

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1970 DATE ISSUED 9-5-69 REVISED (*)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:

4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	GRAND PRIX 27657
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WIDTH

Track - Front	W101	62
Track - Rear	W102	60
Maximum overall car width	W103	75.7
Body width at No. 2 pillar	W117	--

LENGTH

Body "O" to front of dash	L 30	0
Wheelbase	L101	118
Overall car length	L103	210.2
Overhang - front	L104	41.0
Overhang - rear	L105	51.2
Body upper structure length	L123	95.4
Body "O" line to ϕ of rear wheel	L127	95.5
Body "O" line to w/s cowl point	L130	11.2

HEIGHT

Passenger Distribution (front & rear)		2 & 3
Trunk/Cargo load (lbs.)		0
Overall height	H101	52.0
Cowl height	H114	37.3
Deck height	H138	37.5
Rocker panel - front	To ground	7.6
	From front wheel ϕ	38.0
Rocker panel - rear	To ground	7.0
	From rear wheel ϕ	19.0
Windshield slope angle	H122	53°

GROUND CLEARANCE

Bumper to ground - front	H102	13.2
Bumper to ground - rear	H104	14.7
Angle of approach	H106	22.4
Angle of departure	H107	15.5
Ramp breakover angle	H147	10.1
Min. running clearance (Specify)	H156	4.4

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FRONT COMPARTMENT

Effective head room	H61	37.5
Max. eff. leg room — accelerator	L34	42.4
H Point to Heel point	H30	8.0
H Point travel	L17	4.8
Shoulder room	W 3	58.2
Hip room	W 5	57.5
Upper body opening to ground	H50	47.5

REAR COMPARTMENT

H Point couple distance	L50	30.7
Effective head room	H63	36.2
Min. effective leg room	L51	31.6
H Point to Heel point	H31	10.0
Min. knee room	L48	1.5
Rear Compartment room	L 3	24.3
Shoulder room	W 4	56.5
Hip room	W 6	52.7
Upper body opening to ground	H51	--

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	14.3
Liftover height @ Curb Load	H195	29.0
Position of spare tire storage		Flat - Std., Vertical With Space Saver Spare
Method of holding lid open		Torsion Bar Counterbalance

STATION WAGON — THIRD SEAT

Shoulder Room	W85	--
Hip room	W86	--
Effective leg room	L86	--
Effective head room	H86	--
Seat facing direction		--

STATION WAGON — CARGO SPACE

Cargo length at floor — front seat	L202	--
Cargo length at belt — front seat	L204	--
Cargo width — Wheelhouse	W201	--
Opening width at belt	W204	--
Maximum cargo height	H201	--
Rear opening height	H202	--
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	--

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MAKE OF CAR Pontiac MODEL YEAR 1970 DATE ISSUED 9-5-69 REVISED (e)GRAND PRIXPOWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY GRAND PRIX	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		
<u>STANDARD ENGINE (h)</u>							
	400	4 Bbl.	10.25:1	350@ 5000	445@ 3000	Manual (3-Sp) (a) Turbo Hydra- Matic	3.23:1 (b) (g) 2.93:1, 3.23:1 (c)
<u>OPTIONAL ENGINES</u>							
<u>400 Regular Fuel Engine</u>	400	2 Bbl.	8.8:1	265@ 4600	397@ 2400	Turbo Hydra- Matic	2.78:1, 3.23:1 (d)
<u>455 4-Bbl. Engine</u>	455	4 Bbl.	10.25:1	370 @ 4600	500@ 3100	Manual (3-Sp) (a) Turbo H-M	3.31:1 (e) 3.07:1 (f)

- (a) 4-Speed Manual Optional
 (b) 3.23:1 With Air Conditioning
 (c) 2.93:1 With Air Conditioning
 (d) 2.78:1 With Air Conditioning
 (e) 3.31:1 With Air Conditioning
 (f) 3.07:1 With Air Conditioning

- (g) 3.55:1 Std., 3.31:1 A/C with
4-speed option
 (h) Grand Prix Model J - 455 cu. in.
engine is included in Model SJ
option.

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GRAND PRIX
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MODEL

ENGINE—GENERAL

MODEL		400 V-8		455 V-8	
ENGINE - GENERAL		Reg.	Fuel Opt.	Standard	
Type, no. cyls., valve arr.		90° V, 8, In-Head			
Bore and stroke (nominal)		4.1200	x	3.746	4.1510
		4.1224		3.754	4.1534
Piston displacement, cu. in.		400		455	
Bore spacing (C to C)		4.62			
No. system		1-3-5-7			
(front to rear)		2-4-6-8			
Firing order		1-8-4-3-6-5-7-2			
Compres. ratio (nominal)		8.8:1		10.25:1	10.25:1
Cylinder Head Material		Alloy Cast Iron			
Cylinder Block Material		Alloy Cast Iron			
Cyl. Sleeve-Wet,dry,none		None			
Number of		2			
mtg. points		1			
Engine installation angle		4.7° (a)			
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower } 2.5}$		54.3		55.2	
Publishing max. bhp* @ eng. RPM		265 @ 4600		350 @ 5000	370 @ 4600
Publishing max. torque* (lb. ft. @ RPM)		397 @ 2400		445 @ 3000	500 @ 3100
Recommended fuel regular - premium		Regular		Premium	Premium

ENGINE—PISTONS

Material		Aluminum Alloy	
Description and finish		Cam Ground Slipper Type - Tin Plated	
Weight (piston only) oz.		22.070 - 22.250	20.515 - 20.695
Clearance (limits)	Top land	.017 - .021	.024 - .029
	Skirt	Top .0025 - .0033 (b)	.0025 - .0033 (c)
		Bottom .0020 - .0038	.0020 - .0038
Ring groove depth	No. 1 ring	.2230	.2222
	No. 2 ring	.2230	.2222
	No. 3 ring	.2215	.2006
	No. 4 ring	None	

* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

(a) Man. trans.; 4.8° HM trans.

(b) Pistons selected for clearance at 1.110 below top of piston.

(c) Pistons selected for clearance at 1.08 below top of piston.

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MODEL		GRAND PRIX 27657
ENGINE - RINGS		Optional 455 Cu. In. Engine
		400 Cu. In. Engines
Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, coating, etc.	Cast Iron Reverse Twist - No. 1 Barrel Face Moly Channel, No. 2 Taper Face Tin Plated (a)
	Width	.0778 (b)
	Gap	No. 1 - .019 (c), No. 2 - .015
Oil	Description - material, coating, etc.	Multi-Piece (2 Rails and 1 Spacer Expander) Rails - Steel With Chrome Plated O.D. Expander - Stainless Steel
	Width	.186
	Gap	.035
Expanders		In Oil Ring Assembly

ENGINE - PISTON PINS

Material		SAE 1016 Steel
Length		3.25
Diameter		.9802
Type	Locked in rod, in piston, floating, etc.	Locked In Rod
	Bush- ing	None
	In rod or piston Material	None
Clearance	In piston	.0005 - .0007
	In rod	Press Fit
Direction & amount offset in piston		To Right - .063

ENGINE - CONNECTING RODS

Material		Arma Steel
Weight (oz.)		31.7
Length (center to center)		6.625
Bearing	Material & Type	Moraine 400-A (d) (e)
	Overall length	.88
	Clearance (limits)	.0005 - .0026 .0010 - .0031
	End play	.012 - .017 (Total For Two)

(a) Optional 455 Cu. In. Engine Uses Taper Face Moly Channel Rings In No. 2 Location.

(b) No. 2 .0623 On 455 Cu. In. Engine.

(c) No. 1 .021 On 455 Cu. In. Engine.

(d) Steel Backed Removable Precision.

(e) Material is Moraine 100-A On Optional 400 Regular Fuel Engine.

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GRAND PRIX
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MODEL

ENGINE - CRANKSHAFT 400 Cu. In. Engines Optional
455 Cu. In. Engine

Material	Nodular Iron		
Vibration damper type	Rubber Floated Weight		
End thrust taken by bearing (No.)	4		
Crankshaft end play	.0035 - .0085		
Main bearing	Material & type	Durex 100-A* Steel Backed, Removable - Precision	
	Clearance	.0002 - .0017**	
	Journal dia. and bearing overall length	No. 1	3.00 x .94
		No. 2	3.25 x .94
		No. 3	3.25 x .94
		No. 4	3.25 x .94
		No. 5	3.25 x 1.19
		No. 6	3.25 x 1.59
	Dir. & amt. cyl. offset	No. 7	None
			None
Crankpin journal diameter	2.25		

ENGINE - CAMSHAFT

Location	Between Cylinder Banks		
Material	Hardened Alloy Cast Iron		
Bearings	Material	High Lead Babbitt on Steel	
	Number	5	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Hardened Sintered Iron	
	Camshaft gear or sprocket material	Aluminum Alloy With Nylon Covered Teeth	
	Timing chain	No. of links	60
		Width	.88 (Morse) - 1.00 (Link Belt)
		Pitch	.375

ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard		
Valve rotator, type (intake, exhaust)	None		
Rocker ratio	1.5:1		
Operating tappet clearance (indicate hot or cold)	Intake	0	
	Exhaust	0	

* Material Changes to Moraine 400-A as Follows: (Continued)

#4 Lower of 400 Regular Fuel Engine

#1, 2, 3, and 4 lower locations of 400 4-BBL Engine

All Locations (Except #5 Upper) of 455 Engine

** .0005 - .0021 on 455 Engine.

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MODEL		GRAND PRIX 27657		
ENGINE - VALVE SYSTEM (cont.)		Std. 400 Cu. In. Engine		Opt. 400 Cu. In. Engine
		Man. Trans.	Auto. Trans.	Auto. Trans.
Timing (based on top of comp points)	Intake	Opens (°BTC)	23	22
		Closes (°ABC)	70	67
		Duration - deg.	273	269
	Exhaust	Opens (°BBC)	78	72
		Closes (°ATC)	31	25
		Duration - deg.	289	277
	Valve opening overlap		54°	47°
Intake	Material		GM-8440 W/Alum. Treatment on Face & Fl. Cr. Plated Stem	
	Overall length		5.073	4.993
	Actual overall head dia.		2.113 - 2.107	1.963 - 1.957
	Angle of seat & face		30° Seat - 29° Face	45° Seat - 44° Face
	Seat insert material		Not Used	
	Stem diameter		.3419 - .3412	
	Stem to guide clearance		.0016 - .0033	
	Lift (zero lash)		.410 + .011	.376 + .011
	Outer spring press. & length	Valve closed (lb. & in.)	59.6 65.6 @ 1.5823	59.6 65.6 @ 1.5823
		Valve open (lb. & in.)	128.4 @ 1.1723 138.4	122.5 @ 1.2063 132.5
	Inner spring press. & length	Valve closed (lb. & in.)	31.7 @ 1.5423 37.7	31.7 @ 1.5423 37.7
		Valve open (lb. & in.)	94.1 @ 1.1323 104.1	88.8 @ 1.1663 98.8
Exhaust	Material		21-2 Steel W/Alum. Treatment on Face & Fl. Cr. Plated Stem	
	Overall length		5.062	4.982
	Actual overall head dia.		1.773 - 1.767	1.663 - 1.657
	Angle of seat & face		45° Seat - 44° Face	
	Seat insert material		Not Used	
	Stem diameter		.3414 - .3407	
	Stem to guide clearance		.0021 - .0038	
	Lift (zero lash)		.413 + .011	.412 + .011
	Outer spring press. & length	Valve closed (lb. & in.)	59.6 65.6 @ 1.5823	59.6 65.6 @ 1.5823
		Valve open (lb. & in.)	128.9 @ 1.1693 138.9	128.7 @ 1.1703 138.7
	Inner spring press. & length	Valve closed (lb. & in.)	31.7 @ 1.5423 37.7	31.7 @ 1.5423 37.7
		Valve open (lb. & in.)	94.6 @ 1.1293 104.6	94.4 @ 1.1303 104.4

ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Metered Jet
	Cylinder walls	Metered Jet

(Continued)

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MODEL

ENGINE - VALVE SYSTEM (cont.) Manual Trans. - 455 Engine Opt. - Turbo Hydra-Matic

Timing (based on top of ramp points)	Intake	Opens (°BTC)	31	23	
		Closes (°ABC)	77	70	
		Duration - deg.	288	273	
	Exhaust	Opens (°BBC)	90	78	
		Closes (°ATC)	32	31	
		Duration - deg.	302	289	
	Valve opening overlap		63°	54°	
Intake	Material		GM-8440 W/Alum. Treatment on Face & Fl. Cr. Plated Stem		
	Overall length		4.992		
	Actual overall head dia.		2.113 - 2.107		
	Angle of seat & face		30° Seat - 29° Face		
	Seat insert material		Not Used		
	Stem diameter		.3419 - .3412		
	Stem to guide clearance		.0016 - .0033		
	Lift (± zero lash)		.414 ± .011	.410 ± .011	
	Outer spring press. & length	Valve closed (lb. @ in.)	59.6 @ 1.5823	63.3 @ 1.5613	
		Valve open (lb. @ in.)	121.1 @ 1.1683	132.0 @ 1.1513	
	Inner spring press. & length	Valve closed (lb. @ in.)	31.7 @ 1.5423	35.0 @ 1.5213	
		Valve open (lb. @ in.)	94.3 @ 1.1283	97.4 @ 1.1113	
	Exhaust	Material		21-2 Steel W/Alum. Treat. on Face & Fl. Cr. Plated Stem	
		Overall length		4.991	
		Actual overall head dia.		1.773 - 1.767	
Angle of seat & face		45° Seat - 44° Face			
Seat insert material		Not Used			
Stem diameter		.3414 - .3407			
Stem to guide clearance		.0021 - .0038			
Lift (± zero lash)		.413 ± .011			
Outer spring press. & length		Valve closed (lb. @ in.)	59.6 @ 1.5823	63.3 @ 1.5613	
		Valve open (lb. @ in.)	128.9 @ 1.1693	132.5 @ 1.1483	
Inner spring press. & length		Valve closed (lb. @ in.)	31.7 @ 1.5423	35.0 @ 1.5213	
		Valve open (lb. @ in.)	94.6 @ 1.1293	97.9 @ 1.1083	

ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Metered Jet
	Cylinder walls	Metered Jet

(Continued)

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MODEL GRAND PRIX
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ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear
Normal oil pressure (lb. engine rpm)	55-60 Above 2600 RPM*
Oil press. sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary Screen
Oil filter system (full flow, part., other)	Full Flow
Filter replacement (element, complete)	Complete
Capacity of oil case, less filter-refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	Above 20°F.: 20W, 10W-30, 10W-40, 20W-40 From 0° to 60°F.: 10W, 5W-30, 10W-30, 10W-40 Below 0°F.: 5W, 5W-20, 5W-30
Engine Service Reqmt. (MM, MS, etc.)	MS

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two - Reverse Flow
Exhaust pipe dia. (O.D., wall thick.)	None
Branch	2.00 x .060
Main	2.25 x .048 - Aluminized
Tail pipe dia. (O.D. & wall thickness)	

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	None
Control Unit	Make and model	AC Type CV-679C
	Location	Push Rod Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum
	Control method (variable orifice, fixed orifice, other)	Variable Orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake Manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Through Filter In Carburetor Air Cleaner
	Flame arrestor (screen, check valve, other)	Check Valve

* 30-40 Above 2600 RPM On Optional Regular Fuel Engine.

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ENGINE — EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		
Air Injection Pump	Type	
	Displacement	
	Drive ratio	
	Drive type	
	Relief valve (type)	
Air Injection System	Filter (describe)	
	Air distribution (head, manifold, etc.)	
	Point of entry	
	Injection tube I.D.	
Carburetor	Check valve type	
	Backfire protection (type)	
	Make	
	Model	
Distributor	Barrel size	
	Idle speed	Drive Neutral
	Idle A/F mixture	
	Aux. Adv. Systems (type)	
Distributor	Make	
	Model	
	Cent'gal adv. in crank degrees @ eng. rpm	Start (rpm) Intermed. points deg. @ rpm Max. deg. @ rpm
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg) Intermed. points deg. @ in. Hg Max. deg. @ in.
	Vacuum Source	
	Timing - Crank degrees @ rpm	
Cooling System		
Exhaust System		

STANDARD ENGINE PROVIDES EXHAUST EMISSION CONTROL

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MODEL

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ENGINE - FUEL SYSTEM

(See supplemental page for Details of Fuel Injection,
Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor
Fuel	Refill capacity (U.S. gals.)	24.5 (a)
Tank	Filler location	Center Rear
Fuel	Type (elec. or mech.)	Mechanical
Pump	Locations	Left Front of Engine
	Pressure range	5.0 - 6.5
Vacuum booster (std., optional, none)		None
Fuel	Type and	Plastic Fabric in Fuel Tank and Sintered Bronze In 2-BBL Carb. Inlet - Pleated Paper in 4-BBL Carb.
Filter	Locations	
	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust - Control Valve Not Used
Carburetor	Air cleaner type	Standard Oil Wetted Paper
		Optional Two Stage - Wetted Plastic Foam Over Paper Element
	Idle speed (spec. neutral or drive)	Manual N 950 (4-Bbl.)
		Automatic D 650 (2 & 4-Bbl.)
	N D Idle A F mix.	Not Specified

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
Standard	400	Manual Turbo H-M	Rochester	7040263	1,4-Bbl.	P. 1.38
			Rochester	7040264	1,4-Bbl.	S. 2.25
Optional	400	Turbo H-M	Rochester	7040060	1,2-Bbl.	1.69
Optional	455	Manual Turbo H-M	Rochester	7040267	1,4-Bbl.	P. 1.38
			Rochester	7040268	1,4-Bbl.	S. 2.25

(a) Reduce by one gallon for California cars

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MODEL GRAND PRIX
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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure Vented				
Radiator cap relief valve pressure	14 - 17 P.S.I.				
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at (°F)	190			
	Type (centrifugal, other)	Centrifugal			
	GPM @ 1000 pump rpm	17			
Water pump	Number of pumps	One			
	Drive (V-belt, other)	V-Belt			
	Bearing type	Sealed Ball Bearing			
By-pass recirculation type (inter., ext.)	Internal				
Radiator core type (cellular, tube and fin, other)	Tube and Center				
Cooling system capacity	With heater (qt.)	18.7 (17.5 with 455 option)			
	Without heater (qt.)	Heater Standard Equipment			
	Opt. equipment-specify (qt.)	Air Cond. 21.1 (19.9 With 455 Eng. Options)			
Water jackets full length of cyl. (yes, no)	Yes				
Water all around cylinder (yes, no)	Yes				
Radiator hose	Lower	Number and type (molded, straight)	One, Molded		
		Inside diameter	1.50		
	Upper	Number and type (molded, straight)	One, Molded		
		Inside diameter	1.50		
	By-pass	Number and type (molded, straight)	Hose Not Used		
		Inside diameter	--		
Fan	Number of blades & spacing	5 Blade Power-Flex (a)			
	Diameter	19			
	Ratio-fan to crankshaft rev.	.91:1 (1.25:1 With A/C)			
	Fan cutout type	Fluid Clutch-Thermostatically Controlled With A/C			
	Bearing type	See Water Pump			
* Drive belts (Indicate belt used by letter)	Fan	A	A, B	A	D, E
	Generator or alternator	A	A	A	D
	Water Pump	A	A, B	A	D, E
	Power Steering		B		E
	Air Conditioning			C	C

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°						
Nominal length (SAE)	47.5	52.0	59.2	48.0	53.0						
Width	.38	.47	.47	.38	.47						

(a) 7 Blade 19.5 Dia. With A/C.

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MODEL		GRAND PRIX 27657		
ELECTRICAL – SUPPLY SYSTEM				
		400 V-8 Engines	455 V-8 Engine	
Battery	Make and Model	Delco R 59	Delco R 59 S (c)	
	Voltage Rtg. & Total Plates	12 - 66	12 - 78	
	SAE Designation & Amp. Hr. Rtg.	2 SM - 61 Amp. Hr.	62 AH	
	Location	Under Hood - L.H. Side		
	Terminal grounded	Negative		
Generator or Alternator	Make	Delco Remy		
	Model	1100704 (a)		
	Type and rating	37 Amp (b)		
	Output at engine idle (neutral)	5-10 AMPS		
	Ratio-Gen. to Cr. s rev.	2.74:1 (3.02:1 With A/C)		
Regulator	Make	Delco Remy		
	Model	1119515 (c)		
	Type	Regulating Contacts		
	Cutout relay	Closing voltage generator rpm	Cutout Relay Not Required	
		Reverse current to open	Cutout Relay Not Required	
	Regulated	Voltage	13.8	
		Current	Alternator Self Regulating	
	Voltage test conditions	Temperature	125° F.	
		Load	10 Amps.	
Other		Cycle Regulator Before Final Setting		

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make	Delco Remy		
	Model	1108435		
	Rotation (drive end view)	Clockwise		
Motor control	Switch (solenoid, manual)	Solenoid		
	Starting procedure	Place gearshift lever in neutral and depress clutch.* With cold engine, depress accelerator pedal to floor and release. With warm engine, hold accelerator pedal about halfway down, turn ignition key clockwise to engage starter, release key as soon as engine starts. *Use neutral or park with automatic transmission (No clutch).		
Motor Drive	Engagement type	Sliding Gear - Overrunning Clutch		
	Pinion meshes (front, rear)	Front		
	Number of teeth	Pinion	9	
		Flywheel	Manual	166
	Flywheel tooth face width		Auto.	166
		Manual	40	
Auto.	40			

- (a) 1100700 (55 AMP.) With A/C.
 (b) Diode Rectified, 3-Phase Alternating Current.
 (c) Delco Side Terminal, 90 Plate, 70 AMP. Hr. Battery Available As Heavy Duty Option With Optional 455 V8 Engine.

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ELECTRICAL – IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.		Standard			
	Transistorized - Std., Opt., N.A.		Not Offered			
	Other (specify)		---			
Coil	Make		Delco Remy			
	Model		1115410			
	Amps	Engine stopped	3.4			
		Engine idling	2.1			
Distributor	Make		Delco Remy			
	Model		1111176 (b)	1111148 (c)	1112007 (d)	1112012 (e)
	Centrifugal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	1100	800	800	800
		Intermediate points deg. @ rpm	10-14 @ 1900	10-14 @ 1900	10-14 @ 1900	None
		Max. deg. @ rpm	24-28 @ 4700	24-28 @ 4600	24-28 @ 4600	14-18 @ 4400
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	8-10			
		Intermediate points, deg. @ in. Hg.	None			
		Max. deg. in. Hg.	20° @ 15-17			
	Breaker gap (in.)		.016			
	Cam angle (deg.)		28-32			
	Breaker arm tension (oz.)		28-32	19-23	28-32	
Timing	Crankshaft deg. @ rpm		9° BTDC			
	Mark location		Crankshaft Pulley Hub			
Spark Plug	Make		AC			
	Model		R45S (a)			
	Thread (mm)		14 mm			
	Tightening torque (lb. ft.)		15-25			
	Gap		.033 - .038			
Cable	Conductor type		Distributed Resistance			
	Insulation type		Neoprene			
	Spark plug protector		Hypalon Boot			

ELECTRICAL – SUPPRESSION

Locations & type See Below

Internal distributor point shielding, wide gap distributor rotor, resistor spark plugs (5000 OHMS), distributed resistance secondary cables, hood ground clip and 0.3 MFD ignition coil by-pass capacitor.

- (a) R46S on optional 400 2-bbl., R44S on optional 455 engine.
- (b) Used on 400 cu. in. premium fuel engine with manual transmission.
- (c) Used on 400 cu. in. premium fuel engine with Turbo Hydra-Matic.
- (d) Used on 400 cu. in. regular fuel engine option.
- (e) Used on 455 cu. in. engines.

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ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Mechanical
	Trip odometer (yes,no)	No
Charge indicator – type		Telltale Lamp
Temperature indicator – type		Telltale Lamp
Oil pressure indicator – type		Telltale Lamp
Fuel indicator – type		Electric Gage
Other		Optional Instrument Cluster Has Temperature And Oil Pressure Telltales Replaced With Gages
Windshield wiper	Type – Standard	2-Sp. Electric, Concealed Park, L.H. Arm Articulated (a)
	Type – Optional	None
Windshield washer	Type – Standard	Electric – Pump Is Integral With Wiper Motor
	Type – Optional	None
Horn	Type	Solenoid
	Number used	2 Std.
	Amp draw (each)	4.3 – 5.9@ 12.5V

DRIVE UNITS – CLUTCH (Manual Transmission)		400 Cu.In. V8	455 Cu.In. V8
Make & type		Own – Dry	
Type pressure plate springs		Disc Spring	
Total spring load (lb.)		2350	2450
No. of clutch driven discs		One	
Clutch facing	Material	Woven Molded Asbestor	
	Outside & inside dia.	10.4 x 6.5	11.0 x 6.5
	Total eff. area (sq.in.)	85.56	104.01
	Thickness	.140	.135
	Engagement cushioning method	Driven Plate Waved Spoke Springs	
Release bearing	Type & method of lubrication	Ball Thrust – Prepacked & Sealed	
Torsional damping	Methods: springs, friction material	Coil Springs-Metal To Metal Friction	Coil Springs-Metal To Plastic Friction

(a) Pulse Wiper Feature Is Actuated by Depressing The "Wash" Button To The Detent. Wiper will continue to operate until the button is released.

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DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Std.
Manual 4-speed (std. or opt.)	Opt.
Manual with overdrive (std. or opt.)	Not Offered
Automatic (std. or opt.)	Opt.

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3 Speed	4 Speed (a)
Transmission ratios	In first	2.42:1	2.52:1
	In second	1.58:1	1.88:1
	In third	1.00:1	1.46:1
	In fourth	--	1.00:1
	In reverse	2.41:1	2.59:1
Synchromous meshing, specify gears		All Forward	
Shift lever location		Floor	
Lubricant	Capacity (pt.)	2.8	2.5
	Type recommended	Type A - Extreme Pressure	
	SAE viscosity number	80 or 90	
	Summer	80 or 90	
	Winter	80 or 90	
	Extreme cold	80 or 90	

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)		Not Offered
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
		Extreme cold

- (a) Special order close ratio transmission (2.20:1, 1.64:1, 1.28:1, 1.00:1 and 2.27:1 R) available with 455 V8 engine and limited slip differential only.

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DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Turbo Hydra-Matic					
Type describe	Torque Converter					
Selector location	Floor Console					
List gear ratios Selector Pattern and indicate which are used in each selector position	P	R	N	D	S	L
	Park	2.08	Neutral	2.48	2.48	2.48
				1.48	1.48	
				1.00		
	400 2-Bbl.	400 4-Bbl		455 4-Bbl		
Max. upshift speed—drive range	84	83		81		
Max. kickdown speed—drive range	78	77		75		
Torque converter	Three					
Number of elements	2.05:1					
Max. ratio at stall	2.30:1					
Type of cooling (air, liquid)	Liquid					
Nominal diameter	12.5					
Lubricant	7.5					
Capacity—refill (pt.)	GM Dexron Automatic Transmission Fluid					
Type recommended	(a)					
Special transmission features						

DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.25 x 56.0 x .065
	Manual 4-speed trans.	3.25 x 56.0 x .065
	Overdrive transmission	Not Offered
	Automatic transmission	3.25 x 55.34 x .065

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

(Continued)

- (a) Rally Sports Shifter provides conventional shifting with lever in normal (L.H.) path. Manual speed shift stops locate second and third gear lever positions when the lever is deflected to the right hand path.

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DRIVE UNITS — PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		Not Used
	Lubrication (fitting, prepack)		Not Used
Spline Yoke	Type		Splined
	Number of teeth		28
	Spline O.D.		1.166
Universal joints	Make and Mfg. No.		Saginaw - Size 44 (Regular)
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		U - Bolt
	Bearing	Type (plain, anti-friction)	Anti-Friction
		Lubric. (fitting, prepack)	Prepacked
Drive taken through (torque tube or arms, springs)			Control Arms
Torque taken through (torque tube or arms, springs)			Control Arms

DRIVE UNITS — AXLE

Type (front, rear)		Rear
Description		Semifloating Hypoid
Limited Slip differential, type		Spring Loaded Clutch (Opt.)
Drive Pinion Offset		1.50
No. of differential pinions		2
Pinion adjustment (shim, other)		Shim
Pinion bearing adj. (shim, other)		Collapsible Spacer
Wheel bearing type		Roller
Lubricant	Capacity (pt.)	3 W/8.125 Dia. Gear- 5 W/8.875 Dia. Gear
	Type recommended	MIL-L-2105B (a)
	SAE viscosity number	Summer 80 or 90
		Winter 80 or 90
		Extreme cold 80 or 90

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.78:1	2.93:1	3.23:1	3.55:1	3.07:1	3.31:1
No. of teeth	Pinion	14	14	13	11	14	13
	Ring gear	39	41	42	39	43	13
Ring Gear O.D.		8.125	8.125	8.125 (b)	8.875	8.875	8.875

(a) Special lubricant required with limited slip differential.

(b) 8.875 dia. with 455 cu. in. engine opt. - 8.125 dia. with 400 cu. in. engines.

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DRIVE UNITS—WHEELS

Type & material		Disc - Steel
Rim (size & flange type)	Std.	14 x 7 JJ
	Opt.	
Attachment	Type (bolt or stud)	Bolt
	Circle diameter	4.75
	Number and size	5, 7/16 - 20

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DRIVE UNITS—TIRES

Standard	Size, ply rating, & ply	G 78-14 (a)
	Type (bias, radial, etc.)	Bias - Belted
	Full rated Inflation Press.	24
	Front	28
	Rear	775
	Rev./Mile at 50 MPH	
Optional	Size, ply rating, & ply	G 78-14 Load Range D, 6 Ply Tread - 4 Ply Body (b)
		F 78-14 (c)

BRAKES—PARKING

Type of control		Foot Lever Application - Hand Pull Release
Location of control		Below Instrument Panel at Left
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	Not Separate
	Drum diameter	Not Separate
	Lining size (length x width x thickness)	Not Separate

- (a) Load Range B, 4 Ply Tread - 2 Ply Body
 (b) With Trailer Provision Option Only
 (c) Space Saver Spare, Load Range B, 3 Ply Tread - 2 Ply Body

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BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Disc Front - Single Piston, Drum Rear	
Self adjusting (std., opt., N.A.)		Standard	
Special Valving	Type (proportion, delay, metering, other)	Metering Type Delay	
Power brake make & type (remote, int., etc.)	Std. Opt.	Delco-Moraine, Integral Type - Vacuum Suspended	
Effective area (sq. in.) *		103.6	
Gross lining area (sq. in.) **		110.6	
Swept area (sq. in.) ***		350.9	
Front to Rear Effectiveness Relationship		62.6	
Drum	Diameter (nominal)	Front	--
		Rear	9.5
	Type and material	Finned Composite - Cast Alloy Iron	
Rotor	Outer working diameter		10.94
	Inner working diameter		6.88
	Working width		1.00
	Material & type (vented/solid)		Cast Alloy Iron - Vented
Wheel cylinder bore	Front	2.9375	
	Rear	.875	
Master Cylinder	Bore		1.125
	displacement	Front	63
	distribution	Rear	37
	Pedal arc ratio		3.36:1
Line pressure at 100 lb. pedal load		800	
Shoe Clearance	Front	None	
	Rear	Tighten to Heavy Drag Then Back Off 26 Notches	
Brake lining	Bonded or riveted		Riveted
	Front Wheel	Material	
		Molded Asbestos	
		Size (length x width x thickness)	5.40 x 1.93 x .41
		Prim. or out-board	--
		Second. or in-board	5.40 x 1.93 x .44
		Segments per shoe	One
	Rear Wheel	Material	
		Molded Asbestos	
		Size (length x width x thickness)	7.6 x 2.0 x .196
		Prim. or out-board	--
		Second. or in-board	9.85 x 2.0 x .265
		Segments per shoe	One

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

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

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STEERING

Manual (std., opt., NA)			Standard		
Power (std., opt., NA)			Optional		
Adjustable steering wheel (tilt, swing, other)		Type and description (std., opt., NA)	Tilting Wheel-Adjusts Vertically-Seven Positions		
Wheel diameter		Manual	Optional		
		Power	14.75 x 15.25		
			14.75 x 15.25		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	42.4		
		Curb to curb (l. & r.)	39.3		
	Inside rear	Wall to wall (l. & r.)	21.7		
		Curb to curb (l. & r.)	22.3		
Manual	Gear	Type	Recirculating Ball Bearing		
		Make	Saginaw Steering Gear		
		Ratios	Gear	24.1	
			Overall	26.4	
	No. wheel turns (stop to stop)		5.6		
Power	Type (coaxial, linkage, etc.)		Coaxial		
	Make		Saginaw Steering Gear		
	Gear	Type	Recirculating Ball Bearing		
		Ratios	Gear	16.0:1- 12.4:1 (Variable Ratio)	
			Overall	17.1:1- 13.6:1 (Variable Ratio)	
	Pump driven by		Belt from Crankshaft		
	No. wheel turns (stop to stop)		2.9		
Linkage	Type		Link Parallelogram		
	Location (front or rear of wheels, other)		Front of Wheels		
	Drag link (trans. or longit.)		Trans.Strg.Rod Connects Tie Rods,Pitman&Idler Arms		
	Tie rods (one or two)		Two		
Steering Axis	Inclination at camber (deg.)		9° 0' @ 0° Camber		
	Bearings (type)	Upper	Ball Joint		
		Lower	Ball Joint		
		Thrust	Spring Load Taken by Lower Ball Joint		
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		1°30' Negative + 30'		
	Camber (deg.)		0°15' Positive + 30'		
	Toe-in (outside track inches)		0 to .125 Toe-In Measured 9 Inches Above Floor		
Steering spindle & joint type			Reverse Elliott - Ball Joint		
Wheel Spindle	Diameter	Inner bearing	1.249		
		Outer bearing	.749		
	Thread size		3/4 - 20		
	Bearing type		Taper Roller		

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SUSPENSION — GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Opt. Superlift Shock Absorbers with Auto. Control	
Provision for brake dip control	Compound Anti-Dive Control and Anti-Rise Rear	
Provision for acc. squat control	Suspension Geometry of Rear Links	
Special provisions for car jacking	Jack Locating Provisions on Front and Rear Bumpers	
Shock absorber front & rear	Type	Direct Acting - Two Way
	Make	Delco
	Piston dia	1.00
Other special features		

SUSPENSION — FRONT

Type and description	Ball joint independent front suspension with upper and lower control arms mounted on rubber bushings.	
Spring	Type	Coil
	Material	SAE 9260
	Size (coil design height & I.D., bar length x dia.)	11.30 x 3.6
	Spring rate (lb. per in.)	280 Std. - 310 Opt.
	Rate at wheel (lb. per in.)	82 Std. - 91 Opt.
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE 9260, 1.00 Std. - 1.032 Opt.

SUSPENSION — REAR

Type and description	Four Link Pivoted Control Arm	
Drive and torque taken through	Control Arms	
Spring	Type	Coil
	Material	SAE 9260
	Size (length x width, coil design height & I.D., bar length & dia.)	7.76 & 5.50
	Spring rate (lb. per in.)	144 Std. - 160 Opt.
	Rate at wheel (lb. per in.)	125 Std. - 139 Opt.
	Mounting insulation type	None
	If leaf	No. of leaves
Stabilizer	Shackle (comp. or tens.)	None
	Type (link, linkless, frameless)	Not Used
	Material	None
Track bar type	Not Used	

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CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

Power windows	Side windows	Optional
	Vent windows	No Vent Windows
	Backlight or tailgate	Not Offered
Power seats (specify type as well as availability)	Power Tilt Seat (fore and aft plus elevation at rear edge) on L.H. Bucket Seat - Optional	
Reclining front seat back (R, L or both)	Optional on R.H. Front	
Front seat head restrainer (R, L or both)	Standard on Both	
Radios (specify type as well as availability)	Optional: AM, AM-FM, AM-FM Stereo - All Push Button Type	
Rear seat speaker	Optional	
Power antenna	Not Offered - Windshield Antenna Standard	
Clock	Standard	
Air conditioner (specify type and availability)	Option A: Reheat Cycle with Manual Control Option B: Reheat Cycle with Automatic Temp. Control	
Speed warning device	Safeguard Speedometer - Optional	
Speed control device	Optional on Cars with Turbo Hydra-Matic Transmission	
Ignition lock lamp	Not Offered	
Dome lamp	Standard(a)	
Glove compartment lamp	Standard in Std. Console or Opt. Inst. Panel Compartment	
Luggage compartment lamp	Standard	
Underhood & Utility Lamp	Optional	
Courtesy lamp	Standard(b)	
Map lamp	Not Offered	
Auto. trans. quad. lamp	Standard	
Cornering light lamp	Optional	
Auxiliary Gage Unit Opt.	Gages Replace Telltale Lamps for Temperature and Oil Pressure	
Low Fuel Warning Lamp	Optional - Included with Safeguard Speedometer	
Tachometer	Optional - Hood Mounted or in Rally Gage Cluster	
Power Operated Dr. Locks	Optional	
Lighter & Ash Tray Light	Standard	
Power Trunk Lid Release	Optional	
Elec. Heated Backlight	Optional	

LAMP HEIGHT AND SPACING

Curb Load	Headlamp	Highest	26.3
		Lowest	26.3
	Tail	Highest	23.4
		Lowest	23.4
	Sidemarker	Front	26.8
		Rear	30.7
Distance from C. L. of car to center of bulb	Headlamp	Inside	16.9
		Outside	25.6
	Tail	Inside	15.1
		Outside	26.5
	Directional	Front	33.1
		Rear	Same as Tail Lamp

* If single headlamps are used enter here.

(a) Dome and reading lamp optional.

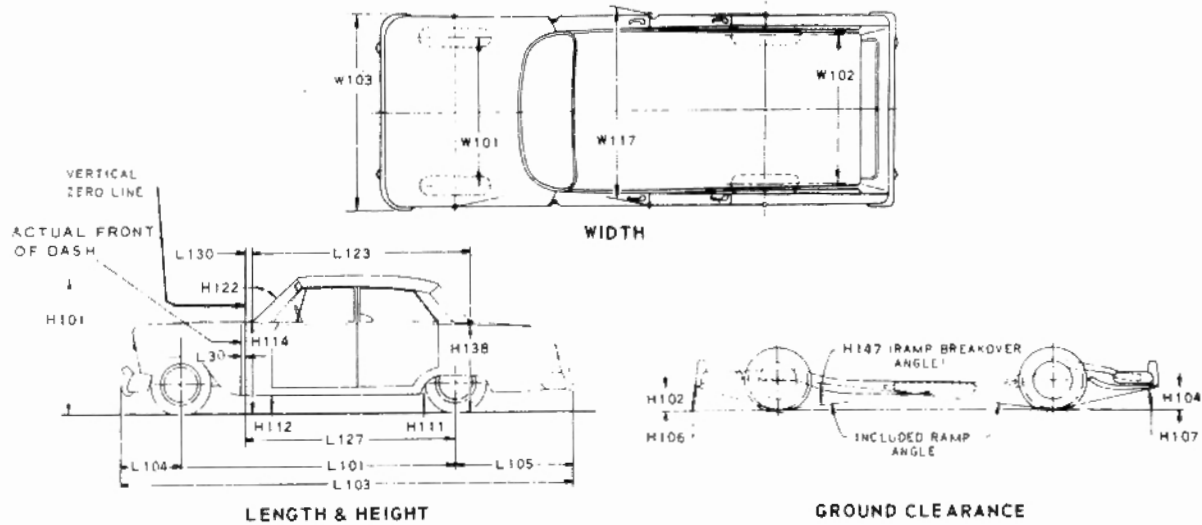
(b) Door mounted courtesy lamps optional.

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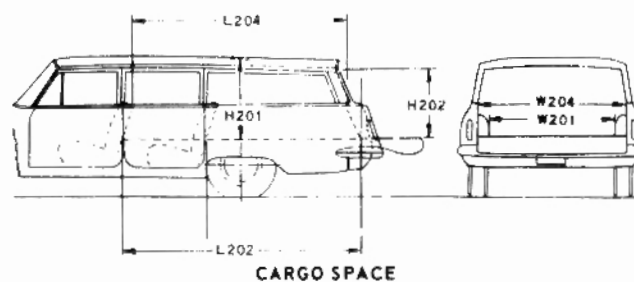
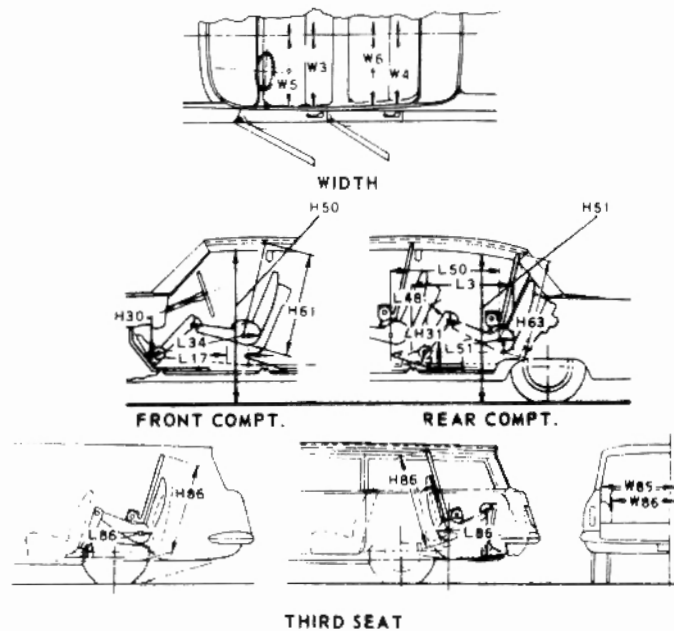
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



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CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
 W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
 W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
 W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
 L101 WHEELBASE.
 L103 OVERALL LENGTH. Include bumper guards if standard equipment.
 L104 OVERHANG - FRONT. Measured from C.L. of front wheels to front of car, including bumper guards if standard equipment.
 L105 OVERHANG - REAR. Measured from C.L. of rear wheels to rear of car, including bumper guards if standard equipment.
 L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
 L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
 L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
 H114 COWL POINT TO GROUND. Measured at vehicle centerline.
 H138 DECK POINT TO GROUND. Measured at vehicle centerline.
 H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
 H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
 H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
 H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
 H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
 H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, rail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
 H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
 H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8" to rear of vertical.
 L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
 H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
 L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
 W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
 H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
 H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8" to rear of vertical.
 L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
 H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
 L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
 L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
 W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
 W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
 H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
 H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
 W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
 L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
 H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8" to rear of vertical.

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
 L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
 W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheel housings at floor level.
 W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
 H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
 H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail and liftgates fully open.
 V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

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AMA Specifications—Passenger Car

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