

AMA Specifications – Passenger Car

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MANUFACTURER	DODGE DIVISION CHRYSLER CORPORATION	CAR NAME	DODGE
MAILING ADDRESS	DETROIT 31, MICHIGAN	MODEL YEAR	1961
		ISSUED:	7-15-60
		REVISED (•)	

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.

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BODY—TYPES AND STYLE NAMES—		Body type, number of passenger & style names; use manufacturer's code for series & body style.
		RD1-L POLARA
2-Door Hardtop, 6-Pass.		RD1-L-23
Convertible Coupe, 6-Pass.		RD1-L-27
4-Door Sedan, 6-Pass.		RD1-L-41
4-Door Hardtop, 6-Pass.		RD1-L-43
4-Door Hardtop Station Wagon, 2-Seat, 6-Pass.		RD1-L-46
4-Door Hardtop Station Wagon, 3-Seat, 9-Pass.		RD1-L-46

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.	RD1-L Polara			
		4-Dr. Sed. & H.T.	2-Door H.T.	Convertible	Station Wagon
Wheelbase (L-101)	23	122.0			
Tread	Front (W-101)	61.5			
	Rear (W-102)	60.2			
Maximum Overall Dimensions	Length (L-103)	212.5 (a)			214.8 (b)
	Width (W-103)	78.7			
	Height (H-101)	54.9		55.1	55.6
Transmission— (Specify trade name - opt., not available)	Manual	Standard			
	Overdrive	Not available			
	Automatic	Optional - TorqueFlite			
Axle ratio	Manual	3.23			
	Overdrive	---			
	Automatic	2.93 or 3.23			
Tire size	16	8.00 x 14			
Engine	Type, no. cyl., valve arr.	2 90° V-8, In-line, OHV			
	Fuel system (Carb., other)	6 2-bbl Carb.			
	Bore and stroke	2 4.12 x 3.38			
	Piston displ., cu.in.	2 361.0			
	Std. compression ratio	2 9.0			
	Max. bhp at engine rpm	2 265 @ 4400			
	Max. torque at rpm	2 380 @ 2400			

(a) With special equipment bumper guards, add 2.8 in. for front and 1.9 for rear guards.

(b) Add 2.8 in. for special equipment front bumper guards.

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MODEL RD1

ENGINE—GENERAL

Type, no. cyls., valve arr.	V-8, OHV
Bore and stroke (nominal)	4.12 x 3.38
Piston displacement, c.u. in.	361
Bore spacing (C/L to C/L)	4.8
No. system (front to rear)	L. Bank 1-3-5-7 R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Compres. ratio (nominal)	9.0
Cylinder Head Material	Cast Iron
Cylinder Sleeve-Wet, dry, none	None
Number of mounting points	Front Two Rear One
Engine installation angle	1.0° Right, 3.5° Up
Taxable horsepower	Dia. 2 x No. Cyl. 2.5 54.4
Published max. bhp* @ eng. RPM	265 @ 4400
Published max. torque* (lb. ft. @ RPM)	380 @ 2400
Recommended fuel regular - premium	Regular
Idle speed (spec. neutral or drive)	Manual 500 (Neutral) Automatic 500 (Neutral)

ENGINE—PISTONS

Material	Aluminum Alloy
Description and finish	Slipper type, steel struts Elliptically-turned, tin-plated
Weight (piston only) oz.	25.3

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

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POWER TEAMS

[illegible]

(b) See 1961 AMA Specifications on high-performance packages for additional data.

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ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.042 - .048
	Skirt	Top	.00075 - .00125 (a)
		Bottom	---
Ring groove depth	No. 1 ring		.21
	No. 2 ring		.21
	No. 3 ring		.20
	No. 4 ring		None

ENGINE—RINGS

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

ENGINE—PISTON PINS

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

ENGINE—CONNECTING RODS

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

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

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 MODEL _____ RD1

ENGINE—CRANKSHAFT

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

ENGINE—CAMSHAFT

Location	Center of "V" above crankshaft		
Material	Hardenable cast iron with drive gear for distributor and cams for fuel and oil 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
Operating tappet clearance (indicate hot or cold)	Intake	Not applicable
	Exhaust	Not applicable
Timing marks on flywheel, damper, other		Stationary indicator on chain case cover

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MODEL _____ RD1

ENGINE—VALVE SYSTEM (cont.)

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

ENGINE—LUBRICATION SYSTEM

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

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ENGINE—LUBRICATION SYSTEM (cont.)

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

ENGINE—EXHAUST SYSTEM

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

ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.	Carburetor
Fuel Tank	Capacity (gals.) All exc. station wagons - 20; Station wagons - 21
Filler location	All exc. station wagons - rear bumper; Station wagons - L. R. quarter
Fuel Pump	Type (elec. or mech.) Mechanical
Locations	Right front side of engine
Pressure range	4-5 psi
Vacuum booster (std., optional, none)	None
Fuel Filter	Type Plastic and paper
Locations	(a)
Make & Model No.	WWC3-188-380943 (b)
Number of carbs., bbls. per carb. & type	2-bbl, downdraft
Barrel size	1-9/16
Choke type	Separate, automatic
Intake manifold heat control (exhaust or water)	Exhaust
Air clnr. type	Standard Paper, element, replaceable
Optional	None

(a) Plastic filter in fuel tank and a paper element filter between the fuel pump and carburetor.

(b) Used with closed crankcase ventilation system - mandatory equipment - California, special order all others - BBD-3132S, manual and automatic transmission.

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 MODEL _____ RD1

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure-Vent		
Radiator cap relief valve pressure	14 psi; 16 psi with air conditioning		
Circulation thermostat	Type (choke, bypass) ¹	Choke pellet	
	Starts to open at (°F)	180	
Water pump	Type (centrifugal, other)	Centrifugal	
	Number of pumps	One	
	Drive (V-belt, other)	V-belt	
	Bearing type	Ball, permanently sealed	
By-pass recirculation type (internal, external)		Internal	
Radiator core type (cellular, tube and fin, other)		Tube and spacer	
Cooling system capacity	With heater (qt.)	17	
	Without heater (qt.)	16	
	Opt. equipment-specify (qt.)	None	
Water jackets full length of cylinder (yes, no)		No	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	One, molded
		Inside diameter	Radiator end: 1.5; Water pump end: 1.75
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.5
	By-pass	Number and type (molded, straight)	None
		Inside diameter	--
Fan	Number of blades & Spacing		Four: 76°, 104°; With AC - Seven: 60°, 45°, 59°, 47°, 54°, 50°, 45°
	Diameter		18
	Ratio-fan to crankshaft rev.		.95 to 1; with Air Conditioning, 1.3 to 1
	Fan cutout type		Silent-Flite with Air Conditioning only
	Bearing type		See water pump
*Drive belts (Indicate belt used by letter)	Fan		Standard and with power steering - A; Air Conditioning - D
	EXTERIOR Alternator		" " " " " - A; " " " - C
	Water Pump		" " " " " - A; " " " - D
	Power Steering		B
	Air Conditioning		C
	Idler, Fan		D

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* Drive Belt Dimensions	A	B	C	D
Angle of V	36°			
Nominal length (SAE)	54.0	43.0	66.4	34.3
Width	.38	.50	.47	.38

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MODEL RD1

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Autolite 11-HS-59B, Gould National 11B-OE-59, Willard MB-24-59
	Voltage Rtg. & Total Plates		12; 66
	SAE Designation & Amp Hr. Rtg.		2SHB, 59
	Location		Under hood in left fender shield
	Terminal grounded		Negative
Alternator Generator	Make		Chrysler
	Model		2095060
	Type		3-phase full wave rectifier
	Ratio—Gen. to Cr/s rev.		2.32
Regulator	Gen. cut-in (hot)—engine rpm		375
	Make		Chrysler
	Model		2095700
	Type		Voltage only
	Cutout relay	Closing voltage @ generator rpm	Not applicable
		Reverse current to open	Not applicable
	Regu-lated	Voltage	13.7 - 14.3
		Current	Not applicable
	Voltage test con-ditions	Temperature	70°F
		Load	15 min. @ 15amp. - voltage check ●
		Other	Not applicable

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Chrysler
	Model		1889200
	Rotation (drive end view)		Clockwise
	Engine cranking speed		Cold - 35 rpm, Hot - 150 rpm
	Test conditions		Cold - SAE 5W @ -20°F Hot - SAE 30 with completely warmed engine
	Lock test	Amps	350
		Volts	4
		Torque (lb. ft.)	8.5
	No load test	Amps	78
		Volts	11
		RPM (min.)	3800
Motor control	Switch (solenoid, manual)		Solenoid, positive engagement
	Starting procedure		Manual 3-Speed Transmission: Depress accelerator pedal about 1/3, turn ignition key beyond "On" position. Automatic transmissions: Depress accelerator pedal about 1/3, push in "N" Neutral button, turn ignition key beyond "On" position.

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ELECTRICAL—STARTING SYSTEM (cont.)

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

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Autolite, Essex
	Model		Autolite 200567, Essex 67-160-2
	Amps	Engine stopped	3.0
		Engine idling	1.9
Distributor	Make		Autolite
	Model		IBP-4005-E
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° @ 500 - 900
		Intermediate points deg. @ rpm	0° - 4° @ 900 5° - 9° @ 1400
		Max deg. @ rpm	20° - 24° @ 4100
			0° @ 6" - 8.1"
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° @ 6" - 8.1"
		Intermediate points, deg @ in Hg	12° - 18° @ 12"
		Max. deg. in. Hg.	21° - 26° @ 16"
	Breaker gap (in.)		.014 - .019
	Cam angle (deg.)		27 - 32
Timing	Breaker arm tension (oz.)		17 - 21.5
	Crankshaft deg. @ rpm.		10 BTC @ 500
	Mark location		Stationary indicator on chain case cover
	Cylinder numbering system (see page 2)		Left Bank: 1-3-5-7 Right Bank: 2-4-6-8
	Firing order (see page 2)		1-8-4-3-6-5-7-2
Spark Plug	Make and model		Autolite A42
	Thread (mm)		14 mm
	Tightening torque (lb. ft.)		30 - 32
	Gap		.035
Cable	Conductor type		Resistor
	Insulation type		Synthetic rubber with neoprene jacket
	Spark plug protector		Silicone

ELECTRICAL—SUPPRESSION

Locations & type	Resistance-type spark plug and coil leads
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MODEL _____ RD1

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	Stewart Warner
	Trip odometer (yes, no)	No
Charge indicator—type		Ammeter
Temperature indicator—type		Electric - Thermal
Oil pressure indicator—type		Indicator Light
Fuel indicator—type		Electric - Thermal
Other		None
Ignition switch	Identify positions in order and circuits controlled	Center Position - Off 1st Position Clockwise - Ignition & Accessory Circuit Only 2nd Position Clockwise - Starter & Ignition Circuit Only 1st Position Counterclockwise - Accessory Circuit Only
	Provision for illumination	None
	Location	Right of steering column
Main light-ing switch	Identify positions and lamps controlled	Full in - Off 1st Position Out - Instrument, Tail, Parking & License Plate Lamps Full Out Position - Instrument, Tail, Head & License Plate Lamps
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 concentric with head lamp switch, automatic door switch - each door; stop lamp switch - brake pedal; directional signal switch - lever on steering column.
Other switches	Locations and de-vices controlled	Windshield Wiper Switch - One-speed, right of steering column (Variable speed special equipment) 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	Foot operated pump - optional
Horn	Type	Sea shell
	Number used	2
	Amp draw (each)	9-10

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ELECTRICAL—LAMP BULBS

		Dual horizontal: 2-4001, 2-4002
Headlamps & arrangement		1-1445
Headlamp beam indicator		2-1034 (a)
Parking		2-1034 (b)
Tail		2-1034 (b)
Stop		2-1034 (b)
Direction signal	Front	2-1034 (a)
	Rear	2-1034 (b)
	Indicator	1-1445
License plate		1-67 (c)
Instrument		2-57
Ignition lock		None
Back up		2-1073 *
Dome		1-1004
Clock		1-57*
Radio		1-57 *
Glove compartment		1-1891*
Speedometer		3-57
Transmission control		1-1816*
Handbrake indicator		1-57 *
Heater control		2-1816*
Trunk light		1-1004 *
Courtesy		1-90 (d)
Oil Indicator		1-57
Map		1-1004 (d)

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- (a) Integral Unit
- (b) Integral Unit, Double Filament Bulb
- (c) Two Lights on Station Wagon Models
- (d) Standard equipment for Convertible coupes, not available otherwise.

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MODEL Except Station Wagon | Station Wagon

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 lamp SFE-10 (a), Direction Indicator same as (a).

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

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	27.4	
		Highest	---	
	Stop		27.4	
	Backup		21.9	14.8
	License, rear		24.65	15.2
	Directional	Front	18.9	
		Rear	27.4	
	Headlamp	Inside	23.9	
		Outside*	23.5	
		Inside	34.9	
Distance from C/L of car to center of bulb	Tail	Outside	---	
		Inside	34.9	
	Stop		34.9	
	Backup		12.3	8.7
	License, rear		On car centerline	9.8
	Directions	Front	36.4	
		Rear	34.9	
	Headlamp	Inside	21.6	
		Outside*	28.4	

* If single headlamps are used enter here.

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MODEL RD1

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Borg & Beck dry plate, semi-centrifugal	
Type pressure plate springs	Coil	
Effective plate pressure (lb.)	1675	
No. of clutch driven discs	One	
Clutch facing	Material	Molded woven asbestos
	Outside & inside dia.	10.5 x 6.5
	Total eff. area (sq.in.)	106.8
	Thickness	0.125
	Engagement cushioning method	Flat springs, crimped
Release bearing	Type & method of lubrication	Sealed ball bearing; permanently lubricated
Torsional damping	Methods: springs, friction material	Coil springs

DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		3
Transmission ratios	In first	2.55
	In second	1.49
	In third	1.00
	In fourth	---
	In reverse	3.34
Synchronous meshing, specify gears		2nd and 3rd
Shift lever location		Steering column
Lubricant	Capacity (pt.)	4.25
	Type recommended	Multipurpose gear lubricant or GL-4
	SAE viscosity number	Summer
		SAE 80
		Winter
		SAE 75
		Extreme cold

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		Not available
	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		65	
Torque converter	Number of elements		Three
	Max. ratio at stall		2.2
	Type of cooling (air, water)		Water
Lubricant	Capacity—refill (pt.)		22
	Type recommended		Automatic Transmission Fluid - Type A, Suffix A
Special transmission features		Spring-loaded hydraulic valve to prevent accidental reverse engagements	

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MODEL RD1

DRIVE UNITS—PROPELLER SHAFT

Number used			One
Type (exposed, torque tube)			Exposed
Outer diameter x length* x wall thickness	Manual transmission		3.25 x 59.2
	Overdrive transmission		---
	Automatic transmission		2.75 x 59.21
Inter-mediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		---
Universal joints	Make		Detroit Universal
	Number used		Two
	Type (ball and trunion, cross, other)		Front: Ball and Trunion Rear: Cross
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Prepack
	Drive taken through (torque tube or arms, springs)		
Torque taken through (torque tube or arms, springs)			Rear springs

DRIVE UNITS—REAR AXLE

Description - (incl. limited slip differential)		Standard: Semi-floating, hypoid, 2-pinion differential. Sure Grip: Torque-bias, 4-pinion differential-cam operated clutches limit differential action.
Drive Pinion Offset		1.5
No. of differential pinions		Standard - 2, Sure Grip - 4
Gear ratio and No. of teeth	Manual transmission	See Supplement to Page 15
	Overdrive transmission	Not applicable
	Automatic transmission	See Supplement to Page 15
Ring gear pitch diameter & O.D.		8.75
Pinion adjustment (shim, other)		Solid Shim - (Washer)
Pinion bearing adj. (shim, other)		Shims
Wheel bearing type		Tapered Roller Bearing
Lubricant	Capacity (pt.)	4.00
	Type recommended	Multi-purpose gear lubricant, or lube. Designated API service GL-4 (a)
	SAE viscosity number	Summer
		Above -10F: SAE 90
		Below -10F: SAE 80
	Extreme cold	Below -30F: SAE 75

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

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(a) When equipped with Sure-Grip differential, use only MoPar Sure-Grip differential lubricant.

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Supplement to Page 15

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AXLE RATIO

SUPPLEMENTARY INFORMATION

MODEL	RD1	
	Std.	3.23 (42-13) (a)
Manual 3-Speed Transmission	Opt.	Not available

TorqueFlite Transmission	Std.	2.93 (41-14) (a)
	Opt.	3.23 (42-13) (a)

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

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MAKE OF CAR DODGE MODEL YEAR 1961 DATE: ISSUED 7-15-60 REVISED (*)
 MODEL RD1

DRIVE UNITS—WHEELS

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

DRIVE UNITS—TIRES

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

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)			Hydraulic, internal-expanding, contoured variable-depth web; Three platform total-contact brake shoes		
Power brake make & type (remote, integral, etc.)			Pedal-assist, vacuum (optional)		
Effective area (sq. in.)*			230		
Gross lining area (sq. in.)**			230		
Swept drum area (sq. in.)***			346		
Percent brake effectiveness—front			60		
Drum	Diameter	Front	11		
		Rear	11		
	Type and material		Cast Iron		
Brake lining	Bonded or riveted		Bonded		
	Front Shoe	Material		Molded asbestos	
		Size (length x width x thickness)	Front wheel	11.5 x 2.5 x 0.20	
			Rear wheel	11.5 x 2.5 x 0.20	
		Segments per shoe		One	
	Rear Shoe	Material		Molded asbestos	
		Size (length x width x thickness)	Front wheel	11.5 x 2.5 x 0.20	
			Rear wheel	11.5 x 2.5 x 0.20	
		Segments per shoe		One	
	Wheel cylinder bore	Front	1.125		
		Rear	1.125		
	Master cylinder bore			1.125	
Available pedal travel			6; with Power Brake: 4.63		
Line pressure at 100 lb. pedal load			650 psi; with Power Brake: 1210		
Shoe clearance adjustment			No major adjustment required		

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept areas for four brakes:

Widest lining contact width for each brake x its drum circumference.

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(a) 14 x 16 K standard on 3-seat station wagons.

(b) Station Wagons: 28 psi when fully loaded.

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MAKE OF CAR	DODGE	MODEL YEAR	1961	DATE ISSUED	7-15-60	REVISED	
MODEL		Manual Transmission		Automatic Transmission			

BRAKES—PARKING

Type of control	Foot operated, multiple pawl ratchet		
Location of control	Under instrument panel, left of steering column		
Operates on	Transmission output shaft		
If separate from service brakes	Type (internal or external)	External	Internal
	Drum diameter	6	7
	Lining size (length x width x thickness)	16.68 x 2.0 x 0.16	2-Shoes, Each: 6.53 x 2.0 x 0.16

FRAME or UNITIZED CONSTRUCTION

Type and description	Unit construction
----------------------	-------------------

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

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

SUSPENSION—FRONT

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

(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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MAKE OF CAR	DODGE	MODEL YEAR	1961	DATE: ISSUED	7-15-60	REVISED	
MODEL		Except Station Wagon	RD1	Station Wagon			

SUSPENSION FRONT (cont.)

Spring	Type	Torsion bar	
	Material	Chromium-alloy steel	
	Size (coil design height & I.D.; bar length x dia.)	40 x .990	40 x .990 (a)
	Spring rate (lb. per in.)	Not applicable	
	Rate at wheel (lb. per in.) (b)	130	130 (a)
Stabilizer	Design load (lb. @ design height)	Not applicable	
	Type (link, linkless, frameless)	Link type (3-seat wagons only)	
	Material & bar diameter	Steel - .750 (3-seat wagons only)	

STEERING

Mechanical (std., opt., NA)				Standard	
Power (std., opt., NA)				Optional	
Wheel diameter				Standard with manual transmission: 17.24 x 16.56 (c)	
Turning diameter	Outside front	Wall to wall (l. & r.)		46.8	
		Curb to curb (l. & r.)		44.0	
	Inside rear	Wall to wall (l. & r.)		26.2	
		Curb to curb (l. & r.)		27.2	
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		5.45		
Power	Type (coaxial, linkage, etc.)		Integral		
	Make		Own		
	Trade name		Constant-control		
	Gear	Type		Rack & sector	
		Ratios	Gear	15.7	
			Overall	19.15	
	Pump driven by		Belt from crankshaft pulley		
	Number wheel turns		3.5		
Linkage	Type		Symmetrical idler arm, equal length tie rods		
	Location (front or rear of wheels, other)		Rear		
	Drag link (trans. or longit.)		Transverse		
	Tie rods (one or two)		Two		

- (a) 3-seat station wagons: 40 x 0.970; Rate at wheel: 120
 (b) Less tires
 (c) 16.88 x 16.50 with automatic transmission.

(Continued)

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MAKE OF CAR DODGE MODEL YEAR 1961 DATE: ISSUED 7-15-60 REVISED _____
 MODEL _____ RD1

STEERING (cont.)

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

SUSPENSION—REAR

Type and description			Outboard, parallel, longitudinal		
Drive and torq. taken through (see page 15)			Rear springs		
Spring	Type		Leaf		
	Material		Steel		
	Size (length x width, coil design height and I.D.; bar length & dia.)		57 x 2.5		
	Spring rate (lb. per in.)		90-100 (station wagons: 120-130)		
	Rate at wheel (lb. per in.)		135 (station wagons: 165)		
	Design load (lb. at design height)		R: 680, L: 720 @ -.375 (a)		
	Mounting insulation type		Rubber		
	If leaf	No. of leaves		5 (station wagon: 6)	
		Inserts	Type and size	2 @ 2.5 x 2.5; 3 @ 3.5 x 2.5 (b)	
Material			Front: plastic; Rear: wax impregnated fabric		
Shackle (comp. or tens.)		Compression			
Stabilizer	Type (link, linkless, frameless)		None		
	Material		---		
Track bar type			None		

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(a) 4-door station wagons - R: 1000; L: 1040 @ -.375

(b) Station wagon: 3 @ 2.5 x 2.5; 3 @ 3.5 x 2.5

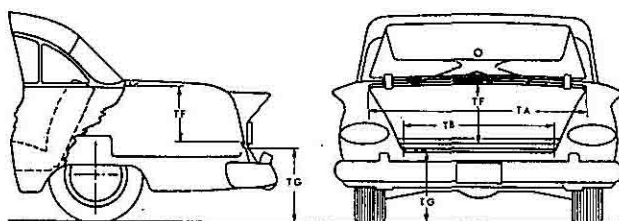
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BODY—GENERAL DEFINITIONS

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 Subcommittee 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.

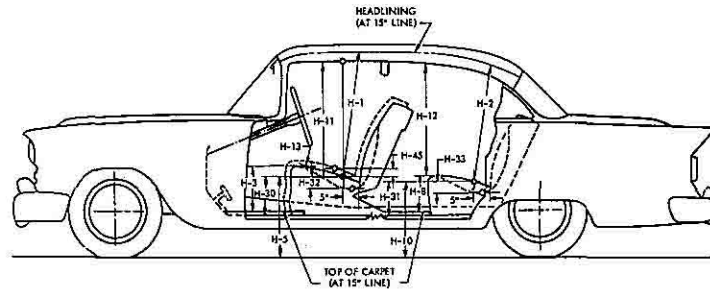
BODY—TRUNK DIMENSIONS



MODEL	RD1	4-Door Sedan 4-Door Hardtop	2-Door Hardtop	Convertible
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)		17.7	18.4	13.4
Total trunk volume in cu. ft. with spare tire in place		32.8	34.1	31.1
TA—Width across the top		56.0		
TB—Width across the bottom		50.4		
TF—Vertical dimension at C/L from bottom to top of opening		9.0		
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)		25.3		
Position of spare tire stowage		Horizontal - left side of trunk		
Method of holding lid open		Torsion bar		

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BODY—HEIGHT DIMENSIONS—INTERIOR



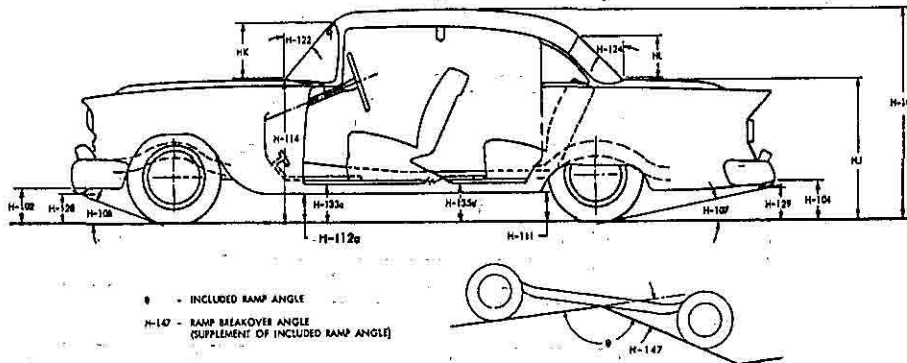
MODEL	RD1	4-Dr. Sedan	4-Dr. H.T.	2-Dr. H.T.	Conv.	Sta. Wag.
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)		33.3		33.2	34.6	33.9
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical		33.6	32.8	33.1	34.8	32.8
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)		11.4				
H5. Free "A" pt. to ground, front. Measured vertically		20.5				20.9
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)		13.2		11.9		15.3
H10. Free "A" point to ground rear. Measured vertically		19.3		18.1		20.7
H11. Entrance, front. Free "A" point to bottom of windcord, vertical		28.8	28.4			
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat		27.3	26.9	---		26.1
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)		6.0				
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line		10.5				10.1
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line		9.0		7.8		10.3
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point		4.5				
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point		4.5				
H45. Front seat maximum vertical rise at free "A" point		1.0				

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BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to lamps see page 12.

MODEL	RD1	4-Dr. Sedan	4-Dr. H.T.	2-Dr. H.T.	Conv.	Sta. Wag.
H101. Overall height, full design load		54.9			55.1	55.6
HB. Overall height, curb weight		56.7		56.6	56.9	58.2
H102. Front bumper bottom to ground at normal section, min. height		11.6				12.4
H104. Rear bumper bottom to ground at normal section, min. height		10.5				
H106. Angle of approach. To interfering point on bumper, guard, other		17.3°				18.4
H107. Angle of departure. To interfering point on bumper, guard, other		10.4				10.0
H111. Body Sill to Ground-Rear. Vertical dimension measured from bottom of body sill (rocker panel), excluding any flanges, to ground at front of rear wheel opening.		7.7				7.8 ●
H112a. Body Sill to Ground-Front. Measured vertically at foremost point of body sill (rocker panel), excluding flanges and front fender.		8.3				8.2 ●
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl		38.9				39.6
H122. Windshield normal slope angle to vertical line on car C/L		55°			50.5°	55°
H124. Backlight normal slope angle to vertical line on car C/L		57.5°		61.5°	59°	40.5°
H128. Bottom of front bumper guard to ground		11.3				12.1
H129. Bottom of rear bumper guard to ground		13.7				---
H133a. Bottom of front door to ground, min. dimension		11.3				11.4
H135a. Bottom of rear door to ground, min. dimension		11.2		---		11.2
H147. Ramp breakover angle		12.2°				13.0
H153. Min. road clearance at rear axle		7.2				
H156. Min. road clearance and location		5.2				5.3
HJ. Deck at rear window to ground		37.7				---
HK. Windshield DLO*. Vertical height at C/L		14.7				
HL. Back light DLO*. Vertical height at C/L		11.3	15.0	13.4	11.2	10.9

* See Note, page 20

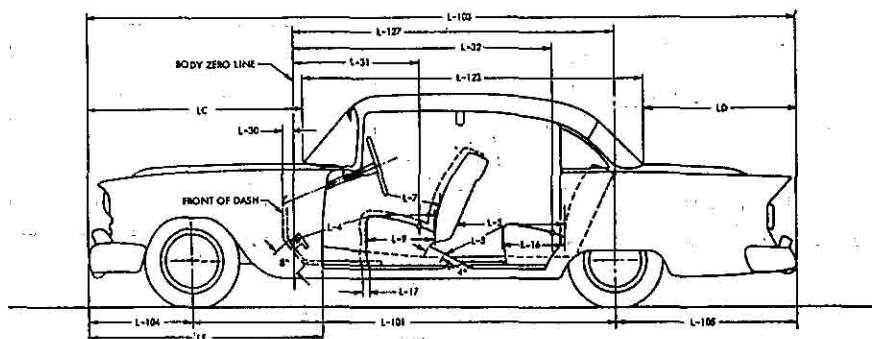
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BODY—LENGTH DIMENSIONS



MODEL	RD1	4-Door Sedan 4-Door H.T.	2-Door H.T.	Convertible	Station Wagon
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	30.3	26.8		30.1
	L4. Leg room, front. Ball of foot to top of seat to seat back		45.1		
	L5. Leg room, rear. Ball of foot to top of seat to seat back	42.4	38.6		43.3
	L7. Steering wheel clearance to seat back taken on arc		15.6		
	L9. Front seat depth. Front edge to vert. tan. of seat back		18.2		
	L16. Rear seat depth. Front edge to vert. tan. of seat back	17.3	17.5		
	L17. Maximum "A" point horizontal travel with normal seat adjustment		4.5		
	L30. Vertical body zero line to actual front of dash. Measured horizontally*		3.7		
	L31. Vertical body zero line to free "A" point, front		38.3		
Exterior	L32. Vertical body zero line to free "A" point, rear	74.8	70.9		75.7
	L101. Wheelbase		122.0		
	L103. Overall length. Incl. bumper guards if standard equipment	Std. - 212.4; with guards - 217.1			Std. - 214.8 Spec. - 217.6
	L104. Overhang, front. Include bumper guards if stand. eq.	Std. - 33.4; with guards - 36.2			
	L105. Overhang, rear. Include bumper guards if stand. eq.	Std. - 57.0; with guards - 58.9			59.4
	L123a. Body upper structure length at C/L, excl. molding	107.5	104.7	105.2	---
	L127. Vertical body zero line to centerline of rear wheels		102.0		
	LC. Front of car to base windshield, excl. molding		57.8		
	LD. Rear of car to base of rear window or upper structure, excl. molding	47.1	49.9	49.4	---
	LE. Front of car to front edge of front door		62.0		

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

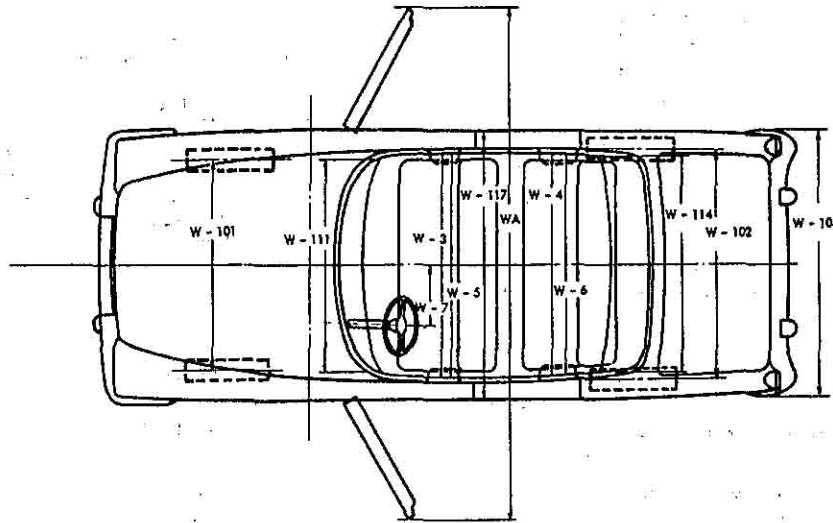
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BODY—WIDTH DIMENSIONS



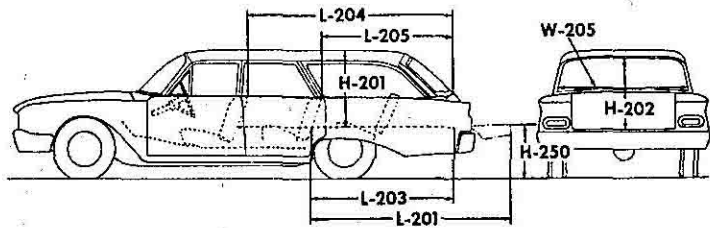
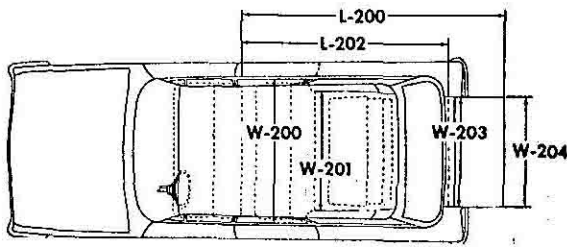
MODEL	RD1	4-Dr. Sedan	4-Dr. H.T.	2-Dr. H.T.	Convertible	Sta. Wagon
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	60.4				
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	59.6		59.3	56.0	59.6
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back	63.8				
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back	62.8		62.2	55.0	62.2
	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 incl. bumpers or moldings (specify location).	78.7				
	WA. Max. overall width of car with doors open (2 & 4 door)	154.0		167.8		154.0
	W111. Windshield DLO, max. width	58.9				
	W114. Back window DLO, max. width	59.7	59.8	56.8	57.6	48.6
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)	77.4 at rear wheel opening				
	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	RD1
L200 Floor length from back of front seat at floor level to end of lowered tail gate	121.3
L201 Floor length from back of second seat at floor level to end of lowered tail gate	86.0
L202 Floor length from back of front seat at floor level to inside of closed tail gate	100.7
L203 Floor length from back of second seat at floor level to inside of closed tail gate	65.4
L204 Minimum horizontal distance from top rear of front seat back to inside of top of tail gate	86.1
L205 Minimum horizontal distance from top rear of second seat back to inside of top of tail gate	50.5
W200a Maximum width of cargo space at floor, specify location	62.0 Immed. ahead of wheelhouse
W201 Minimum distance between wheel houses at floor level	45.8
W203 Rear end opening width at floor	49.2
W204 Rear end opening width at top of tail gate	49.2
W205 Maximum width of rear opening above raised tail gate	48.2
H201 Maximum height, floor covering to headlining at centerline of rear axle	31.8
H202 Maximum height of rear opening, tail and lift gates open	27.3
H250 Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight	28.0
Third Seat, facing direction	Rearward
Tail and lift gates or sliding glass	Sliding glass
Cargo volume index (cu. ft.) W4 (P. 24) X L204 X H201 1728	94.8

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MAKE OF CAR DODGE MODEL YEAR 1961 DATE ISSUED 7-15-60 REVISED (*)
 MODEL 4-Dr. Sedan 4-Dr. H.T. 2-Dr. H.T. Convertible Station Wagon

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 cushion type	Front	Formed wire				
	Rear	Formed wire	Zig zag	Formed wire		
Seat back type	Front	Formed wire	Cone coil	Formed wire		
	Rear	Formed wire	Cone coil	Formed wire		
Windshield type (single curved, compound curved, other)		Single curved	Compound curved	Single curved		
Rear window type (flat, curved, one piece, three piece)		One-piece, curved				
Side glass type (curved, flat)		Flat				
Side glass exposed surface area		1186	1230	1274	1054	2608
Windshield glass exposed surface area		1575				
Backlight glass exposed surface area		1344	1980	1905	1040	760
Total glass exposed surface area		4105	4785	4754	3669	4943

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MAJOR OPTIONAL ITEMS - WEIGHTS

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