

# AMA Specifications – Passenger Car

Data prepared and distributed by American automobile manufacturers, using uniform questionnaire form developed by car manufacturers under auspices of the Automobile Manufacturers Association.

<b>MAKE OF CAR</b>	DODGE (POLICE SPECIAL)	<b>MODEL YEAR</b>	1959	<b>DATE: ISSUED</b>	NOV. 1958	<b>REVISED</b>
<b>COMPANY</b>	DODGE DIVISION, CHRYSLER CORPORATION, DETROIT 31, MICHIGAN					
<b>MODEL NAME</b>	<u>SYMBOL</u>	<b>MODEL NAME</b>	<u>SYMBOL</u>			
		CORONET POLICE SPECIAL	MD2 D500			

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### NOTES:

1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice. UNLESS OTHERWISE INDICATED:
2. All specifications are standard for the models under which they are listed.
3. Specifications apply basically to 4-door sedan or equivalent. Body dimensions shown on pages 19-24 include other body models available.
4. All dimensions are nominal engineering dimensions.

## GENERAL SPECIFICATIONS

MODEL	Additional Information Page No.:	MD2 D500 Police Special 2-Door Sedan
Wheelbase (L-101)	22	122.0
Tread	Front (W-101)	60.9
	Rear (W-102)	59.8
Maximum Overall Dimensions	Length (L-103)	217.4
	Width (W-103)	80.0
	Height (H-101)	58.7
Transmission— (Specify trade name - opt., not available)	Manual	Not Available
	Overdrive	Not Available
	Automatic	TorqueFlite Standard
Axle ratio	Manual	- - -
	Overdrive	- - -
	Automatic	3.31
Tire size	15	7.60 x 15
Engine	Type, no. cyl., valve arr.	90° V-8, Overhead In-Line Valves
	Fuel system (Carb. or inj.)	Carburetor
	Bore and stroke	4.25 x 3.38
	Piston displ., cu. in.	383
	Std. compression ratio	10.0 to 1
	Max. bhp at engine rpm	320 at 4600
	Max. torque at rpm	420 at 2800

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## ENGINE—GENERAL

Type, no. cyls., valve arr.		90° V-8, Overhead In-Line Valves
Bore and stroke		4.25 x 3.38
Piston displacement, cu. in.		383
Bore spacing (C/L to C/L)		4.80
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)	Standard	10.0 to 1
	Optional	None
Cylinder Head Material	Standard	Cast Iron
	Optional	None
Cylinder Sleeve - Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	One
Taxable Dia. <sup>2</sup> x No. Cyl. horsepower 2.5		57.8
Published max. bhp at engine RPM*	Standard	320 at 4600
	Optional	- - -
Published max. torque* (lb. ft. @ RPM)	Standard	420 at 2800
	Optional	- - -
Recommended fuel regular - premium	Standard	Premium
	Optional	- - -
Recommended idle speed (neutral)		450 to 500

## ENGINE—PISTONS

Material	Aluminum Alloy
Description and finish	Slipper-Type, Thermally-Controlled by Steel Struts, Elliptically Turned, Tin-Plated
Weight (piston only) oz.	27.2

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

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## ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.042 - .047
	Skirt	Top	.0005 - .0010
		Bottom	- - -
Ring groove depth	No. 1 ring		.21
	No. 2 ring		.21
	No. 3 ring		.20
	No. 4 ring		- - -

## 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.		- - -
Compression	Description - material, type, coating, etc.		Cast Iron, Standard Taper, Standard Twist, Tin-Plated
	Width		.078
	Gap		.013 - .025
Oil	Description - material, type, coating, etc.		Cast Iron, Single Piece Unit
	Width		.186
	Gap		.013 - .025
Expanders		Hump-Type, Standard Tension	

## ENGINE—PISTON PINS

Material		High Manganese Steel	
Length		3.56	
Diameter		1.093	
Type	Locked in rod, in piston, floating, etc.		Press-Fit in Rod
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston		.00015 - .00065
	In rod		.0007 - .0012 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
	Overall length		.927
	Clearance (limits)		.0005 - .0015
	End play		.009 - .017 (2-Rods)

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## ENGINE—CRANKSHAFT

Material		Drop-Forged Steel	
Vibration damper type		Non-Adhesion Rubber-Dynamic	
End thrust taken by bearing (No.)		#3 - Center	
Crankshaft end play		.002 - .007	
Main bearing	Material & type	Lead-Base Babbitt on Steel	
	Clearance	.0005 - .0015	
	Journal dia. and bearing overall length	No. 1	2.63 x .91
		No. 2	2.63 x .91
		No. 3	2.63 x .94
		No. 4	2.63 x .91
		No. 5	2.63 x .91
		No. 6	None
No. 7		None	
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.38	

## ENGINE—CAMSHAFT

Location		Center of "V", Above Crankshaft	
Material		Hardenable Cast Iron, with Cams and Drive Gear for Distributor and Oil Pump 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
Special provision for valve rotation (intake, exhaust)		Low-Friction Lock on Exhaust
Rocker ratio		1.50 to 1
Operating tappet clearance (indicate hot or cold)	Intake	Not Applicable
	Exhaust	Not Applicable
Timing marks on fly-wheel, damper, other		Stationary Indicator

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## ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	20	
		Closes (°ABC)	60	
		Duration - deg.	260	
	Exhaust	Opens (°BBC)	58	
		Closes (°ATC)	22	
		Duration - deg.	260	
Valve opening overlap		42		
Intake	Material		Silicon-Chromium Steel	
	Overall length		4.79	
	Actual overall head dia.		2.08	
	Angle of seat		45°	
	Seat insert material		MS 3115	
	Stem diameter		.37	
	Stem to guide clearance		.001 - .003	
	Lift		.390	
	Outer spring press. and length	Valve closed (lb. @ in.)	100 at 1.86	
		Valve open (lb. @ in.)	195 at 1.47	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		MS 3262
		Overall length		4.79
Actual overall head dia.		1.60		
Angle of seat		45°		
Seat insert material		None		
Stem diameter		.37		
Stem to guide clearance		.002 - .004		
Lift		.390		
Outer spring press. and length		Valve closed (lb. @ in.)	100 at 1.86	
		Valve open (lb. @ in.)	195 at 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	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Metered Flow
	Cylinder walls	Metered Jet Spray

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## ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Rotary
Normal oil pressure (lb. @ engine rpm)	45 - 65 at 2000
Oil pressure sending unit (elect. or mech.)	Mechanical
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Complete, Screw-on
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)	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two, Reverse Flow
Exhaust pipe dia. (O.D., wall thickness)	Branch
	Main
Tail pipe diameter (O.D. & wall thickness)	2.25
	2.0

## 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
Fuel Pump	Filler location
	Left Rear Fender
	Type (elec. or mech.)
Vacuum booster (std., optional, none)	Mechanical
	Locations
Fuel Filter	Right Front of Engine. Lower
	Pressure range
Carburetor	6 - 7 psi
	None
	Type
	Plastic and Ceramic
	Locations
	Fuel Tank and Fuel Pump
	Make & Model No.
Carter AFB 2854S	
Number & Type	
One, 4-bbl	
Barrel size	
Primary - 1.44, Secondary - 1.56	
Choke type	
Remote, In Manifold Crossover	
Intake manifold heat control (exhaust or water)	
Exhaust	
Air clnr. type	Standard
	Paper Element
Optional	
	None

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## ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)		Pressure-Vent	
Radiator cap relief valve pressure		14 psi	
Circulation thermostat	Type (choke, bypass)	Choke, Pellet	
	Starts to open at (°F)	177 - 182	
Water pump	Type (centrifugal, other)	Centrifugal	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Sealed Ball Bearing	
By-pass recirculation type (Internal, external)		Internal	
Radiator core type (cellular, tube and fin, other)		Cellular-Tubular or Fin-and-Tube	
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	1.5
	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°
	Diameter		16
	Ratio-fan to crankshaft rev.		1.03 : 1
	Fan cutout type		None
	Bearing type		See "Water Pump"
*Drive belts (indicate belt used by letter)	Fan		See Below (a)
	Generator		See Below
	Water Pump		See Below (a)
	Power Steering		None
	Air Conditioning		None

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* Drive Belt Dimensions	With Standard Generator	With Field Installed Alternator
Angle of V	38° - 42°	
Nominal length (SAE)	56.5	58.06 (Dual Belts)
Width	.375	

(a) Fan/Water Pump has a double pulley as provision for replacement of Standard Generator with a 50 or 60-amp Field-Installed Alternator.

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## ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Auto-Lite 12-H-70 or Willard HO-12-70		
	Voltage Rtg. & Total Plates	12, 78		
	SAE Designation & Amp Hr. Rtg	3SHA, 70		
	Location	Under Hood in Left Fender Shield		
	Terminal grounded	Negative		
Generator	Make	Auto-Lite (a)		
	Model	GHM-8004B		
	Type	Shunt Wound		
	Ratio—Gen. to Cr/s rev.	2.12		
	Gen. cut-in—engine rpm	470		
Regulator	Make	Auto-Lite		
	Model	VRX-6201A		
	Type	Current and Voltage Control		
	Cutout relay	Closing voltage @ generator rpm	12.6 - 13.6 at 1040	
		Reverse current to open	0 - 6	
	Regulated	Voltage	12	
		Current	30	
	Voltage test conditions	Temperature	70 F	
Load		15 Min 7 amp - Voltage Check		
Other		Additional 15 Min at Rated Volts - Current Check		

## ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Auto-Lite		
	Model	MDT-6001		
	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	58	
		Volts	11	
RPM (min.)		3800		
Motor control	Switch (solenoid, manual)	Bendix (Anti-Kickout)		
	Starting procedure	Depress Accelerator one-third, Push in "N" Neutral Button, and Turn Ignition Key Beyond the "ON" Position.		

(a) Crankshaft and fan have double pulleys, as provision for replacement of the standard generator with a double belt-driven 50 or 60 amp alternator.



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## ELECTRICAL—STARTING SYSTEM (cont.)

Motor drive	Engagement type		Inertia, Follow-Through Drive
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	172
Flywheel tooth face width		.375	

## ELECTRICAL—IGNITION SYSTEM

Coil	Make		Auto-Lite
	Model		CAH-4001
	Amps	Engine stopped	3.1
Engine idling		2.5	
Distributor	Make		Auto-Lite
	Model		IBS-4006C
	Centrifugal adv. in crankshaft degrees @ engine rpm	Start (rpm)	0 at 720 - 1050
		Intermediate points deg. @ rpm	0 - 5.7 at 1050 11.2 to 15.0 at 1650
		Max deg. @ rpm	17 - 21 at 4000
	Vacuum adv. in crankshaft degrees @ in. Hg.	Start (in. Hg)	0 at 7.5 - 8.2
		Intermediate points, deg. @ in. Hg.	11.6 - 14.0 at 14
		Max. deg. in. Hg.	23 - 29 at 18.2
	Breaker gap (in.)		.015 - .018
	Cam angle (deg.)		36 - 40 Total (Double-Breaker)
Breaker arm tension (oz.)		17 - 20	
Timing	Crankshaft deg. @ rpm.		10 BTC at 500
	Mark location		On Stationary Indicator
	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		Auto-Lite A-32
	Thread (mm)		14-mm
	Tightening torque (lb. ft.)		30 - 32
	Gap		.035
Cable	Conductor type		Resistor
	Insulation type		Rubber with Neoprene jacket
	Spark plug protector		Neoprene

## ELECTRICAL—SUPPRESSION

Description	Resistance-Type Spark Plug Leads and Built-In Resistor In Distributor. Condenser on Regulator, Coil, and Fuel Gauge
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## ELECTRICAL—INSTRUMENTS AND SWITCHES

<b>Speed-ometer</b>	<b>Make</b> <b>Trip odometer (yes, no)</b>	<b>Stewart-Warner (Calibrated and Certified)</b> No
	<b>Charge indicator-type</b>	<b>Ammeter</b>
	<b>Temperature indicator-type</b>	<b>Electric, Magnetic</b>
	<b>Oil pressure indicator-type</b>	<b>Bourdon Tube</b>
	<b>Fuel indicator-type</b>	<b>Electric, Thermal</b>
	<b>Other</b>	<b>None</b>
<b>Ignition switch</b>	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	<b>Yes</b>
	Location	<b>Right of Steering Column</b>
<b>Main lighting switch</b>	Identify positions and lights controlled	Counterclockwise Position . . . . . Off 1st Position Clockwise . . . . . Instrument, Tail, License Plate, and Parking Lamps 2nd Position Clockwise . . . . . Instruments, Head, Tail, and License Plate Lamps
<b>Other light switches</b>	Locations and lamps controlled	Instrument Lamp Switch: Concentric with Headlamp Switch, Variable all Instruments; Stop Lamp Switch: In Master Cylinder; Dome Lamp: Manual Switch Integral in Lamp; Automatic Switch: Both Front Doors; Direction Signal Switch: Lever on Steering Column
<b>Other switches</b>	Locations and devices controlled	Windshield Wiper Switch: <span style="float: right;">Right of Steering Column</span> <span style="float: right;">Variable Speed</span> Heater Control: . . . . . Two-Speed by Push Buttons, Right of Steering Column Defroster: . . . . . Push Button, Right of Steering Column Air Vent: . . . . . Push Button, Right of Steering Column
<b>Windshield wiper</b>	<b>Make</b>	<b>Auto-Lite or General Industries</b>
	<b>Type</b>	<b>Electric</b>
	<b>Vacuum booster provision</b>	<b>None</b>
	<b>Washer provision</b>	<b>Standard</b>
<b>Horn</b>	<b>Type</b>	<b>Sea Shell</b>
	<b>Number used</b>	<b>2</b>
	<b>Amp draw (each)</b>	<b>9 - 10</b>

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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, Horizontal; 2-4001, 2-4002
Headlamp beam Indicator	1-57
Parking light	2-1034 (a)
Tail light	2-1034 (b)
Stop light	2-1034 (b)
Direction signal	Front 2-1034 (a)
	Rear 2-1034 (b)
	Indicator 2-57
License plate light	1-67
Instrument light	2-57
Ignition lock light	None
Back up light	2-1073*
Dome light	1-1004
Clock light	None
Radio light	None
Glove compartment light	1-57*
Speedometer	3-57
Transmission Control	1-57*
Handbrake Indicator	1-90*
Map Light	1-90*

## 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	Same as (a)
Tail light	15 CB (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	None
Dome light	Same as (b)
Clock	None
Clock light	None
Radio	None
Glove compartment light	Same as (b)
Map Light	Same as (b)
Windshield Wiper	6 CB (Variable Speed)
Defroster and Heater	SFE-20

- (a) Each of these is part of an integral light unit.
- (b) Each of these is part of an integral light unit.

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## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Not Applicable	
Type pressure plate springs	- - -	
Total plate pressure (lb.)	- - -	
No. of clutch driven discs	- - -	
Clutch facing	Material	- - -
	Outside & inside dia.	- - -
	Total eff. area (sq.in.)	- - -
	Thickness	- - -
	Engagement cushioning method	- - -
Release bearing	Type & method of lubrication	- - -
Torsional damping	Methods: springs, friction material	- - -

## DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Not Available
Manual with overdrive (std. or opt.)	Not Available
Automatic (std. or opt.)	TorqueFlite Standard, High Temperature Seals and a High Speed Governor

## DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	Not Available		
Transmission ratios	In first	- - -	
	In second	- - -	
	In third	- - -	
	In fourth	- - -	
	In reverse	- - -	
Synchronous meshing, specify gears			
Lubricant	Capacity (pt.)	- - -	
	Type recommended	- - -	
	SAE viscosity number	Summer	- - -
		Winter	- - -
		Extreme cold	- - -

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## DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		- - -
	Manual lockout (yes, no)		- - -
	Downshift accelerator control (yes, no)		- - -
	Minimum cut-in speed		- - -
	Gear ratio		- - -
Lu- bri- cant	Capacity (Overdrive only)		- - -
	Separate filler (yes, no)		- - -
	Type recommended		- - -
	SAE vis- cosity number	Summer	- - -
		Winter	- - -
Ext. cold		- - -	

## DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	TorqueFlite	
Type describe	Torque Converter with Gears	
Method of Selection (Lever, Push Button or other)	Pushbutton	
Selector Pattern	R    N    D 1    2	
List gear ratios Selector Pattern and indicate which are used in each selector position	R: Reverse . . . . . 2.20 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	74 - 78 mph	
Max. kickdown speeds—drive range	70 - 75 mph	
Torque convertor	Number of elements	Three
	Max. ratio at stall at engine rpm	2.2 at 1840
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	21
	Type recommended	Automatic Transmission Fluid - Type A
Special transmission features	Spring-Loaded Hydraulic Valve to Prevent Accidental Reverse Engagement	

# AMA Specifications – Passenger Car

**MAKE OF CAR** DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** NOV. 1958 **REVISED** \_\_\_\_\_  
**MODEL** \_\_\_\_\_ MD2 D500 Police Special

## DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Manual transmission	Not Applicable
	Overdrive transmission	Not Applicable
	Automatic transmission	3.25 x 58.96 x .065
Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	- - -
Universal joints	Make	Own (Detroit)
	Number used	Two
	Type (ball and trunnion, cross, other)	Front: Ball and Trunnion Rear: Cross
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Front: Clean and Repack Rear: 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)		Semi-Floating, Hypoid, 2-Pinion Differential with Single-Piece Case	
Drive Pinion Offset		1.5	
No. of differential pinions		2	
Gear ratio and No. of teeth	Automatic transmission	3.31 (43-13)	
	Overdrive trans.	Not Applicable	
	Manual transmission	Not Applicable	
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.)	3.5	
	Type recommended	Multi-Purpose Gear Lubricant, API Classification GL-4	
	SAE viscosity number	Summer	SAE 90: Above - 10 F
		Winter	SAE 80: Below - 10 F
		Extreme cold	SAE 75: Below - 30 F

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

# AMA Specifications – Passenger Car

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MODEL \_\_\_\_\_ MD2 D500 Police Special

## DRIVE UNITS—WHEELS

Type & material		Disc, Pressed Steel
Rim (size and flange type)		15 x 6K
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.5
	Number and size	Five, 1/2-20 N.F.

## DRIVE UNITS—TIRES

Standard	Size & ply	Blue Streak, 7.60 x 15 6-Ply Nylon, Black Sidewall	
	Type - Nylon, etc.	Nylon	
	Sidewall color	Black	
Optional	Size & ply	None	
	Type - Nylon, etc.	- - -	
	Sidewall color	- - -	
Rev./mile at 30 mph		715	
Inflation press.(cold)	Front	24 psi	
	Rear	24 psi	

## BRAKES—SERVICE

Type				Hydraulic, Internal Expanding, Calculated-Contour Variable-Depth Web, "Total-Contact" Brake Shoes		
Power brake type				None		
Effective area (sq. in.)				251		
Gross lining area (sq. in.)				251		
Percent brake effectiveness-front				60		
Drum	Diameter	Front	12			
		Rear	12			
Type and material		Composite				
Bonded or riveted		Bonded				
Brake lining	Front Shoe	Material	Molded Asbestos			
		Size (length x width x thickness)	Front wheel	12.6 x 2.5 x 0.20		
			Rear wheel	12.6 x 2.5 x 0.20		
	Segments per shoe	One				
	Rear Shoe	Material	Molded Asbestos			
		Size (length x width x thickness)	Front wheel	12.6 x 2.5 x 0.20		
Rear wheel			12.6 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				7.00		
Line pressure at 100 lb. pedal load				650 psi		
Shoe clearance adjustment				No Major Adjustment Required		

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**MODEL** \_\_\_\_\_ MD2 D500 Police Special

## BRAKES—PARKING

Type of control		T-Handle, 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)	Internal
	Drum diameter	7
	Lining size (length x width x thickness)	Two Shoes, Each 6.53 x 2 x 0.16

## FRAME or UNITIZED CONSTRUCTION

Type and description	Welded, Double-Channel Box-Section Side Rails; Lateral Crossmembers
----------------------	---

## SUSPENSION—GENERAL (See Supplemental page 16 for details on Air Suspension)\*

Provision for car leveling		Yes, Front Only
Provision for brake dip control		Yes
Provision for acc. squat control		Yes
Special provisions for car jacking		No
Shock absorber front & rear	Type	Telescopic, Double-Acting
	Make	Own
	Piston dia.	Front - 1; Rear - 1-3/8
Other special features		Front and Rear Suspensions are Matched

## SUSPENSION—FRONT

Type and description	Independent, Lateral, Non-Parallel Control Arms with Torsion Bars
----------------------	---

(Continued)

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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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## SUSPENSION FRONT (cont.)

Spring	Type		Torsion Bar
	Material		Chromium-Alloy Steel
	Size (coil design height & I.D.; bar length x dia.)		40 x 1.01
	Spring rate (lb. per in.)		Not Applicable
	Rate at wheel (lb. per in.)		125
Stabilizer	Design load (lb. @ design height)		Not Applicable
	Type (link, linkless, frameless)		Link
	Material & bar diameter		Steel, 0.75

## STEERING

Mechanical (std., opt., NA)			Standard	
Power (std., opt., NA)			Not Available	
Wheel diameter			17	
Turning diameter	Outside front	Wall to wall (l. & r.)	46.7'	
		Curb to curb (l. & r.)	43.7'	
	Inside rear	Wall to wall (l. & r.)	28.1'	
		Curb to curb (l. & r.)	27.1'	
Outside wheel angle with inside wheel at 20°			18° 46'	
Mechanical	Gear	Type	Worm and 3-Tooth Roller	
		Make	Own	
		Ratios	20.4	
		Overall	29.97	
	No. wheel turns			5.2
Power	Type		Not Available	
	Make		- - -	
	Trade name		- - -	
	Gear	Type	- - -	
		Ratios	- - -	
		Overall	- - -	
	Pump driven by			- - -
	Number wheel turns			- - -
Linkage	Type		Symmetrical Idler Arms, 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** \_\_\_\_\_ MD2 D500 Police Special

## STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		6.5° at 0°
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
		Thrust	Oil-impregnated Sintered Metal
Wheel alignment (range and preferred)	Caster (deg.)		- 3/4° + 3/4°
	Camber (deg.)		Left: + 1/4° + 1/4° (3/8° Preferred) Right: 0° + 1/4° (0° Preferred)
	Toe-in (outside tread-inches)		1/8° + 1/32°
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			Parallel, Longitudinal Leaf
Drive and torq. taken through (see page 14)			Rear Springs
Spring	Type		Semi-Elliptical 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.)		125
	Rate at wheel (lb. per in.)		165 Without Tires
	Design load (lb. at design height)		800 + 22 at - .38
	Mounting insulation type		Rubber
	If leaf	No. of leaves	
Inserts		Type and size	3 at 2.5 inches, 3 at 3.5 inches
		Material	Front: Rubber; Rear: Wax Impregnated Fabric
Shackle (comp. or tens.)		Compression	
Stabilizer	Type (link, linkless, frameless)		None
	Material		Not Applicable
Track bar type			None

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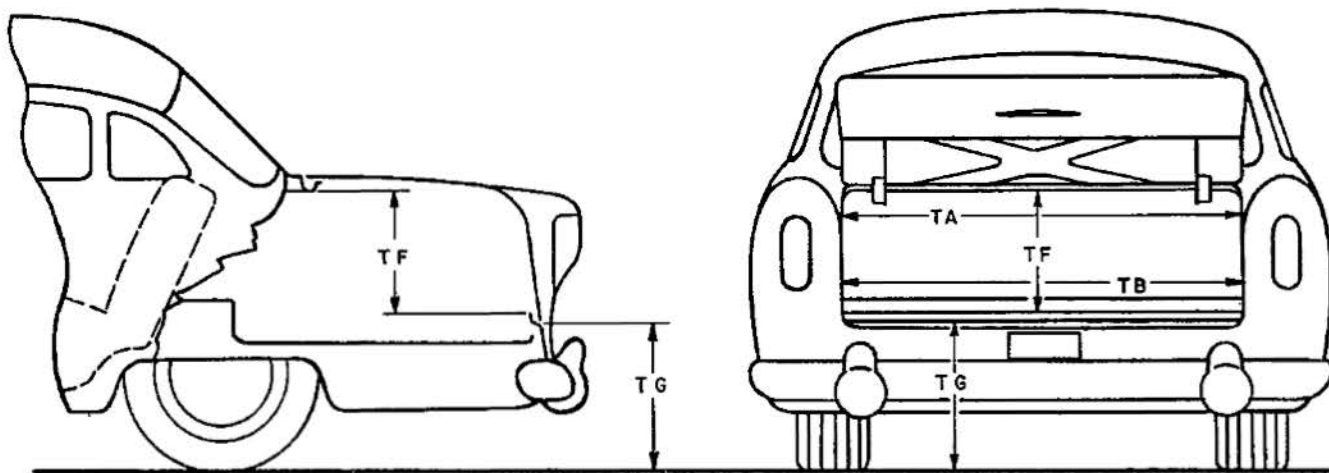
## BODY—GENERAL DEFINITIONS

NOTE: included in the dimension definitions listed on this and the following pages are those which have been adopted by the 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. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front and rear seat "B" points are located on seat back 15" from center of body at height of horizontal tangent to top of seat cushion.
3. Front seat is in the full down and normal rearmost position.
4. Loaded position—5 passenger, front 300 lb., rear 450 lb.; includes spare wheel, tire and tools, and full complement of gas, oil, water, and tires to recommended pressure, etc.
5. C/L (centerline).
6. D. L. O. (daylight opening, exposed glass dimension - pages 21, 23 & 25).
7. Ramp breakover angle (page 21) is the supplement of the included ramp angle ( $180^\circ$  minus the included ramp angle) over which a car can pass without hanging up.

<b>MODEL</b>	Dodge Police Special 2-Door Sedan
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## BODY—TRUNK DIMENSIONS



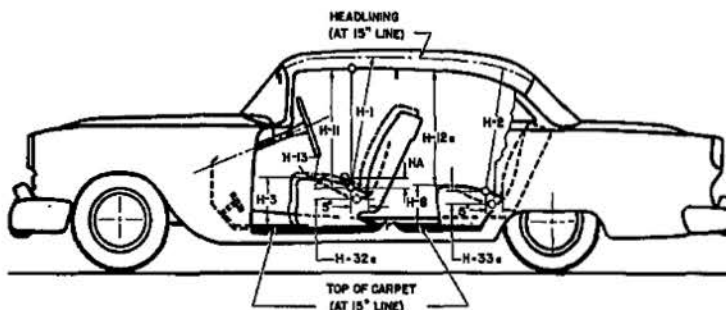
Usable trunk luggage capacity (see Section H1 of SAE Automotive Drafting Standards)	38.6
TA— Width across the top	58.4
TB—Width across the bottom	51.2
TF—Vertical dimension at C/L from bottom to top of opening.	15.4
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)	21.7
Position of spare tire stowage	1 Horizontal, on Trunk Floor
Method of holding lid open	Torsion Bar

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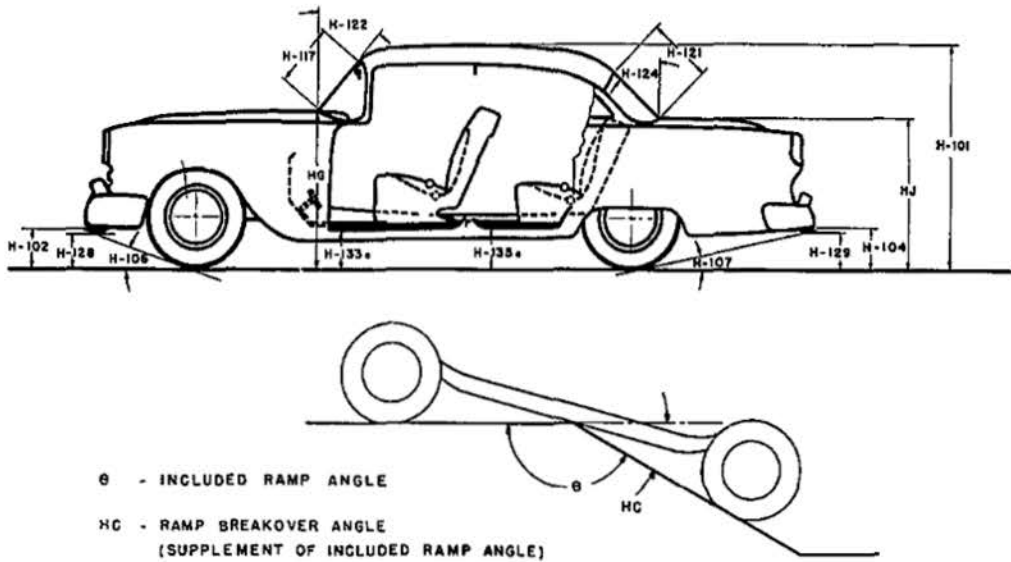
## BODY—HEIGHT DIMENSIONS--INTERIOR



MODEL	Dodge Police Special 2-Door Sedan
H1. Front headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19)	35.7
H2. Rear headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line.	34.5
H3. Front cushion height above low point on floor carpet on 15" line (front edge of cushion).	10.8
H8. Rear cushion height above low point on floor carpet on 15" line (front edge of cushion).	11.9
H11. Entrance—front—cushion free "A" point to bottom windcord vertical.	31.2
H12a. Entrance — rear — top of cushion at vertical tangent to front of rear seat, to bottom of windcord in rear.	- - -
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance).	6.5
HA. Front seat maximum vertical rise at free "A" point.	1.2
HF. Front seat maximum vertical rise of free "A" point with multiple-position seat.	2.6
H32a. Front seat depressed depth — vertical dimension from free "A" point to depressed "A" point.	4.0
H33a. Rear seat depressed depth — vertical dimension from free "A" point to depressed "A" point.	4.0

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**BODY—HEIGHT DIMENSIONS—EXTERIOR**



MODEL	Dodge Police Special 2-Door Sedan
H101. Overall height - loaded.	58.7
HB. Overall height - curb weight.	60.1
H102. Front bumper bottom to ground at normal section.	12.8
H104. Rear bumper bottom to ground at normal section.	11.9
H106. Angle of appr.-fr. tire static loaded rad. to interfering pt. on fr. bumper, gd., other.	20°
H107. Angle of dep.-fr. tire static loaded rad. to interfering pt. on rr. bumper, gd., other.	11°
HC. Ramp breakover angle.*	23°
H117. Windshield DLO-slant height.	22.3
H121. Backlight DLO*-max., slant height.	19.7
H122. Windshield slope angle to vertical line on car axis.	50°
H124. Backlight slope angle to vertical line on car axis.	53°
H128. Ground to bottom of front bumper guard.	Not Applicable
H129. Ground to bottom of rear bumper guard.	Not Applicable
H133a. Bottom of front door to ground, min. dimension - car loaded.	13.0°
H135a. Bottom of rear door to ground, min. dimension - car loaded.	Not Applicable
HD. Min. road clear. (5 pass. load) & loc.	7.4
HE. Min. road clearance at rear axle.	8.5
HG. Hood at rr. to grd.-vert. dim. excl. molding, fr. hood opening line at cowl (curb wt.)	39.5
HH. Max. ht., fr. grd. frt. of windshield (curb wt.)	39.1
HJ. Max. ht. fr. grd. back of r. window (curb wt.)	38.3

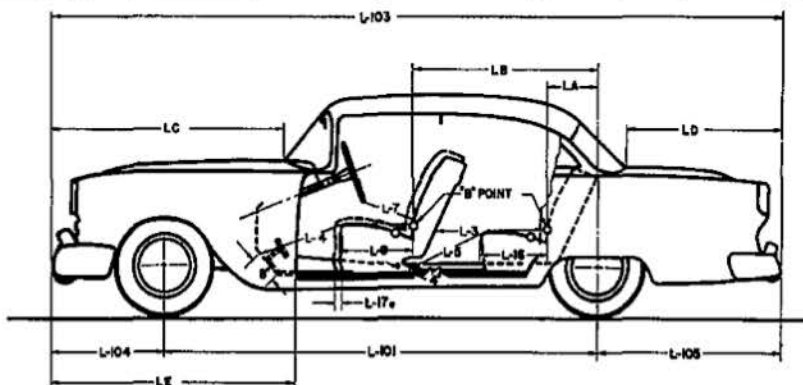
\* See Notes, page 19.

# AMA Specifications – Passenger Car

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## BODY—LENGTH DIMENSIONS



MODEL	Dodge Police Special 2-Door Sedan	
Interior	* L3. Rear compartment of front seat back to rear seat back.	31.0
	* L4. Leg room—front—ball of foot to top of seat to seat back—15" line.	45.5
	* L5. Leg room—rear—from ball of foot to top of seat cushion and to seat back.	42.5
	L7. Steering wheel clearance to seat back taken on arc.	15.4
	* L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	18.6
	* L16. Depth of rear seat (front edge to seat back).	18.6
	L17a. Total adjustment of front seat at front lower seat frame.	4.8
	LA. Rear seat "B" point to center line of rear axle.	20.2
	LB. Front seat "B" point to center line of rear axle.	57.8
	LC. Front of car to base of windshield.	58.9
	LD. Rear of car to base of rear window or upper structure.	46.3
	LE. Front of car to front edge of front door.	64.2
Exterior	L101. Wheelbase.	122.0
	L103. Overall length (bumper to bumper inc. guards).	217.4
	L104. Overhang—front including bumper guards.	35.2
	L105. Overhang—rear including bumper guards.	60.2

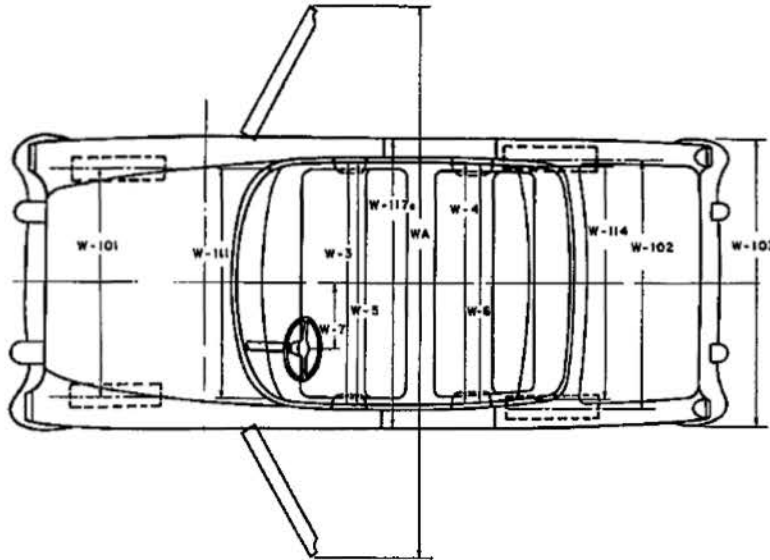
\* Dimension taken on 15" line—see notes 1 & 2, page 19.

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1958

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## BODY—WIDTH DIMENSIONS



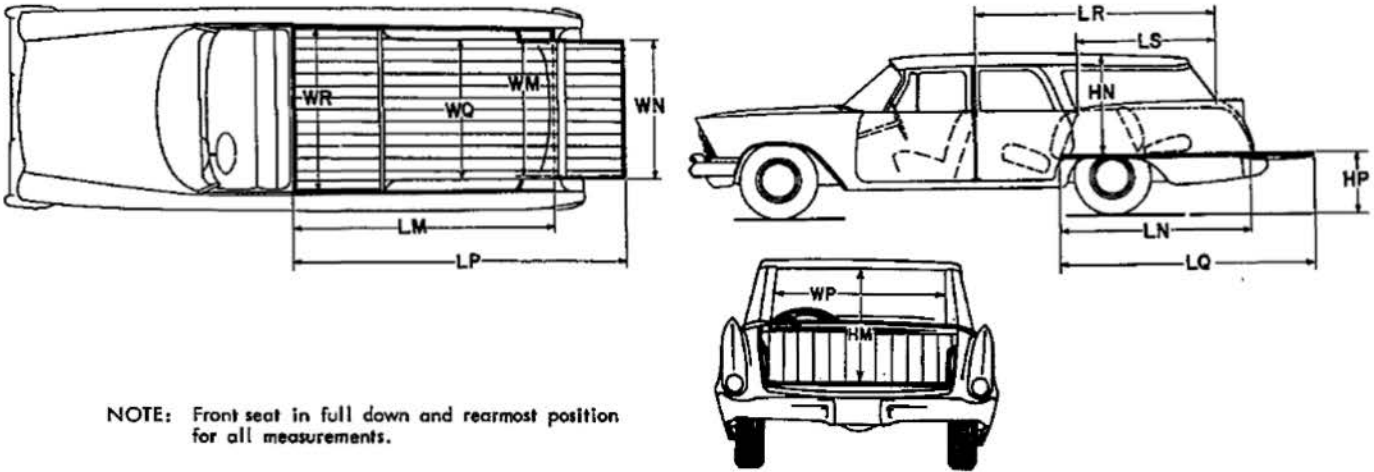
MODEL	Dodge Police Special 2-Door Sedan	
Interior	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.5
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.4
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	63.0
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	62.7
	W7. Steering wheel center to center of body.	16.11
Exterior	W101. Front tread at ground.	61.4
	W102. Rear tread at ground.	60.2
	W103. Max. overall width of car including bumpers or mouldings.	80.0
	WA. Max. overall width of car with doors open.	156.8
	W111. Windshield DLO, max. width.	63.2
	W114. Back window DLO, max. width.	60.4
	W117a. Max. body width at center pillar, less hardware and applied moldings.	75.6

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## STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Dodge Police Special 2-Door Sedan
LM Floor length from bottom of front seat to inside of tail gate in raised position.	NOT APPLICABLE
LN Floor lgth. from bottom of second seat to inside of tail gate in raised position.	
LP Floor lgth. from bottom of front seat to end of tail gate in lowered position.	
LQ Floor lgth. from bottom of second seat to end of tail gate - tail gate lowered.	
HM Maximum hght. of rear opening - tail gate lowered.	
WM Rear end opening width at floor.	
WN Rear end opening width at top of tail gate.	
WQ Minimum distance between wheelhouses.	
WP Maximum width of rear opening above raised tail gate.	
WR Maximum width of cargo space at floor.	
LR Cargo horizontal distance from top rear of front seat back to top of tail gate.	
LS Cargo horizontal distance from top rear of second seat back to top of tail gate.	
HN Maximum height of roof above floor at center line of car.	
HP Platform height of end of lowered tail gate - curb weight.	
Third Seat - facing direction.	



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**MODEL** \_\_\_\_\_ Dodge Police Special 2-Door Sedan

## BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	- - -
Type of finish (lacquer, enamel).		Synthetic Enamel
Hood hinge location (front, rear).		Rear
Hood counterbalanced (yes, no).		Yes
Hood release control (internal, external).		External
Vehicle (Serial) No. Location		Under Hood, Left Side of Top Cowl Panel
Engine No. location		Front of Engine, Top Center
Theft protection - type		Door Locks, Terminal Barrier on Ign. Switch, Ign. Key Start
Vent window control method (crank, friction pivot).		Friction Pivot
Windshield type (single curved, compound curved, other)		Single, Curved
Rear window type (flat, curved, one piece, three piece)		Single, Curved
Side glass type (curved, flat)		Flat
Windshield glass area D.L.O.		1444
Backlight glass area D.L.O.		1173
Total glass area D.L.O.		4149

## BODY—TYPES AND STYLE NAMES —

Body type, number of passengers & style names; use manufacturer's code for series & body style.

**BODY STYLES:**

CODES

Club Sedan, 6-Pass.  
2-Door

Coronet V-8 MD2-L D500



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