AMA–40A

AMA Specifications—Passenger Car

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MANUFACTURER	CAR NAME	
DODGE DIVISION CHRYSLER CORPORATION	DODGE DART	
MAILING ADDRESS	MODEL YEAR	ISSUED: 8-14-68
DETROIT, MICHIGAN 48231	1969	REVISED (•) 2-11-69

NOTES:
1. The General 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 standard models without optional equipment. Significant deviations are noted.
   b. Nominal design dimensions are used throughout these specifications.

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BODY – TYPES AND STYLE NAMES – Body type, style names; use manufacturer's code for series & body style.

		2-Door Hardtop 23	Convertible Coupe 27	4-Door Sedan 41
Dart	Six			LL41
	V-8			
Swinger	Six	LL23		
	V-8			
Dart Custom	Six	LH23		LH41
	V-8			
Dart GT	Six	LP23	LP27	
	V-8			
GTS	V-8	LS23	LS27	

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for: 4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	23			27			41	
		LH, LP		LS	LP		LS	LL, LH	
		6-Cyl	V-8	V-8	6-Cyl	V-8	V-8	6-Cyl	V-8
WIDTH									
Track – Front	W101	57.4							
Track – Rear	W102	55.6							
Maximum overall car width	W103	69.6							
Body width at No. 2 pillar	W117	69.6							
LENGTH									
Body "O" to front of dash	L 30	0.48							
Wheelbase	L101	111							
Overall car length	L103	195.4							
Overhang – front	L104	32.9							
Overhang – rear	L105	51.5							
Body upper structure length	L123	91.2			94			92.5	
Body "O" line to ℄ of rear wheel	L127	97.2							
Body "O" line to w/s cowl point	L130	10.8							
HEIGHT									
Passenger Distribution (front & rear)		2-front; 3-rear							
Trunk/Cargo load (lbs.)		None							
Overall height	H101	52.6	52.9	52.7	53.4		53.3	53.6	53.9
Cowl height	H114	36.3	36.7	36.3	36.6	36.7	36.3		36.7
Deck height	H138	34.7	35.0	35.1	34.9		35.0	34.7	34.9
Rocker panel – front: To ground	H112	7.4	7.7	7.5	7.7		7.5	7.4	7.7
Rocker panel – front: From front wheel ℄	H112	29.3							
Rocker panel – rear: To ground	H111	6.1	6.4					6.1	6.4
Rocker panel – rear: From rear wheel ℄	H111	27.2							
Windshield slope angle	H122	50° 30'							
GROUND CLEARANCE									
Bumper to ground – front	H102	12.3	12.6	12.5	12.6		12.5	12.3	12.6 •
Bumper to ground – rear	H104	10.9	11.1	11.5	11.2	11.1	11.5	10.9	11.1 •
Angle of approach	H106	21.7	22.3	22.1	22.3		22.1	21.7	22.3 •
Angle of departure	H107	12.2	12.5	12.9	12.6	12.5	12.9	12.2	12.5 •
Ramp breakover angle	H147	11.4	12.1	11.4	12.1		11.4		12.1 •
Min. running clearance (Specify)	H156	5.1	5.3	5.2	5.1	5.3	5.2	5.1	5.3 •

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	LL, LH	LP, LS	LL, LH	LP, LS	
		23	27	41	23	27
		Bench Seats			Bucket Seats	
FRONT COMPARTMENT						
Effective head room	H61	37.3	38.6	38.3	38.0	38.7
Max. eff. leg room – accelerator	L34	41.7			41.6	
H Point to Heel point	H30	8.9			8.3	
H Point travel	L17	4.5				
Shoulder room	W 3	55.4				
Hip room	W 5	57.2				
Upper body opening to ground	H50	48.3 (d)	48.6	48.9 (e)	48.3 (d)	48.6
REAR COMPARTMENT						
H Point couple distance	L50	29.5		33.3	29.6	
Effective head room	H63	36.8	36.9	37.3	36.8	36.9
Min. effective leg room	L51	31.8		35.7	33.1	
H Point to Heel point	H31	10.3		11.1	10.3	
Min. knee room	L48	0.50		3.1	1.2	
Rear Compartment room	L 3	23.6	23.3	27.0	23.8	23.5
Shoulder room	W 4	55.4	54.8	55.4	55.4	54.8
Hip room	W 6	57.2	46.8	57.2	57.2	46.8
Upper body opening to ground	H51	--		48.4 (f)	--	
LUGGAGE COMPARTMENT						
Usable luggage capacity	V 1			14.1		
Liftover height	H195	21.9 (a)	22.2 (b)	21.9 (a)	22.5	22.5 (a)
Position of spare tire storage		--				
Method of holding lid open		Torsion bar				
STATION WAGON – THIRD SEAT						
Shoulder Room	W85	Not applicable				
Hip room	W86	"				
Effective leg room	L86	"				
Effective head room	H86	"				
Seat facing direction		"				
STATION WAGON – CARGO SPACE						
Cargo length at floor – front seat	L202	Not applicable				
Cargo length at belt – front seat	L204	"				
Cargo width – Wheelhouse	W201	"				
Opening width at belt	W204	"				
Maximum cargo height	H201	"				
Rear opening height	H202	"				
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	"				

(a) For V-8: 22.2
(b) LP-27 only
(c) LS-27 only
(d) For V-8: 48.6
(e) For V-8: 49.2
(f) For V-8: 48.7

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY		ENGINE					TRANSMISSION		AXLE RATIO (a) (Std. first) (Indicate A C ratio)
		Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM			
6-Cyl Exc. GTS	Std	170	1, 1-V	8.5	115 @ 4400	155 @ 2400	Manual 3-Speed		3.23, 3.55, 2.93**, 3.91**
							Automatic		2.76, 3.23, 3.55, 2.93**, 3.91**
	Opt	225	1, 1-V	8.4	145 @ 4000	215 @ 2400	Manual 3-Speed		3.23, 3.55, 3.91*
							Automatic		2.76, 3.23, 3.55, 2.93*, 3.91* •
V-8 Exc. GTS	Std	273	1, 2-V	9.0	190 @ 4400	260 @ 2000	Manual	3-Speed	3.23, 2.93*, 3.55*, 3.91*
								4-Speed	3.23, 3.55*, 3.91*
							Automatic		2.76**, 3.23, 2.93*, 3.55*, 3.91*
	Opt	318	1, 2-V	9.2	230 @ 4400	340 @ 2400	Manual	3-Speed	3.23, 3.55*, 3.91*
								4-Speed	3.23, 3.55*, 3.91*
							Automatic		2.76**, 3.23, 3.55*, 3.91*
GTS	Std	340	1, 4-V	10.5	275 @ 5000	340 @ 3200	Manual 4-Speed		3.23, 3.55*, 3.91*
Swinger	Opt						Automatic		3.23, 3.55*, 3.91*
GTS	Opt	383 Hi-Perf	1, 4-V	10.0	330 @ 5200	410 @ 3600	Manual 4-Speed		3.23, 3.55*, 3.91*
							Automatic		3.23, 3.55*, 3.91*

* SURE-GRIP only
** SURE-GRIP NA

(a) Axle ratios also available in SURE-GRIP
Standard ratios used with and without AC

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See Page 3 for Engine Usage

MODEL	170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
ENGINE – GENERAL						
Type, no. cyls., valve arr.	In-line, six, OHV		90° V-8, OHV			
Bore and stroke (nominal)	3.4 x 3.125	3.4 x 4.125	3.63 x 3.31	3.91 x 3.31	4.04 x 3.31	4.25 x 3.38
Piston displacement, cu. in.	170	225	273	318	340	383
Bore spacing (℄ to ℄)	(a)		4.46			4.8
No. system (front to rear) L. Bank	--		1-3-5-7			
No. system (front to rear) R. Bank	--		2-4-6-8			
Firing order	1-5-3-6-2-4		1-8-4-3-6-5-7-2			
Compres. ratio (nominal)	8.5	8.4	9.0	9.2	10.5	10.0
Cylinder Head Material	Cast iron					
Cylinder Block Material	Cast iron					
Cyl. Sleeve-Wet, dry, none	None					
Number of mtg. points Front	Two					
Number of mtg. points Rear	One					
Engine installation angle	Lateral: 0° inclined rear to front: 3°					
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$	27.7		42.2	48.9	52.2	57.8
Publishing max. bhp* @ eng. RPM	115 @ 4400	145 @ 4000	190 @ 4400	230 @ 4400	275 @ 5000	330 @ 5200
Publishing max. torque * (lb. ft. @ RPM)	155 @ 2400	215 @ 2400	260 @ 2000	340 @ 2400	340 @ 3200	410 @ 3600
Recommended fuel regular – premium	Regular				Premium	
ENGINE – PISTONS						
Material	Aluminum alloy					
Description and finish	Closed slipper-type, steel strut, elliptically turned, tin-plated				(c)	(b)
Weight (piston only) oz.	16.4		19.3	20.9	25.4	27.2
Clearance (limits) Top land	.024 min.		.017 min.	.018 min.	.020 min.	.022 min.
Clearance (limits) Skirt Top	.0005 to .0015					(d)
Clearance (limits) Skirt Bottom	-.0005 to +.0015					(e)
Ring groove depth No. 1 ring	.179		.191	.205	.210	.220
Ring groove depth No. 2 ring	.179		.191	.205	.210	.220
Ring groove depth No. 3 ring	.181		.182	.193	.198	.208
Ring groove depth No. 4 ring	--					

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

(a) 3.98 (1-2, 3-4, 5-6); 4.00 (2-3, 4-5)
(b) Closed slipper-type, steel strut, elliptically turned, tin-plated
(c) Open slipper type, otherwise as in (b) above
(d) .00025 to .00125
(e) -.00125 to +.00125

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See Page 3 for Engine Usage

ENGINE – RINGS

MODEL			170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
Function (top to bottom)	No. 1, oil or comp.		Compression					
	No. 2, oil or comp.		Compression					
	No. 3, oil or comp.		Oil					
	No. 4, oil or comp.		None					
Compression	Description - material, coating, etc.	#1	(a)		(c)		(b)	(c)
		#2	(d)					(e)
	Width		.078					
	Gap		.010 to .020				.013 to .023	
Oil	Description - material, coating, etc.		Cast iron	3-piece abutment-type, stainless steel spacer-expander with chrome-plated segments				
	Width		.188					
	Gap		Not applicable					
Expanders			Steel	See above				

ENGINE – PISTON PINS

Material		Carbon steel-carburizing grade					
Length		2.965		2.815	2.995		3.565
Diameter		.9008		.9842			1.0936
Type	Locked in rod, in piston, floating, etc.	Press-fit in rod		Floating			Press-fit in rod
	Bushing: In rod or piston	None		Rod			None
	Bushing: Material	--		Bronze on steel			--
Clearance	In piston	(f)		.0000 to .0005			(f)
	In rod	(g)		.0001 to .0006			(g)
Direction & amount offset in piston		Right .06					

ENGINE – CONNECTING RODS

Material		Drop-forged steel					
Weight (oz.)		25.7	26.8	25.6		26.7	28.6
Length (center to center)		5.707	6.699	6.123			6.358
Bearing	Material & Type	Lead-base babbitt on steel		Bi-metal grid		Tri-metal	
	Overall length	.985		.843			.927
	Clearance (limits)	.0002 to .0022				(h)	(i)
	End play	.006 to .012		.006 to .014 (j)			.009-.017(j)

(a) Cast iron, twist and taper, tin-plated
(b) Cast iron, twist and barrel-lap faced, moly-filled
(c) Cast iron, twist and radius-faced, tin-plated
(d) Cast iron, reverse twist and taper, lubrite-coated
(e) Cast iron, reverse twist and taper, tin-plated
(f) .00045 to .00075
(g) .0007 to .0014 interference
(h) .0002 to .0027
(i) .0005 to .0030
(j) Two rods

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MODEL

See Page 3 for Engine Usage

ENGINE – CRANKSHAFT

			170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
Material			Drop-forged steel		Cast ductile iron		Drop-forged steel	
Vibration damper type			Non-adhesive, rubber, dynamic					
End thrust taken by bearing (No.)			Three					
Crankshaft end play			.002 to .007					
Main bearing	Material & type		Lead-base babbitt on steel, removable, precision (c)					
	Clearance		.0002 to .0022 specified, .0005 to .0015 desired					
	Journal dia. and bearing overall length	No. 1	2.75 x 1.034		2.5 x 0.872			2.625x0.944
		No. 2	2.75 x 1.034		2.5 x 0.872			2.625x0.944
		No. 3	2.75 x 1.254		2.5 x 1.151			2.625x1.223
		No. 4	2.75 x 1.034		2.5 x 0.872			2.625x0.944
		No. 5	--		2.5 x 1.562			2.625x0.944
		No. 6	--					
		No. 7	--					
	Dir. & amt. cyl. offset		None					
Crankpin journal diameter			2.187		2.125			2.375

ENGINE – CAMSHAFT

Location			Right		Center of "V"			
Material			Hardenable cast iron; oil pump and distributor drive cast integrally					
Bearings	Material		Lead-base babbitt on steel					
	Number		Four		Five			
Type of Drive	Gear or chain		Chain				(a)	Chain
	Crankshaft gear or sprocket material		(b)				Steel	(b)
	Camshaft gear or sprocket material		Nylon-coated aluminum				Cast iron	Nylon-coated aluminum
	Timing chain	No. of links	50		68			50
		Width	.88		.63		.87	.75
		Pitch	.50		.375			.50

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)			NA		Std			
Valve rotator, type (intake, exhaust)			Low-friction lock on exhaust					
Rocker ratio			1.5:1					
Operating tappet clearance (indicate hot or cold)	Intake		.010 hot		Hydraulic			
	Exhaust		.020 hot		Hydraulic			

(Continued)

(a) Double roller chain.
(b) Malleable cast iron or sintered iron (Super Oilite).
(c) For 340 CID aluminum alloy on steel, removable, precision.

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MODEL

			See Page 3 for Engine Usage			
			170 CID; 225 CID	273 CID; 318 CID	340 CID	383 CID
ENGINE – VALVE SYSTEM (cont.)						
Timing (based on top of ramp points)	Intake	Opens (°BTC)	10	10	22	21
		Closes (°ABC)	50	50	66	67
		Duration - deg.	240	240	268	268
	Exhaust	Opens (°BBC)	50	58	74	79
		Closes (°ATC)	6	10	22	25
		Duration - deg.	236	248	276	284
	Valve opening overlap		16	20	44	46
Intake	Material		SAE 1041		Silchrome XB	SAE 1041
	Overall length		4.77	4.98	4.99	4.87
	Actual overall head dia.		1.62	1.78	2.02	2.08
	Angle of seat & face deg.		Seat: 44.5 - 45; valve: 45 - 45.5			
	Seat insert material		None			
	Stem diameter		.372 - .373			
	Stem to guide clearance		.001 - .003			
	Lift (@ zero lash)		.394	.372	.430	.450
	Outer spring press. & length	Valve closed (lb. @ in.)	62 @ 1.65	92 @ 1.65	96 @ 1.65	125 @ 1.86
		Valve open (lb. @ in.)	154 @ 1.26	185 @ 1.28	242 @ 1.21	200 @ 1.43
	Inner spring press. & length	Valve closed (lb. @ in.)	None		Surge damper	
		Valve open (lb. @ in.)	None		Surge damper	
Exhaust	Material		21-4N			
	Overall length		4.80	5.00		4.89
	Actual overall head dia.		1.36	1.50	1.60	1.74
	Angle of seat & face		47 - 47.5	Seat: 44.5 - 45; valve: 45 - 45.5		
	Seat insert material		None			
	Stem diameter		.371 - .372			
	Stem to guide clearance		.002 - .004			
	Lift (@ zero lash)		.390	.400	.445	.465
	Outer spring press. & length	Valve closed (lb. @ in.)	62 @ 1.65	92 @ 1.65	96 @ 1.65	115 @ 1.86
		Valve open (lb. @ in.)	154 @ 1.26	192 @ 1.25	244 @ 1.20	234 @ 1.41
	Inner spring press. & length	Valve closed (lb. @ in.)	None		Surge damper	None
		Valve open (lb. @ in.)	None		Surge damper	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		Splash	Pressure		
	Timing gear or chain		Jet			
	Cylinder walls		Metered jet spray			

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MODEL

See Page 3 for Engine Usage			
170 CID 225 CID	273 CID 318 CID	340 CID	383 CID

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Rotary
Normal oil pressure (lb. engine rpm)	45-65 @ 2000
Oil press. sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part., other)	Full flow
Filter replacement (element, complete)	Complete (a)
Capacity of c case, less filter-refill (qt.)	4
Oil grade recommended (SAE viscosity and temperature range) (b)	Consistently above +32F . . . . . SAE 10W-30, SAE 20W-40, or SAE 30 Occasionally as low as -10F. . . . . SAE 10W-30 Consistently between +32F and -10F . . SAE 10W-30 or SAE 10W Consistently below +10F . . . . . SAE 5W-20
Engine Service Reqmt. (MM, MS, etc.)	MS

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single	Single with crossover	Dual	
Muffler No. & type (reverse flow, straight thru, separate resonator)		One, 3-pass., 4-partition	One, 3-pass., 3-partition	Two, 3-pass., 3-partition	
Exhaust pipe dia. (O.D., wall thick.)	Branch	--	1.75 x .067	--	
	Main	1.88 x .067	2.00 x .067	2.25 x .075	2.50 x .075
Tail pipe dia. (O.D. & wall thickness)		1.75 x .043	1.88 x .043	2.25 x .043	

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction system	
	Optional	--	
Control Unit	Make and model	(c)	2843257; 2843256 (d)
	Location	Cylinder head cover outlet	
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
	Control method (variable orifice, fixed orifice, other)	Variable orifice	
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold, at or below base of carburetor	
	Air inlet (breather cap, carburetor air cleaner, other)	Tube from carburetor air cleaner intake horn to oil filler cap	
	Flame arrestor (screen, check valve, other)	Check valve	

(a) Change filter every second oil change; replacement part number: 1851658 (MoPar L-72)
(b) Recommended oil change interval: every three months or 4000 miles, whichever comes first
(c) Chicago Screw P/N 2843258; United Air Cleaner P/N 2863189
(d) Chicago Screw P/N 2843257; United Air Cleaner P/N 2843256

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MODEL | All Engines

ENGINE – EXHAUST EMISSION CONTROL (a)

Type (Air injection, engine modifications, other) & name			Engine modifications; Cleaner Air System
Air Injection Pump	Type		Not applicable
	Displacement		"
	Drive ratio		"
	Drive type		"
	Relief valve (type)		"
	Filter (describe)		"
Air Injection System	Air distribution (head, manifold, etc.)		"
	Point of entry		"
	Injection tube I.D.		"
	Check valve type		"
	Backfire protection (type)		"
Carburetor	Make		See page 10
	Model		"
	Barrel size		"
	Idle speed	Drive	"
		Neutral	"
	Idle A/F mixture		"
Distributor	Aux. Adv. Systems (type)		None
	Make		Chrysler
	Model		See page 13
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	"
		Intermed. points deg. @ rpm	"
		Max. deg. @ rpm	"
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg) Intermed. points deg. @ in. Hg Max. deg. @ in.	"
	Vacuum Source		Carburetor port
Timing - Crank degrees @ rpm			See page 13
Cooling System			None
Exhaust System			None

(a) Maintenance: every 6 months inspect crankcase ventilator valve, oil filler pipe cap, associated hoses. Clean oil filler cap. Test ventilator valve for proper operation. Every year replace crankcase ventilator valve.

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See Page 3 for Engine Usage

MODEL	170 CID	225 CID	273 CID	318 CID	340 CID	383 CID

ENGINE – FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger			Carburetor			
Fuel Tank	Refill capacity (U.S. gals.)		18			
	Filler location		Outside left rear fender			
Fuel Pump	Type (elec. or mech.)		Mechanical			
	Locations		Right center	Right front		
	Pressure range		3.5 to 5	5 to 7		3.5 to 5
Vacuum booster (std., optional, none)			None			
Fuel Filter	Type		Fuel tank: plastic; fuel line: paper 2525254 (a)			
	Locations		One in fuel tank, one in fuel supply line			
Carburetor	Choke type		Automatic, separate			
	Intake manifold heat control (exhaust or water)		Exhaust			
	Air cleaner type	Standard (b)	2206376	1739547	2863349	
		Optional	--			
	Idle speed (spec. neutral or drive)	Manual	750	700	750	700
		Automatic	750	650	700	650
	neutral	Idle A/F mix.	14.0 to 14.4			

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage		Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
Std: 6-Cyl		170	Manual	Carter	BBS-4601S	1, 1-V	1.56
			Automatic		BBS-4602S		
Opt: 6-Cyl		225	Manual	Holley	R-4161A		1.69
			Automatic		R-4162A		
Except GTS	Std V-8	273	Manual	Carter	BBD-4605S	1, 2-V	1.44
			Automatic		BBD-4606S		
	Opt V-8	318	Manual		BBD-4607S		
			Automatic		BBD-4608S		
Std: GTS, Opt: Swinger		340	Manual		AVS-4611S	1, 4-V	P: 1.44 • S: 1.69
			Automatic		(c) AVS-4612S		
Opt: GTS		383	Manual		AVS-4615S		
			Automatic		AVS-4682S		•

(a) Replace every 2 years or 24,000 miles with Part Number above.
(b) Paper element. Clean every 6 months. Replace every 2 years with Part Number above.
(c) With AC: AVS-4639S •

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 6-21-68 **REVISED** (•)

MODEL

See Page 3 for Engine Usage

ENGINE – COOLING SYSTEM

		170 CID	225 CID w/o AC	225 CID w/AC	273 CID w/o AC	273 CID w/AC	318 CID w/o AC	318 CID w/AC	340 CID w/o AC	340 CID w/AC	383 CID w/o AC
Type system (pressure, pressure vented, atmospheric, other)		Pressure-Vented									
Radiator cap relief valve pressure		16									
Circulation thermostat	Type (choke, bypass)	Choke, pellet									
	Starts to open at (°F)	200	190								
Water pump	Type (centrifugal, other)	Centrifugal									
	GPM @ 1000 pump rpm	NA									
	Number of pumps	One									
	Drive (V-belt, other)	V-belt									
	Bearing type	Ball, integral shaft, permanently-sealed									
By-pass recirculation type (inter., ext.)		External									Internal
Radiator core type (cellular, tube and fin, other)		Tube and spacer									
Cooling system capacity	With heater (qt.) (z) pg 12	12	13	15	17	19	17	19	16		
	Without heater (qt.)	11	12	14	16	18	16	18	15		
	Opt. equipment-specify (qt.) (a)	13	15		19				16		--
Water jackets full length of cyl. (yes, no)		No			Yes						No
Water all around cylinder (yes, no)		Yes									
Radiator hose	Lower — Number and type (molded, straight)	One, molded									
	Lower — Inside diameter	1.50									1.75
	Upper — Number and type (molded, straight)	One, molded									
	Upper — Inside diameter	1.50									
	By-pass — Number and type (molded, straight)	One, straight			One, molded						None
	By-pass — Inside diameter	0.68			0.80						--
Fan	Number of blades & spacing	4		7	4	7					
	Diameter	16	17		18						
	Ratio-fan to crankshaft rev.	1.07:1	1.10:1		.95:1		1.3:1	.95:1	1.3:1		.95:1
	Fan cutout type	None					(b)	Torque	(b)		None
	Bearing type	See water pump									
*Drive belts (indicate belt used by letter)	Fan	A	C		F		J	F	J		F
	Generator or alternator	A	C		F		J	F	J		F
	Water Pump	A	C		F		J	F	J		F
	Power Steering	B	B		G		G (c)				D
	Air Conditioning	--	E		--	H	--	H	--	H	--

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V, degrees	36	36	36	36	36	36	36	36	36	36	
Nominal length (SAE)	54.5	40.75	57.0	43.0	53.0	46.5	42.5	50.0	42.0	48.0	
Width	.38	.38	.38	.38	.50	.38	.50	.50	.50	.38	

(a) Maximum cooling (b) Thermal (c) With .94 pump; "I" with 1.06 pump

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 6-24-68 **REVISED** (•)

See Page 3 for Engine Usage

MODEL

ELECTRICAL – SUPPLY SYSTEM

			170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
Battery	Make and Model (a)		20-HB-38	24-MB-48				24-MB-59
	Voltage Rtg. & Total Plates		12, 42	12, 54				12, 66
	SAE Designation & Amp. Hr. Rtg.		9HCO, 38	9HC3, 48				9HC3-A,59
	Location		Left front fender side shield					
	Terminal grounded		Negative					
Generator or Alternator	Make		Chrysler					
	Model (b)		2642538	2642537				2642537(c)
	Type and rating		30 amp-hr	37 amp-hr				37 amp-hr(d)
	Output at engine idle (neutral)		--					
	Ratio–Gen. to Cr/s rev.		2.70:1	2.40:1				2.55:1
Regulator	Make		Chrysler					
	Model		2098300					
	Type		Voltage control					
	Cutout relay	Closing voltage generator rpm	--					
		Reverse current to open	--					
	Regulated	Voltage	13.5 to 14.5 @ 70°F ambient					
		Current	--					
	Voltage test conditions	Temperature	70°F					
		Load	15 amp					
		Other	After running engine 15 min. @ 1250 rpm with 15-amp load					

ELECTRICAL – STARTING SYSTEM

				170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
Starting Motor	Make			Chrysler					
	Model			2098500(e)	2095150 (f)				
	Rotation (drive end view)			Clockwise					
Motor control	Switch (solenoid, manual)			Solenoid					
	Starting procedure			With transmission in "Neutral" or "Park" depress accelerator pedal to floor and release. Turn ignition key to start position and release when engine starts. When engine is running smoothly tap accelerator pedal to reduce fast idle speed.					
Motor Drive	Engagement type			Solenoid					
	Pinion meshes (front, rear)			Front					
	Number of teeth	Pinion		10					
		Flywheel	Manual	122					130
			Auto.	122					
	Flywheel tooth face width		Manual	0.340					
			Auto.	0.340					

(a) MoPar
(b) Three-phase full-wave rectified
(c) With air conditioning 2098850
(d) With air conditioning 46 amp-hr
(e) Replaced during production year by 2875570
(f) Replaced during production year by 2875560 (on 383 use only 2095150)
(z) (Refer to page 11) Protect cooling system with Glycol-base antifreeze. Alcohol-base antifreeze is not recommended because of its low boiling point.

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 6-24-68 **REVISED** (•)

See Page 3 for Engine Usage

MODEL	170 CID	225 CID	273 CID	318 CID	340 CID	383 CID

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Std				
	Transistorized – Std., Opt., N.A.		NA				
	Other (specify)		--				
Coil	Make		Chrysler-Prestolite or Chrysler-Essex				
	Model		Prestolite: 2444242; Essex: 2444241				
	Amps	Engine stopped	3.0				
		Engine idling	1.9				
Distributor	Make		Chrysler				Prestolite
	Model		See page 13A				
	Centrifgal adv. in c shaft degrees @ engine rpm (nominal)	Start (rpm)	"				
		Intermediate points deg. @ rpm	"				
		Max. deg. @ rpm	"				
	Vacuum adv. in c shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	"				
		Intermediate points, deg. @ in. Hg.	"				
		Max. deg. in. Hg.	"				
	Breaker gap (in.)		0.017 - 0.023	0.014 - 0.019			
	Cam angle (deg.)		42 - 47	30-35	(a)		
	Breaker arm tension (oz.)		17 - 20		17 - 21.5		
Timing	Crankshaft deg. @ rpm		See page 13A				
	Mark location		"				
Spark Plug	Make & Model	MoPar	P-6-6P		--		P-3-4P
		Champion	N-14Y		N-9Y		J-11Y
	Thread (mm)		14 mm				
	Tightening torque (lb. ft.)		30 - 32				
	Gap		0.035				
Cable	Conductor type		Resistor				
	Insulation type		(b)	Synthetic rubber with Hypalon jacket			
	Spark plug protector		Hypalon	Silicone			

ELECTRICAL – SUPPRESSION

Locations & type	Resistance-type spark plug and coil cables

(a) One set of points 27 - 32; both sets of points 37 - 42
(b) Synthetic rubber with Neoprene jacket

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-24-68 REVISED (•)

AVAILABILITY

(See Page 3 for Engine Usage)

		170 CID	225 CID	273 CID	318 CID	340 CID	383 CID Hi-Perf.
Distributor	Manual	2875813	2875822	2875790	2875796	2875782	2875715
	Automatic	2875855	2875826			2875779	2875846
Timing	Manual	5 ATC	TDC	2.5 ATC	TDC		
	Automatic	TDC		2.5 ATC	TDC	5 BTC	

SPECIFICATIONS

DISTRIBUTOR PART NUMBER	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Degrees at Inches of Mercury		
	Start	Intermediate	Maximum	Start	Intermediate	Maximum
2875715	0 @ 900	25 @ 1500	36 @ 5000	0 @ 6.5	12 @ 11.0	21 @ 15.0
2875779	0 @ 900	15 @ 1450	22 @ 4000	0 @ 6.0	11 @ 9.0	8.5 @ 10.5
2875782	0 @ 900	20 @ 1450	26 @ 3600	0 @ 6.0	11 @ 9.0	8.5 @ 10.5
2875790	0 @ 850	24 @ 1400	30 @ 3800	0 @ 6.5	14 @ 10.0	24 @ 13.5
2875796	0 @ 850	14.5 @ 1300	36 @ 4800	0 @ 9.0	11 @ 12.0	19 @ 15.0
2875813	0 @ 900	26 @ 1900	36 @ 4400	0 @ 6.0	7 @ 8.0	14 @ 10.0
2875822	0 @ 850	20 @ 1650	26 @ 4000	0 @ 8.0	8 @ 12.0	13 @ 15.0
2875826	0 @ 850	20 @ 1650	26 @ 4000	0 @ 6.0	8 @ 8.0	13 @ 9.5
2875846	0 @ 900	25 @ 1500	36 @ 5000	0 @ 6.5	12 @ 11.0	21 @ 15.0
2875855	0 @ 900	18 @ 1300	30 @ 4400	0 @ 6.0	7 @ 8.0	14 @ 10.0

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-24-68 REVISED (a)

MODEL: All Models

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	In-line drive, pointer
	Trip odometer (yes,no)	No
Charge indicator – type		Ammeter
Temperature indicator – type		Electric, thermal
Oil pressure indicator – type		Light
Fuel indicator – type		Electric, thermal
Other		Brake system and parking brake warning light
Windshield wiper	Type – Standard	Electric, two-speed
	Type – Optional	Electric, variable-speed
Windshield washer	Type – Standard	Pump; foot-operated
	Type – Optional	Electric
Horn	Type	4-inch sea shell
	Number used	2 (a)
	Amp draw (each)	Spartan Automotive: 6-8 amp; Prestolite: 4-6 amp

DRIVE UNITS – CLUTCH (Manual Transmission)

MODEL		See Page 3 for Engine Usage					
		170 CID	225 CID	273 CID	318 CID	340 CID 4V	383 CID 4V
Make & type dry plate		Auburn; Borg & Beck		Borg & Beck			
Type pressure plate springs		Coil					
Total spring load (lb.) min.		1330	1375	1618	1693	2181	
No. of clutch driven discs		One					
Clutch facing	Material	Woven asbestos					
	Outside & inside dia.	9.25 x 6.00		10.0 x 6.75	10.5 x 6.5		
	Total eff. area (sq.in.)	77.8		85.5	106.8		
	Thickness	0.114		0.125			
	Engagement cushioning method	Two-piece cushion		Flat-wave springs			
Release bearing	Type & method of lubrication	Ball bearing permanently lubricated					
Torsional damping	Methods: springs, friction material	Coil springs and friction washers					

(a) on L price class: one horn standard; two optional

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 6-24-68 **REVISED** (•)2-11-69

See Page 3 for Engine Usage

MODEL	170 CID	225 CID	273 CID	318 CID	340 CID	383 CID

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Std					NA
Manual 4-speed (std. or opt.)	NA				Opt	
Manual with overdrive (std. or opt.)	NA					
Automatic (std. or opt.)	Opt					

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3		3 or 4		4
Transmission ratios	In first	3.22	2.95	3.02 or 2.66		2.66
	In second	1.84	1.83	1.76	1.91	1.91
	In third	1.00	1.00	1.00	1.39	1.39
	In fourth	--	--	--	1.00	1.00
	In reverse	4.14	3.80	3.95	2.58	2.58
Synchronous meshing, specify gears		2nd & 3rd				All forward speeds
Shift lever location		3-speed: steering column 4-speed: floor or console				
Lubricant	Capacity (pt.)	6.5		6.0		7.5
	Type recommended	(a)				
	SAE viscosity number: Summer	(a)				
	SAE viscosity number: Winter	(a)				
	SAE viscosity number: Extreme cold	(a)				

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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	
	SAE viscosity number: Winter	
	SAE viscosity number: Extreme cold	

(a) 3-speed: Automatic Transmission Fluid, Type AQ-ATF - 2848A for all temperature ranges; Multipurpose Gear Lubricant, SAE 90, may be used in warm climates.

4-speed: When necessary, add Multipurpose Gear Lubricant, SAE 140. During extremely cold weather, refill the transmission with Automatic Transmission Fluid, Type AQ-ATF, Suffix "A".

RECOMMENDED CHANGE INTERVAL: no oil change required except in severe service such as taxi or police operation, trailer towing, or continuous operation at higher-than-normal loading. Under these conditions, change oil at 36,000 miles or 3 years, and every 12,000 miles or each year thereafter.

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 6-24-68 **REVISED** (•) 2-11-69

MODEL	See Page 3 for Engine Usage					
	170 CID	225 CID	273 CID	318 CID	340 CID	383 CID

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	TorqueFlite						
Type describe	Torque converter with automatically-operated planetary gear transmission						
Selector location	Lever: steering column or console-mounted						
List gear ratios Selector Pattern and indicate which are used in each selector position	Reverse: 2.20 Drive: 2.45, 1.45, 1.00 2: 2.45, 1.45 1: 2.45						
Max. upshift speed–drive range	80	76	82	83	74		
Max. kickdown speed–drive range	71	68	73	74	67		
Torque convertor: Number of elements	Three						
Torque convertor: Max. ratio at stall	2.1:1						
Torque convertor: Type of cooling (air, liquid)	Liquid						
Torque convertor: Nominal diameter	10.75						11.75
Lubricant: Capacity–refill (pt.)	16						
Lubricant (a): Type recommended	Automatic Transmission Fluid, Type AQ-ATF-2848A •						
Special transmission features	None						

DRIVE UNITS – PROPELLER SHAFT

Number used	One				
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight tube				
Outer diam. x length* x wall thickness: Manual 3-speed trans.	3.00 x 54.36 x .065				--
Outer diam. x length* x wall thickness: Manual 4-speed trans.	--		3.00 x 51.53 x .065		
Outer diam. x length* x wall thickness: Overdrive transmission	NA				
Outer diam. x length* x wall thickness: Automatic transmission	3.00 x 54.36 x .065				3.25 x 47.81 x .065

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

(Continued)

(a) RECOMMENDED CHANGE INTERVAL: no oil change required except in severe service such as taxi or police operation, trailer towing, or continuous operation at higher-than-normal loading. Under these conditions, change oil at 36,000 miles or 3 years, and every 12,000 miles or each year thereafter.

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-24-68 REVISED (•)

MODEL

See Page 3 for Engine Usage					
170 CID	225 CID	273 CID	318 CID	340 CID	383 CID

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)	None		
	Lubrication (fitting, prepack)	None		
Slip Yoke	Type	Sliding spline		
	Number of teeth	25	29	
	Spline O.D.	1.156	1.325	
Universal joints	Make and Mfg. No.	7260	7290	
		Chrysler		
	Number used	Two		
	Type (ball and trunnion, cross)	Cross		
	Rear attach. (u-bolt, clamp, etc.)	C-clamp		
	Bearing — Type (plain, anti-friction)	Anti-friction		
	Bearing — Lubric. (fitting, prepack)	Prepack		
Drive taken through (torque tube or arms, springs)		Rear springs		
Torque taken through (torque tube or arms, springs)		Rear springs		

DRIVE UNITS – AXLE

Type (front, rear)		Rear		
Description		(a) Unitized carrier housing 7-1/4 outside diameter ring gear	(b) Separable car. hsng 8-3/4 out. dia. ring gear	
Limited Slip differential, type		Friction bias		
Drive Pinion Offset		1.625	1.50	
No. of differential pinions		2		
Pinion adjustment (shim, other)		Washer		
Pinion bearing adj. (shim, other)		Solid spacer	Shim pack	
Wheel bearing type		Ball	Tapered roller	
Lubricant	Capacity (pt.)	2	4	
	Type recommended	MIL-L-2105 B 2933565 (c)		
	SAE viscosity number — Summer	Above -10F . . . . . SAE 90		
	SAE viscosity number — Winter	Between -10F and -30F . . . . . SAE 80		
	SAE viscosity number — Extreme cold	Below -30F . . . . . SAE 75		

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.76	2.93	3.23		3.55		3.91	
No. of teeth	Pinion	17	14	13		11		11	
	Ring gear	47	41	42		39		43	
Ring Gear O.D.		7-1/4	7-1/4	7-1/4	8-3/4	7-1/4	8-3/4	7-1/4	8-3/4

(a) Except 273 CID with 4-speed and 318 CID with 3- or 4-speed.
(b) Also 273 CID with 4-speed and 318 CID with 3- or 4-speed.
(c) Axles with SURE-GRIP or limited slip identification tag use 2585318. No oil change required in normal service, except to provide correct viscosity grade for temperatures as described above. Factory fill oil is satisfactory to -30°F.

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 8-14-68 REVISED (•) 2-11-69

	Drum Brakes		Disc Brakes	All Brakes
MODEL	170 CID	225, 273, 318 CID	170, 225, 273, 318 CID	340, 383 CID

DRIVE UNITS – WHEELS

Type & material			Disc, steel		
Rim size & flange type		Std.	13 x 4.5 J (b)	14 x 4.5 J (b, c)	14 x 5.5 J
		Opt.	14 x 4.5 J 14 x 5.5 J	14 x 5.5 J	--
Attachment	Type (bolt or stud)		Stud		
	Circle diameter		4.0		
	Number and size		Five, 7/16-20 NF		

MODEL

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		6.50 x 13, 4-2 (a)	7.00 x 13, 4-2 (b)	6.95 x 14, 4-2 (b, c)	E70 x 14, 4-2 (d)
	Type (bias, radial, etc.)		Bias			
	Full rated Inflation Press.	Front	32	28	32	28
		Rear	32	28	32	28
	Rev. Mile at 50 MPH		851	830	819	804
Optional	Size, ply rating, & ply 4-2/4: fiberglass belted tires		6.50 x 13, 4-4 7.00 x 13, 4-2; 4-4 6.95 x 14, 4-2 C78 x 14, 4-2/4 D70 x 14, 4-2 E70 x 14, 4-2/4	7.00 x 13, 4-4 6.95 x 14, 4-2 C78 x 14, 4-2/4 D70 x 14, 4-2 E70 x 14, 4-2/4	C78 x 14, 4-2/4 D70 x 14, 4-2	E70 x 14, 4-2/4

BRAKES – PARKING

Type of control		T-handle, hand-operated
Location of control		Under left end of instrument panel
Operates on		Rear wheels
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

(a) Convertible: 7.00 x 13, 4-2
(b) 273 CID & 318 CID w/AC: 14 x 5.5 J; D70 x 14, 4-2
(c) Convertible w/225 CID & AC: 14 x 5.5 J; D70 x 14, 4-2
(d) Swinger 340 wo/AC; D70 x 14, 4-2; 30 psi F & R; 825 rev/mile

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-24-68 REVISED (*)

MODEL

BRAKES – SERVICE (a)

				Drum Brakes		Disc Brakes
				6-Cyl	V-8	
Type (drum) or (disc & no. of pistons)				Drum		Disc
Self adjusting (std., opt., N.A.)				Std		
Special Valving	Type (proportion, delay, metering, other)			--		Front: Proportioning Rear: Residual Pres.
Power brake make & type (remote, int., etc.)		Std.		--		Tandem
		Opt.		Integral		--
Effective area (sq. in.) *				153.4	156.2	102.3
Gross lining area (sq. in.) **				153.4	156.2	102.3
Swept area (sq. in.) ***				254.5	251.3	314.7
Front to Rear Effectiveness Relationship				Front: 60 Rear: 40		
Drum	Diameter (nominal)	Front		9	10	
		Rear		9	10	
	Type and material			Centrifuse or cast composite		Cast iron
Rotor	Outer working diameter			--		10.79
	Inner working diameter			--		7.16
	Working width			--		3.63
	Material & type (vented/solid)			--		Vented
Wheel cylinder bore	Front			1.00	1.125	1.638
	Rear			0.8125	0.9375	
Master Cylinder	Bore			1.00		
	displacement distribution	Front	%			
		Rear	%			
Pedal arc ratio				Manual: 6.7 Power: 3.75		
Line pressure at 100 lb. pedal load				800		
Shoe Clearance	Front			No major adjustment required		
	Rear			"		
Brake lining	Bonded or riveted			Bonded		
	Front Wheel	Material		Molded asbestos		
		Size (length x width x thickness)	Prim. or outboard	7.66 x 2.25 x .19	8.46 x 2.25 x .19	4.82 x 1.84 x 0.4
			Second. or inboard	9.82 x 2.50 x .24	11.06 x 2.25 x .24	4.82 x 1.84 x 0.4
		Segments per shoe		One		
	Rear Wheel	Material		Molded asbestos		
		Size (length x width x thickness)	Prim. or outboard	7.66 x 2.00 x .19	8.46 x 1.75 x .19	
			Second. or inboard	9.82 x 2.00 x .24	11.06 x 1.75 x .24	
		Segments per shoe		One		

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.
*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

(a) Inspect all brake linings for wear every 12,000 miles. Check master cylinder fluid level twice each year. Use only fluid conforming to SAE 70R3, or Chrysler Hi-Temp. brake fluid.

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-24-68 REVISED (•)

STEERING

MODEL					6-Cyl	V-8
Manual (std., opt., NA)					Std	
Power (std., opt., NA)					Opt	
Adjustable steering wheel (tilt, swing, other)			Type and description		--	
			(std., opt., NA)		NA	
Wheel diameter			Manual		16.0	
			Power		16.0	
Turning diameter (feet)	Outside front		Wall to wall (l. & r.)		40.5	
			Curb to curb (l. & r.)		37.8	
	Inside rear		Wall to wall (l. & r.)		21.9	
			Curb to curb (l. & r.)		22.6	
Manual	Gear		Type		Recirculating ball	
			Make		Chrysler	
		Ratios		Gear	Std: 24.0:1 Opt: 16.0:1	
				Overall	Std: 28.7:1 Opt: 19.15:1	
(a)	No. wheel turns (stop to stop)				Std: 5.3 Opt: 3.6	
Power	Type (coaxial, linkage, etc.)				Integral	
	Make				Chrysler	
	Gear		Type		Recirculating ball	
		Ratios		Gear	15.7:1	
				Overall	18.8:1	
	Pump driven by				Belt from crankshaft pulley	
(b)	No. wheel turns (stop to stop)				3.5	
Linkage	Type				Parallelogram, trailing, equal length tie rods	
	Location (front or rear of wheels, other)				Rear	
	Drag link (trans. or longit.)				Transverse center link	
(c)	Tie rods (one or two)				Two	
Steering Axis	Inclination at camber (deg.)				7.5° @ 0°	
	Bearings (type)		Upper		Ball joint	
			Lower		Ball joint	
			Thrust		Oil impregnated sintered metal	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)				Manual steering: -1/2° ± 9/16° Power steering: +3/4° ± 9/16°	
	Camber (deg.)				Left: +1/2° ± 1/4° Right: +1/4° ± 1/4°	
	Toe-in (outside track inches)				1/8" ± 1/32"	
Steering spindle & joint type					Ball Joint	
Wheel Spindle	Diameter		Inner bearing		Drum 1.0619 Disc 1.2494	1.2494
			Outer bearing		Drum 0.6869 Disc 0.7494	0.7494
	Thread size				Drum 11/16-24 NEF-3A (d)	3/4-16 UNF-3A
	Bearing type				Roller	

(a) Check lubricant level in steering gear twice a year. If necessary, replenish with Multipurpose Gear Oil, SAE 90, to cover worm completely.

(b) Check reservoir fluid level twice a year. Replenish to bottom of filler neck (cold) with power steering fluid part number 2084329.

(c) Inspect tie rod ends and ball joints twice a year. Lubricate every 36,000 miles with long-life chassis grease part number 2525035.

(d) For disc brakes: 3/4-16 UNF-3A.

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-24-68 REVISED (•)

See Page 3 for Engine Usage

MODEL	170 CID 225 CID	273 CID	318 CID 340 CID	383 CID

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling		Manual adjustment at torsion bar anchor bolt
Provision for brake dip control		By inclined upper control arms and asymmetrical rear springs
Provision for acc. squat control		Asymmetrical rear springs
Special provisions for car jacking		None
Shock absorber front & rear	Type	Direct
	Make	Chrysler
	Piston dia.	1.0
Other special features		None

SUSPENSION – FRONT (a)

Type and description		Independent, lateral, nonparallel control arms with torsion bars			
Spring	Type	Torsion bar			
	Material	Chromium alloy steel			
	Size (coil design height & I.D. bar length x dia.)	35.8 x .83	35.8 x .85	35.8 x .87	35.8 x .89
	Spring rate (lb. per in.)	Not available			
	Rate at wheel (lb. per in.)	85	92	100	110
Stabilizer	Type (link, linkless, frameless) link	Opt		Std: 340 CID Opt: 318 CID	Std
	Material & bar diameter	0.88			.94

SUSPENSION – REAR (b)

Type and description		Parallel, longitudinal leaf			
Drive and torque taken through		Rear springs			
Spring	Type	Semielliptical, asymmetrical			
	Material	Chromium alloy steel			
	Size (length x width, coil design height & I.D., bar length & dia.)	55 x 2.5			
	Spring rate (lb. per in.)	85		110	130
	Rate at wheel (lb. per in.)	105		132	150
	Mounting insulation type	Rubber			
	If leaf: No. of leaves	4 (c)	4-1/2	6	
	If leaf: Shackle (comp. or tens.)	Compression			
Stabilizer	Type (link, linkless, frameless)	None			
	Material	--			
Track bar type		None			

(a) Inspect front suspension ball joints twice a year. Replace damaged joints or seals. Lubricate every 3 years or 36,000 miles. Multimileage Lubricant (Part No. 2525035) is recommended.
(b) Do not lubricate rear springs, spring eye or shackle bushings, or shock absorber bushings. Lubricants cause deterioration of bushings.
(c) Five with 225 CID engine.

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MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-25-68 REVISED (•)

MODEL	41	23		27	
		L, H	P, S	P	S

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	Unit construction

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front			
	Rear doors	Front	--		
Type of finish (lacquer, enamel, other)		Buffable acrylic enamel			
Hood counterbalanced (yes, no)		Yes			
Hood release control (internal, external)		External			
Vehicle Indent. No. location		Left end instrument panel			
Engine No. location		NA			
Theft protection - type		Pin tumbler key locks on ignition switch, doors, luggage compartment			
Vent window control method (crank, friction pivot)	Front	Friction pivot			
	Rear	None			
Seat cushion type	Front	Formed wire	Zigzag	FW	
	Rear	Formed wire			
	3rd seat	--			
Seat back type	Front	Formed wire	Zigzag	FW	ZZ
	Rear	Formed wire		Coil	
	3rd seat	--			
Windshield glass type (i.e., single curved - laminated plate)		Single, curved, laminated, safety plate			
Side glass type (i.e., curved - tempered plate)		Curved, heat treated, safety sheet			
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Single, curved, heat treated, safety sheet			
Windshield glass exposed surface area		1117	1023		
Side glass exposed surface area		1348	1280	1146	
Backlight glass exposed surface area		875	874	625	
Total glass exposed surface area		3340	3177	2794	

FW: Formed wire
ZZ: Zigzag

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 6-25-68 **REVISED** (•) 2-11-69

MODEL All Models

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	NA
	Vent windows	NA
	Backlight or tailgate	--
Power seats (specify type as well as availability)		NA
Reclining front seat back (R-L or both)		NA
Front seat head restrainer (R-L or both)		Opt
Radios (specify type as well as availability)		Opt: AM AM-FM: dealer-installed
Rear seat speaker		Opt: dealer-installed
Power antenna		NA
Clock		NA
Air conditioner (specify type and availability)		Opt: except with 170 CID engine and 273 CID V-8 with 3-speed manual transmission
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		Opt
Dome lamp		Std, except 27
Glove compartment lamp		Opt
Luggage compartment lamp		Opt
Underhood lamp		Opt: dealer-installed
Courtesy lamp map		Opt; Std in 27
Map lamp		See above
Auto. trans. quad. lamp		Std with automatic transmission
Cornering light lamp		NA
Shoulder belts		Std: front seat; Opt: rear seat
Tachometer		Opt; V-8 only
Trailing towing		Opt
Rear window defogger		Opt; NA in 27
Headlamp "ON" warning buzzer		Opt

LAMP HEIGHT AND SPACING

			23	27 LP	27 LS	41	
Height above ground to center of bulb or marker	Headlamp	Highest *					
		Lowest					
	Tail	Highest	25.6 (a)	25.2 (b)	25.6	25.2 (a)	•
		Lowest					
	Sidemarker	Front					
		Rear					
Distance from C/L of car to center of bulb	Headlamp	Inside					
		Outside *					
	Tail	Inside					
		Outside	31.0				•
	Directional	Front					
		Rear					

* If single headlamps are used enter here.

(a) With 225 CID: 25.0 •

(b) With 225 CID: 25.3 •

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 7-8-68 **REVISED** (•) 2-11-69

WEIGHTS

6-Cylinder Models	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT		
				Pass. In Front		Pass. In Rear				
Model Dart & Swinger	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant	
2-Door Hardtop	1560	1310	2870	50.3	49.7	23.7	76.3	108 Lb	27 Lb	•
4-Door Sedan	1565	1315	2880	50.3	49.7	20.3	79.7	108	27	•
Dart Custom										
2-Door Hardtop	1565	1305	2870	50.3	49.7	23.7	76.3	108	27	•
4-Door Sedan	1565	1320	2885	50.3	49.7	20.3	79.7	108	27	•
Dart GT										
2-Door Hardtop	1565	1310	2875	50.4	49.6	23.7	76.3	108	27	•
Convertible Coupe	1605	1375	2980	50.3	49.7	23.7	76.3	108	27	•

Note: Shipping weight may be calculated by subtracting the fuel and coolant weights in the last columns from the curb weights in the third column.

Note: All Curb Weights Include Automatic Transmission

Accessories & Equipment Differential Weights				Remarks	
Air Conditioner	+108	- 5	+103		
225 CID Engine	+ 36	+ 7	+ 43	With automatic transmission	•
3-Speed Manual Trans.	- 16	- 3	- 19		
Power Steering	+ 43	- 2	+ 41		
Power Brakes	+ 11	+ 1	+ 12		
Radio	+ 5	+ 2	+ 7		
Undercoat	+ 19	+21	+ 40		•

*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

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MAKE OF CAR DODGE DART **MODEL YEAR** 1969 **DATE ISSUED** 7-8-68 **REVISED** (•) 2-12-69

WEIGHTS

Model	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT		
				Pass. In Front		Pass. In Rear				
	Fron.	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant	
V-8 Models										
Dart & Swinger										
2-Door Hardtop	1680	1350	3030	50.3	49.7	23.7	76.3	108 Lb	38 Lb	•
4-Door Sedan	1665	1370	3035	50.3	49.7	20.3	79.7	108	38	•
Swinger 340										
2-Door Hardtop	1770	1460	3230	50.3	49.7	23.7	76.3	108	36	•
Dart Custom										
2-Door Hardtop	1670	1350	3020	50.3	49.7	23.7	76.3	108	38	•
4-Door Sedan	1665	1370	3035	50.3	49.7	20.3	79.7	108	38	•
GT										
2-Door Hardtop	1670	1350	3020	50.4	49.6	23.7	76.3	108	38	•
Convertible	1720	1415	3135	50.3	49.7	23.7	76.3	108	38	•
GTS										
2-Door Hardtop	1760	1470	3230	50.4	49.6	23.7	76.3	108	36	•
Convertible	1805	1530	3335	50.3	49.7	23.7	76.3	108	36	•

Note: Shipping weight may be calculated by subtracting the fuel and coolant weights in the last columns from the curb weights in the third column.

Note: All Curb Weights Include Automatic Transmission

Accessories & Equipment	Differential Weights			Remarks	
Air Conditioner	+140	+16	+156	273 and 318 CID engine	
318 CID engine	+ 6	+ 7	+ 13	With automatic transmission	•
318 CID engine	+ 56	+57	+113	With 4-speed manual transmission	•
318 CID engine	+ 5	+51	+ 56	With 3-speed manual transmission	•
383 CID engine	+125	+10	+135	With automatic transmission - GTS only	•
383 CID engine	+162	+20	+182	With 4-speed manual transmission - GTS only	•
3-Speed Manual Trans.	0	- 1	- 1	273 CID engine	
4-Speed Manual Trans.	+ 33	+56	+ 89	273 CID engine	
4-Speed Manual Trans.	+ 22	+ 3	+ 25	340 CID engine - GTS/Swinger only	
Power Steering	+ 42	- 3	+ 39		
Power Brakes	+ 11	+ 1	+ 12		
Radio	+ 5	+ 2	+ 7		
Console	+ 13	+ 8	+ 21		•
Undercoat	+ 19	+21	+ 40		•

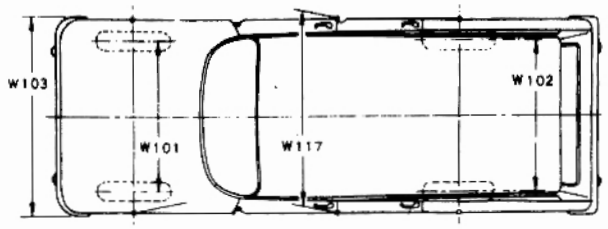
*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

AMA Specifications—Passenger Car

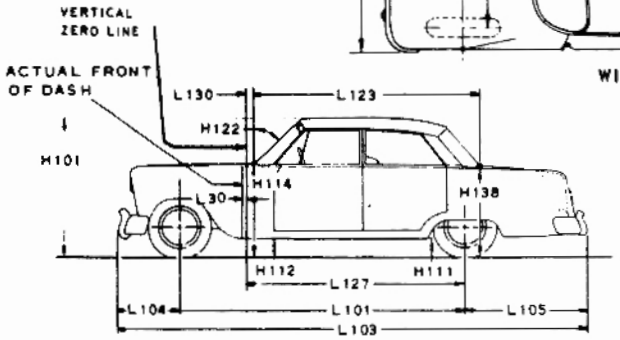
CAR AND BODY DIMENSIONS

KEY SHEET

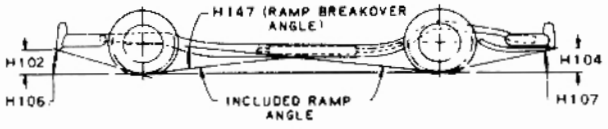
EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

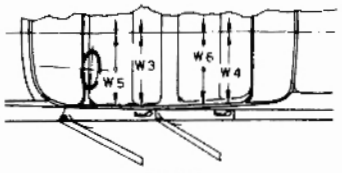


LENGTH & HEIGHT



GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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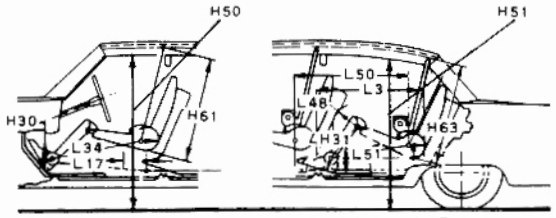
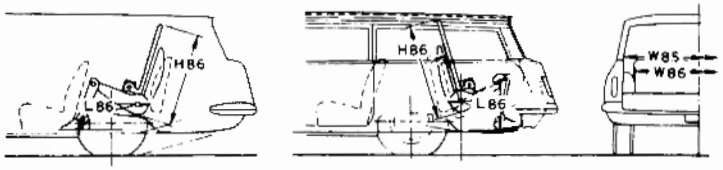
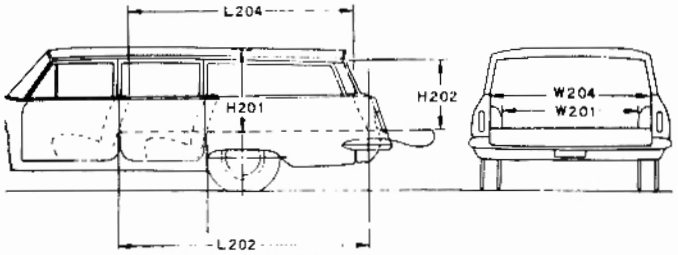


FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

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CAR AND BODY DIMENSIONS
KEY SHEET
DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

W101 WHEEL TREAD – FRONT. Measured at centerline of tires with nominal camber, at ground.

W102 WHEEL TREAD – REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.

W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (–) sign.

L101 WHEELBASE.

L103 OVERALL LENGTH. Include bumper guards if standard equipment.

L104 OVERHANG – FRONT. Measured from C L of front wheels to front of car, including bumper guards if standard equipment.

L105 OVERHANG – REAR. Measured from C L of rear wheels to rear of car, including bumper guards if standard equipment.

L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.

L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.

L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

H101 OVERALL HEIGHT – DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.

H114 COWL POINT TO GROUND. Measured at vehicle centerline.

H138 DECK POINT TO GROUND. Measured at vehicle centerline.

H112 ROCKER PANEL TO GROUND – FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

H111 ROCKER PANEL TO GROUND – REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.

H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

H102 BUMPER TO GROUND – FRONT. Minimum dimension, includes bumper guards.

H104 BUMPER TO GROUND – REAR. Minimum dimension, includes bumper guards.

H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180 minus included ramp angle) over which car can pass without interference, measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.

H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

H 61 EFFECTIVE HEAD ROOM – FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.

H 30 H POINT TO HEEL POINT – FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.

L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

W 3 SHOULDER ROOM – FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.

W 5 HIP ROOM – FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.

H 50 UPPER BODY OPENING TO GROUND – FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

H 63 EFFECTIVE HEAD ROOM – REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 51 MINIMUM EFFECTIVE LEG ROOM – REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.

H 31 H POINT TO HEEL POINT – REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.

L 48 MINIMUM KNEE ROOM – REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.

L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.

W 4 SHOULDER ROOM – REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.

W 6 HIP ROOM – REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.

H 51 UPPER BODY OPENING TO GROUND – REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

V 1 LUGGAGE CAPACITY – USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place

H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON – THIRD SEAT DIMENSIONS

W 85 SHOULDER ROOM – THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W 86 HIP ROOM – THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.

L 86 EFFECTIVE LEG ROOM – THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.

H 86 EFFECTIVE HEAD ROOM – THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON – CARGO SPACE DIMENSIONS

L202 CARGO LENGTH AT FLOOR – FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.

L204 CARGO LENGTH AT BELT – FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.

W201 CARGO WIDTH – WHEELHOUSE. The minimum horizontal dimension, measured between wheelhousings at floor level.

W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.

H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.

H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.

V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

$$\frac{W4 \times L204 \times H201}{1728}$$

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