AMA Specifications – Passenger Car

MAKE OF CAR DODGE POLICE SPECIAL **MODEL YEAR** 1960 **DATE: ISSUED** 10-5-59 **REVISED**

COMPANY DODGE DIVISION, CHRYSLER CORPORATION, DETROIT 31, MICHIGAN

MODEL NAME	SYMBOL	MODEL NAME	SYMBOL
Seneca Police Special	PD4A-L		

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NOTES:

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

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	SENECA PD4A-L POLICE SPECIAL
Wheelbase (L-101)		23	122.0
Tread	Front (W-101)	24	61.5
	Rear (W-102)	24	60.2
Maximum Overall Dimensions	Length (L-103)	23	212.6
	Width (W-103)	24	78.0
	Height (H-101)	22	55.4
Transmission—(Specify trade name - opt., not available)	Manual	13	Not Available
	Overdrive	14	Not Available
	Automatic	14	Standard: TorqueFlite
Axle ratio	Manual	15	- - - -
	Overdrive	15	- - - -
	Automatic	15	3.31
Tire size		16	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, 4-bbl
	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	325 at 4600
	Max. torque at rpm	2	435 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
Engine installation angle		Vertical: 3.5°, Horizontal: 1.0° Right
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		57.8
Published max. bhp at engine RPM*	Standard	325 at 4600
	Optional	- - - -
Published max. torque* (lb. ft. @ RPM)	Standard	435 at 2800
	Optional	- - - -
Recommended fuel regular - premium	Standard	Premium
	Optional	- - - -
Recommended idle speed (neutral)		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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POWER TEAMS
(Indicate whether standard or optional)

SERIES	ENGINE				TRANSMISSION	AXLE RATIO (Std. first)
	Displacement	Carburetor	Compression Ratio	BPH		
Police Special	383	4-bbl	10.0	325	Manual T-85 or TorqueFlite	Manual: 3.31*, 3.54* TorqueFlite: 3.31*

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ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.042 - .048
	Skirt	Top	.0005 - .0010
		Bottom	- - - -
Ring groove depth	No. 1 ring		.24
	No. 2 ring		.24
	No. 3 ring		.22
	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		.00045 - .00075
	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 .94
		No. 2	2.63 x .94
		No. 3	2.63 x 1.22
		No. 4	2.63 x .94
		No. 5	2.63 x .94
		No. 6	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, oil pump, and fuel 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
Valve rotator, type (intake, exhaust)		Low-friction lock on Exhaust
Rocker ratio		1.5 to 1
Operating tappet clearance (indicate hot or cold)	Intake	Not applicable
	Exhaust	Not applicable
Timing marks on flywheel, damper, other		Stationary Indicator

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	20
		Closes (°ABC)	68
		Duration - deg.	268
	Exhaust	Opens (°BBC)	60
		Closes (°ATC)	28
		Duration - deg.	268
	Valve opening overlap		48
Intake	Material		Silicon-Chromium Steel
	Overall length		4.87
	Actual overall head dia.		2.08
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.37
	Stem to guide clearance		.001 - .003
	Lift		.430
	Outer spring press. and length	Valve closed (lb. @ in.)	100 at 1.86
		Valve open (lb. @ in.)	205 at 1.43
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper only
		Valve open (lb. @ in.)	None
Exhaust	Material		21-4N
	Overall length		4.89
	Actual overall head dia.		1.60
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		.37
	Stem to guide clearance		.002 - .004
	Lift		.430
	Outer spring press. and length	Valve closed (lb. @ in.)	100 at 1.86
		Valve open (lb. @ in.)	205 at 1.43
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper only
		Valve open (lb. @ in.)	None

ENGINE—LUBRICATION SYSTEM

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

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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.)	Electrical
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 32F.....SAE 30, SAE 20W-40, or SAE 10W-30 As low as 10F..SAE 20W, SAE 20W-40, or SAE 10W-30 As low as -10F..SAE 10W, SAE 10W-30, or SAE 5W-20 Below - 10F.....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	1.75 x .083
	Main	2.25 x .083
Tail pipe diameter (O.D. & wall thickness)		2.00 x .048

ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Capacity (gals.)		20
	Filler location		Rear bumper
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Lower front, Right side
	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 2968S
	Number of carbs., bbls. per carb. & 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 system (pressure, pressure vented, atmospheric, other)			Pressure-vent
Radiator cap relief valve pressure			14 psi
Circulation thermostat	Type (choke, bypass)		Choke, Pellet type
	Starts to open at (°F)		180
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)			Tubular
Cooling system capacity	With heater (qt.)		17
	Without heater (qt.)		16
	Opt. equipment-specify (qt.)		None
Water jackets full length of cylinder (yes, no)			No
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight)	One, molded
		Inside diameter	Radiator End: 1.5 Water pump end: 1.75
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.5
	By-pass	Number and type (molded, straight)	None
		Inside diameter	- - - -
Fan	Number of blades & Spacing		Four, 76° - 104°
	Diameter		18
	Ratio-fan to crankshaft rev.		.97 to 1
	Fan cutout type		None
	Bearing type		Same as water pump bearing
*Drive belts (indicate belt used by letter)	Fan		See below
	Generator		See below
	Water Pump		See below
	Power Steering		None
	Air Conditioning		None

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*-Drive Belt Dimensions	
Angle of V	36°
Nominal length (SAE)	59
Width	3/8

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Willard HDD-3SM
	Voltage Rtg. & Total Plates		12, 66
	SAE Designation & Amp Hr. Rtg		3SM, 70
	Location		Under hood in left fender shield
	Terminal grounded		Negative
Generator	Make		Autolite (a)
	Model		GJM-8201 H
	Type		Shunt wound
	Ratio—Gen. to Cr/s rev.		2.00 to 1
	Gen. cut-in (hot)—engine rpm		600
Regulator	Make		Autolite
	Model		VBO-4202-BC
	Type		Current and Voltage Control
	Cutout relay	Closing voltage @ generator rpm	12.6 - 13.6 at 1480
		Reverse current to open	0-6
	Regulated	Voltage	14.3 - 14.9
		Current	35
	Voltage test conditions	Temperature	70F
		Load	15-min at 7-amp - Voltage Check
		Other	Additional 15-min at rated volts - Current Check

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Autolite
	Model		MDT-7001
	Rotation (drive end view)		Clockwise
	Engine cranking speed		Cold: 35-rpm; Hot: 150-rpm
	Test conditions		Cold: SAE 5W at - 20F 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 pedal 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		Autolite
	Model		CAH-4001
	Amps	Engine stopped	3.1
		Engine idling	2.5
Distributor	Make		Autolite
	Model		IBS-4006E
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0 at 650 - 950
		Intermediate points deg. @ rpm	0 - 8.5 at 950 9-13 at 1280
		Max deg. @ rpm	18-22 at 4800
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0 at 7.2-8.9
		Intermediate points, deg @ in Hg	9-15 at 12"
		Max. deg. in. Hg.	15-21 at 14.5"
	Breaker gap (in.)		.014 - .019
	Cam angle (deg.)		27°-32° each; 34°-40° Total (Double-breaker)
	Breaker arm tension (oz.)		17-21.5
Timing	Crankshaft deg. @ rpm.		12.5 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		Autolite A-32
	Thread (mm)		14-mm
	Tightening torque (lb. ft.)		30-32
	Gap		.035
Cable	Conductor type		Resistor
	Insulation type		Synthetic rubber with Neoprene jacket
	Spark plug protector		Silicone

ELECTRICAL—SUPPRESSION

Locations & type	Resistance-type spark plug leads and built-in resistor in distributor. Condenser on regulator, coil, and fuel gauge.

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	Autolite (Calibrated and certified)
	Trip odometer (yes, no)	No
Charge indicator—type		Ammeter
Temperature indicator—type		Electric, Magnetic
Oil pressure indicator—type		Indicator light
Fuel indicator—type		Electric, Magnetic
Other		None
Ignition switch	Identify positions in order and circuits controlled	Center position ..... Off 1st position clockwise ..... Ignition & accessory circuit only 2nd position clockwise ..... Ignition circuit only 3rd position clockwise ..... Starting circuit only 1st position counterclockwise .. Accessory circuit only
	Provision for illumination	Yes, lamp
	Location	Right of steering column
Main lighting switch	Identify positions and lights controlled	Full in ..... Off 1st position out .. Instrument, tail, parking, and license lamp Full out ..... Instrument, tail, head, and license lamp
Other light switches	Locations and lamps controlled	Instrument lamp rheostat control: Concentric with head lamp switch, variable all instruments; Low oil pressure switch: Engine; Dome lamp: Manual switch on instrument panel, automatic door switch in each door; Stop lamp switch: In master cylinder; 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	Autolite or General Industries
	Type	Electric
	Vacuum booster provision	None
	Washer provision	Standard
Horn	Type	Sea Shell
	Number used	2
	Amp draw (each)	9-10

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ELECTRICAL—LAMP BULBS

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

Headlamps & arrangement		Dual, horizontal: 2-4001, 2-4002
Headlamp beam indicator		1-57
Parking		2-1034 (a)
Tail		2-1034 (b)
Stop		2-1034 (b)
Direction signal	Front	2-1034 (a)
	Rear	2-1034 (b)
	Indicator	2-57
License plate		1-67
Instrument		2-57
Ignition lock		1-57
Back up		2-1073*
Dome		1-1004
Clock		None
Radio		None
Glove compartment		1-57*
Speedometer		3-57
Transmission Control		1-57*
Parking brake indicator		1-57
Map light		1-90*
Switch titles		2-57
Trunk light		1-1003*

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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	Same as (a)
Back up light	None
Dome light	Same as (b)
Clock	None
Clock light	None
Radio	None
Glove compartment light	Same as (b)
Windshield Wiper	6 CB (Variable speed)
Defroster & Heater	SFE 20

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	- - - -
		Highest	30.2
	Stop		30.2
	Backup		16.2
	License, rear		31.3
	Directional	Front	21.7
		Rear	30.2
	Headlamp	Inside	30.5
		Outside*	30.5
Distance from C/L of car to center of bulb	Tail	Inside	- - - -
		Outside	33.4
	Stop		33.4
	Backup		33.3
	License, rear		On center line
	Directional	Front	33.2
		Rear	33.4
	Headlamp	Inside	24.5
		Outside*	31.2

* If single headlamps are used enter here.

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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		– – – –
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 with high temperature seals and a high speed governor

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			– – – –
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			– – – –
	Lubricant	Capacity (pt.) (Overdrive only)		– – – –
		Separate filler (yes, no)		– – – –
		Type recommended		– – – –
		SAE viscosity number	Summer	– – – –
			Winter	– – – –
			Ext. cold	– – – –

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		TorqueFlite
Type describe		Torque converter with gears Automatic 3-speed
Method of Selection (Lever, Push Button or other)		Push button
Selector Pattern		Aligned horizontally on instrument panel, left of steering column
List gear ratios Selector Pattern and indicate which are used in each selector position		R Reverse 2.2 N Neutral --- D 1-2-Drive 2.45-1.45-1.00 2 1-2 2.45-1.45 1 1 2.45
Max. upshift speeds—drive range		75
Max. kickdown speeds—drive range		70
Torque convertor	Number of elements	Three
	Max. ratio at stall	
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	24 (a)
	Type recommended	Automatic transmission fluid - Type A, Suffix A
Special transmission features		Spring-loaded hydraulic valve to prevent accidental reverse engagement

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(a) Includes transmission oil filter in engine compartment, mounted on left front fender shield; capacity: 1-qt.

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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		3.25-2.75 x 58.96 x .065 (Stepped)
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 with high-speed boot 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 - 10F
		Winter	SAE 80: Below - 10F
		Extreme cold	SAE 75: Below - 30F

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

AMA Specifications – Passenger Car

MAKE OF CAR DODGE POLICE SPECIAL MODEL YEAR 1960 DATE: ISSUED 10-5-59 REVISED

MODEL SENECA PD4A-L 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, $\frac{1}{2}$-20 N.F.

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	Blue Streak, 7.60 x 15, 6-ply
	Type - Nylon, etc.	Nylon
Rev/mile at ___ mph.		715
Inflation press.(cold)	Front	24 psi
	Rear	24 psi

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)				Hydraulic, internal-expanding, contoured variable-depth web, three-platform Total-Contact brake shoes
Power brake make & type (remote, integral, etc.)				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			Centrifuse
Brake lining	Bonded or riveted			Bonded
	Front Shoe	Material		Molded asbestos with copper base insert (a)
		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			1.225
Master cylinder bore				1.125
Available pedal travel				7.5
Line pressure at 100 lb. pedal load				650 psi
Shoe clearance adjustment				No major adjustment required

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

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(a) On front shoes only of both front and rear brakes; all rear shoes are of molded asbestos.

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MODEL SENECA PD4A-L POLICE SPECIAL

BRAKES—PARKING

Type of control		Foot operated, multiple pawl ratchet
Location of control		Under instrument panel, left of steering column
Operates on		Transmission output shaft
If separate from service brakes	Type (internal or external)	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	Unit construction

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

Provision for car leveling		Mechanical, by manual adjustment of torsion bar anchor bolt
Provision for brake dip control		By inclined frt upper control arms & unsymmetrical rear springs
Provision for acc. squat control		By unsymmetrical rear springs
Special provisions for car jacking		None
Shock absorber front & rear	Type	Direct
	Make	Own
	Piston dia.	1.0
Other special features		Front torsion bars are combined with outboard-mounted, highly unsymmetrical semi-elliptical rear leaf springs.

SUSPENSION—FRONT

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

(Continued)

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

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MODEL SENECA PD4A-L
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.)	
	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° 42°
Mechanical	Gear	Type		Worm and 3-tooth roller
		Make		Own
		Ratios	Gear	20.4
			Overall	30.16
	No. wheel turns			5.4
Power	Type (coaxial, linkage, etc.)			Not available
	Make			- - - -
	Trade name			- - - -
	Gear	Type		- - - -
		Ratios	Gear	- - - -
			Overall	- - - -
	Pump driven by			- - - -
	Number wheel turns			- - - -
Linkage	Type			Symmetrical idle 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 SENECA PD4A-L 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: 3/8° ± 1/4° (3/8° Preferred) Right: 1/8° ± 1/4° (1/8° Preferred)
	Toe-in (outside tread-inches)		3/32" to 5/32" (1/8" Preferred)
Steering spindle & joint type			Ball socket
Wheel spindle	Diameter	Inner bearing	1.25
		Outer bearing	0.75
	Thread size		3/4-16 NF
	Bearing type		Tapered roller

SUSPENSION—REAR

Type and description				Outboard, parallel, longitudinal
Drive and torq. taken through (see page 15)				Rear springs
Spring	Type			Leaf
	Material			Steel
	Size (length x width, coil design height and I.D.; bar length & dia.)			57 x 2.5
	Spring rate (lb. per in.)			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 - Plastic; 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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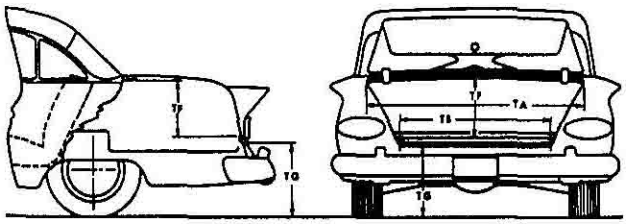
BODY—GENERAL DEFINITIONS

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

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

BODY—TRUNK DIMENSIONS



MODEL	SENECA PD4A-L POLICE SPECIAL
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)	17.7
Total trunk volume in cu. ft. with spare tire in place	29.7
TA—Width across the top	56.0
TB—Width across the bottom	50.9
TF—Vertical dimension at C/L from bottom to top of opening	14.4
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)	21.8
Position of spare tire stowage	Horizontal - Left side of trunk kick-up
Method of holding lid open	Torsion Bar

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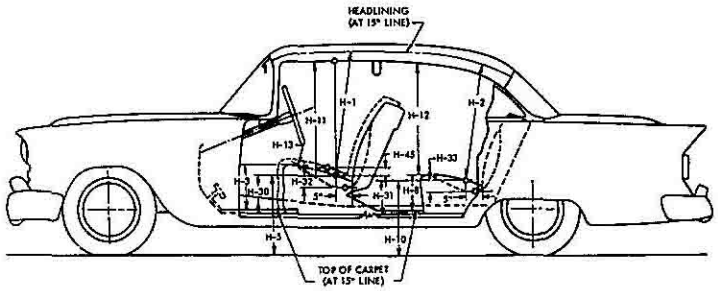
MAKE OF CAR DODGE POLICE SPECIAL MODEL YEAR 1960 DATE: ISSUED 10-5-59 REVISED

BODY—HEIGHT DIMENSIONS—INTERIOR



MODEL	SENECA PD4A-L POLICE SPECIAL
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	34.6
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	34.5
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	12.0
H5. Free "A" pt. to ground, front. Measured vertically	21.0
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	13.3
H10. Free "A" point to ground rear. Measured vertically	19.8
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	29.4
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	27.3
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	5.6
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	10.5
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	9.0
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.5
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.5
H45. Front seat maximum vertical rise at free "A" point	1.4

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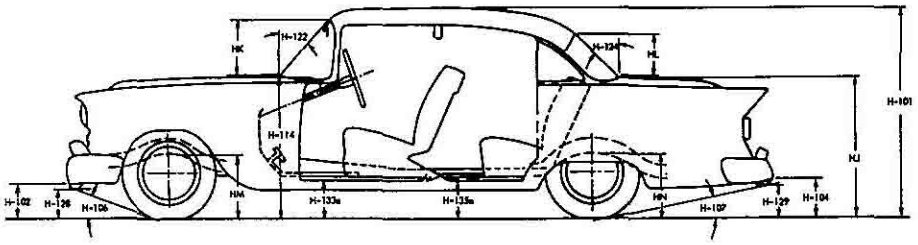
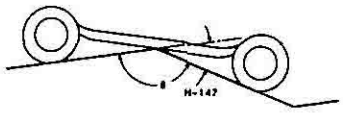
BODY—HEIGHT DIMENSIONS—EXTERIOR



θ - INCLUDED RAMP ANGLE

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



NOTE: For dimensions to lamps see page 12.

MODEL	SENECA PD4A-L POLICE SPECIAL
H101. Overall height, full design load	55.4
HB. Overall height, curb weight	57.2
H102. Front bumper bottom to ground at normal section, min. height	15.5
H104. Rear bumper bottom to ground at normal section, min. height	10.8
H106. Angle of approach. To interfering point on bumper, guard, other	24.5°
H107. Angle of departure. To interfering point on bumper, guard, other	10.6°
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	39.4
H122. Windshield normal slope angle to vertical line on car C/L	50° 30'
H124. Backlight normal slope angle to vertical line on car C/L	57° 25'
H128. Bottom of front bumper guard to ground	16.3
H129. Bottom of rear bumper guard to ground	17.5
H133a. Bottom of front door to ground, min. dimension	14.6
H135a. Bottom of rear door to ground, min. dimension	14.5
H147. Ramp breakover angle	13.0
H153. Min. road clearance at rear axle	7.7
H156. Min. road clearance and location	5.7
HJ. Deck at rear window to ground	38.2
HK. Windshield DLO*. Vertical height at C/L	12.6
HL. Back light DLO*. Vertical height at C/L	10.5
HM. Bottom of frame to ground at C/L of front axle, min. height	12.9
HN. Bottom of frame to ground at C/L of rear axle, min. height.	18.4

* See Note, page 20

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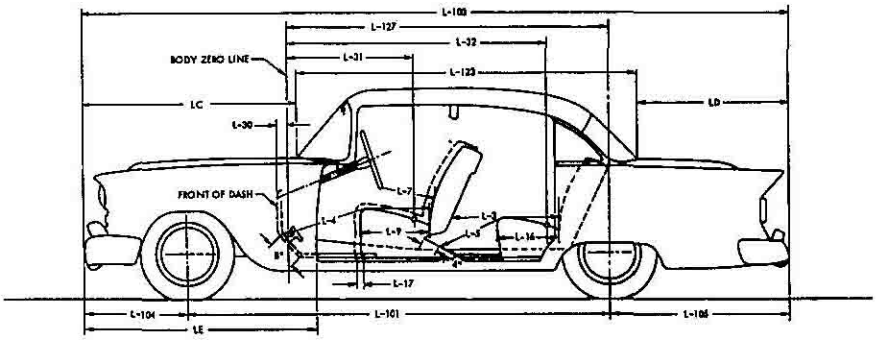
BODY—LENGTH DIMENSIONS



	MODEL	SENECA PD4A-L POLICE SPECIAL
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	29.4
	L4. Leg room, front. Ball of foot to top of seat to seat back	46.3
	L5. Leg room, rear. Ball of foot to top of seat to seat back	44.1
	L7. Steering wheel clearance to seat back taken on arc	16.3
	L9. Front seat depth. Front edge to vert. tan. of seat back	18.1
	L16. Rear seat depth. Front edge to vert. tan. of seat back	17.3
	L17. Maximum "A" point horizontal travel with normal seat adjustment	4.5
	L30. Vertical body zero line to actual front of dash. Measured horizontally*	3.7
	L31. Vertical body zero line to free "A" point, front	38.7
	L32. Vertical body zero line to free "A" point, rear	74.8
Exterior	L101. Wheelbase	122.0
	L103. Overall length. Incl. bumper guards if standard equipment	212.6
	L104. Overhang, front. Include bumper guards if stand. eq.	33.5
	L105. Overhang, rear. Include bumper guards if stand. eq.	57.1
	L123a. Body upper structure length at C/L, excl. molding	107.5
	L127. Vertical body zero line to centerline of rear wheels	102.0
	LC. Front of car to base windshield, excl. molding	57.2
	LD. Rear of car to base of rear window or upper structure, excl. molding	49.2
	LE. Front of car to front edge of front door	62.1

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

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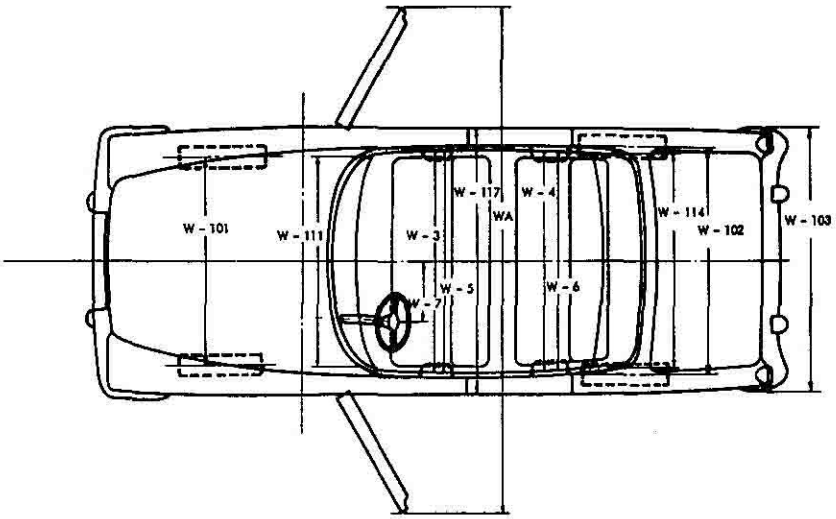
BODY—WIDTH DIMENSIONS



MODEL		SENECA PD4A-L POLICE SPECIAL
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	60.4
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	59.6
	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	62.4
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	15.7
Exterior	W101. Front tread at ground	61.5
	W102. Rear tread at ground	60.2
	W103. Max. overall width of car including bumpers or moldings	78.0
	WA. Max. overall width of car with doors open (2 & 4 door)	154.0
	W111. Windshield DLO, max. width	58.9
	W114. Back window DLO, max. width	59.7
	W117. Max. body width at center pillar, less hardware and applied moldings	75.8

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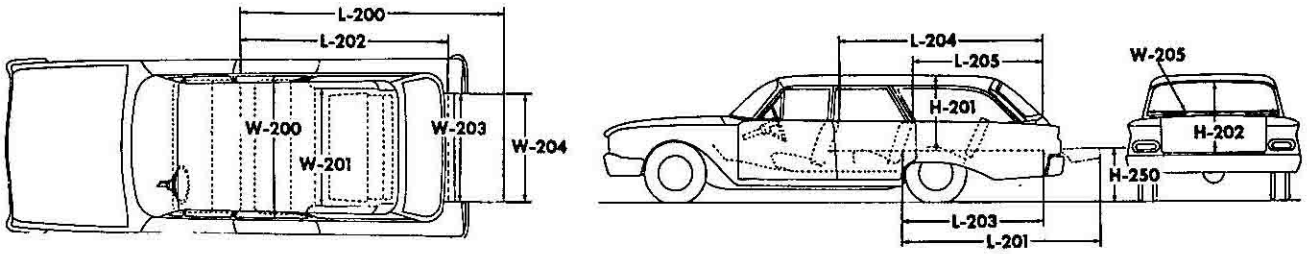
STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Front seat in full down and normal rear position for all measurements. Lengths and heights measured at car centerline.

MODEL	Not Applicable
L200 Floor length from back of front seat at floor level to end of lowered tail gate	
L201 Floor length from back of second seat at floor level to end of lowered tail gate	
L202 Floor length from back of front seat at floor level to inside of closed tail gate	
L203 Floor length from back of second seat at floor level to inside of closed tail gate	
L204 Minimum horizontal distance from top rear of front seat back to inside of top of tail gate	
L205 Minimum horizontal distance from top rear of second seat back to inside of top tail gate	
W200a Maximum width of cargo space at floor, specify location	
W201 Minimum distance between wheel houses at floor level	
W203 Rear end opening width at floor	
W204 Rear end opening width at top of tail gate	
W205 Maximum width of rear opening above raised tail gate	
H201 Maximum height, floor covering to headlining	
H202 Maximum height of rear opening, tail and lift gates open	
H250 Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight	
Third Seat, facing direction	
Tail and lift gates or sliding glass	

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MODEL SENECA PD4A-L POLICE SPECIAL

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Synthetic Enamel
Hood hinge location (front, rear)		Rear
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle (Serial) No. Location		Left Front Door Hinge Pillar, Lower
Engine No. Location		Front of Engine, Top Center
Theft protection - type		Ignition key start, Ignition switch terminal block, door locks
Vent window control method (crank, friction pivot)	Front	Friction pivot
	Rear	None
Seat spring type (coil, zigzag, etc.)		Formed wire
Windshield type (single curved, compound curved, other)		Compound curved
Rear window type (flat, curved, one piece, three piece)		One piece, curved
Side glass type (curved, flat)		Flat
Side glass exposed surface area		1186
Windshield glass exposed surface area		1575
Backlight glass exposed surface area		1283
Total glass exposed surface area		4044

BODY—TYPES AND STYLE NAMES—

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

BODY STYLES:	CODES
	SENECA V-8
Sedan 4-door, 6-passenger	PD4A-L

INDEX