AMA Specifications – Passenger Car

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MANUFACTURER Plymouth-DeSoto-Valiant Division Chrysler Corporation	CAR NAME DESOTO		
MAILING ADDRESS Product Information Engineering Division, Chrysler Corporation Detroit 31, Michigan	MODEL YEAR 1961	ISSUED: 8-12-60	
		REVISED (e)	

NOTES:

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
   a. Specifications apply to the standard model without optional equipment. Significant deviations are noted.
   b. Specifications apply basically to 4-door sedan or equivalent.
   c. Nominal design dimensions are used throughout these specifications.

TABLE OF CONTENTS

BODY—TYPES AND STYLE NAMES—	Body type, number of passenger & style names; use manufacturer's code for series & body style.
	RS1-L DeSoto
2-Door Hardtop	RS1-L-23
4-Door Hardtop	RS1-L-43

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	RS1-L DeSoto
Wheelbase (L-101)		23	122.0
Tread	Front (W-101)	24	61.0
	Rear (W-102)	24	59.7
Maximum Overall Dimensions	Length (L-103)	23	215.6 (a)
	Width (W-103)	24	79.4
	Height (H-101)	22	2-Dr. H. T. - 54.8; 4-Dr. H. T. - 55.0
Transmission—(Specify trade name - opt., not available)	Manual	13	Std.
	Overdrive	14	NA
	Automatic	14	Opt.
Axle ratio	Manual	15	3.23
	Overdrive	15	-
	Automatic	15	2.93
Tire size		16	8.00 x 14
Engine	Type, no. cyl., valve arr.	2	90° V-8, In-Line, OHV
	Fuel system (Carb., other)	6	2-bbl Carb.
	Bore and stroke	2	4.12 x 3.38
	Piston displ., cu.in.	2	361
	Std. compression ratio	2	9.0
	Max. bhp at engine rpm	2	265 @ 4400
	Max. torque at rpm	2	380 @ 2400

(a) Add 0.2 for special equipment rear bumper guards.

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MODEL RS1-L

ENGINE—GENERAL

Type, no. cyls., valve arr.		V-8, OHV
Bore and stroke (nominal)		4.12 x 3.38
Piston displacement, cu. in.		361
Bore spacing (C/L to C/L)		4.8
No. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Compres. ratio (nominal)		9.0
Cylinder Head Material		Cast Iron
Cylinder Sleeve-Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	One
Engine installation angle		1.0° Right, 3.5° Up
Taxable horsepower $\frac{Dia.^2 \times No. Cyl.}{2.5}$		54.3
Published max. bhp* @ eng. RPM		265 @ 4400
Published max. torque* (lb. ft. @ RPM)		380 @ 2400
Recommended fuel regular – premium		Regular
Idle speed (spec. neutral or drive)	Manual	500 (a)
	Automatic	500 (a)

ENGINE—PISTONS

Material	Aluminum
Description and finish	Slipper Type, Steel Struts, Elliptically Turned, Tin Plated
Weight (piston only) oz.	25.3

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

(Continued)

(a) Compressor operating when equipped with A/C.

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POWER TEAMS
(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO (Std. first)
	Displ. cu. in.	Carburetor	Compr. Ratio	BPH @ RPM	Torque @ RPM			
RS1-L	361	2-bbl	9.0	265 @ 4400	380 @ 2400	Manual	3-Speed	3.23 (a)
						Automatic	3-Speed	2.93, 3.23 (a)

(a) Axle ratio 3.23 available with Sure-Grip.

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MODEL RS1-L

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.042 - .048
	Skirt	Top	.00075 - .00125 (a)
		Bottom	---
Ring groove depth	No. 1 ring		.230
	No. 2 ring		.230
	No. 3 ring		.221
	No. 4 ring		None

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Comp.
	No. 2, oil or comp.	Comp.
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, type, coating, etc.	Cast iron, standard taper and twist, tin plated
	Width	.078
	Gap	.013 - .025
Oil	Description - material, type, coating, etc.	Cast iron, single piece
	Width	.186
	Gap	.013 - .025
Expanders		Oil ring only - Standard tension hump type

ENGINE—PISTON PINS

Material			High manganese steel
Length			3.565
Diameter			1.094
Type	Locked in rod, in piston, floating, etc.		Press-fit in rod
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston		.00035 - .00085
	In rod		.0007 - .0014 (Interference)
Direction & amount offset in piston			.09 Right

ENGINE—CONNECTING RODS

Material		Drop-forged steel
Weight (oz.)		28.6
Length (center to center)		6.36
Bearing	Material & Type	Lead-base babbitt on steel; removable, precision
	Overall length	.927
	Clearance (limits)	.0005 - .0015
	End play	.009 - .017 (2-Rods)

(a) Desired dimension; Actual .0005 - .0015

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MODEL RS1-L

ENGINE—CRANKSHAFT

Material			Drop-forged steel
Vibration damper type			Non-adhesion rubber dynamic
End thrust taken by bearing (No.)			3
Crankshaft end play			.002 - .007
Main bearing	Material & type		Lead-base babbitt on steel, removable, precision #3 Only - Tin-base babbitt on steel
	Clearance		.0005 - .0015
	Journal dia. and bearing overall length	No. 1	2.63 x .94
		No. 2	2.63 x .94
		No. 3	2.63 x 1.22
		No. 4	2.63 x .94
		No. 5	2.63 x .94
		No. 6	---
		No. 7	---
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.375

ENGINE—CAMSHAFT

Location			Center of "V" above crankshaft
Material			Hardenable cast iron with drive gear for distributor and cams for fuel and oil pumps cast integrally
Bearings	Material		Lead-base babbitt on steel
	Number		5
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		High manganese steel
	Camshaft gear or sprocket material		Cast Iron
	Timing chain	No. of links	50
		Width	.88
		Pitch	.50

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve rotator, type (intake, exhaust)		Low friction lock on exhaust
Rocker ratio		1.5
Operating tappet clearance (indicate hot or cold)	Intake	Not Applicable
	Exhaust	Not Applicable
Timing marks on flywheel, damper, other		Stationary indicator on chain case cover

(Continued)

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MODEL: RS1-L

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	15
		Closes (°ABC)	57
		Duration - deg.	252
	Exhaust	Opens (°BBC)	57
		Closes (°ATC)	15
		Duration - deg.	252
	Valve opening overlap		30
Intake	Material		Aluminized Steel
	Overall length		4.87
	Actual overall head dia.		2.08
	Angle of seat & face		45
	Seat insert material		None
	Stem diameter		.373
	Stem to guide clearance		.001 - .003
	Lift		.390
	Outer spring press. and length	Valve closed (lb. @ in.)	100 @ 1.86
		Valve open (lb. @ in.)	195 @ 1.47
	Inner spring press. and length	Valve closed (lb. @ in.)	None
		Valve open (lb. @ in.)	None
Exhaust	Material		21 - 4N
	Overall length		4.89
	Actual overall head dia.		1.60
	Angle of seat & face		45
	Seat insert material		None
	Stem diameter		.372
	Stem to guide clearance		.002 - .004
	Lift		.390
	Outer spring press. and length	Valve closed (lb. @ in.)	100 @ 1.86
		Valve open (lb. @ in.)	195 @ 1.47
	Inner spring press. and length	Valve closed (lb. @ in.)	None
		Valve open (lb. @ in.)	None

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Metered jet spray
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Jet
	Cylinder walls	Metered jet spray

(Continued)

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MODEL RS1-L

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Rotary
Normal oil pressure (lb. @ engine rpm)	45 - 65 psi @ 2000 rpm
Oil pressure sending unit (elect. or mech.)	Electrical
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Complete
Capacity of crankcase, less filter-refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	Above +32°F . . . . . SAE 30, SAE 20W-40, or SAE 10W-30 As low as +10°F . . . . SAE 20W, SAE 20W-40, or SAE 10W-30 As low as -10°F . . . . SAE 10W, SAE 10W-30, or SAE 5W-20 Below -10°F . . . . . SAE 5W or SAE 5W-20
Engine Service Requirement (MM, MS, etc.)	MS

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Standard: Single with crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)		Single: One, reverse flow
Exhaust pipe dia. (O.D. wall thickness)	Branch	2.0 x .083
	Main	2.5 x .083
Tail pipe diameter (O.D. & wall thickness)		2.0 x .048

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Capacity (gals.)		20
	Filler location		Behind license plate
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Lower right front of engine
	Pressure range		4 - 5 psi
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Plastic and paper
	Locations		(a)
Carburetor	Make & Model No.		WWC3, 380943 (b)
	Number of carbs., bbls. per carb. & type		2-bbl, downdraft
	Barrel size		1-9/16
	Choke type		Separate, automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air clnr. type	Standard	Paper element, replaceable
		Optional	None

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(a) Plastic filter in fuel tank and a paper element filter between the fuel pump and carburetor.
(b) Used with Closed Crankcase Ventilation System - mandatory equipment - California, Special Order all others - BBD-3132S, manual and automatic transmission.

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure-Vent
Radiator cap relief valve pressure			14 psi; 16 psi with air conditioning
Circulation thermostat	Type (choke, bypass)		Choke pellet
	Starts to open at (°F)		180
Water pump	Type (centrifugal, other)		Centrifugal
	Number of pumps		One
	Drive (V-belt, other)		V-belt
	Bearing type		Ball, permanently sealed
By-pass recirculation type (internal, external)			Internal
Radiator core type (cellular, tube and fin, other)			Tube and Spacer
Cooling system capacity	With heater (qt.)		17
	Without heater (qt.)		16
	Opt. equipment-specify (qt.)		None
Water jackets full length of cylinder (yes, no)			No
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight)	One, molded
		Inside diameter	Radiator end: 1.5; Water pump end: 1.75
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.5
	By-pass	Number and type (molded, straight)	None
		Inside diameter	--
Fan	Number of blades & Spacing		Four: 76°, 104°; With AC - Seven: 60°, 45°, 59°, 47°, 54°, 50°, 45°
	Diameter		18
	Ratio-fan to crankshaft rev.		.95 to 1
	Fan cutout type		None
	Bearing type		See Water Pump
*Drive belts (Indicate belt used by letter)	Fan		See Supplement to Page 7
	Generator		--
	Water Pump		--
	Power Steering		--
	Air Conditioning		--

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* Drive Belt Dimensions	See Supplement to Page 7
Angle of V	--
Nominal length (SAE)	--
Width	--

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SUPPLEMENTARY INFORMATION

MODEL All Models

DRIVE BELT APPLICATION

	Std.	With PS	With AC
CS-FWP-AL	A	A	
CS-PS		B	B
CS-FWP-IF			C
CS-AL-AC			2D

CS - Crankshaft; AL - Alternator; IF - Fan Idler;
FWP - Fan and Water Pump.

DRIVE BELT DIMENSIONS

	A	B	C	D
Angle of "V"	36°			
Nominal Length, SAE	54.00	43.00	34.25	66.35
Width	.38	.50	.38	.47

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MODEL RS1-L

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Autolite 11-HS-59B, Gould National 11B-OE-59, Willard MB-24-59
	Voltage Rtg. & Total Plates		12, 66
	SAE Designation & Amp Hr. Rtg		2 SHB, 59
	Location		Under hood in left fender shield
	Terminal grounded		Negative
Alternator ~~Generator~~	Make		Chrysler
	Model		2095060
	Type		3-phase, full-wave rectifier
	Ratio—Gen. to Cr/s rev.		2.45
	Gen. cut-in (hot)—engine rpm		360
Regulator	Make		Chrysler
	Model		2095700
	Type		Voltage only
	Cutout relay	Closing voltage @ generator rpm	Not Applicable
		Reverse current to open	Not Applicable
	Regulated	Voltage	13.7 - 14.3
		Current	Not Applicable
	Voltage test conditions	Temperature	70° F
		Load	15 min at 7 amp - Voltage check
		Other	Not Applicable

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Chrysler
	Model		1889200
	Rotation (drive end view)		Clockwise
	Engine cranking speed		Cold - 35 rpm, Hot - 150 rpm
	Test conditions		Cold - SAE 5W at -20° F Hot - SAE 30 with completely warmed engine
	Lock test	Amps	350
		Volts	4
		Torque (lb. ft.)	8.5
	No load test	Amps	78
		Volts	11
		RPM (min.)	3800
Motor control	Switch (solenoid, manual)		Solenoid, positive engagement
	Starting procedure		Manual 3-Speed Transmission: Depress accelerator pedal about one-third, turn ignition key beyond "On" position. Automatic Transmission: Depress accelerator pedal one-third, push in "N" Neutral button, turn ignition key beyond "On" position.

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid, Positive
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	172
	Flywheel tooth face width		.375

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Autolite or Essex (with Chrysler ballast resistor)
	Model		Autolite 200567, Essex 62-160-2
	Amps	Engine stopped	3.0
		Engine idling	1.9
Distributor	Make		Autolite
	Model		IBP-4005-E
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° @ 500 - 900
		Intermediate points deg. @ rpm	0° - 4° @ 900 5° - 9° @ 1400
		Max deg. @ rpm	20° - 24° @ 4100
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° @ 6" - 8.1"
		Intermediate points, deg @ in Hg	12° - 18° @ 12"
		Max. deg. in. Hg.	21° - 26° @ 16"
	Breaker gap (in.)		.014 - .019
	Cam angle (deg.)		27 - 32
	Breaker arm tension (oz.)		17 - 21.5
Timing	Crankshaft deg. @ rpm.		10 @ 500
	Mark location		Stationary indicator on chain case cover
	Cylinder numbering system (see page 2)		Left Bank: 1 - 3 - 5 - 7 Right Bank: 2 - 4 - 6 - 8
	Firing order (see page 2)		1 - 8 - 4 - 3 - 6 - 5 - 7 - 2
Spark Plug	Make and model		Autolite A42
	Thread (mm)		14 mm
	Tightening torque (lb. ft.)		30 - 32
	Gap		.035
Cable	Conductor type		Resistor
	Insulation type		Synthetic rubber with neoprene jacket
	Spark plug protector		Silicone

ELECTRICAL—SUPPRESSION

Locations & type	Resistance-type spark plug and coil leads

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MODEL RS1-L

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	Stewart-Warner
	Trip odometer (yes, no)	No
Charge indicator—type		Ammeter
Temperature indicator—type		Electric - Thermal
Oil pressure indicator—type		Indicator Light
Fuel indicator—type		Electric - Thermal
Other		None
Ignition switch	Identify positions in order and circuits controlled	Center Position - Off 1st Position Clockwise - Ignition & Accessory Circuit Only 2nd Position Clockwise - Starter & Ignition Circuit Only 1st Position Counterclockwise - Accessory Circuit Only
	Provision for illumination	None
	Location	Right of steering column
Main lighting switch	Identify positions and lights controlled	Full In Position - Off 1st Position Out - Instrument, Tail, Parking and License Plate Lamps Full Out Position - Instrument, Tail, Head and License Plate Lamps
Other light switches	Locations and lamps controlled	Instrument Lamp Rheostat Control - Concentric with head lamp switch, variable all instruments; Dome and Map Lamps - Manual switch concentric with head lamp switch, Automatic Switch - Each door; Directional Signal Switch - Lever on steering column below wheel; Low Oil Pressure Switch - Engine; Stop Lamp Switch - Brake pedal.
Other switches	Locations and devices controlled	Windshield Wiper Switch - Variable Speed or Single Speed, Left of Steering Column Heater Control - Two-Speed by Push Buttons Right of Steering Column Defroster Control - Push Button Right of Steering Column Air Vent Control - Push Button Right of Steering Column
Windshield wiper	Make	Autolite or General Industries
	Type	Electric
	Vacuum booster provision	None
	Washer provision	Foot operated pump - Optional
Horn	Type	Sea Shell
	Number used	2
	Amp draw (each)	9 - 10

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ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		Dual Canted, 2-4001, 2-4002
Headlamp beam indicator		1-1445
Parking		2-1034 (a)
Tail		2-1034 (b)
Stop		2-1034 (b)
Direction signal	Front	2-1034 (a)
	Rear	2-1034 (b)
	Indicator	1-1445
License plate		1-67
Instrument		2-57
Ignition lock		None
Back up		2-1073*
Dome		2-1004*
Clock		1-57*
Radio		1-57*
Glove compartment		1-1891*
Speedometer		3-57
Ammeter Indicator		1-57
Oil Pressure Indicator		1-57
Map & Courtesy Lamp		1-90*
Transmission Control		1-1816*
Hand Brake Indicator		1-1816*
Heater Control		2-1816*
Trunk Light		1-1003*

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(a) Integral unit.

(b) Integral unit, double filament bulb.

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MODEL RS1-L

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lights SFE-10 (a), Direction indicator same as (a).

Headlamp	22.5 CB (A)
Headlamp beam indicator	Same as (A)
Parking light	15 CB (B)
Tail light	Same as (B)
Stop light	Same as (B)
Direction indicator	None
License plate light	Same as (B)
Instrument light	Same as (B)
Ignition light	None
Back up light	Same as (C)
Dome light	Same as (B)
Clock	AGA-1
Clock light	Same as (B)
Radio	SFE - 7.5
Glove compartment light	Same as (B)
Windshield Wiper	Single Speed - 5 CB, Variable Speed - 6 CB (C)
Window Lift	30 CB
Seat Adjuster	40 CB
Heater	SFE - 20
Rear Defroster	SFE - 7.5
Front Air Cond.	SFE - 20
Rear Air Cond.	SFE - 20
Auto Pilot	3AG - 10
Cigar Lighter	None

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	---
		Highest	32.1
	Stop		32.1
	Backup		22.2
	License, rear		24.7
	Directional	Front	20.6
		Rear	32.1
	Headlamp	Inside	23.3
		Outside*	28.7
Distance from C/L of car to center of bulb	Tail	Inside	---
		Outside	33.5
	Stop		33.5
	Backup		31.9
	License, rear		0
	Directional	Front	33.8
		Rear	33.5
	Headlamp	Inside	26.2
		Outside*	30.5

* If single headlamps are used enter here.

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MODEL RS1-L

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Borg & Beck, dry plate, semi-centrifugal
Type pressure plate springs		Coil
Effective plate pressure (lb.)		1675
No. of clutch driven discs		One
Clutch facing	Material	Molded Woven Asbestos
	Outside & inside dia.	10.5 x 6.5
	Total eff. area (sq.in.)	106.8
	Thickness	.125
	Engagement cushioning method	Flat springs, crimped
Release bearing	Type & method of lubrication	Sealed ball bearing, permanently lubricated
Torsional damping	Methods: springs, friction material	Coil springs

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	Not Available
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			3
Transmission ratios	In first		2.55
	In second		1.49
	In third		1.00
	In fourth		---
	In reverse		3.34
Synchronous meshing, specify gears			2nd and 3rd
Shift lever location			Steering column
Lubricant	Capacity (pt.)		4.25
	Type recommended		Multipurpose Gear Oil API GL-4, and Type "A"
	SAE viscosity number	Summer	SAE 80
		Winter	Above -10°F: SAE 80; Below -10°F: SAE 75
		Extreme cold	Below -10°F: SAE 75

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MODEL RS1-L

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)			N/A
	Manual lockout (yes, no)			"
	Downshift accelerator control (yes, no)			"
	Minimum cut-in speed			"
	Gear ratio			"
	Lubricant	Capacity (pt.) (Overdrive only)		"
		Separate filler (yes, no)		"
		Type recommended		"
		SAE viscosity number	Summer	"
			Winter	"
			Ext. cold	"

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		TorqueFlite
Type describe		3-Speed automatic with torque converter
Method of Selection (Lever, Push Button or other)		Push Button
Selector Pattern		Aligned horizontally on instrument panel, left of steering column
List gear ratios Selector Pattern and indicate which are used in each selector position		R Reverse 2.2 N Neutral --- D 1-2-Drive 2.45 - 1.45 - 1.00 2 1-2 2.45 - 1.45 1 1 2.45
Max. upshift speeds—drive range		75
Max. kickdown speeds—drive range		65
Torque convertor	Number of elements	Three
	Max. ratio at stall	2.2
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	22
	Type recommended	Automatic Transmission Fluid - Type A, Suffix A
Special transmission features		Spring-loaded hydraulic valve to prevent accidental reverse engagements.

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MODEL RS1-L

DRIVE UNITS—PROPELLER SHAFT

Number used			One
Type (exposed, torque tube)			Exposed
Outer diameter x length* x wall thickness	Manual transmission		3.25 x 59.21 x .065
	Overdrive transmission		Not Applicable
	Automatic transmission		2.75 x 59.21 x .065
Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		---
Universal joints	Make		Detroit Universal
	Number used		Two
	Type (ball and trunnion, cross, other)		Front: Ball and Trunnion Rear: Cross
	Bearing	Type (plain, anti-friction)	Anti-Friction
		Lubric. (fitting, prepack)	PrePack
Drive taken through (torque tube or arms, springs)			Rear Springs
Torque taken through (torque tube or arms, springs)			Rear Springs

DRIVE UNITS—REAR AXLE

Description – (incl. limited slip differential)			Standard: Semi-Floating, Hypoid, 2-Pinion Differential Sure-Grip: Torque-Bias, 4-Pinion Differential, Cam-Operated Clutches Limit Differential Action
Drive Pinion Offset			1.5
No. of differential pinions			Std. - 2; Sure-Grip - 4
Gear ratio and No. of teeth	Manual transmission		3.23 (42-13) (a)
	Overdrive transmission		Not Applicable
	Automatic transmission		Standard - 2.93 (41-14) (a) Optional - 3.23 (42-13) (a)
Ring gear pitch diameter & O.D.			8.75
Pinion adjustment (shim, other)			Solid Shim (Washer)
Pinion bearing adj. (shim, other)			Shims
Wheel bearing type			Tapered Roller Bearing
Lubricant	Capacity (pt.)		4.0
	Type recommended		(b) Multipurpose Gear Lubricant or API Service GL-4
	SAE viscosity number	Summer	Above -10°F: SAE 90
		Winter	Below -10°F: SAE 80
		Extreme cold	Below -30°F: SAE 75

*Center to center of universal joints, or to centerline of rear attachment.

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(a) Sure-Grip differential also available as special equipment on same ratios.

(b) When equipped with Sure-Grip differential use only MoPar Sure-Grip Differential Lubricant.

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MODEL RS1-L

DRIVE UNITS—WHEELS

Type & material		Disc, Pressed Steel
Rim (size and flange type)		14 x 5.5 K
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.5
	Number and size	Five, 1/2 - 20 NF

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.00 x 14
	Type - Nylon, etc.	Rayon
Rev/mile at 30 mph.		760
Inflation press.(cold)	Front	24
	Rear	22

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)				Hydraulic, Internal-Expanding, Contoured Variable Depth Web, Three Platform Total-Contact Brake Shoes
Power brake make & type (remote, integral, etc.)				Pedal Assist, Vacuum - Special Equipment With Automatic Transmission Only
Effective area (sq. in.)*				230
Gross lining area (sq. in.)**				230
Swept drum area (sq. in.)***				345.6
Percent brake effectiveness—front				60
Drum	Diameter	Front		11
		Rear		11
	Type and material			Cast Iron
Brake lining	Bonded or riveted			Bonded
	Front Shoe	Material		Molded Asbestos
		Size (length x width x thickness)	Front wheel	11.5 x 2.5 x 0.20
			Rear wheel	11.5 x 2.5 x 0.20
		Segments per shoe		One
	Rear Shoe	Material		Molded Asbestos
		Size (length x width x thickness)	Front wheel	11.5 x 2.5 x 0.20
			Rear wheel	11.5 x 2.5 x 0.20
		Segments per shoe		One
Wheel cylinder bore	Front			1.125
	Rear			1.125
Master cylinder bore				1.125
Available pedal travel				6.22; With Power Brakes: 4.80
Line pressure at 100 lb. pedal load				650 psi; With Power Brakes: 1210 psi
Shoe clearance adjustment				No Major Adjustment Required

* Excludes rivet holes, grooves, chamfers, etc.
** Includes rivet holes, grooves, chamfers, etc.
*** Total swept areas for four brakes:
Widest lining contact width for each brake x its drum circumference.

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MODEL RS1-L

		Standard Transmission	Automatic Transmission

BRAKES—PARKING

Type of control		Foot Operated, Multiple Pawl Ratchet	
Location of control		Under Instrument Panel, Left of Steering Column	
Operates on		Transmission Output Shaft	
If separate from service brakes	Type (internal or external)	External	Internal
	Drum diameter	6	7
	Lining size (length x width x thickness)	16.68 x 2.0 x 0.16	2-Shoes, Each: 6.53 x 2.0 x 0.16

FRAME or UNITIZED CONSTRUCTION

Type and description	Unit Construction

SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)*

Provision for car leveling		Mechanical, by manual adjustment of torsion bar anchor bolt - front only
Provision for brake dip control		By inclined front upper control arms and unsymmetrical rear springs
Provision for acc. squat control		By unsymmetrical rear springs
Special provisions for car jacking		None
Shock absorber front & rear	Type	Direct
	Make	Own
	Piston dia.	1.00
Other special features		Front torsion bars are combined with outboard-mounted, highly unsymmetrical semi-elliptical rear leaf springs

SUSPENSION—FRONT

Type and description	Independent, lateral, non-parallel control arms with torsion bars

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* Air Suspension:
- Air spring type
- Compressor data
  - type
  - make
  - drive ratio
- Normal operating pressures
- spring rates
- leveling data

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MODEL RS1-L

SUSPENSION FRONT (cont.)

Spring	Type	Torsion bar
	Material	Chromium-alloy steel
	Size (coil design height & I.D.; bar length x dia.	40 x .990
	Spring rate (lb. per in.)	Not Applicable
	Rate at wheel (lb. per in.)	130
	Design load (lb. @ design height)	Not Applicable
Stabilizer	Type (link, linkless, frameless)	None
	Material & bar diameter	---

STEERING

Mechanical (std., opt., NA)				Standard
Power (std., opt., NA)				Optional
Wheel diameter				17.14 x 16.50
Turning diameter	Outside front	Wall to wall (l. & r.)		46.8
		Curb to curb (l. & r.)		44.0
	Inside rear	Wall to wall (l. & r.)		26.2
		Curb to curb (l. & r.)		27.4
Outside wheel angle with inside wheel at 20°				$18^{\circ}\ 42'$
Mechanical	Gear	Type		Worm and three-tooth roller
		Make		Own
		Ratios	Gear	20.4
			Overall	30.16
	No. wheel turns			5.45
Power	Type (coxial, linkage, etc.)			Integral
	Make			Own
	Trade name			Constant-Control
	Gear	Type		Rack and Sector
		Ratios	Gear	15.7
			Overall	19.17
	Pump driven by			Belt from crankshaft pulley
	Number wheel turns			3.5
Linkage	Type			Symmetrical idler arm, equal length tie rods
	Location (front or rear of wheels, other)			Rear
	Drag link (trans. or longit.)			Transverse
	Tie rods (one or two)			Two

(Continued)

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MODEL RS1-L

STEERING (cont)

Steering Axis	Inclination at camber (deg.)		6-1/2° @ 0°
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
		Thrust	Oil-impregnated sintered metal
Wheel alignment (range and preferred)	Caster (deg.)		Mechanical Steering: -1/2° + 1/2° Power Steering: +3/4° ∓ 1/2°
	Camber (deg.)		Left: +1/2° + 1/4° (Prefer +1/2°) Right: +1/4° ∓ 1/4° (Prefer +1/4°)
	Toe-in (outside tread-inches)		3/32 to 5/32 (Prefer 1/8)
Steering spindle & joint type			Ball Socket
Wheel spindle	Diameter	Inner bearing	1.25
		Outer bearing	0.75
	Thread size		3/4 - 16 NF
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description				Outboard, parallel, longitudinal leafs
Drive and torq. taken through (see page 15)				Rear springs
Spring	Type			Leaf
	Material			Steel
	Size (length x width, coil design height and I.D.; bar length & dia.)			57 x 2.5
	Spring rate (lb. per in.)			90 - 100
	Rate at wheel (lb. per in.)			135
	Design load (lb. at design height)			R: 680, L: 720 @ -.375
	Mounting insulation type			Rubber
	If leaf	No. of leaves		5
		Inserts	Type and size	Two front interliners: 2.5 x 2.5; Three rear interliners: 3.5 x 2.5
			Material	Front: Plastic; Rear: Wax impregnated fabric
		Shackle (comp. or tens.)		Compression
Stabilizer	Type (link, linkless, frameless)			None
	Material			---
Track bar type				None

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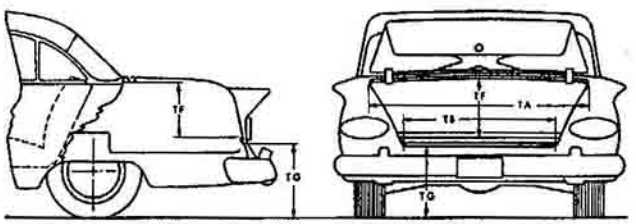
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Sub-Committee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., HA. Symbol "a" added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Body Dimensions are for all basic body models as indicated.
2. All interior dimensions are taken 15" outboard of car centerline (C/L) unless otherwise stated.
3. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
4. Depressed "A" point is the lowest point on the seat cushion depressed contour.
5. Front seat is in full down and normal rear position.
6. Unless otherwise specified all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
7. DLO (Daylight opening - pages 22 & 24).
8. For further clarification of definitions see SAE Aeronautical—Automotive Drawing Standards, Section E-1.

BODY—TRUNK DIMENSIONS



MODEL	RS1-L	
	4-Dr. H. T.	2-Dr. H. T.
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)	18.0	18.4
Total trunk volume in cu. ft. with spare tire in place	32.8	34.1
TA—Width across the top	57.4	
TB—Width across the bottom	50.0	
TF—Vertical dimension at C/L from bottom to top of opening	9.1	
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)	26.8	
Position of spare tire stowage	Horizontal, left side of trunk	
Method of holding lid open	Torsion Bar	

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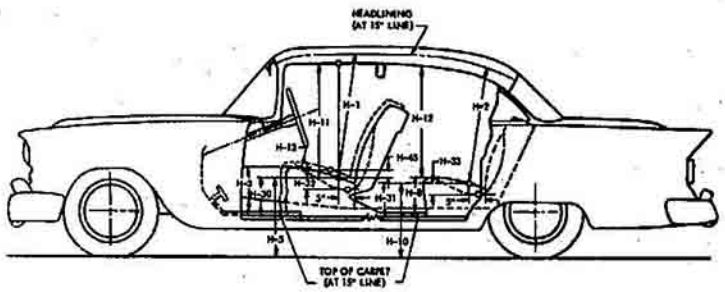
BODY—HEIGHT DIMENSIONS—INTERIOR



MODEL	RS1-L	
	4-Door H. T.	2-Door H. T.
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	33.3	
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	33.6	34.1
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	11.4	
H5. Free "A" pt. to ground, front. Measured vertically	20.6	
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	13.0	11.7
H10. Free "A" point to ground rear. Measured vertically	19.5	18.3
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	28.4	
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	26.9	---
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	6.0	
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	10.0	
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	9.1	7.9
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.5	
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.5	
H45. Front seat maximum vertical rise at free "A" point	1.0	

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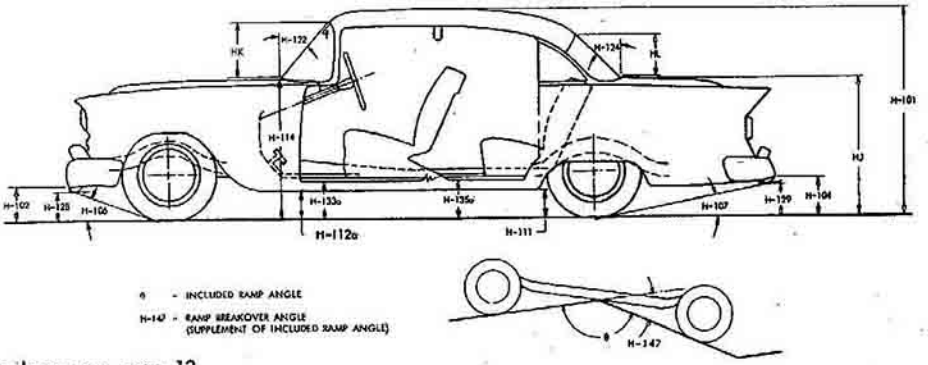
BODY—HEIGHT DIMENSIONS—EXTERIOR



θ - INCLUDED RAMP ANGLE
H-147 - RAMP BREAKOVER ANGLE (SUPPLEMENT OF INCLUDED RAMP ANGLE)

NOTE: For dimensions to lamps see page 12.

MODEL	RS1-L	
	4-Door H. T.	2-Door H. T.
H101. Overall height, full design load	55.0	54.9
HB. Overall height, curb weight	56.8	56.6
H102. Front bumper bottom to ground at normal section, min. height	10.0	
H104. Rear bumper bottom to ground at normal section, min. height	10.9	
H106. Angle of approach. To interfering point on bumper, guard, other	16.0°	
H107. Angle of departure. To interfering point on bumper, guard, other	10.5°	
H111. Body Sill to Ground-Rear. Vertical dimension measured from bottom of body sill (rocker panel), excluding any flanges, to ground at front of rear wheel opening.	6.5	
H112a. Body Sill to Ground-Front. Measured vertically at foremost point of body sill (rocker panel), excluding flanges and front fender.	6.9	
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	39.1	
H122. Windshield normal slope angle to vertical line on car C/L	55°	
H124. Backlight normal slope angle to vertical line on car C/L	55°	60°
H128. Bottom of front bumper guard to ground	---	
H129. Bottom of rear bumper guard to ground	14.3	
H133a. Bottom of front door to ground, min. dimension	11.5	
H135a. Bottom of rear door to ground, min. dimension	11.3	---
H147. Ramp breakover angle	12.6°	
H153. Min. road clearance at rear axle	7.2	
H156. Min. road clearance and location	5.2 at Muffler	
HJ. Deck at rear window to ground	37.7	37.6
HK. Windshield DLO*. Vertical height at C/L	14.7	
HL. Back light DLO*. Vertical height at C/L	11.3	13.6

* See Note, page 20

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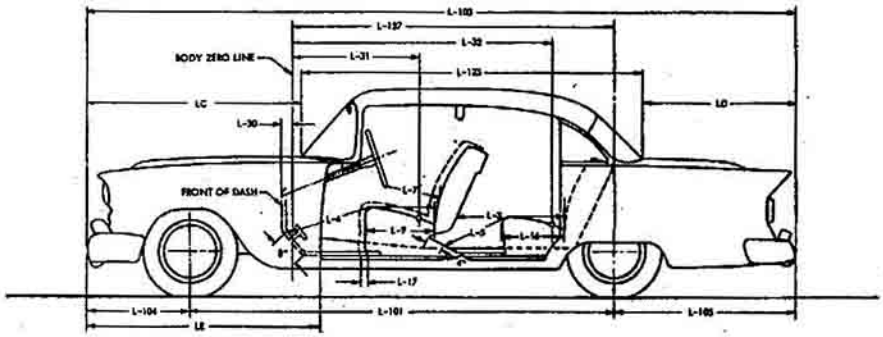
BODY—LENGTH DIMENSIONS



MODEL		RS1-L	
		4-Door H. T.	2-Door H. T.
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	30.3	26.9
	L4. Leg room, front. Ball of foot to top of seat to seat back	45.1	
	L5. Leg room, rear. Ball of foot to top of seat to seat back	42.4	38.6
	L7. Steering wheel clearance to seat back taken on arc	15.6	
	L9. Front seat depth. Front edge to vert. tan. of seat back	18.2	
	L16. Rear seat depth. Front edge to vert. tan. of seat back	17.3	17.5
	L17. Maximum "A" point horizontal travel with normal seat adjustment	4.5	
	L30. Vertical body zero line to actual front of dash. Measured horizontally*	3.7	
	L31. Vertical body zero line to free "A" point, front	38.3	
	L32. Vertical body zero line to free "A" point, rear	74.8	70.9
Exterior	L101. Wheelbase	122.0	
	L103. Overall length. Incl. bumper guards if standard equipment	Std. - 215.6; With Guards - 215.8	
	L104. Overhang, front. Include bumper guards if stand. eq.	34.8	
	L105. Overhang, rear. Include bumper guards if stand. eq.	Std. - 58.8; With Guards - 59.0	
	L123a. Body upper structure length at C/L, excl. molding	107.5	106.2
	L127. Vertical body zero line to centerline of rear wheels	102.0	
	LC. Front of car to base windshield, excl. molding	58.5	
	LD. Rear of car to base of rear window or upper structure, excl. molding	49.6	50.9
	LE. Front of car to front edge of front door	63.4	

* Precede figure with minus sign if front of dash is to rear of body zero line.

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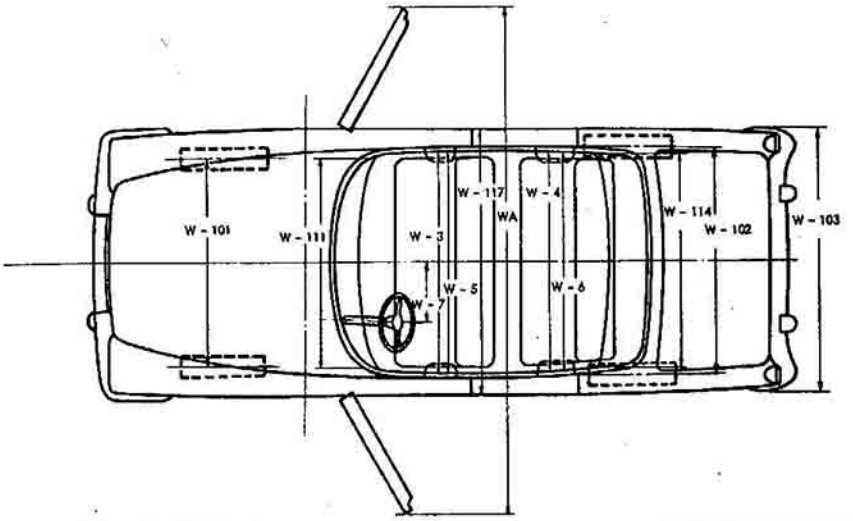
BODY—WIDTH DIMENSIONS



MODEL		RS1-L	
		4-Door H. T.	2-Door H. T.
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	60.3	
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	59.6	59.5
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back	63.8	
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back	62.8	62.2
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	16.1	
Exterior	W101. Front tread at ground	61.0	
	W102. Rear tread at ground	59.7	
	W103. Max. overall width of car incl. bumpers or moldings (specify location).	79.4 at front bumper	
	WA. Max. overall width of car with doors open (2 & 4 door)	154.1	167.8
	W111. Windshield DLO, max. width	58.9	
	W114. Back window DLO, max. width	59.7	61.4
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)	77.6 at rear wheel opening	
	W117. Max. body width at center pillar, less hardware and applied moldings	76.1	

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MODEL RS1-L

BODY—MISCELLANEOUS INFORMATION

		4-Door H. T.	2-Door H. T.
Drs. hinged (front, rear)	Front doors	Front	
	Rear doors		---
Type of finish (lacquer, enamel, other)		Synthetic Enamel	
Hood hinge location (front, rear)		Rear	
Hood counterbalanced (yes, no)		Yes	
Hood release control (internal, external)		Internal	
Vehicle (Serial) No. Location		Left front door hinge pillar, lower	
Engine No. Location		Top front center of engine block	
Theft protection - type		Ignition key starting, Ignition switch terminal barrier, Door locks	
Vent window control method (crank, friction pivot)	Front	Friction pivot	
	Rear	---	
Seat cushion type	Front	Formed wire	
	Rear	Formed wire	
Seat back type	Front	Formed wire	
	Rear	Formed wire	
Windshield type (single curved, compound curved, other)		Single curved	
Rear window type (flat, curved, one piece, three piece)		One piece, curved	
Side glass type (curved, flat)		Flat	
Side glass exposed surface area		1230	1254
Windshield glass exposed surface area		1575	
Backlight glass exposed surface area		1283	1778
Total glass exposed surface area		4088	4607