AMA Specifications—Passenger Car

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MANUFACTURER	CAR NAME	
DODGE DIVISION CHRYSLER CORPORATION	DODGE DART	
MAILING ADDRESS	MODEL YEAR	ISSUED 5-22-67
DETROIT, MICHIGAN 48231	1968	REVISED (●) 2-5-68

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

	2-Door Sedan 21	2-Door Hardtop 23	Convertible Coupe 27	4-Door Sedan 41

SIX-CYLINDER MODELS

Dart	LL21			LL41
Dart 270		LH23		LH41
Dart GT		LP23	LP27	

V-8 MODELS

Dart	LL21			LL41
Dart 270		LH23		LH41
Dart GT		LP23	LP27	
Dart GTS		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 and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	21		23			27			41	
		LL		LH, LP		LS	LP		LS	LL, LH	
		Six	V-8	Six	V-8	V-8	Six	V-8	V-8	Six	V-8
WIDTH											
Track – Front	W101	57.4				58.1	57.4		58.1	57.4	
Track – Rear	W102	55.6				56.3	55.6		56.3	55.6	
Maximum overall car width	W103	69.7									
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	92.4		91.2			94.0			92.4	
Body "O" line to ℄ of rear wheel	L127	97.2									•
Body "O" line to w/s cowl point	L130	10.8									•
HEIGHT											
Overall height	H101	53.6	53.9	52.6	52.9	52.8	53.1	53.4		53.6	53.9 •
Cowl height	H114	36.3	36.7	36.3	36.7	36.8	36.3	36.7	36.8	36.3	36.7 •
Deck height	H138	34.7	34.9	34.7	35.0	34.8	34.6	34.9	34.6		34.9 •
Rocker panel – front: To ground	H112	7.4	7.7	7.4	7.7		7.4	7.7		7.4	7.7
Rocker panel – front: From front wheel ℄	H112	29.32									
Rocker panel – rear: To ground	H111	6.1	6.4	6.1	6.4	6.3	6.1	6.4	6.3	6.1	6.4
Rocker panel – rear: From rear wheel ℄	H111	83.82									
Windshield slope angle	H122										
GROUND CLEARANCE											
Bumper to ground – front	H102	12.6	13.0	12.6	13.0	13.2	12.6	13.0	13.2	12.6	13.0
Bumper to ground – rear	H104	10.9	11.1	10.9	11.1	10.8	10.9	11.1	10.8	10.9	11.1
Angle of approach	H106	27.6	28.3	27.6	28.3	28.6	27.6	28.3	28.6	27.6	28.3
Angle of departure	H107	13.4	13.8	13.4	13.8	13.3	13.4	13.8	13.3	13.4	13.8
Ramp breakover angle	H147	11.4	12.3	11.4	12.3		11.4	12.3		11.4	12.3
Min. running clearance (Specify)	H156	5.5(a)	5.7(b)	5.5(a)	5.7(b)		5.5(a)	5.7(b)		5.5(a)	5.7(b) •

(a) Frame
(b) Oil pan

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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		
		21	23	27	41	23	27 (a)	
		Bench Seats				Bucket Seats		
FRONT COMPARTMENT								
Effective head room	H61	38.3	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	49.2 (b)	48.6 (c)	48.5 (d)	49.2 (b)	48.5 (e)	48.4 (e)	•
REAR COMPARTMENT								
H Point couple distance	L50	33.3	29.5		33.3	29.6		
Effective head room	H63	37.3	36.8	36.9	37.3	36.8	36.9	
Min. effective leg room	L51	35.7	31.8		35.7	33.1		
H Point to Heel point	H31	11.1	10.3		11.1	10.3		
Min. knee room	L48	3.1	.50		3.1	1.2		
Rear Compartment room	L 3	27.0	23.6	23.3	27.0	23.8	23.5	•
Shoulder room	W 4	55.4		54.8	55.4		54.8	
Hip room	W 6	57.2		46.8	57.2		46.8	
Upper body opening to ground	H51	--			48.7 (f)	--		•
LUGGAGE COMPARTMENT								
Usable luggage capacity	V 1				14.1			•
Liftover height	H195	6-cyl: 21.9; V-8: 22.2				21.8		•
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 – wheelbase	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) Bucket seats are optional
(b) 48.9 for 6-cylinder models
(c) 48.3 for 6-cylinder models
(d) 48.2 for 6-cylinder models
(e) LP23 and LP27 models same as with bench seats
(f) 48.5 for 6-cylinder models

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO (Std. first) (Indicate A C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM			
Std: 6-Cyl	170	1, 1-bbl	8.5	115 @ 4400	155 @ 2400	Manual		3.23*, 3.55, 2.93*
						Automatic		2.76*, 3.23*, 3.55, 2.93*
Opt: 6-Cyl	225		8.4	145 @ 4000	215 @ 2400	Manual 3-Speed		3.23*, 3.55
						Automatic		2.76*, 3.23*, 3.55, 2.93*
Std: V-8 Exc LS	273	1, 2-bbl	9.0	190 @ 4400	260 @ 2000	Manual	3-Speed	2.93*, 3.23*
							4-Speed	3.23*, 3.55**, 3.91**
						Automatic		2.93*, 3.23*
Opt: V-8 Exc LS	318		9.2	230 @ 4400	340 @ 2400	Manual	3-Speed	3.23*
							4-Speed	3.23*, 3.55**, 3.91**
						Automatic		2.76, 3.23*
Std: LS	340	1, 4-bbl	10.5	275 @ 5000	340 @ 3200	Automatic		3.23*, 3.55**, 3.91**
						Manual 4-Speed		3.23*, 3.55**
Opt: LS	383		10.0	300 @ 4400	400 @ 2400	Automatic		3.23*, 3.55**, 3.91**
						Manual 4-Speed		3.23*, 3.55**

NOTE: Axle ratios marked with an asterisk (*) also are available in SURE-GRIP; those marked with a double asterisk (**) are available only in SURE-GRIP.

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MODEL	Six		V-8			
	Std	Opt	Exc S		S	
			Std	Opt	Std	Opt

ENGINE – GENERAL

Type, no. cyls., valve arr.		Six, in-line, OHV		90° V-8			
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		4.80	
No. system (front to rear)	L. Bank	--		1-3-5-7			
	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					
	Rear	One					
Engine installation angle		Lateral 0°, Up 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	300 @ 4400
Publishing max. torque * (lb. ft. @ RPM)		155 @ 2400	215 @ 2400	260 @ 2000	340 @ 2400	340 @ 3200	400 @ 2400
Recommended fuel regular – premium		Regular				Premium	

ENGINE – PISTONS

Material		Aluminum alloy					
Description and finish		Closed slipper-type, steel strut, elliptically-turned, tin-plated					
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.
	Skirt Top	.0005 - .0015					(b)
	Skirt Bottom	-.0005 - +.0015					(c)
Ring groove depth	No. 1 ring	.179		.191	.205	.210	.220
	No. 2 ring	.179		.191	.205	.210	.220
	No. 3 ring	.181		.182	.193	.198	.208
	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); 4.0 (2-3, 4-5)
(b) .00025 - .00125
(c) -.00125 - +.00125

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See Page 3 for Engine Usage

MODEL

ENGINE—RINGS

			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 - .020				.013 - .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 - .0005			(f)
	In rod	(g)	.0001 - .0006			(g)
Direction & amount offset in piston		Right .06				Right .09

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	5.699	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 - .0022				(h)	(i)
	End play	.006 - .012		.006 - .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 - .00075

(g) .0007 - .0014 interference

(h) .0002 - .0027

(i) .0005 - .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 - .007					
Main bearing	Material & type		Lead-base babbitt on steel, removable, precision (c)					
	Clearance		.0002 - .0022 specified, .0005 - .0015 desired					
	Journal dia. and bearing overall length	No. 1	2.75 x 1.034		2.5 x 0.872			2.625 x 0.944
		No. 2	2.75 x 1.034		2.5 x 0.872			2.625 x 0.944
		No. 3	2.75 x 1.254		2.5 x 1.151			2.625 x 1.223
		No. 4	2.75 x 1.034		2.5 x 0.872			2.625 x 0.944
		No. 5	--		2.5 x 1.562			2.625 x 0.944
		No. 6	--					
		No. 7	--					
	Dir. & amt. cyl. offset		None					
Crankpin journal diameter			2.187		2.125			2.375

ENGINE—CAMSHAFT

			170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
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		Cast iron		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

		170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
Hydraulic lifters (Std, opt, NA)		NA		Std			
Valve rotator, type (intake, exhaust)		Low-friction lock on exhaust					
Rocker ratio		1.5					
Operating tappet clearance (indicate hot or cold)	Intake	.010 hot		Hydraulic			
	Exhaust	.020 hot		Hydraulic			
Timing marks on flywheel, damper, other		Stationary indicator on chain case cover					

(a) Double roller chain.

(Continued)

(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

ENGINE—VALVE SYSTEM (cont.)

			170 CID 225 CID	273 CID 318 CID	340 CID Man. Trans.	340 CID Auto. Trans.	383 CID
Timing	Intake	Opens (°BTC)	10	10	26	22	18
		Closes (°ABC)	50	50	70	66	58
		Duration - deg.	240	240	276	268	256
	Exhaust	Opens (°BBC)	50	58	78	74	64
		Closes (°ATC)	6	10	26	22	14
		Duration - deg.	236	248	284	276	260
	Valve opening overlap		16	20	52	44	32
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	.445	.430	.425
	Outer spring press. and length	Valve closed (lb. @ in.)	62 @ 1.65	92 @ 1.65	96 @ 1.65		115 @ 1.86
		Valve open (lb. @ in.)	154 @ 1.26	185 @ 1.28	242 @ 1.21		225 @ 1.43
	Inner spring press. and length	Valve closed (lb. @ in.)	None		Surge damper		None
		Valve open (lb. @ in.)	None		Surge damper		None
Exhaust	Material		21 - 4N				
	Overall length		4.80	5.00	5.00		4.89
	Actual overall head dia.		1.36	1.50	1.60		1.74
	Angle of seat & face, deg		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	.455	.445	.437
	Outer spring press. and 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		227 @ 1.42
	Inner spring press. and 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	

(Continued)

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See Page 3 for Engine Usage

MODEL	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, reverse flow		Two, reverse flow	
Exhaust pipe dia. (O.D., wall thick.)	Branch	--	1.75 x .075	--	
	Main	1.88 x .075	2.00 x .075	2.25 x .083	2.50 x .083 •
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	None	
Control Unit	Make and model	(c)	(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 3 months or 4,000 miles, whichever comes first.
(c) Chicago Screw - 2843258 or United Air Cleaner - 2863189.
(d) Chicago Screw - 2843257 or United Air Cleaner - 2843256.

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MAKE OF CAR DODGE DART **MODEL YEAR** 1968 **DATE ISSUED** 5-22-67 **REVISED** (e)2-5-68

MODEL All Models

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)		Manifold vacuum actuated control valve (b)
	Make		Chrysler
	Model		See page 13A
	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		(c)
Timing - Crank degrees @ rpm			See page 13
Cooling System (describe changes)			None
Exhaust System (describe changes)			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.

(b) Used with manual transmission only.

(c) From port in carburetor or direct from manifold as controlled by auxiliary advance system.

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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					
Fuel Tank — Filler location	Outside left rear fender					
Fuel Pump — Type (elec. or mech.)	Mechanical					
Fuel Pump — Locations	Right center		Right front			
Fuel Pump — 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 •					
Fuel Filter — Locations	One in fuel tank, one in fuel supply line					
Carburetor — Choke type	Automatic, separate					
Carburetor — Intake manifold heat control (exhaust or water)	Exhaust					
Carburetor — Air cleaner type (a) — Standard	2206376		1739547		2863349	2402677 •
Carburetor — Air cleaner type (a) — Optional	--					
Carburetor — Idle speed (spec. neutral or drive) (b) — Manual	750	650	700	650	700	650 •
Carburetor — Idle speed (spec. neutral or drive) (b) — Automatic	750	650		600	650	600 •
Carburetor — Idle A/F mix.	14.0 - 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	Ball and Ball	BBS-4414 S	1, 1-bbl	1.56
			Automatic		BBS-4415 S		
Opt, 6-Cyl		225	Manual	Holley	R-3919 A		1.69
			Automatic		R-3920 A		
Except LS	Std V-8	273	Manual	Ball and Ball	BBD-4416 A	1, 2-bbl	1.44
			Automatic		BBD-4417 A		
	Opt V-8	318	Manual		BBD-4420 S		
			Automatic		BBD-4421 S		
LS	Std	340	Manual	Carter	AVS-4424 S	1, 4-bbl	P: 1.44 S: 1.69
			Automatic		AVS-4425 S		
	Opt	383	Manual		AVS-4426 S		
			Automatic		AVS-4401 S		

(a) Paper element •

(b) Transmission in neutral. Air conditioning turned off.

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MODEL

See Page 3 for Engine Usage

ENGINE – COOLING SYSTEM

		170 CID	225 CID w/AC	225 CID w/o AC	273 CID w/AC	273 CID w/o AC	318 CID w/o AC	318 CID w/AC	340 CID w/o AC	340 CID w/AC	383 CID
Type system (pressure, pressure vented, atmospheric, other)		Pressure-Vent									
Radiator cap relief valve pressure		16									
Circulation thermostat	Type (choke, bypass)	Choke, pellet									
	Starts to open at (°F)	190	177-184								
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.) (a) Pg 12	12	13		19		18				17 •
	Without heater (qt.)	Heater is std									
	Opt. equipment-specify (qt.)	Add 1-qt when equipped with air conditioner									
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						Visc.	--	Visc.	None
	Bearing type	See water pump									
*Drive belts (indicate belt used by letter)	Fan	A		C	F			H	F	H	I
	Generator or alternator	A		C	F			H	F	H	I
	Water Pump	A		C	F			H	F	H	I
	Power Steering	B		D	G						I
	Air Conditioning	--		E	--	E	--	E	--	E	--

* 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)	54.50	36.50	57.00	38.38	53.00	46.50	38.75	48.00	46.00	41.00	
Width	.38	.38	.38	.38	.50	.38	.50	.38	.38	.50	

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See Page 3 for Engine Usage

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

ELECTRICAL – SUPPLY SYSTEM

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.		9HC0, 38	9HC3, 48			9HC3-A, 59
	Location		Left front fender shield				
	Terminal grounded		Negative				
Generator or Alternator	Make		Chrysler				
	Model		2642538	2642537			
	Type and rating (b)		30	37			
	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	12				
		Current	--				
	Voltage test conditions	Temperature	70F				
		Load	15-amp				
		Other	Run 15-min. @ 1250 engine rpm				

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make			Chrysler			
	Model			2098500	2095150		
	Rotation (drive end view)			Clockwise			
Motor control	Switch (solenoid, manual)			Solenoid			
	Starting procedure			With transmission in neutral or park, fully depress accelerator and release, then turn ignition key beyond "Ignition On" position.			
Motor Drive	Engagement type			Solenoid			
	Pinion meshes (front, rear)			Front			
	Number of teeth	Pinion		10			
		Flywheel	Manual	122	130		
			Auto.	122	130		
	Flywheel tooth face width		Manual	.340			
			Auto.	.340			

(a) MoPar
(b) Type: three-phase, full-wave rectifier
(a) (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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MODEL

See Page 3 for Engine Usage					
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		2444242 or 2444241				
	Amps	Engine stopped	3.0				
		Engine idling	1.9				
Distributor	Make		Chrysler			Prestolite	Chrysler
	Model		See page 13A				
	Cent'fgal 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.)		.017 - .023	.014 - .019			•
	Cam angle (deg.)		40-45	28-33		27-32(a)	28-33
	Breaker arm tension (oz.)		17 to 20			17 to 21.5	17 to 20
Timing	Crankshaft deg.@rpm		See page 13A				
	Mark location		Crankshaft vibration damper				
Spark Plug	Make & MoPar		P-6-6P			--	P-3-4P
	Model Champion		N14Y			N9Y	J11Y
	Thread (mm)		14-mm				
	Tightening torque (lb. ft.)		30-33				
	Gap		.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) Total, dual points - 37° to 42°

(b) Synthetic rubber with Neoprene jacket •

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AVAILABILITY

(See Page 3 for Engine Usage)

		170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
Manual Trans.		2875199	2875364	2875334	2875342	2875086	2875356
Automatic Trans.		2875202	2875366			2875105	2875358
Timing	Manual	5 ATC @ 700	TDC @ 650	5 ATC @ 700	5 ATC @ 650	TDC @ 700	TDC @ 650
	Auto.	2.5 ATC @ 700		2.5 ATC @ 650	2.5 ATC @ 600	5 BTC @ 650	5 BTC @ 650

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
2875086	0 @ 700-1000	0-10.6@1000	19.2-23.2@1540	26-30 @ 4000	0 @ 4.5-7.5	8-14 @ 8.9	14-20@10.5
2875105	0 @ 650- 950	0- 7.2@ 950	14.2-18.2@1540	21-25 @ 4000	0 @ 4.5-7.5	8-14 @ 8.9	14-20@10.5
2875199	0 @ 700-1000	0- 7.4@1000	24.4-28.4@1980	34-38 @ 4400	0 @ 5-7.1	6-12 @ 8.5	12-17@10
2875202	0 @ 700-1000	0-13.4@1000	18.4-22.4@1420	28-32 @ 4400	0 @ 5-7.1	6-12 @ 8.5	12-17@10
2875334	0 @ 700-1000	0-14@1000	22.5-26.5@1470	31-35 @ 3800	0 @ 5-8	10-16 @ 10	21-27@13.5
2875342	0 @ 650- 950	0-10@ 950	15.5-19.5@1400	36-40 @ 4700	0 @ 8.1-9.8	8-14 @ 12.4	16.5-21.5@15
2875356	0 @ 750-1050	0-12.4@1050	23.2-27.2@1600	34-38 @ 5000	0 @ 5-7.6	12-18 @ 12.1	18-24@14.75
2875358	0 @ 750-1050	0-13@1050	20.2-24.2@1520	29-33 @ 5000	0 @ 5-7.6	12-18 @ 12.1	18-24@14.75
2875364	0 @ 700-1000	0-7.4@1000	18.4-22.4@1740	25-29 @ 4000	0 @ 6.2-9.7	4-10 @ 11.9	7.4-12.4@13.8
2875366	0 @ 700-1000	0-7.4@1000	18.4-22.4@1740	25-29 @ 4000	0 @ 5-7	5-11 @ 8	7.5-12.5@8.7

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MODEL: All Models

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	King-Seeley
	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	2-speed
	Type – Optional	Variable
Windshield washer	Type – Standard	Electric
	Type – Optional	--
Horn	Type	Four-inch sea shell
	Number used	Std: 1; Opt: 2
	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 Opt: 170 & 225	318 CID	340 CID 383 CID
Make & type dry-plate		Auburn			Borg and Beck	•
Type pressure plate springs		Coil				
Total spring load (lb.)		1330 min.		1600 min.	2345	•
No. of clutch driven discs		One				
Clutch facing	Material	Woven asbestos				
	Outside & inside dia.	9.25 x 6.0		9.5 x 6.5	10.5 x 6.5	•
	Total eff. area (sq.in.)	77.8		75.4	106.8	•
	Thickness	.114			.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				

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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				Std	Opt •

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3		3 or 4		4	
Transmission ratios	In first	3.22	2.95	3.02	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		3-speed: 2nd and 3rd; 4-speed: all forward speeds					
Shift lever location		3-speed: steering column, floor or console • 4-speed: floor or console					
Lubricant	Capacity (pt.)	6.5		6.0 or 8.5		8.5	•
	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)	Not applicable	
Manual lockout (yes, no)	"	
Downshift accelerator control (yes, no)	"	
Minimum cut-in speed	"	
Gear ratio	"	
Lubricant: Capacity (pt.) (Overdrive only)	"	
Lubricant: Separate filler (yes, no)	"	
Lubricant: Type recommended	"	
Lubricant: SAE viscosity number: Summer	"	
Lubricant: SAE viscosity number: Winter	"	
Lubricant: SAE viscosity number: Extreme cold	"	

(a) 3-speed: Automatic Transmission Fluid, Type AQ-ATF, Suffix "A" 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 Multipurpose Gear Lubricant, SAE 80 or 90, or 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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See Page 3 for Engine Usage

MODEL	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	Steering column or console-mounted					
List gear ratios Selector Pattern and indicate which are used in each selector position	R: 2.20 D: 2.45 - 1.45 - 1.00 2: 2.45 - 1.45 1: 2.45					
Max. upshift speed–drive range	80	73	77		74	72
Max. kickdown speed–drive range	71	65	69		66	65
Torque convertor: Number of elements	Three					
Torque convertor: Max. ratio at stall	2.1					
Torque convertor: Type of cooling (air, liquid)	Water					
Torque convertor: Nominal diameter	10.75					
Lubricant (a): Capacity–refill (pt.)	16.0				17.5 •	
Lubricant (a): Type recommended	Automatic Transmission Fluid, Type "A", Suffix "A"					
Special transmission features	None					

DRIVE UNITS – PROPELLER SHAFT

Number used	One					
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight					
Outer diam. x length* x wall thickness: Manual 3-speed trans.	3.00 x 54.36 x .065 (b)				NA •	
Outer diam. x length* x wall thickness: Manual 4-speed trans.	NA			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	3.00x54.36 x .065 (b)	3.00x54.36 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.

(b) With IVA (Internal Vibration Absorber).

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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)	--		
Slip Yoke	Type	Sliding spline		•
	Number of teeth	25	29	•
	Spline O.D.	1.156	1.325	•
Universal joints	Make and Mfg. No.	Chrysler		
		7260	7290 (a)	
	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) (b) Pg 18	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		Std: One-piece case, unitized carrier-housing Opt: SURE-GRIP, two-piece case		•
Limited Slip differential, type		Torque bias		
Drive Pinion Offset		1.625 (b)	1.50	
No. of differential pinions		Std: 2, Opt: Sure-Grip, 4		
Pinion adjustment (shim, other)		Solid shim (washer)		
Pinion bearing adj. (shim, other)		Solid shim (washer)	Shim pack	•
Wheel bearing type		Ball bearing	Tapered roller	•
Lubricant	Capacity (pt.)	2.0 (b)	4.0	
	Type recommended	Multipurpose Gear Lubricant (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.		7.25	7.25	7.25	8.75	7.25	8.75	8.75

(a) For 318 CID with automatic transmission, 7260

(b) For 318 CID with manual transmission; drive pinion offset 1.50, capacity 4.0

(c) When equipped with SURE-GRIP differential use Chrysler SURE-GRIP differential lubricant as defined by MIL L-2105B (Part No. 2585318). No oil change required in normal service. Factory fill satisfactory to -30°F.

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MODEL

		Drum Brakes			Disc Brakes		
		170 CID	225-, 273, 318-CID	340 CID 383 CID	170-, 225-, 273-, & 318 CID	340 CID 383 CID	
DRIVE UNITS – WHEELS							
Type & material							
Rim (size & flange type)	Std.		4.5 J	5.5 J	4.5 J (a)	5.5 J	•
	Opt.		5.5 J	--	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		6.50-13, 4-2	7.00-13, 4-2	E70-14, 4-2	6.95-14, 4-2 (b)	E70-14, 4-2	
	Type (bias, radial, etc.)				Bias			
	Full rated Inflation Press.	Front			32 (d)			•
		Rear			32 (d)			•
	Rev./Mile at 50 MPH		851	830	804	819 (c)	804	•
Optional	Size, ply rating, & ply		6.50-13, 4-4 7.00-13, 4-2	--	--	6.95-14, 4-4 D70-14, 4-2 E70-14, 4-2	--	
			7.00-13, 4-4 6.95-14, 4-2 6.95-14, 4-4 D70-14, 4-2 E70-14, 4-2					

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 w/273, 318 CID 5.5 J
(b) Convertible w/273, 318 CID D70-14, 4-2 •
(c) Convertible w/273, 318 CID 825
(d) Except with A/C 28

(b) (Refer to page 17) Relubrication required only under severe conditions: then every 36,000 miles with Multipurpose Grease NLGI Grade 2EP. •

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BRAKES – SERVICE (a)

MODEL				Drum Brakes		Disc Brakes
				Six	V-8	All
Type (drum or disc)				Drum		Disc
Self adjusting (std., opt., N.A.)				Std		
Power brake make & type (remote, int., etc.)			Std.	Integral, tandem		
			Opt.	--		
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
Percent brake effectiveness – front				60		
Drum or Disc	Diameter (nominal)		Front	9	10	
			Rear	9	10	10.79 x 7.16
	Type and material			Centrifuse or cast composite		Cast iron
	Disc (vented or solid)			--		Vented
	No. pistons per caliper			--		Four
Wheel cylinder bore	Front			1.00	1.125	1.638
	Rear			0.8125	0.9375	
Master Cylinder	Bore			1", tandem		
	displacement distribution		Front %			
			Rear %			
Disc Brk. Valve	Type (proportion, delay, metering, other)					
Pedal arc ratio						
Line pressure at 100 lb. pedal load				800		
Shoe clearance adjustment				No major adjustment required		
Brake lining	Drum or Disc			Drum		F: drum, R: disc
	Bonded or riveted			Bonded		
	Front Wheel	Material		Molded asbestos		
		Size (length x width x thickness)	Prim. or outboard	7.66 x 2.25 x 0.19	8.46 x 2.25 x 0.19	4.82 x 1.84 x 0.4
			Second. or inboard	9.82 x 2.50 x 0.24	11.06 x 2.25 x 0.24	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 0.19	8.46 x 1.75 x 0.19	
			Second. or inboard	9.82 x 2.00 x 0.24	11.06 x 1.75 x 0.24	
		Segments per shoe				

* 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** 1968 **DATE ISSUED** 6-26-67 **REVISED** (•) 7-3-67

STEERING

MODEL					Six	V-8
Manual (std., opt., NA)					Std	
Power (std., opt., NA)					Opt	
Adjustable steering wheel (tilt, swing, other)		Type and description			--	
		(std., opt., 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	
Outside whl. angle with inside whl. at 20°					18°	
Manual (a)	Gear	Type			Recirculating ball	
		Make			Chrysler	
		Ratios	Gear		Std: 24.0 to 1; Opt: 16.0 to 1	
			Overall		Std: 28.7 to 1; Opt: 19.15 to 1	
	No. wheel turns				Std: 5.3; Opt: 3.6	
Power (b)	Type (coaxial, linkage, etc.)				Integral	
	Make				Chrysler	
	Gear	Type			Recirculating ball	
		Ratios	Gear		15.7 to 1	
			Overall		18.8 to 1	
	Pump driven by				Belt from crankshaft pulley	
	Number wheel turns				3.5	
Linkage (c)	Type				Parallelogram, trailing, equal length tie rods	
	Location (front or rear of wheels, other)				Rear	
	Drag link (trans. or longit.)				Transverse center link	
	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 strg: -0.5° ±0.5°; Power strg: +0.75° ±0.5°	
	Camber (deg.)				Left: +0.5° ±0.25°, +0.5° preferred; Right: see footnote (d)	
	Toe-in (outside track inches)				3/32" to 5/32", 1/8" preferred	
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				11/16-24 NEF - 3A	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) +0.25° ±0.25°, 0.25° preferred

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

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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	Own
	Piston dia.	1.0
Other special features		--

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	NA		Std: 340 CID NA: 318 CID	Std
	Material & bar diameter	--		.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)	4.5	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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MODEL	21	41	23		27
			LL, LH	LP, LS	

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		Ignition key start, ignition switch terminal block, door latches				
Vent window control method (crank, friction pivot)	Front	Friction pivot				
	Rear	None				
Seat cushion type	Front	Formed wire		Zigzag		
	Rear	Formed wire				
	3rd seat	--				
Seat back type	Front	Formed wire		Zigzag		
	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		1305	1348		1146	•
Backlight glass exposed surface area		875		874	625	
Total glass exposed surface area		3297	3340	3177	2794	•

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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-cubic inch engine and 273-cubic inch V-8 with 3-speed manual transmission. Hang-on unit, dealer-installed
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		NA
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
Trailer towing		Opt
Rear window defogger		Opt, dealer-installed

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	
		Lowest	
	Tail	Highest	
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

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WEIGHTS

SIX-CYLINDER MODELS	CURB WEIGHT – POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
				Pass. In Front		Pass. In Rear		
Model Dart	Front	Rear	Total	Front	Rear	Front	Rear	
2-Door Sedan	1525	1320	2845	50.3	49.7	20.3	79.7	2705
4-Door Sedan	1535	1330	2865	50.3	49.7	20.3	79.7	2725
Dart 270								
2-Door Hardtop	1525	1315	2840	50.3	49.7	23.7	76.3	2710
4-Door Sedan	1530	1330	2860	50.3	49.7	20.3	79.7	2725
Dart GT								
2-Door Hardtop	1530	1320	2850	50.4	49.6	23.7	76.3	2715
Convertible Coupe	1565	1360	2925	50.4	49.6	23.7	76.3	2790

Accessories & Equipment Differential Weights				Remarks
Air Conditioner	+108	- 5	+103	Available only with 225 engine
225 CID Engine	+ 38	+12	+ 50	Includes required tire size
Automatic Transmission	+ 20	+ 7	+ 27	
Power Steering	+ 43	- 2	+ 41	
Power Brakes	+ 11	+ 1	+ 12	
Radio	+ 5	+ 2	+ 7	
Bucket Seats	+ 6	+ 7	+ 13	GT convertible only
Console	+ 12	+ 8	+ 20	
Undercoat - Full	+ 25	+21	+ 46	

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MAKE OF CAR DODGE DART **MODEL YEAR** 1968 **DATE ISSUED** 5-24-67 **REVISED** (•)2-5-68

WEIGHTS

V-8 MODELS	CURB WEIGHT – POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
				Pass. In Front		Pass. In Rear		
Model Dart	Front	Rear	Total	Front	Rear	Front	Rear	
2-Door Sedan	1665	1360	3025	50.3	49.7	20.3	79.7	2875 •
4-Door Sedan	1670	1380	3050	50.3	49.7	20.3	79.7	2900 •
Dart 270								
2-Door Hardtop	1685	1350	3035	50.3	49.7	23.7	76.3	2885 •
4-Door Sedan	1685	1365	3050	50.3	49.7	20.3	79.7	2900 •
Dart GT								
2-Door Hardtop	1680	1365	3045	50.4	49.6	23.7	76.3	2895 •
Convertible	1720	1400	3120	50.3	49.7	23.7	76.3	2970 •
*Dart GTS								
2-Door Hardtop	1750	1450	3200	50.4	49.6	23.7	76.3	3065 •
Convertible	1800	1510	3310	50.3	49.7	23.7	76.3	3150 •
*Weights include standard automatic transmission								•

Accessories & Equipment Differential Weights				Remarks
Air Conditioner	+141	+19	+160	Includes required tire size •
Engine Options				
318 CID	+ 2	+48	+ 50	With 3-speed transmission NA - GTS •
318 CID	- 13	+12	- 1	With automatic transmission NA - GTS •
318 CID	+ 30	+52	+ 82	With 4-speed transmission NA - GTS •
383 CID	+100	+ 5	+105	With automatic transmission GTS only •
383 CID	+138	+15	+153	With 4-speed transmission - GTS only •
Automatic Transmission	- 12	- 1	- 13	273 CID
4-Speed Transmission	+ 34	+41	+ 75	273 CID •
4-Speed Transmission	+ 36	+10	+ 46	340 CID - GTS only
Power Steering	+ 42	- 3	+ 39	
Power Brakes	+ 11	+ 1	+ 12	
Radio	+ 5	+ 2	+ 7	
Bucket Seats	+ 6	+ 7	+ 13	
Console	+ 12	+ 8	+ 20	
Undercoat - Full	+ 24	+20	+ 44	

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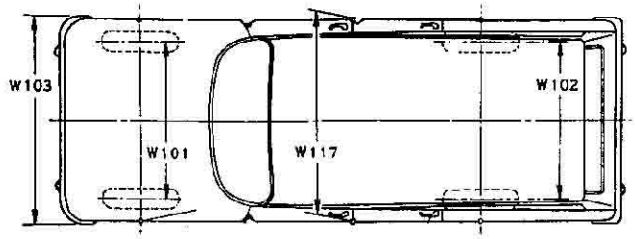
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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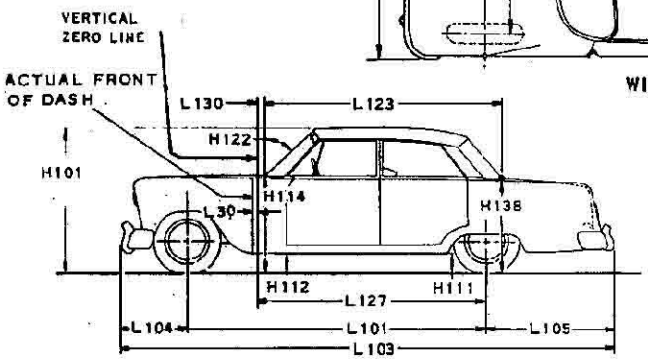
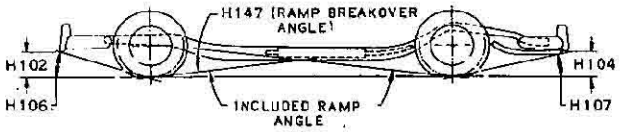
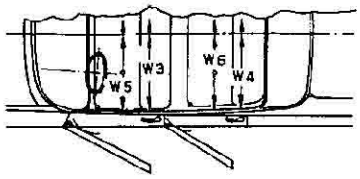


LENGTH & HEIGHT



GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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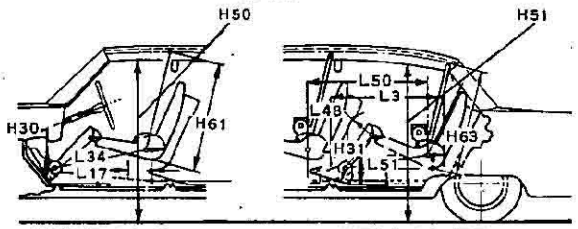
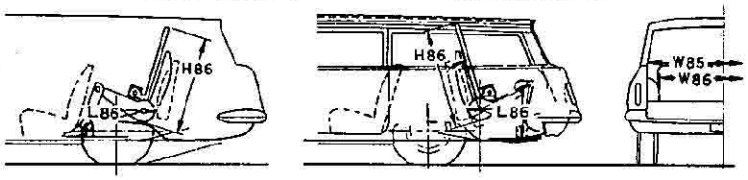
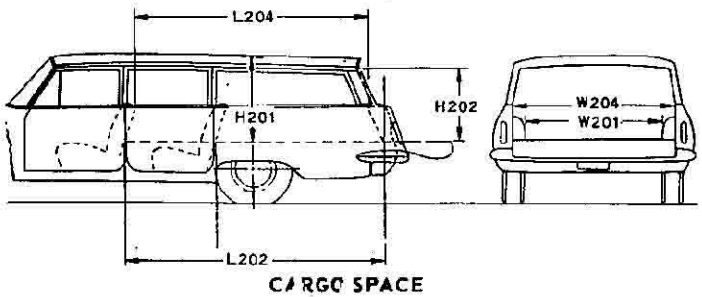


FRONT COMPT. REAR COMPT.



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. This dimension may be determined by calculation (see Design Standard DD 0.00 – 108) or graphically for reporting purposes.

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, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 – 105

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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