BASE
	Glove compartment	OPTIONAL W/LAMP GROUP
	Trunk	OPTIONAL W/LAMP GROUP
	Other	
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)		
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)	6-WAY, DRIVER - OPTIONAL
	Side windows	OPTIONAL
	Vent windows	NOT AVAILABLE
	Rear window	NOT AVAILABLE
Radio systems	Antenna (location, whip, w/shield, power)	RIGHT FRONT FENDER
	AM, FM, stero, tape, CB	STANDARD AM; OPTIONAL AM/FM STEREO, CASSETTE, EQUILIZER
	Speaker (number, location) Premium sound	NOT AVAILABLE
Roof open air-fixed (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
Theft protection-type		LOCK MOUNTED ON STEERING WHEEL - STANDARD

* SPEAKERS - STANDARD W/STEREO RADIO

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

See Key Sheets for definitions

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (●)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100a "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	2JB27	2JB35	2JB69	2JB77	2JC67
		ALL DIMENSIONS mm (in.) UNLESS NOTED				
Width						
Tread (front)	W101	1410.0(55.5)	1410.0(55.5)	1410.0(55.5)	1410.0(55.5)	1410.0(55.5)
Tread (rear)	W102	1400.0(55.1)	1400.0(55.1)	1400.0(55.1)	1400.0(55.1)	1400.0(55.1)
Vehicle width	W103	1675.0(65.9)	1682.0(66.2)	1682.0(66.2)	1692.0(66.6)	1675.0(65.9)
Body width at Sg RP (front)	W117	1652.0(65.0)	1652.0(65.0)	1652.0(65.0)	1652.0(65.0)	1652.0(65.0)
Vehicle width (front doors open)	W120	3684.0(145.0)	3218.0(126.7)	3218.0(126.7)	3684.0(145.0)	3684.0(145.0)
Vehicle width (rear doors open)	W121	---	2832.0(111.5)	2832.0(111.5)	---	---
Length						
Wheelbase	L101	2571.0(101.2)	2571.0(101.2)	2571.0(101.2)	2571.0(101.2)	2571.0(101.2)
Vehicle length	L103	4412.0(173.7)	4467.0(175.9)	4463.0(175.7)	4412.0(173.7)	4412.0(173.7)
Overhang (front)	L104	938.0(36.9)	938.0(36.9)	938.0(36.9)	938.0(36.9)	938.0(36.9)
Overhang (rear)	L105	903.0(35.5)	958.0(37.7)	954.0(37.6)	903.0(35.5)	903.0(35.5)
Upper structure length	L123	2335.0(91.9)	2954.0(116.3)	2363.0(93.0)	2800.0(110.2)	2340.0(92.1)
Rear wheel C/L "X" coordinate	L127	2354.0(92.7)+	2354.0(92.7)+	2354.0(92.7)+	2354.0(92.7)+	2354.0(92.7)+
Cowl point "X" coordinate	L125	247.0(9.5)	245.0(9.7)	245.0(9.7)	247.0(9.7)+	247.0(9.7)+
Height*						
Passenger distribution (frt./rear)	PD1,2,3	2 - 0	2 - 0	2 - 0	2 - 0	2 - 0
Trunk/cargo load						
Vehicle height	H101	1317.0(51.8)	1374.0(54.1)	1367.0(53.8)	1317.0(51.8)	1317.0(51.8)
Cowl point to ground	H114	942.0(37.1)	946.0(37.2)	943.0(37.1)	942.0(37.1)	942.0(37.1)
Deck point to ground	H138	951.0(37.4)	---	956.0(37.6)	951.0(37.4)	951.0(37.4)
Rocker panel-front to ground	H112	216.0(8.5)	220.0(8.7)	216.0(8.5)	216.0(8.5)	216.0(8.5)
Bottom of door closed-front to grd.	H133	288.0(11.3)	294.0(11.6)	287.0(11.3)	288.0(11.3)	288.0(11.3)
Rocker panel-rear to ground	H111	209.0(8.2)	211.0(8.3)	209.0(8.2)	209.0(8.2)	209.0(8.2)
Bottom of door closed-rear to grd.	H135	---	299.0(11.8)	289.0(11.4)	---	---
Ground Clearance*						
Front bumper to ground	H102	237.0(9.3)	236.0(9.3)	237.0(9.3)	237.0(9.3)	237.0(9.3)
Rear bumper to ground	H104	339.0(13.4)	352.0(13.9)	339.0(13.4)	339.0(13.4)	339.0(13.4)
Bumper to ground [front at curb mass (wt.)]	H103	260.0(10.2)	261.0(10.3)	260.0(10.2)	260.0(10.2)	260.0(10.2)
Bumper to ground [rear at curb mass (wt.)]	H105	373.0(14.7)	382.0(15.0)	373.0(14.7)	373.0(14.7)	373.0(14.7)
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°	---	---
Ramp breakover angle (degrees)	H147	13.8°	15.1°	13.8°	13.8°	13.8°
Rear axle differential to ground	H153	NOT APPLICABLE				
Min. running ground clearance	H156	150.0(5.9)	150.0(5.9)	150.0(5.9)	150.0(5.9)	150.0(5.9)
Location of min. run. grd. clear.		FRONT SUSPENSION CRADLE				

+ REAR OF BASE GRID

* 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.

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

See Key Sheets for definitions

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Body Type	SAE Ref. No.	2JB27	2JB35	2JB69	2JB77	2JC67
Front Compartment						
Sg RP front, "X" coordinate	L31	1113.0(43.8)	1113.0(43.8)	1113.0(43.8)	1113.0(43.8)	1113.0(43.8)
Effective head room	H61	958.0(37.6)	973.0(38.3)	980.0(38.6)	955.0(37.6)	978.0(38.5)
Max. eff. leg room (accelerator)	L34	1071.0(42.2)	1072.0(42.2)	1072.0(42.2)	1071.0(42.2)	1071.0(42.2)
Sg RP (front to heel)	H30	233.0(9.2)	256.0(10.1)	257.0(10.7)	233.0(9.2)	233.0(9.2)
Design H-point front travel	L17	192.0(7.6)	192.0(7.6)	192.0(7.6)	192.0(7.6)	192.0(7.6)
Shoulder room	W3	1364.0(53.7)	1363.0(53.7)	1363.0(53.7)	1364.0(53.7)	1364.0(53.7)
Hip room	W5	1248.0(49.1)	1241.0(48.9)	1240.0(48.8)	1248.0(49.1)	1230.0(48.4)
Upper body opening to ground	H50	1211.0(47.7)	1246.0(49.1)	1240.0(48.8)	1211.0(47.7)	1211.0(47.7)
Steering wheel angle	H18	20.0°	20.0°	20.0°	20.0°	20.0°
Back angle	L40	25.0°	25.0°	25.0°	25.0°	25.0°
Rear Compartment						
Sg RP Point couple distance	L50	720.0(28.3)	741.0(29.2)	758.0(29.8)	715.0(28.1)	720.0(28.3)
Effective head room	H63	931.0(36.7)	989.0(38.8)	964.0(38.0)	925.0(36.4)	949.0(37.4)
Min. effective leg room	L51	807.0(31.8)	857.0(33.7)	871.0(34.3)	807.0(31.8)	791.0(31.1)
Sg RP (second to heel)	H31	259.0(10.2)	259.0(10.2)	272.0(10.7)	252.0(9.9)	259.0(10.2)
Knee clearance	L48	-21.0(-0.8)	2.0(0.1)	14.0(0.6)	-24.0(-0.9)	-16.0(-0.6)
Compartment room	L3	635.0(25.0)	660.0(26.0)	657.0(25.9)	652.0(25.7)	636.0(25.0)
Shoulder room	W4	1335.0(52.6)	1364.0(53.7)	1364.0(53.7)	1332.0(52.0)	964.0(38.0)
Hip room	W6	1265.0(49.8)	1244.0(49.0)	1241.0(48.9)	1234.0(48.6)	964.0(38.0)
Upper body opening to ground	H51	---	1251.0(49.3)	1243.0(48.9)	---	---
Back angle	L41	25.0°	25.0°	26.0°	25.0°	19.0°
Luggage Compartment						
Usable luggage capacity [L (cu. ft.)]	V1	356.3(12.6)	---	381.5(13.5)	---	294.0(10.4)
Liftover height	H195	834.0(32.8)	549.0(21.6)	832.0(37.8)	834.0(32.8)	834.0(32.8)
Interior Volumes (EPA Classification)						
Vehicle class						
Interior volume index (cu. ft.)						
Trunk/cargo index (cu. ft.)						

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

See Key Sheets for definitions

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Body Type	SAE Ref. No.	2JB35	2JB77

Station Wagon – Third Seat

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	SD1	
Back angle	L88	

Station Wagon – Cargo Space

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	1709.0 (67.3)
Cargo length (closed second)	L203	980.0 (38.6)
Cargo length at belt (front)	L204	1581.0 (62.2)
Cargo length at belt (second)	L205	837.0 (33.0)
Cargo width (wheelhouse)	W201	944.0 (37.2)
Rear opening width at floor	W203	1226.0 (48.3)
Opening width at belt	W204	1206.0 (47.5)
Max. rear opening width above belt	W205	970.0 (38.2)
Cargo height	H201	846.0 (33.3)
Rear opening height	H202	764.0 (30.1)
Tailgate to ground height	H250	549.0 (21.6)
Front seat back to load floor height	H197	602.0 (23.7)
Cargo volume index [m^3($ft.^3$)]	V2	1824.0 (64.4)
Hidden cargo volume [m^3($ft.^3$)]	V4	
Cargo volume, index-rear of 2-seat	V10	966.0 (34.1)

Hatchback – Cargo Space

Front seat back to load floor height	H197	602.0 (23.7)
Cargo length at front seat back height	L208	1426.0 (56.1)
Cargo length at floor (front)	L209	1654.0 (65.1)
Cargo volume index [m^3($ft.^3$)]	V3	1226.0 (43.3)
Hidden cargo volume [m^3($ft.^3$)]	V4	
Cargo volume index-rear of 2-seat	V11	419.0 (14.8)

Aerodynamics*

Wheel lip to ground, front	NOT AVAILABLE
Wheel lip to ground, rear	
Frontal area [m^2(ft^2)]	
Drag coefficient (Cd)	

* Describe measurement method.

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

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

Body Type					
	2JB27	2JB35	2JB69	2JB77	2JC67

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.
	(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.
Rear	(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). Y - FIDUGIAL 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).

Fiducial Mark Number						
Front	W21	504.0(19.8)	504.0(19.8)	504.0(19.8)	504.0(19.8)	505.0(19.9)
	L54	746.0(29.4) *	746.0(29.4) *	746.0(29.4) *	746.0(29.4) *	746.0(29.4) *
	H81	-54.0(-2.1) +	-54.0(-2.1) +	-54.0(-2.1) +	-54.0(-2.1) +	-36.0(-1.4) +
	H161	296.0(11.6)	300.0(11.1)	296.0(11.6)	296.0(11.6)	296.0(11.6)
	H163	268.0(10.5)	273.0(10.7)	268.0(10.5)	268.0(10.5)	268.0(10.5)
Rear	W22	440.0(17.3)	440.0(17.3)	440.0(17.3)	440.0(17.3)	440.0(17.3)
	L55	2900.0(114.2) *	2951.0(116.2) *	2951.0(116.2) *	2900.0(114.2) *	2900.0(114.2) *
	H82	62.0(2.4) #	62.0(2.4) #	62.0(2.4) #	62.0(2.4) #	62.0(2.4) #
	H162	422.0(16.6)	431.0(17.0)	422.0(16.6)	422.0(16.6)	422.0(16.6)
	H164	388.0(15.3)	401.0(15.8)	388.0(15.3)	388.0(15.3)	388.0(15.3)

* REAR OF BASE GRID, BASE GRID IS 2000 mm LINE.
\+ BELOW BASE GRID, BASE GRID IS 300 mm LINE.
\# ABOVE BASE GRID, BASE GRID IS 2000 mm LINE.

* Reference – SAE Recommended Practice. J182a. Motor Vehicle Fiducial Marks – September, 1973.
All linear dimensions are in millimeters (inches).

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

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

Body Type	SAE Ref. No.	2JB27	2JB35	2JB69	2JB77	2JC67

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	669.0(26.3)	670.0(26.4)	669.0(26.3)	669.0(26.3)	669.0(26.3)
		Lowest					
	Taillamp (H128)	Highest**	724.0(28.5)	590.0(23.2)	723.0(28.5)	724.0(28.5)	724.0(28.5)
		Lowest					
	Sidemarker	Front	531.0(20.9)	532.0(20.9)	531.0(20.9)	531.0(20.9)	531.0(20.9)
		Rear	729.0(28.7)	759.0(29.9)	719.0(28.3)	729.0(28.7)	729.0(28.7)
Distance from C/L of car to center of bulb	Headlamp	Inside			413.0(16.3)		
		Outside**			593.0(23.4)		
	Taillamp	Inside	509.0(20.0)	714.0(28.1)	383.0(15.1)	509.0(20.0)	509.0(20.0)
		Outside**	644.0(25.4)		647.0(25.5)	644.0(25.4)	644.0(25.4
	Directional	Front			581.0(22.9)		
		Rear	644.0(25.4)	714.0(28.1)	647.0(25.5)	644.0(25.4)	644.0(25.4)
Headlamp shape					RECTANGULAR		

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD

Model Year 1985 Issued 9/1/84 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	
ALL MODELS WITH MANUAL TRANSMISSION AND HEATER								
SUNBIRD - LH8								
2-DOOR NOTCHBACK COUPE 2JB27	680.5 (1500.2)	369.9 (815.5)	1050.1 (2315.1)	48.1	51.9	20.0	80.0	1021.8 (2252.7)
4-DOOR STATION WAGON 2JB35	679.9 (1498.9)	429.2 (946.2)	1109.1 (2445.1)	48.1	51.9	19.2	80.8	1080.8 (2382.7)
4-DOOR NOTCHBACK SEDAN 2JB69	686.2 (1512.8)	389.4 (858.5)	1075.6 (2371.3)	48.1	51.9	18.7	81.3	1047.3 (2308.9)
3-DOOR HATCHBACK COUPE 2JB77	682.2 (1504.0)	402.4 (887.1)	1084.6 (2391.1)	48.1	51.9	20.2	79.8	1056.3 (2328.7)
SUNBIRD LE - LH8								
2-DOOR NOTCHBACK COUPE 2JC27	687.2 (1515.0)	378.2 (833.8)	1065.4 (2348.8)	48.1	51.9	20.0	80.0	1037.1 (2286.4)
4-DOOR STATION WAGON 2JC35	685.0 (1510.2)	434.3 (957.5)	1119.2 (2467.7)	48.1	51.9	19.2	80.8	1090.9 (2405.0)
4-DOOR NOTCHBACK SEDAN 2JC69	697.9 (1538.6)	406.4 (896.0)	1104.3 (2434.6)	48.1	51.9	18.7	81.3	1076.0 (2372.2)
2-DOOR CONVERTIBLE 2JC67	728.7 (1606.5)	420.7 (927.5)	1149.4 (2534.0)			20.0	80.0	1121.1 (2471.6)
SUNBIRD S/E - LA5								
2-DOOR NOTCHBACK COUPE 2JD27	705.3 (1554.9)	393.3 (867.1)	1098.6 (2422.0)	48.1	51.9	20.0	80.0	1070.3 (2359.6)
4-DOOR NOTCHBACK SEDAN 2JD69	711.6 (1568.8)	412.6 (909.6)	1124.2 (2478.4)	48.1	51.9	18.7	81.3	1095.9 (2416.0)
3-DOOR HATCHBACK COUPE 2JD77	713.1 (1572.1)	420.6 (927.2)	1133.7 (2499.3)	48.1	51.9	20.2	79.8	1105.4 (2437.0)

CURB MASS - THE CALCULATED WEIGHT OF A VEHICLE WITH STANDARD EQUIPMENT ONLY AS DESIGNED WITH ADDITIONAL LOAD OF OILS, LUBES, COOLANTS AND FUEL FILLED TO CAPACITY (14.2 GALLONS AVERAGE).

SHIPPING MASS - SAME AS CURB MASS EXCEPT WITH 4 GALLONS OF FUEL.

* Reference – SAE J1100a, Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition –

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•)

Equipment		Optional Equipment Differential Mass (weight)* MASS, kg. (weight, lb.) Front	Rear	Total	Remarks
POWER SEAT: 6-WAY, DRIVER	AC3	1.92	2.08	4.00	
		(4.23)	(4.59)	(8.62)	
SUNROOF REMOVABLE GLASS	AD3	3.38	3.82	7.20	
(27,69 STYLE)		(7.45)	(8.42)	(15.87)	
POWER DOOR LOCKS: 2-DR	AU3	0.60	1.00	1.60	
		(1.32)	(2.20)	(3.52)	
POWER DOOR LOCKS: 4-DR	AU3	0.88	1.62	2.50	
		(1.94)	(3.57)	(5.51)	
POWER WINDOWS: 2-DR	A31	1.62	1.18	2.80	
		(3.57)	(2.60)	(6.17)	
POWER WINDOWS: 4-DR	A31	2.96	2.14	5.10	
		(6.53)	(4.72)	(11.24)	
ADJ CUSTOM BUCKET	AQ9	4.17	4.53	8.70	
		(9.19)	(9.99)	(19.18)	
REAR WINDOW: WIPER/WASHER	C25	-0.82	4.62	3.80	
JB35		(-1.81)	(10.19)	(8.38)	
REAR WINDOW: WIPER/WASHER	C25	-0.76	4.26	3.50	
JB77		(-1.68)	(9.39)	(7.72)	
LOUVERED SUNSHIELD	DE1	-0.48	5.32	4.85	
		(-1.06)	(11.73)	(10.69)	
CONSOLE ARMREST	D06	1.64	1.36	3.00	
		(3.62)	(3.00)	(6.62)	
REAR COMPT SECURITY COVER	D42	0.00	2.30	2.30	
		(0.00)	(5.07)	(5.07)	
DECK LID SPOILER	D80	-1.04	4.34	3.30	
		(-2.29)	(9.57)	(7.28)	
CRUISE CONTROL	K34	1.20	0.0	1.20	
		(2.65)	(0.0)	(2.65)	
1.8L PFI TURBO	LA5	18.52	3.55	22.07	
		(40.83)	(7.83)	(48.66)	
ENGINE: 2.0L (C41)	LQ5	1.74	-0.14	1.60	
		(3.84)	(-0.31)	(3.53)	
ENGINE: 2.0L (C60)	LQ5	0.22	-0.02	0.20	
		(0.49)	(-0.04)	(0.44)	
3-SPD AUTO TRANS (LH8)	MD9	26.16	-2.34	23.82	
		(57.67)	(-5.16)	(52.51)	
3-SPD AUTO TRANS (LQ5)	MD9	23.38	-2.08	21.30	
		(51.54)	(-4.59)	(46.96)	
POWER STEERING	N40	7.32	0.18	7.51	
		(16.14)	(0.40)	(16.56)	
BATTERY, H.D. (LQ5)	UA1	4.44	-0.56	3.88	
		(9.79)	(-1.23)	(8.55)	
BATTERY, H.D. (LH8)	UA1	27.02	-2.74	24.27	
		(59.57)	(-6.04)	(53.51)	
LUGGAGE CARRIER ROOF	V55	2.24	2.26	4.50	
		(4.94)	(4.98)	(9.92)	
LUGGAGE RACK-REAR DECK LID	V58	-0.48	2.86	2.39	
		(-1.06)	(6.31)	(5.27)	

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

MVMA Specifications Form
Passenger Car

METRIC (U.S. Customary)

Car Line SUNBIRD

Model Year 1985 Issued _____ Revised (•) _____

Optional Equipment Differential Mass (weight)*

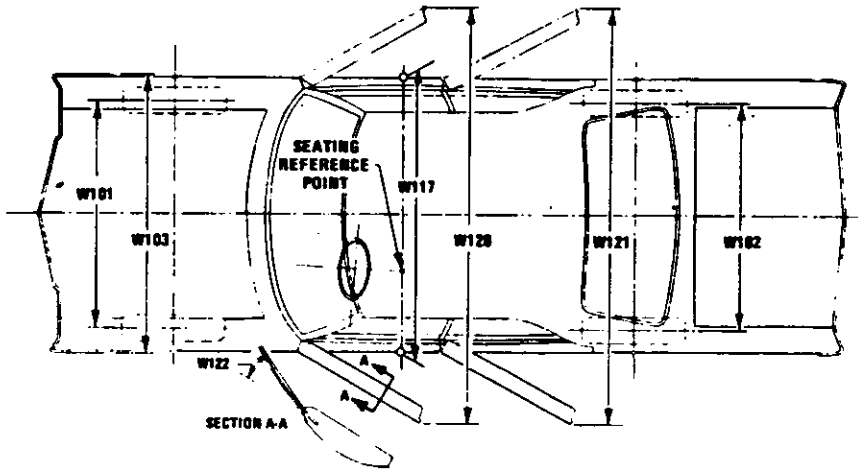
Equipment		MASS, kg. (weight, lb.)			Remarks
		Front	Rear	Total	
ACOUSTIC PACKAGE - JB27	BS1	3.70	5.00	8.70	
		(8.16)	(11.02)	(19.18)	
ACOUSTIC PACKAGE - JB77	BS1	3.10	4.20	7.30	
		(6.83)	(9.26)	(16.09)	
ACOUSTIC PACKAGE - JB69	BS1	3.02	4.08	7.10	
		(6.66)	(8.99)	(15.65)	
ACOUSTIC PACKAGE - JB35	BS1	3.02	4.08	7.10	
		(6.66)	(8.99)	(15.65)	
WIRE WHEEL COVERS	N91	2.96	2.96	5.91	
		(6.53)	(6.53)	(13.03)	
P195 TIRES	QGF/	3.50	6.54	10.04	
	QGG/QGH	(7.72)	(14.42)	(22.13)	
RADIO: AM/FM	UL1	0.90	0.32	1.23	
		(1.98)	(0.23)	(2.71)	
RADIO	UU9	1.04	0.18	1.22	
		(2.29)	(0.40)	(2.69)	
RADIO: AM	U63	1.16	0.42	1.59	
		(2.56)	(0.93)	(3.51)	
HANDLING PACKAGE	Y99	2.16	0.66	2.82	
		(4.76)	(1.46)	(6.22)	

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

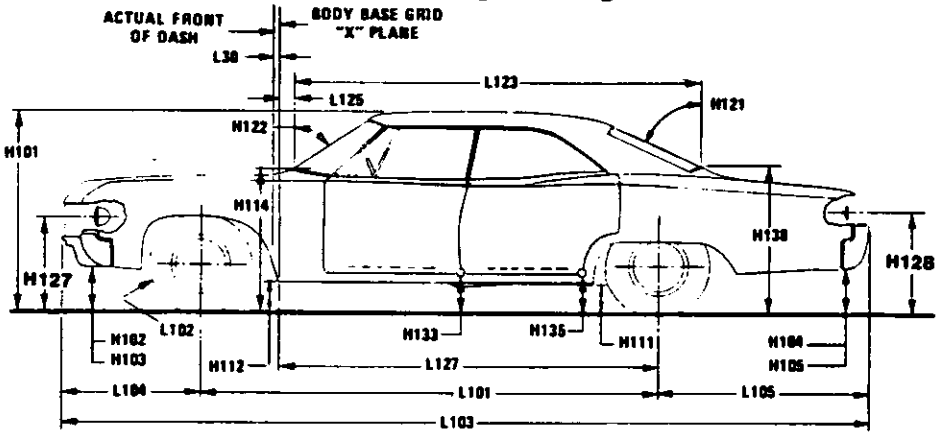
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

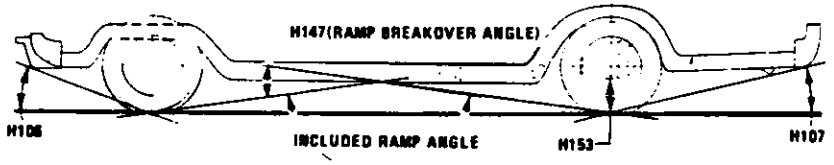
Exterior Width



Exterior Length & Height



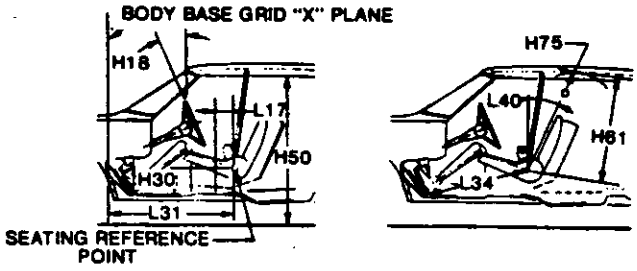
Exterior Ground Clearance



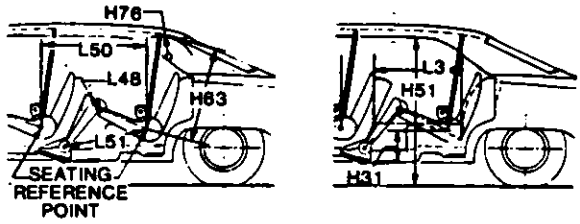
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

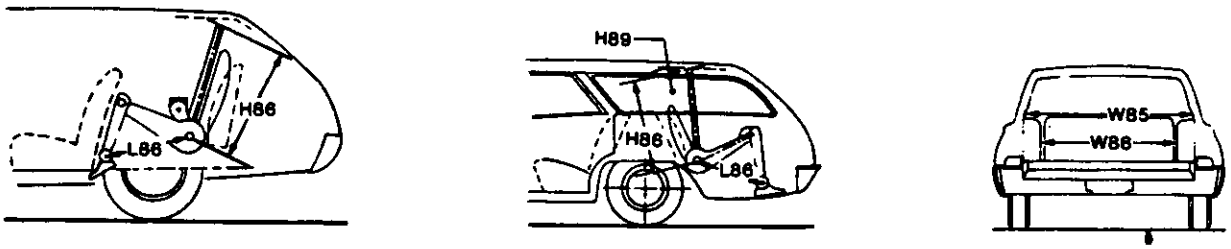
Front Compartment



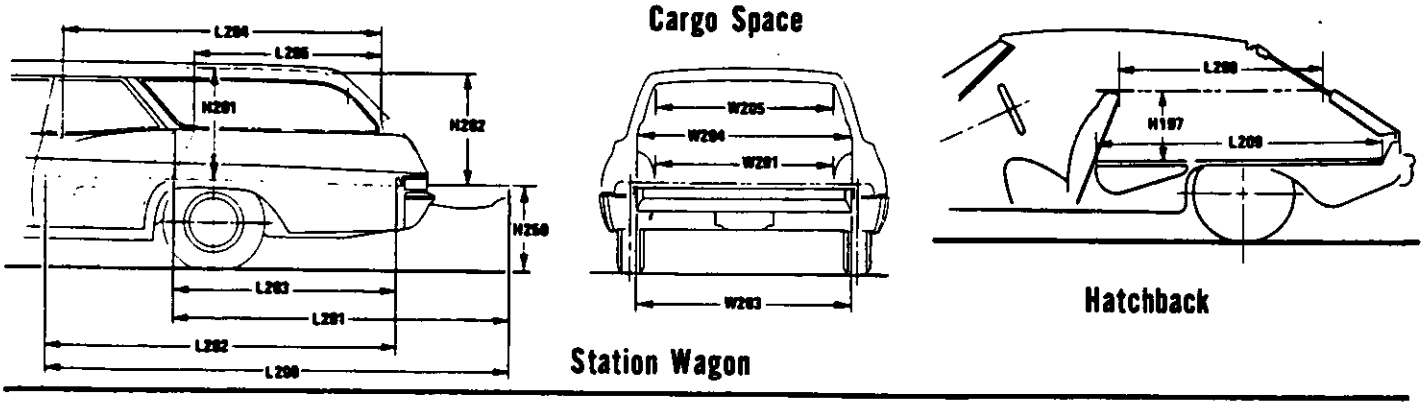
Rear Compartment



Third Seat



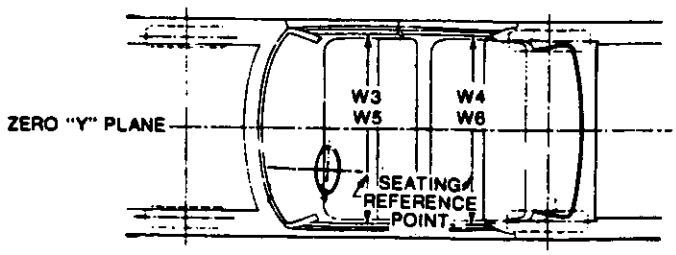
Cargo Space



Station Wagon

Hatchback

Interior Width



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, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

W101 TREAD–FRONT. The dimension measured between the tire centerlines at the ground.

W102 TREAD–REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP–FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.

W120 VEHICLE WIDTH–FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

W121 VEHICLE WIDTH–REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open positions. 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

L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.

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.

L102 TIRE SIZE. As specified by the manufacturer.

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.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.

L125 COWL POINT "X" COORDINATE.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

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

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.

H132 BOTTOM OF DOOR OPEN–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, 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.

H134 BOTTOM OF DOOR OPEN–REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold open 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.

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 are 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.

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 H104.

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.

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

Interior Car And Body Dimensions – Key Sheet
Dimensions Definitions

H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are 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 are the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.

H147 REAR 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.

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION–FRONT.

L31 SgRP–FRONT "X" COORDINATED.

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.).

H75 EFFECTIVE T-POINT HEAD ROOM–FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).

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.

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

L17 DESIGN H-POINT–FRONT TRAVEL. The dimension measured horizontally between the design H-point–front in the foremost and rearmost seat trace positions.

W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front within the belt line and 254 mm (10.0 in.) above the SgRP–front.

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 the SgRP–front.

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.

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

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 manufactuer.

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.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION–SECOND.

L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP–front to 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.).

H76 EFFECTIVE T-POINT HEAD ROOM–SECOND. Measured in the same manner as H75.

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

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.

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

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.

W4 SHOULDER ROOM–SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP–second within 254-406 mm (10.0-16.0 in.) above the SgRP–second.

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

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.

L-41 Same as L-40.

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

PD3 PASSENGER DIRECTION–THIRD.

W85 SHOULDER ROOM–THIRD. Measured in the same manner as W5.

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

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.).

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.).

H89 EFFECTIVE T-POINT HEAD ROOM–THIRD. Measured in the same manner as H75.

L-88 Same as L-40.

Station Wagon – Cargo Space Dimensions

L200 CARGO LENGTH–OPEN–FRONT. The minimum dimension measured longitudinally from the back of the front

Station wagon – Cargo Space Dimensions (con't.)

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 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 back panel 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 the sheet metal.

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear door 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.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated 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 CARGO VOLUME. As specified by the manufacturer.

V10 STATION WAGON (REAR OF SECOND SEAT)
Measured in inches:

$$\frac{W4 \times H201 \times L205}{1728} = ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L205}{10^9} = \text{liters}$$

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).

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 vertical dimension from the horizontal tangent to top of seatback to undepressed floor covering at zero "Y" plane.

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 HEIGH. HATCHBACK. The horizontal dimension from the "X" plane tangent to 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–HATCHBACK–SECOND. The horizontal dimension 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.

V3 HATCHBACK.
Measured in inches:

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

Measured in mm:

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

V11 HATCHBACK (REAR OF SECOND SEAT)
Measured in inches:

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

Measured in mm:

$$\frac{W4 \times H198 \times \frac{L210 + L211}{2}}{10^9} = \text{litres}$$

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

Index

Subject	Page No.
Aerodynamics	22
Alternator	16
Automatic Transmission	9
Axis, Steering	14
Axle, Rear	10
Axle Shafts	10
Battery	16
Brakes–Parking, Service	12, 13
Camber	15
Camshaft	3
Capacities	
Cooling System	5
Fuel Tank	6
Lubricants	
Engine Crankcase	4
Transmission	9
Rear Axle	10
Car Models	1
Car and Body Dimensions	
Width	20
Length	20
Height	20
Ground Clearance	20
Front Compartment	21
Rear Compartment	21
Luggage Compartment	21
Station Wagon – Third Seat	22
Station Wagon – Cargo Space	22
Hatchback – Cargo Space	22
Carburetor	2, 6
Caster	15
Choke, Automatic	6
Clutch – Pedal Operated	8
Coil, Ignition	16
Connecting Rods	4
Convenience Equipment	19
Cooling System	5
Crankshaft	4
Cylinders and Cylinder Head	3
Diesel Information	4
Dimension Definitions	
Key Sheet – Exterior	27, 29
Key Sheet – Interior	28, 30, 31
Electrical System	15, 16
Emission Controls	7
Engine – General	
Bore, Stroke, Type	3
Compression Ratio	2
Displacement	2, 3
Firing Order, Cylinder Numbering	3
General Information, Power & Torque	2
Identification Number Location	17
Power Teams	2
Exhaust System	7
Equipment Availability, Convenience	19
Fan, Cooling	5
Fiducial Marks	23
Filters – Engine Oil, Fuel System	4
Frame	17
Front Suspension	11
Front Wheel Drive Unit	10
Fuel System	6
Fuel Injection	6
Fuel Tank	6
Generator and Regulator	16
Glass	17
Headroom – Body	21, 22
Heights – Car and Body	20
Horns	15
Horsepower – Brake	2
Ignition System	16
Inflation – Tires	13
Instruments	15
Kingpin (Steering Axis)	14
Lamps and Headlamp Shape	24
Legroom	21, 22
Lengths – Car and Body	20
Leveling, Suspension	11
Lifters, Valve	4
Linings – Clutch, Brake	8, 12
Lubrication – Transmission	8, 9
Luggage Compartment	21
Mass	25, 26
Models	1
Motor Starting	16
Muffler	7
Passenger Capacity	1
Passenger Mass Distribution	25
Pistons	3
Power Brakes	12
Power, Engine	2
Power Steering	14
Power Teams	2
Propeller Shaft, Universal Joints	10
Pumps – Fuel	6
Water	5
Radiator – Cap, Hoses	5
Ratios – Axle	2, 9
Compression	2
Steering	14
Transmission	2, 8, 9
Rear Axle	2, 9, 10
Regulator – Generator	16
Restraint System	18
Rims	13
Rods – Connecting	4
Seats	17
Shock Absorbers, Front & Rear	11
Spark Plugs	16
Speedometer	15
Springs – Front & Rear Suspension	11
Stabilizer (Sway Bar) – Front & Rear	11
Starting System	16
Steering	14
Suppression – Ignition, Radio	16
Suspension – Front & Rear	11
Tail Pipe	7
Theft Protection	19
Thermostat, Cooling	5
Tires	13
Toe-In	15
Torque Converter	9
Torque – Engine	2
Transaxle	9
Transmission – Types	2, 8, 9
Transmission – Automatic	2, 8, 9
Transmission – Manual	2, 8, 9
Transmission – Ratios	2, 9
Tread	20
Trunk Cargo Load	1
Trunk Luggage Capacity	21
Turning Diameter	14
Unitized Construction	17
Universal Joints, Propeller Shaft	10
Valve System	4
Vehicle Identification Number	17
Voltage Regulator	16
Water Pump	5
Weights	25, 26
Wheel Alignment	15
Wheelbase	20
Wheels & Tires	13
Wheel Spindle	14
Widths – Car and Body	20
Windshield	17
Windshield Wiper and Washer	15

MVMA Specifications Form
Passenger Car

Car Line SUNBIRD
Model Year 1985 Issued 9/1/84 Revised (•) _____

FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features;
indicate if new or model year introduced)

BODY:

TURBO HOOD LOUVRES (STANDARD ON S/E; OPTIONAL ON OTHER MODELS (EXCEPT WAGON) WITH TURBO ENGINE OPTION (NEW).
IMPROVED LUMBAR SUPPORT IN UPLEVEL BUCKET SEATS (STANDARD LE AND S/E).
CLOTH TRIM OPTION ON SUNBIRD MODELS (NEW).
NEUTRAL DENSITY TAIL LAMP LENSES (LE, S/E, JB77) (1984 INTRODUCTION).
WIDE BODY SIDE MOLDINGS (STANDARD S/E, LE; OPTIONAL BASE) (1984 INTRODUCTION).

CHASSIS:

FOURTH GENERATION ALL SEASON TIRES (NOT AVAILABLE ON S/E) (NEW).
SPECIAL TURBO PERFORMANCE SUSPENSION WITH TURBO ENGINE (1984 INTRODUCTION).

ENGINE:

/TRANSMISSION:
HYDRAULIC CLUTCH (MANUAL TRANSMISSION) (NEW).

ELECTRICAL:

2000 SERIES RADIOS (NEW).
1.81 L-4 MULTI-PORT FUEL INJECTION TURBO ENGINE (1984 INTRODUCTION).
STANDARD FOG LAMPS ON LE AND S/E MODELS (1984 INTRODUCTION).

OTHER:

DROP "2000" NAME DESIGNATION.
REVISED LEATHER-WRAPPED STEERING WHEEL WITH THUMB GRIPS.
VARIABLE DISPLACEMENT FIVE CYLINDER (V-5) AIR CONDITIONING COMPRESSOR.