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.

MAKE OF CAR DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** NOV. 1958 **REVISED**

COMPANY DODGE DIVISION, CHRYSLER CORPORATION, DETROIT 31, MICHIGAN

MODEL NAME	SYMBOL	MODEL NAME	SYMBOL
		CORONET POLICE SPECIAL	MD2 D500

TABLE OF CONTENTS

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)	23	60.9
	Rear (W-102)	23	59.8
Maximum Overall Dimensions	Length (L-103)	22	217.4
	Width (W-103)	23	80.0
	Height (H-101)	21	58.7
Transmission—(Specify trade name - opt., not available)	Manual	12	Not Available
	Overdrive	13	Not Available
	Automatic	13	TorqueFlite Standard
Axle ratio	Manual	14	- - -
	Overdrive	14	- - -
	Automatic	14	3.31
Tire size		15	7.60 x 15
Engine	Type, no. cyl., valve arr.	2	90° V-8, Overhead In-Line Valves
	Fuel system (Carb. or inj.)	6	Carburetor
	Bore and stroke	2	4.25 x 3.38
	Piston displ., cu. in.	2	383
	Std. compression ratio	2	10.0 to 1
	Max. bhp at engine rpm	2	320 at 4600
	Max. torque at rpm	2	420 at 2800

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** NOV. 1958 **REVISED** _____

MODEL MD2 D500 Police Special

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 horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		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.

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

MODEL MD2 D500 Police Special

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)

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

MODEL MD2 D500 Police Special

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

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

MODEL MD2 D500 Police Special

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

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED _____

MODEL _____ | MD2 D500 Police Special

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	2.25
Tail pipe diameter (O.D. & wall thickness)		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
	Filler location		Left Rear Fender
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Right Front of Engine, Lower
	Pressure range		6 - 7 psi
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Plastic and Ceramic
	Locations		Fuel Tank and Fuel Pump
Carburetor	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

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

MODEL MD2 D500 Police Special

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

Rev. Form 1-58

* 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.

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** NOV. 1958 **REVISED** _____

MODEL MD2 D500 Police Special

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.

Rev. Form 1-58

(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.

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

MODEL MD2 D500 Police Special

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.

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** NOV. 1958 **REVISED**

MODEL MD2 D500 Police Special

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	Stewart-Warner (Calibrated and Certified)
	Trip odometer (yes, no)	No
Charge indicator-type		Ammeter
Temperature indicator-type		Electric, Magnetic
Oil pressure indicator-type		Bourdon Tube
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	Yes
	Location	Right of Steering Column
Main lighting switch	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
Other light switches	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
Other switches	Locations and devices controlled	Windshield Wiper Switch: Right of Steering Column Variable Speed 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
Windshield wiper	Make	Auto-Lite or General Industries
	Type	Electric
	Vacuum booster provision	None
	Washer provision	Standard
Horn	Type	Sea Shell
	Number used	2
	Amp draw (each)	9 - 10

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** NOV. 1958 **REVISED** _____

MODEL MD2 D500 Police Special

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.

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—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	- - -

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—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			- - -
	Lubricant	Capacity (Overdrive only)		- - -
		Separate filler (yes, no)		- - -
		Type recommended		- - -
		SAE viscosity 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
Intermediate 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)	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

MAKE OF CAR DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** NOV. 1958 **REVISED** _____

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
Brake lining	Bonded or riveted			Bonded
	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 Asboestos
		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

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED _____

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)

* Air Suspension:
Air spring type
Compressor data
type
make
ratio
normal operating pressures
rating rates
[illegible] data

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

MODEL MD2 D500 Police Special

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
	Design load (lb. @ design height)	Not Applicable
Stabilizer	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	Gear	20.4
			Overall	29.97
	No. wheel turns			5.2
Power	Type			Not Available
	Make			- - -
	Trade name			- - -
	Gear	Type		- - -
		Ratios	Gear	- - -
			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)

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

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-Ellitpical 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		6
		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

AMA Specifications — Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED _____

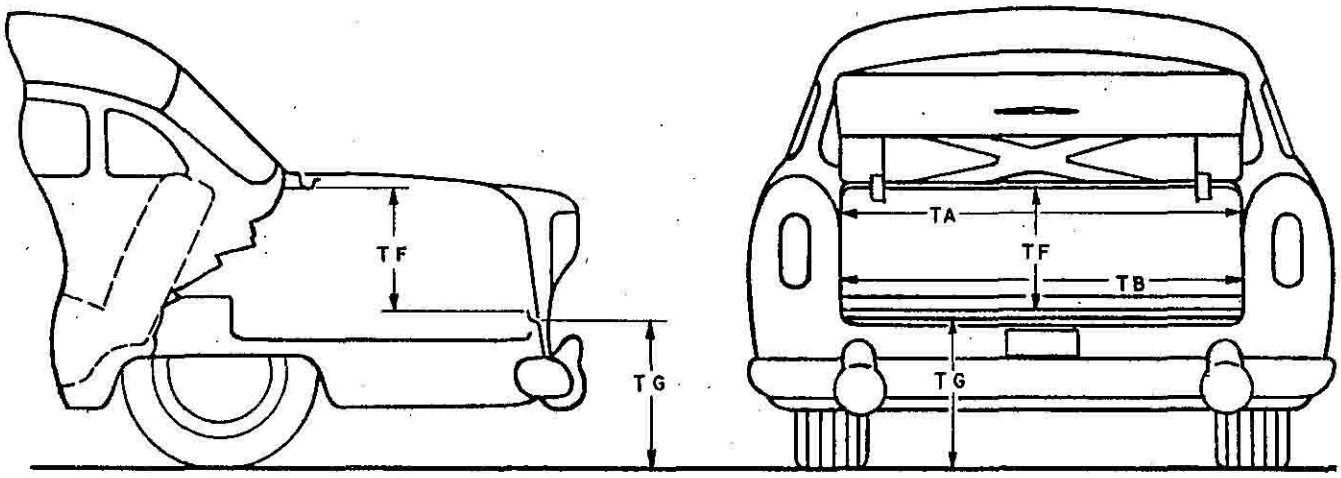
BODY—GENERAL DEFINITIONS

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° minus the included ramp angle) over which a car can pass without hanging up.

MODEL	Dodge Police Special 2-Door Sedan

BODY—TRUNK DIMENSIONS

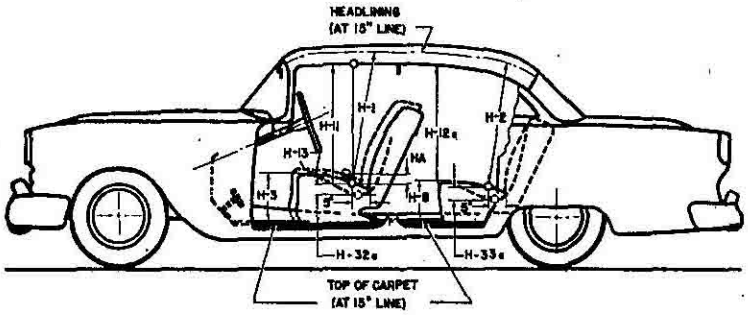


Usable trunk luggage capacity (see Section H1 of SAE Automotive Drafting Standards)	38.6
TA— Width across the top	58.4
TB —Width across the bottom	51.2
TF—Vertical dimension at C/L from bottom to top of opening.	15.4
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet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

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED _____

BODY—HEIGHT DIMENSIONS--INTERIOR

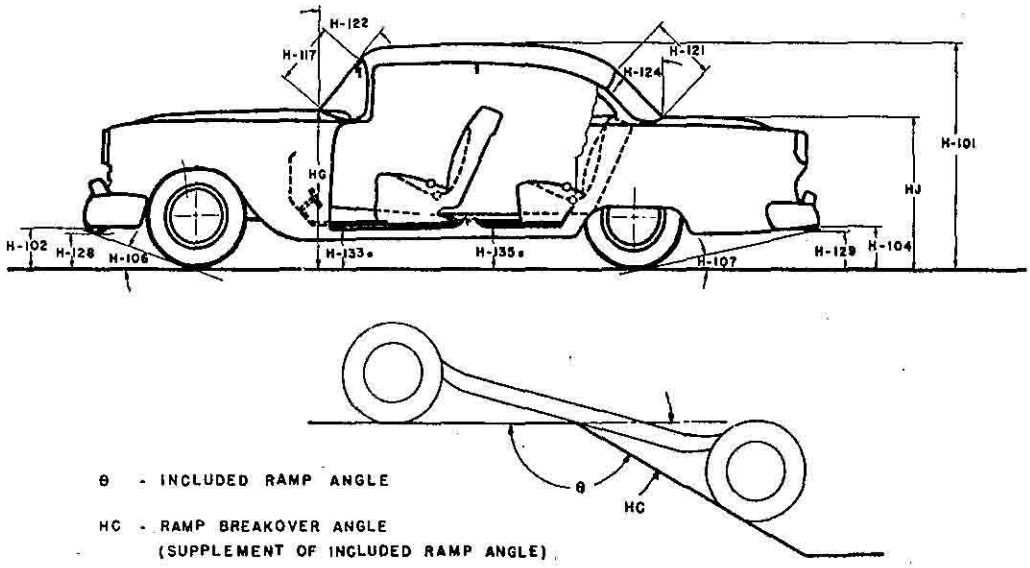


MODEL	Dodge Police Special 2-Door Sedan
H1. Front headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19)	35.7
H2. Rear headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line.	34.5
H3. Front cushion height above low point on 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

AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED _____

BODY—HEIGHT DIMENSIONS—EXTERIOR



θ - INCLUDED RAMP ANGLE

HC - RAMP BREAKOVER ANGLE (SUPPLEMENT OF INCLUDED RAMP ANGLE)

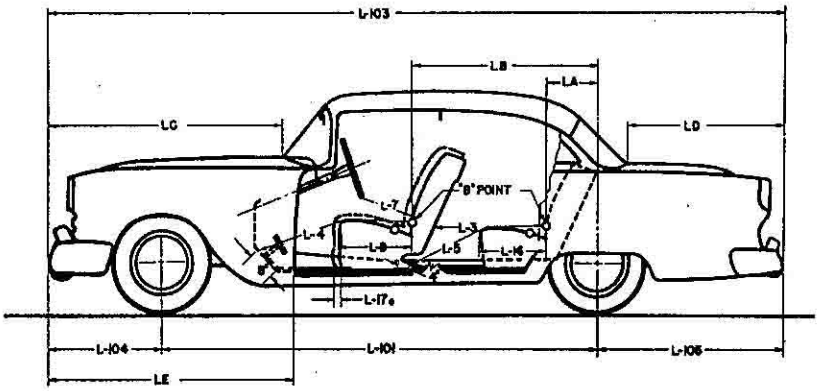
MODEL	Dodge Police Special 2-Door Sedan
H101. Overall height – loaded.	58.7
H8. Overall height – curb weight.	60.1
H102. Front bumper bottom to ground at normal section.	12.8
H104. Rear bumper bottom to ground at normal section.	11.9
H106. Angle of appr.-fr. tire static loaded rad. to interfering pt. 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

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED

BODY—LENGTH DIMENSIONS



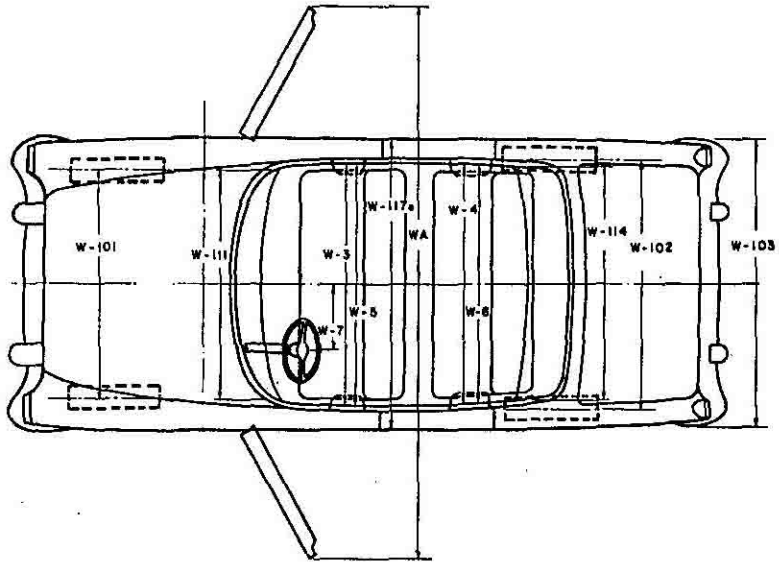
MODEL		Dodge Police Special 2-Door Sedan
Interior	* L3. Rear compartment of front seat back to rear seat back.	31.0
	* L4. Leg room—front—ball of foot to top of seat to seat back--15" line.	45.5
	* L5. Leg room—rear—from ball of foot to top of seat cushion and to seat back.	42.5
	L7. Steering wheel clearance 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.

AMA Specifications –Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED _____

BODY—WIDTH DIMENSIONS

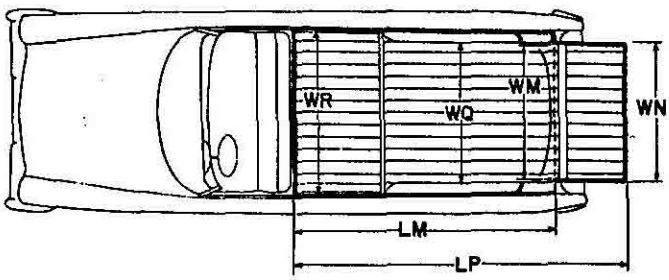


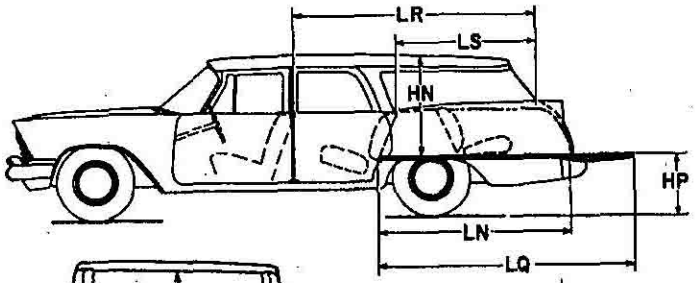
MODEL		Dodge Police Special 2-Door Sedan
Interior	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.5
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	60.4
	W5. Front hip room, at top of seat 5" 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

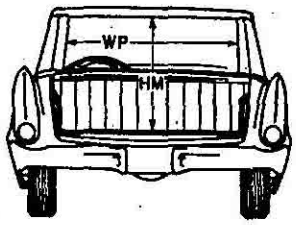
AMA Specifications – Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE: ISSUED NOV. 1958 REVISED _____

STATION WAGON—CARGO SPACE DIMENSIONS







NOTE: Front seat in full down and rearmost position for all measurements.

MODEL	Dodge Police Special 2-Door Sedan
LM Floor length from bottom of front seat to inside of tail gate in raised position.	
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 hgth. of rear opening – tail gate lowered.	
WM Rear end opening width at floor.	
WN Rear end opening width at top of tail gate.	NOT APPLICABLE
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.	

AMA Specifications –Passenger Car

NOV.

MAKE OF CAR DODGE (POLICE SPECIAL) **MODEL YEAR** 1959 **DATE: ISSUED** 1958 **REVISED** _____

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

AMA Specifications -- Passenger Car

MAKE OF CAR DODGE (POLICE SPECIAL) MODEL YEAR 1959 DATE. ISSUED NOV. 1958 REVISED

MAJOR OPTIONAL ITEMS - WEIGHTS

Model	CURB - WEIGHT - POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING * WEIGHT
MD2-L-21 2-Door Sedan	1905	2085	3990					3825

Accessories & Equipment Differential Weights				Remarks

* These are weights that are reported to states for licensing purposes.

Rev. Form 1-58

INDEX