AMA Specifications – Passenger Car

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MANUFACTURER	DODGE DIVISION CHRYSLER CORPORATION	CAR NAME	DART DODGE
MAILING ADDRESS	DETROIT 31, MICHIGAN	MODEL YEAR	1964
		ISSUED:	6-25-63
		REVISED (•)	1-31-64

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.

TABLE OF CONTENTS

BODY—TYPES AND STYLE NAMES—

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

	DART		
	170	270	GT
2-Door Sedan	VL1-L-21	VL1-H-21	--
2-Door Hardtop	--	--	VL1-P-23
Convertible Coupe	--	VL1-H-27	VL1-P-27
4-Door Sedan	VL1-L-41	VL1-H-41	--
Station Wagon, 6-Pass.	VL1-L-45	VL1-H-45	--

	DODGE 6			DODGE V-8		
	330	440	POLARA	330	440	POLARA
2-Door Sedan	VD1-L-21	VD1-M-21	--	VD2-L-21	VD2-M-21	--
2-Door Hardtop	--	VD1-M-23	VD1-H-23	--	VD2-M-23	VD2-H-23
Convertible Coupe	--	--	--	--	--	VD2-H-27
4-Door Sedan	VD1-L-41	VD1-M-41	VD1-H-41	VD2-L-41	VD2-M-41	VD2-H-41
4-Door Hardtop	--	--	--	--	--	VD2-H-43
Station Wagon, 6-Pass.	VD1-L-45	--	--	VD2-L-45	VD2-M-45	--
Station Wagon, 9-Pass.	VD1-L-45	--	--	VD2-L-45	VD2-M-45	--

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MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 7-16-63 REVISED(•) 1-31-64

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL			Additional Information Page No.:	VL1			VD1		VD2-L, M, H		
				21, 23 41	27	45	21, 23 41	45	21, 23 41, 43	27	45
Wheelbase (L101)			23	111.0		106.0	119.0	116.0	119.0		116.0
Tread	Front (W101)		22	55.9			59.5				
	Rear (W102)		22	55.6			59.6				
Maximum Overall Dimensions	Length (L103)		23	196.3		190.2	209.8	212.3	209.8		212.3
	Width (W103)		22	69.8		69.0	75.0	75.1	75.0		75.1 •
	Height (H101)		24	53.5	54.0	52.9	55.1 (b)	55.4	55.1 (b)	55.3	55.4 •
Transmission—(Specify trade name - opt., not available)	Manual		15	Std.							
	Overdrive		16	NA							
	Automatic		16	Opt.: TorqueFlite							
Axle ratio (a)	Manual	3-Speed		3.23			3.31	3.23	2.93		
		4-Speed		3.23			--				
	Automatic		17	3.23			2.93		2.76		
Tire size			18	6.50 x 13			7.00 x 14	7.50 x 14	7.00 x 14		7.50 x 14
Engine	Type, no. cyl., valve arr.		2	6, in-line, OHV, inclined 30°					90° V-8, OHV		
	Fuel system (Carb., other)		8	Carb., 1-bbl					Carb., 2-bbl		
	Bore and stroke		2	3.400 x 3.125			3.400 x 4.125		3.91 x 3.31		
	Piston displ., cu.in.		2	170			225		318		
	Std. compression ratio		2	8.5			8.4		9.0		
	Max. bhp at engine rpm		2	101 @ 4400			145 @ 4000		230 @ 4400 •		
	Max. torque at rpm		2	155 @ 2400			215 @ 2400		340 @ 2400 •		

(a) See Pages 3 and 17 for additional rear axle ratio information.

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MODEL	VL1		VD1	VD2			
	Std 170	225 Charger	Std - 225 Charger	Std 318 V-8	383 V-8	383 V-8 4-bbl	426 V-8 4-bbl

ENGINE—GENERAL

Type, no. cyls., valve arr.		6, in-line, OHV, inclined 30°		90° V-8, in-line, OHV			
Bore and stroke (nominal)		3.4 x 3.125	3.4 x 4.125	3.91 x 3.31	4.25 x 3.38		4.25 x 3.75
Piston displacement, cu. in.		170	225	318	383		426
Bore spacing (C/L to C/L)		1-2, 3-4, 5-6: 3.98; 2-3, 4-5: 4.0		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	10.0		10.3
Cylinder Head Material		Cast iron					
Cylinder Block Material		Cast iron					
Cylinder Sleeve-Wet, dry, none		None					
Number of mounting points	Front	Two					
	Rear	One					
Engine installation angle		1.25° left, 3° up		1.1° right, 2.6° up			
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		27.7		48.9	57.8		
Published max. bhp* @ eng. RPM		101 @ 4400	145 @ 4000	230 @ 4400	305 @ 4600	330 @ 4600	365 @ 4800 •
Published max. torque* (lb. ft. @ RPM)		155 @ 2400	215 @ 2400	340 @ 2400	410 @ 2400	425 @ 2800	470 @ 3200 •
Recommended fuel regular - premium		Regular			Premium		
Idle speed (spec. neutral or drive)	Manual	550 in neutral (a)		500 in neutral			
	Automatic	550 in neutral (a)		500 in neutral			

ENGINE—PISTONS

Material		Aluminum alloy				
Description and finish		Slipper-type, steel strut, elliptically-turned, tin-plated	(b)	Slipper-type, steel strut, elliptically-turned, tin-plated		
Weight (piston only) oz.		16.4	20.9	27.2	27.4	
Clearance (limits)	Top land	.025 - .030	.029-.034	.032 - .038		
	Skirt Top	.0005 - .0015 specified, .00075 - .00125 desired				
	Skirt Bottom	--				
Ring groove depth	No. 1 ring	.179	.205	.220		
	No. 2 ring	.179	.205	.220		
	No. 3 ring	.181	.198	.208		
	No. 4 ring	None				

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

(a) Alternator charging.

(b) Horizontal slot, steel band, elliptically-turned, tin-plated.

AMA Specifications – Passenger Car

MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 6-25-63 REVISED(•) 1-31-64

POWER TEAMS

(Indicate whether standard or optional)

	MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO (Std. first)
		Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM			* Also available with Sure-Grip differential.
DART	Std	170	1, 1-bbl	8.5	101 @ 4400	155@ 2400	Manual	3-Speed	3.23*, 2.93, 3.55
								4-Speed	3.23*, 2.93, 3.55
							Automatic		3.23*
	Opt - 225 Charger	225		8.4	145 @ 4000	215 @ 2400	Manual	3-Speed	3.23*, 3.55
								4-Speed	3.23*, 2.93, 3.55
							Automatic		2.93, 3.23*
DODGE 6	Std - except Sta. Wagon	225	1, 1-bbl	8.4	145 @ 4000	215 @ 2400	Manual		3.31, 3.23*, 3.55
							Automatic		2.93, 2.76*, 3.31, 3.55
	Std - Sta. Wagon						Manual		3.23*, 3.55
							Automatic		2.93, 3.23*, 3.55
DODGE V-8	Std	318	1, 2-bbl	9.0	230 @ 4400	340 @ 2400	Manual		2.93, 3.23*, 3.55
							Automatic		2.76*, 3.23*, 2.93
	Opt - 383 V-8	383		10.0	305 @ 4600	410 @ 2400	Manual	3-Speed	3.23*
								4-Speed	3.23*
							Automatic		3.23*,
	Opt - 383 V-8 4-bbl		1, 4-bbl		330 @ 4600	425 @ 2800	Manual	3-Speed	3.23*
								4-Speed	3.23*
							Automatic		3.23*,
	Opt - 426 V-8 4-bbl	426		10.3	365 @ 4800	470 @ 3200	Manual, 4-Speed		3.23
							Automatic		3.23

AMA Specifications – Passenger Car

MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 6-25-63 REVISED (•)

MODEL

See page 2 for engine usage

	170 Cu In.	225 Cu In.	318 Cu In.	383 Cu In.	426 Cu In.
ENGINE—RINGS					
Function (top to bottom) – No. 1, oil or comp.	Compression				
Function (top to bottom) – No. 2, oil or comp.	Compression				
Function (top to bottom) – No. 3, oil or comp.	Oil				
Function (top to bottom) – No. 4, oil or comp.	None				
Compression – Description – material, type, coating, etc.	#1 - cast iron, taper twist, tin-plated; #2 - cast iron, reverse twist, taper face, Lubrite-coated		Cast iron, standard taper and twist, tin-plated		
Compression – Width	.078				
Compression – Gap	.010 - .020			.013 - .025	
Oil – Description – material, type, coating, etc.	Cast iron, single piece	(a)	Cast iron, single piece		
Oil – Width	.186				
Oil – Gap	.010 - .020			.013 - .025	
Expanders	(b)	None	(b)	(c)	
ENGINE—PISTON PINS					
Material	High manganese steel				
Length	2.965		2.995	3.565	
Diameter	.9008		.9842	1.094	
Type – Locked in rod, in piston, floating, etc.	Press-fit in rod		Floating	Press-fit in rod	
Type – Bushing – In rod or piston	None		Rod	None	
Type – Bushing – Material	--		Bronze on steel	--	
Clearance – In piston	.00045 - .00075		.0000 - .0005	.00045 - .00075	
Clearance – In rod	.0007 - .0014 interference		.0001 - .0006	.0007 - .0014 interference	
Direction & amount offset in piston	.06 Right			.09 Right	
ENGINE—CONNECTING RODS					
Material	Drop-forged steel				
Weight (oz.)	25.7	26.8	25.6	28.6	29.8
Length (center to center)	5.71	6.70	6.12	6.36	6.77
Bearing – Material & Type	Lead-base babbitt on steel, removable, precision		Bi-metal grid	Lead-base babbitt on steel, removable, precision	
Bearing – Overall length	.985		.843	.927	
Bearing – Clearance (limits)	.0005 - .0015				
Bearing – End play	.006 - .012		.006 - .014 (2 rods)	.009 - .017 (2 rods)	

(a) 3-piece, two chrome-plated rails with stainless steel expander-spacer.

(b) Oil ring only: low-tension, hump-type.

(c) Oil ring only: standard tension, hump-type.

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See page 2 for engine usage

MODEL	170 Cu In. 225 Cu In.	318 Cu In.	383 Cu In.	426 Cu In.

ENGINE—CRANKSHAFT

Material			Drop-forged steel			
Vibration damper type			Non-adhesion, 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; #3 only - tin-base babbitt on steel			
	Clearance		.0002 - .0022 specified, .0005 to .0015 desired			
	Journal dia. and bearing overall length	No. 1	2.75 x 1.034	2.5 x .872	2.625 x .944	2.75 x .944
		No. 2	2.75 x 1.034	2.5 x .872	2.625 x .944	2.75 x .944
		No. 3	2.75 x 1.254	2.5 x 1.151	2.625 x 1.221	2.75 x 1.223
		No. 4	2.75 x 1.034	2.5 x .872	2.625 x .944	2.75 x .944
		No. 5	--	2.5 x 1.562	2.625 x .944	2.75 x .944
		No. 6	--			
		No. 7	--			
	Dir. & amt. cyl. offset		None			
Crankpin journal diameter			2.187	2.125	2.375	

ENGINE—CAMSHAFT

Location			Right side	Center of "V" above crankshaft	
Material			Hardenable cast iron; oil pump and distributor drive gear cast integrally		
Bearings	Material		Lead-base babbitt on steel		
	Number		Four	Five	
Type of Drive	Gear or chain		Chain		
	Crankshaft gear or sprocket material		Malleable cast iron or sintered iron (Super Oilite)		
	Camshaft gear or sprocket material		Cast iron		
	Timing chain	No. of links	50	68	50
		Width	.88	1.02	.88
		Pitch	.50	.38	.50

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		NA		Standard
Valve rotator, type (intake, exhaust)		Low-friction lock on exhaust		
Rocker ratio		1.5		
Operating tappet clearance (indicate hot or cold)	Intake	.010 Hot	.013 Hot	Hydraulic
	Exhaust	.020 Hot	.021 Hot	Hydraulic
Timing marks on flywheel, damper, other		(a)	Stationary indicator on chain case cover	

(Continued)

(a) Stationary indicator on water pump housing.

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MODEL

See page 2 for engine usage

			170 Cu In. 225 Cu In.	318 Cu In.	383 Cu In. 2-bbl	383 Cu In., 4-bbl 426 Cu In., 4-bbl
ENGINE—VALVE SYSTEM (cont.)						
Timing	Intake	Opens (°BTC)	8	19	13	24
		Closes (°ABC)	44	45	59	64
		Duration - deg.	232	244	252	268
	Exhaust	Opens (°BBC)	48	59	59	64
		Closes (°ATC)	TDC	1	13	24
		Duration - deg.	228	240	252	268
	Valve opening overlap		8	20	26	48
Intake	Material		SAE 1041			
	Overall length		4.77	4.60	4.87	
	Actual overall head dia.		1.62	1.84	2.08	
	Angle of seat & face		45°			
	Seat insert material		None			
	Stem diameter		.37			
	Stem to guide clearance		.001 - .003			
	Lift (@ zero lash)		.371	.397	.392	.430
	Outer spring press. and length	Valve closed (lb. @ in.)	53 @ 1.69		100 @ 1.86	
		Valve open (lb. @ in.)	143.5 @ 1.31		195 @ 1.47	
	Inner spring press. and length	Valve closed (lb. @ in.)	None			Damper only
		Valve open (lb. @ in.)	None			
Exhaust	Material		21-4N			
	Overall length		4.80	4.54	4.89	
	Actual overall head dia.		1.36	1.56	1.60	
	Angle of seat & face		45° - 47°	45°		
	Seat insert material		None			
	Stem diameter		.37			
	Stem to guide clearance		.002 - .004			
	Lift (@ zero lash)		.364	.403	.390	.430
	Outer spring press. and length	Valve closed (lb. @ in.)	53 @ 1.69		100 @ 1.86	
		Valve open (lb. @ in.)	143.5 @ 1.31		195 @ 1.47	
	Inner spring press. and length	Valve closed (lb. @ in.)	None			Damper only
		Valve open (lb. @ in.)	None			

ENGINE—LUBRICATION SYSTEM

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

(Continued)

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MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 6-26-63 REVISED (•) 11-29-63

MODEL	VL1	VD1	VD2		
	170 Cu In. 225 Cu In.	225 Cu In.	318 Cu In.	383 Cu In.	426 Cu In.

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Rotary	
Normal oil pressure (lb. @ engine rpm)	45 to 65 @ 2000	
Oil pressure sending unit (elect. or mech.)	Electrical	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, partial, other)	Full flow	
Filter replacement (element, complete)	Complete	
Capacity of crankcase, less filter-refill (qt.)	4	5
Oil grade recommended (SAE viscosity and temperature range)	Above + 32 F . . . . . SAE 10W-30 or SAE 30 As low as + 10F . . . . . SAE 10W-30 or SAE 10W As low as - 10F . . . . . SAE 5W-20, SAE 10W-30, SAE 10W Below - 10F . . . . . SAE 5W-20 or SAE 5W	
Engine Service Requirement (MM, MS, etc.)	MS	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single		Single, with cross over (a)		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		One, reverse flow (a)				Dual
Exhaust pipe dia. (O.D. & wall thickness)	Branch	--		1.75 x .075	1.88 x .083	--
	Main	1.75 x .075	1.88 x .075	2.00 x .075	2.25 x .083	
Tail pipe diameter (O.D. & wall thickness)		1.50 x .048	1.75 x .048	1.88 x .048		

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., Induction system, other)		Standard	Induction system
		Optional	--
Control unit	Make and model		Chicago Screw (b)
	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 through base of carburetor
	Air inlet (breather cap, carburetor air cleaner, other)		Breather cap
	Flame arrestor (screen, check valve, other)		Check valve

(a) VD2 with 4-bbl 383-cu in. engine has dual exhausts; in this case, the exhaust pipe branch diameter does not apply.

(b) Part numbers: 170-cu in. engine - 2463553; all other engines - 2463554.

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MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 6-26-63 REVISED (•) 2-3-64

MODEL	VL1		VD1	VD2		
	170 Cu In.	225 Cu In.	225 Cu In.	318 Cu In.	383 Cu In.	426 Cu In.

ENGINE—FUEL SYSTEM

(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor			
Fuel Tank	Capacity (gals.)		18	19, station wagons 21		
	Filler location		Left rear fender	Behind rear license plate (a)		
Fuel Pump	Type (elec. or mech.)		Mechanical			
	Locations		Right center	Right front		
	Pressure range, psi		4 - 5.5	6 - 7.5	4 - 5.5	
Vacuum booster (std., optional, none)			None			
Fuel Filter	Type		Fuel tank - plastic; fuel line - paper			
	Locations		In fuel tank and in-line between fuel pump and carburetor			
Carburetor	Choke type		Automatic, separate			
	Intake manifold heat control (exhaust or water)		Exhaust			
	Air clnr. type	Standard	Paper element			
		Optional	--			

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
DART	Std 170	Manual	Ball and Ball	BBS-3675S	1, 1-bbl	1.56 •
			Holley	R-2885A		
		Automatic	Ball and Ball	BBS-3676S		1.69 •
			Holley	R-2886A		
	Opt 225	Manual	Ball and Ball	BBS-3677S		
			Holley	R-2887A		
		Automatic	Ball and Ball	BBS-3678S		
			Holley	R-2888A		
DODGE 6	Std 225	Manual	Ball and Ball	BBS-3679S	1, 1-bbl	1.69 •
			Holley	R-2889A		
		Automatic	Ball and Ball	BBS-3680S		
			Holley	R-2890A		
DODGE V-8	Std 318	Manual	Ball and Ball	BBD-3682S	1, 2-bbl	1.44
			Stromberg	WW3-239		
		Automatic	Ball and Ball	BBD-3683S		
			Stromberg	WW3-240		
	Opt - 383 2-bbl	All	Ball and Ball	BBD-3684S		1.56
	Opt - 383 4-bbl		Carter	AFB-3611S	1, 4-bbl	P: 1.44 S: 1.56 •
	Opt - 426 4-bbl					

(a) Station Wagons - top of left rear fender.

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MODEL	VL1		VD1	VD2		
	170 Cu In.	225 Cu In.	225 Cu In.	318 Cu In.	383 Cu In.	426 Cu In.

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure-Vent				
Radiator cap relief valve pressure			14, 16 with AC				
Circulation thermostat	Type (choke, bypass)		Choke, pellet				
	Starts to open at (°F)		177 - 184				
Water pump	Type (centrifugal, other)		Centrifugal				
	GPM @ 1000 pump rpm						
	Number of pumps		One				
	Drive (V-belt, other)		V-belt				
	Bearing type		Ball, permanently sealed				
By-pass recirculation type (internal, external)			External			Internal	
Radiator core type (cellular, tube and fin, other)			Tube and spacer		Tube and spacer (a)		
Cooling system capacity	With heater (qt.)		12	13	21	17	
	Without heater (qt.)		11	12	20	16	
	Opt. equipment-specify (qt.)		None				
Water jackets full length of cylinder (yes, no)			No		Yes	No	
Water all around cylinder (yes, no)			Yes				
Radiator hose	Lower	Number and type (molded, straight)	One, molded				
		Inside diameter	1.50			Radiator end 1.50 Water pump end 1.75	
	Upper	Number and type (molded, straight)	One, molded				
		Inside diameter	1.50				
	By-pass	Number and type (molded, straight)	One, straight		One, molded	None	
		Inside diameter	0.68		0.80	--	
Fan	Number of blades & Spacing		Four, 76° - 104° (b)			Four, 76° - 104° (c)	
	Diameter		16, 17 w/AC	17, 18w/AC	18		
	Ratio-fan to crankshaft rev.		1.07:1, w/AC 1.10:1	1.07:1	.95:1	.95:1 (d)	.95:1
	Fan cutout type		None			Std: None (e)	
	Bearing type		See Water Pump				
*Drive belts (Indicate belt used by letter)	Fan		See Page 9A				
	Generator		See Page 9A				
	Water Pump		See Page 9A				
	Power Steering		See Page 9A				
	Air Conditioning		See Page 9A				

(a) Fin and tube optional. (b) VL1 - Six with air conditioning, 54° - 50° - 76°. (c) With air conditioning on the 318-cu in. and 383-cu in. versions: seven, 60° - 45° - 59° - 47° - 54° - 50° - 45°. (d) With air conditioning - 1.29:1. (e) With air conditioning - Silent-Flite.

MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 6-28-63 REVISED (•)

DRIVE BELTS

LEGEND - PULLEY LOCATIONS:

CS	-	Crankshaft Drive	AC	-	Air Conditioner Compressor
FWP	-	Fan and Water Pump	PS	-	Power Steering Pump
A	-	Alternator	I	-	Idler

APPLICATIONS

	DART				DODGE SIX			DODGE V-8					
	170 Cu In.		225 Cu In.		225 Cu In.			318 Cu In.		383 Cu In.		426 Cu In.	
	w/wo PS	AC w/wo PS	w/wo PS	AC w/wo PS	Std	With PS	AC w/wo PS	w/wo PS	AC w/wo PS	w/wo PS	AC w/wo PS	w/wo PS	AC w/wo PS(a)
CS-FWP-A	A	A	E	E	E	E	E	F	F	H		H	
CS-PS	B	C	B	C		B	C	G	G	I	I	I	I
CS-I-AC-FWP		D		D									
CS-I-AC							D		D				
CS-I-FWP											J		J
CS-AC-A											2K		2K

DIMENSIONS

	A	B	C	D	E	F	G	H	I	J	K
Angle of "V"	36°										
Nominal Length, SAE	55.00	36.50	38.38	53.00	57.38	48.50	38.75	46.25	41.00	34.25	66.35
Width	.38			.50	.38		.50	.38	.50	.38	.47

(a) Not available with 426-cu in. engine.

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-2-63 REVISED (•)

MODEL	VL1		VD1	VD2		
	170-cu in.	225-cu in.	225-cu in.	318-cu in.	383-cu in.	426-cu in.

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		MoPar				
	Voltage Rtg. & Total Plates		12, 42	12, 54		12, 78	
	SAE Designation & Amp Hr. Rtg		9HCO, 38	9HC3, 48		9HC5, 70	
	Location		Left front fender shield				
	Terminal grounded		Negative				
Alternator Generator	Make		Chrysler				
	Model		2098835	2098830 (a)			
	Type		Three-phase, full-wave rectifier				
	Ratio—Gen. to Cr/s rev.		2.45		2.18	2.32 (b)	2.32
	Gen. cut-in (hot)—engine rpm		Not applicable				
Regulator	Make		Chrysler				
	Model		2098300				
	Type		Voltage control				
	Cutout relay	Closing voltage @ generator rpm	--				
		Reverse current to open	--				
	Regulated	Voltage	13.7 to 14.3 @ 70F				
		Current	--				
	Voltage test conditions	Temperature	75°				
		Load	--				
		Other	Run 15 min. at 1250 engine rpm with 15-amp load				

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Chrysler	
	Model		2098500	2095150
	Rotation (drive end view)		Clockwise	
	Engine cranking speed			
	Test conditions			
	Lock test	Amps	340-420	400-500
		Volts	4	
		Torque (lb. ft.)	NA	
	No load test	Amps	90	
		Volts	11	
		RPM (min.)	2950	1925 - 2400
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		With transmission in neutral, depress accelerator pedal one-third, turn ignition key beyond "Ignition On" position	

(a) 383-cu in. engine version with air conditioning 2098850.

(Continued)

(b) 2.44 with air conditioning.

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-2-63 REVISED (•)

MODEL	VL1		VL1, VD1	VD2				
	170 cu in.		225	318 cu in.		383 cu in.		426
	Man	Auto	cu in.	Man	Auto	2-bbl	4-bbl	cu in.

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid, with reduction gear					
	Pinion meshes (front, rear)		front					
	Number of teeth	Pinion	10					
		Flywheel	122	130				
	Flywheel tooth face width		.340					

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Prestolite or Essex with Chrysler-built ballast resistor						
	Model		200759 or 67-160-4						
	Amps	Engine stopped	3.0						
		Engine idling	1.9						
Distributor	Make		Chrysler					Prestolite	
	Model		2444255	2444256	2444254	2444258	2444259	2444261	IBS-4006J	IBS-4011E
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	See page 11A						
		Intermediate points deg. @ rpm	"						
		Max deg. @ rpm	"						
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	"						
		Intermediate points, deg @ in Hg	"						
		Max. deg. in. Hg.	"						
	Breaker gap (in.)		.017 to .023		.014 to .019				
	Cam angle (deg.)		40 to 45		28 to 33			34 to 40 (a)	
	Breaker arm tension (oz.)		17 to 20					17 to 21.5	
Timing	Crankshaft deg. @ rpm.		2.5 BTC at idle		(b)	10 BTC at idle			
	Mark location		Water pump housing		Chain case cover				
	Cylinder numbering system (see page 2)		Front to rear		Left bank 1-3-5-7 Right bank 2-4-6-8				
	Firing order (see page 2)		1-5-3-6-2-4		1-8-4-3-6-5-7-2				
Spark Plug	Make and model		Champion						
			N14Y		J12Y			J10Y	
	Thread (mm)		14-mm						
	Tightening torque (lb. ft.)		30 to 32						
	Gap		.035						
Cable	Conductor type		Resistor						
	Insulation type		Synthetic rubber with neoprene jacket					(c)	
	Spark plug protector		Hypalon		Silicone				

ELECTRICAL—SUPPRESSION

Locations & type	Resistance-type leads to coil and spark plugs

(a) Each breaker point set 27° to 32°.

(b) 5° BTC at idle.

(c) Synthetic rubber with Hypalon jacket.

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-2-63 REVISED(•)

SUPPLEMENTARY INFORMATION

DISTRIBUTOR

CENTRIFUGAL ADVANCE
(Crankshaft degrees at engine rpm)

	2444254	2444255	2444256	2444258
Start	0 @ 780-1120	0 @ 750-1050	0 @ 650-950	0 @ 640-960
Intermediate	0-4 @ 1120 12-16 @ 2160	0-5 @ 1050 16-20 @ 2020	0-14 @ 950 12-16 @ 1200	0-4 @ 960 9-13 @ 1700
Maximum	21-25 @ 5000	25-29 @ 4400	25-29 @ 4400	21-25 @ 4600

	2444259	2444261	IBS-4006J	IBS-4011E
Start	0 @ 660-1140	0 @ 500-900	0 @ 650-950	0 @ 520-1080
Intermediate	0-4 @ 1140 4-8 @ 1600	0-4 @ 900 5-9 @ 1400	0-8 @ 950 9-13 @ 1280	0-4 @ 1080 7-11 @ 2100
Maximum	16-20 @ 4600	21-25 @ 4300	18-22 @ 4800	14-18 @ 4800

VACUUM ADVANCE
(Crankshaft degrees at inches of mercury)

	2444254	2444255	2444256	2444258
Start	0 @ 4.9-7.1	0 @ 5.0-7.1	0 @ 5.0-7.1	0 @ 8.0-10.0
Intermediate	6-10 @ 10.5	8-14 @ 9.2	6-12 @ 8.5	10-16 @ 13.0
Maximum	10.5-15 @ 13.0	17-23 @ 12.0	12-17 @ 10.0	18-24 @ 16.0

	2444259	2444261	IBS-4006J	IBS-4011E
Start	0 @ 8.0-10.0	0 @ 4.5-8.0	0 @ 7.2-8.9	0 @ 6.0-9.0
Intermediate	10-16 @ 13.0	12-18 @ 12.0	9-15 @ 12.0	9-15 @ 12.0
Maximum	18-24 @ 16.0	23-29 @ 16.5	15-21 @ 14.5	15-21 @ 14.3

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-2-63 REVISED (•)

MODEL

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	Stewart-Warner	King Seely
	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		None	
Ignition switch	Identify positions in order and circuits controlled	Center position . . . . . Off 1st position clockwise . . . . . Ignition and accessory circuit 2nd position clockwise . . . . . Starter and ignition circuit 1st position counterclockwise . . . Accessory circuit	
	Provision for illumination	Yes	None
	Location	Right of steering column	
Main lighting switch	Identify positions and lamps controlled	Full in . . . . . Off 1st position out . . Instruments, tail, parking, and license plate lamps Full out . . . . . Instruments, tail, head, and license plate lamps	
Other light switches	Locations and lamps controlled	INSTRUMENT LAMPS: Variable rheostat, concentric with head lamp switch. OIL PRESSURE SWITCH (Dart only): Engine. DOME LAMP: Integral with headlamp switch. AUTOMATIC DOOR SWITCH: Both front doors. STOP LAMP SWITCH: Brake pedal. DIRECTIONAL SIGNAL SWITCH: Lever on steering column below steering wheel.	
Other switches	Locations and devices controlled	Windshield Wiper - One-speed, left of steering column. Variable speed is optional.	
		Defroster - Push-pull, center instrument panel Air Control - Push-pull, center instrument panel Heater - Two-speed by turning air control knob to right, center instrument panel	Defroster Control - Push button, right of steering column Air Vent - Push button, right of steering column Heater Control - Rotary 3-speed knob, push button and slide lever right of steering column
Windshield wiper	Make Motor Only	Autolite	Autolite and General Industries
	Type	Electric	
	Vacuum booster provision	None	
	Washer provision	Yes, opt	
Horn	Type	Sea shell	
	Number used	Two	
	Amp draw (each)	Sparton Automotive 6-8 amp, Autolite 8-10 amp	

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE **MODEL YEAR** 1964 **DATE ISSUED** 7-5-63 **REVISED** (•)

MODEL	VL1	VD1, VD2		
		L, M		H
		Exc 45	45	

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.

Headlamps & arrangement		2-6012	Hi-beam 2-4001, Lo-beam 2-4002		
Headlamp beam indicator		1-57			
Parking		2-1034 (A)			
Tail		2-1034 (B)	2-1034 (C) + 2-1095	2-1034 (D) + 2-67	4-1034 (E)
Stop		Same as (B)	Same as (C)	Same as (D)	Same as (E)
Direction signal	Front	Same as (A)			
	Rear	Same as (B)	Same as (C)	Same as (D)	Same as (E)
	Indicator	1-57	2-57		
License Plate		1-67		2-67	1-67
Oil pressure indicator		1-57	None		
Charge indicator		Same as (F)	Same as (G)		
Instrument		3-57 (F)	4-57 (G)		
Clock		None	Same as (G)		
Radio		1-53X*	1-1892 or 1893*		

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA.

Ignition lock	None			
Back up	2-1073*	2-1141*	2-1073*	2-1141*
Dome	1-1004			
Glove compartment	1-1891*			
Prkg. brake signal	1-57*			
Luggage compartment	1-1003*			
Underhood	1-1004* (a)			
Courtesy	1-90* (a)	1-90* (a)(b)	1-90* (a)	
Map	--	Same as Courtesy	--	
Trans. Push Buttons	1-53X*			
Heater Push Buttons	None	1-1892		

(a) Dealer installed only.

(b) Standard equipment on convertible coupes.

NOTE: Where bulbs are used for more than one function, the first use is indicated by a letter and other functions by the same letter. An asterisk (*) indicates the bulb is optional equipment.

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE **MODEL YEAR** 1964 **DATE ISSUED** 7-5-63 **REVISED** (•) 1-31-64

MODEL	VL1		VD1			VD2		
	Exc 45	45	L, M Exc 45	L, M 45	H	L, M Exc 45	L, M 45	H

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Direction indicator same as (a).

Headlamp	15CB (A)	20CB (B)
Headlamp beam indicator		Same as (B)
Parking lamp	AGC 20 (C)	
Tail lamp	Same as (C)	
Stop lamp	Same as (C)	
Direction indicator	Not fused	
License plate lamp	Same as (C)	
Instrument lamp	AGC 2 (D)	
Ignition lamp	None	
Back up lamp	Same as windshield wiper	
Dome lamp	Same as (C)	
Clock	NA	Not fused
Clock lamp	NA	Same as (D)
Radio	AGC 7.5	
Glove compartment lamp	AGC 20 (E)	
Trunk lamp	Same as (C)	
Underhood lamp	Not fused	
Parking brake indicator	AGC 20 (D)	
Cigar lighter	Same as (E)	
Map and courtesy	Same as (E)	
Heater	AGC 20 (F)	
Air conditioner	Same as (D)	Same as (F)
Oil pressure indicator	Not fused	
Windshield Wiper	Single speed 5CB, Variable speed 6CB	

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	--		23.1	21.3	23.1		21.4	23.1 •
		Highest	25.9	28.4	23.1	21.4	23.1		21.4	23.1 •
	Stop		Same as tail lamp							
	Backup		26.4	19.9	22.4	13.6	22.4	22.4	13.6	22.4 •
	License, rear		17.7	15.0	25.4	13.9	18.1	25.4	13.9	18.1 •
	Directional	Front	13.0	13.8	14.8	15.8	14.8		15.7	14.8 •
		Rear	Same as tail lamp							
	Headlamp	Inside	--		26.0	27.0	26.0		27.0	26.0 •
		Outside*	26.5	27.4	25.5	27.0	25.5	26.0	26.9	26.0 •
Distance from C/L of car to center of bulb	Tail	Inside	--		23.0	21.2	16.5(a)	23.0	21.2	16.5 (a)
		Outside	28.5	27.5	29.5	30.4	29.5	29.5	30.4	25.5
	Stop		Same as tail lamp							
	Backup		19.0	27.0	8.4	7.9	23.0	8.4	7.9	23.0
	License, rear		0							
	Directional	Front	25.5		30.6					
		Rear	Same as tail lamp							
	Headlamp	Inside	--		20.5					
		Outside*	27.5		30.3					

* If single headlamps are used enter here.

(a) Intermediate: 23.0

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-5-63 REVISED (•)

MODEL	VL1		VD1	VD2		
	170-cu in.	225-cu in.	225-cu in.	318-cu in.	383-cu in.	426-cu in.

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Borg and Beck or Auburn dry plate		Borg and Beck, dry plate, semicentrifugal		
Type pressure plate springs		Coil				
Effective plate pressure (lb.)		1158 (a)	1445 (b)	1640	2350	
No. of clutch driven discs		One				
Clutch facing	Material	Woven asbestos				
	Outside & inside dia.	9.12 x 6.12	9.25 x 6.0	10.0 x 6.75	10.5 x 6.5	
	Total eff. area (sq.in.)	71.9	77.8	85.5	106.8	
	Thickness	Borg and Beck .125, Auburn .114		.125		
	Engagement cushioning method	Flat wave springs				
Release bearing	Type & method of lubrication	Ball bearing, permanently lubricated				
Torsional damping	Methods: springs, friction material	Coil springs and coil washers				

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Std
Manual with overdrive (std. or opt.)	NA
Automatic (std. or opt.)	Opt

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		Std - 3, Opt - 4		3	Std-3, Opt-4		4	
Synchronous meshing, specify gears		3-speed - 2nd & 3rd, 4-speed - all forward gears						
Shift lever location		3-speed - steering column, 4-speed - floor						
Lubricant	Capacity (pt.)	6(c)		6	4.5(d)			
	Type recommended	Automatic transmission fluid, Type "A", Suffix "A" (e)						
	SAE viscosity number — Summer	(e)						
	SAE viscosity number — Winter	--						
	SAE viscosity number — Extreme cold	--						

Transmission ratios		VL1				VD1	VD2		
		170-cu in.		225-cu in.		225-cu in.	3-speed		4-speed
		3-speed	4-speed	3-speed	4-speed	3-speed	318-cu in	383-cu in	383-cu in. 426-cu in.
	In first	3.22	3.09	2.95	3.09	2.95	3.02	2.55	2.66
	In second	1.82	1.92	1.83	1.92	1.83	1.76	1.49	1.91
	In third	1.00	1.40	1.00	1.40	1.00			1.39
	In fourth	--	1.00	--	1.00	--			1.00
	In reverse	4.15	3.00	3.80	3.00	3.80	3.95	3.34	2.58

(a) For Auburn clutch 1115. (b) For Auburn clutch 1375.

(c) 4-speed 7.0. (d) 4-speed 7.5.

(e) Multipurpose Gear Lubricant SAE 90 or SAE 140 may be used in warm climates.

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-5-63 REVISED (•)

MODEL	VL1		VD1		VD2	
	Exc 45	45	Exc 45	45	Exc 45	45

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)			None
	Manual lockout (yes, no)			
	Downshift acelerator control (yes, no)			
	Minimum cut-in speed			
	Gear ratio			
	Lubricant	Capacity (pt.) (Overdrive only)		
		Separate filler (yes, no)		
		Type recommended		
		SAE viscosity number	Summer	
			Winter	
			Ext. cold	

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		TorqueFlite 6	TorqueFlite 8
Type describe		Torque converter with automatically-operated Planetary gear transmission	
Method of Selection (Lever, Push Button or other)		Push button	
Selector Pattern		Vertically, left of instrument cluster	
List gear ratios Selector Pattern and indicate which are used in each selector position		R Reverse . . . . . 2.20 N Neutral . . . . . -- D Drive . . . . . 2.45 - 1.45 - 1.00 2 Second . . . . . 2.45 - 1.45 1 First 2.45	
Max. upshift speeds—drive range		See page 16A	
Max. kickdown speeds—drive range		--	
Torque convertor	Number of elements	Three	
	Max. ratio at stall	2.20	
	Type of cooling (air, water)	Water	
Lubricant	Capacity—refill (pt.)	17	19.5
	Type recommended	Automatic transmission fluid, Type "A", Suffix "A"	
Special transmission features		Parking pawl, manually operated lever	

DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Manual transmission	See page 16A
	Overdrive transmission	--
	Automatic transmission	--

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

(Continued)

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-5-63 REVISED (•)

SUPPLEMENTARY INFORMATION

AUTOMATIC TRANSMISSION MAXIMUM UPSHIFT AND KICKDOWN SPEEDS

			Maximum Speeds (Drive Range)	
			Upshift	Kickdown
VL1	170-cu in.	Exc 45	41	62
		45	41	62
	225-cu in.	Exc 45	40	63
		45	40	63
VD1	225-cu in.	Exc 45	42	67
		45	39	63
VD2	318-cu in.	Exc 45	47	74
		45	48	76
	383-cu in. 2-bbl	Exc 45	48	71
		45	49	73
	383-cu in. 4-bbl	Exc 45	39	63
		45	40	65
	426-cu in. 4-bbl	Exc 45	46	68
		45	47	70

PROPELLER SHAFT DIMENSIONS

			Diameter x Length x Wall Thickness		
			Manual 3-Speed	Manual 4-Speed	Automatic 3-Speed
VL1	170-cu in.	Exc 45	3.00 x 58.40 x .065		2.75 x 58.40 x .065
		45	2.75 x 53.40 x .065	3.00 x 53.40 x .065	2.75 x 53.40 x .065
	225-cu in.	Exc 45	3.00 x 58.40 x .065		2.75 x 58.40 x .065
		45	3.00 x 53.40 x .065		
VD1	225-cu in.	Exc 45	3.25 x 59.17 x .065	--	2.75 x 57.05 x .065
		45	3.00 x 56.17 x .065	--	2.75 x 54.05 x .065
VD2	318-cu in.	Exc 45	3.00 x 59.17 x .065	--	2.75 x 57.05 x .065
		45	3.00 x 56.17 x .065	--	2.75 x 54.05 x .065
	383-cu in. 2-bbl	Exc 45	3.00 x 59.17 x .065	3.00 x 57.05 x .065	
		45	3.00 x 56.17 x .065	3.00 x 54.05 x .065	
	383-cu in. 4-bbl	Exc 45	3.00 x 59.17 x .065	3.00 x 57.05 x .065	
		45	3.00 x 56.17 x .065	3.00 x 54.05 x .065	
	426-cu in.	Exc 45	--	3.00 x 57.05 x .065	
		45	--	3.00 x 54.05 x .065	

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-9-63 REVISED (•)

MODEL	VL1		VD1		VD2			
	170 cu in.	225 cu in.	225-cu in. Exc 45	225-cu in. 45	318 cu in.	383-cu in. 2-bbl	383-cu in. 4-bbl	426 cu in.

DRIVE UNITS—PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		--
	Lubrication (fitting, prepack)		--
Universal joints	Make		Chrysler
	Number used		Two
	Type (ball and trunnion, cross, other)		Front - Ball and trunnion Rear - Cross and roller
	Bearing	Type (plain, anti-friction)	Antifriction
		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—REAR AXLE

Description (see instructions)			Std - one-piece case Opt - Sure-Grip, two-piece case						
Limited Slip differential, type			Torque bias						
Drive Pinion Offset			1.625		1.50				
No. of differential pinions			Std - 2, Opt Sure-Grip - 4						
Gear ratios (Std. equip.)	Manual transmission	3-speed	3.23		3.31	3.23	2.93	3.23	--
		4-speed	3.23		--			3.23	
	Automatic transmission		3.23	2.93	2.93		2.76	3.23	
Ring gear O.D. (std. ratio)			7.25		8.25	8.75			
Pinion adjustment (shim, other)			Solid shim (washer)						
Pinion bearing adj. (shim, other)			Solid shim (washer)		Shim pack				
Wheel bearing type			Ball bearing		Tapered roller bearing				
Lubricant	Capacity (pt.)		2.0		4.0				
	Type recommended		MoPar Hypoid Gear Lubricant						
	SAE viscosity number.	Summer	Above -10 F, SAE 90						
		Winter	Between -10 F and -30 F, SAE 80						
		Extreme cold	Below -30 F, SAE 75						

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.76	2.93	3.23	3.31	3.55	
No. of teeth	Pinion	17	14	13		11	
	Ring gear	47	41	42	43	39	

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-10-63 REVISED (•) 1-31-64

MODEL	VL1	VD1		VD2				
		21, 23, 27, 41	45	318-cu in. Exc 45	318-cu in. 45	383-cu in. 2-bbl	383-cu in. 4-bbl	426 cu in.

DRIVE UNITS—WHEELS

Type & material		Disc, steel						
Rim (size and flange type)	Std.	4.5J	5.0K	5.5K	5.0K	5.5K		
	Opt.	--	5.5K	--	5.5K	--		
Attachment	Type (bolt or stud)	Stud						
	Circle diameter	4.0	4.5					
	Number and size	Five (a)	Five, 1/2 - 20 NF					

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.50x13, 2	7.00x14, 2	7.50x14, 2	7.00x14, 2	7.50x14, 2	7.00x 14, 2 (b)	7.50 x 14, 2 •
	Type - Nylon, etc.	Rayon						
Rev/mile at 50 mph.		847	803		803		803	
Inflation press. (cold)	Front	24	22		24	22	24 (d)	22 •
	Rear	24	22	26 (c)	22	26 (c)	22 (d) (c)	
Optional tires - size and ply								

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		Duo-servo					
Self adjusting (std., opt., N.A.)		Std					NA
Hydraulic system type (single, dual, etc.)		Single					
Power brake make & type (remote, integral, etc.)		(e)	Integral, pedal assist, vacuum-operated Opt				
Effective area (sq. in.)*		153.5	195.2			195.2 (f)	234.1
Gross lining area (sq. in.)**		153.5	195.2			195.2 (f)	234.1
Swept drum area (sq. in.)***		254.5	314.2			314.2 (f)	380.1
Percent brake effectiveness—front		60					
Drum	Diameter Front	9	10			10 (f)	11
	Diameter Rear	9	10			10 (f)	11
	Type and material	Cast iron, centrifuse, or cast composite					
Wheel cylinder bore	Front	1.00	1.125				
	Rear	.8125	.9375			.9375 (g)	.8125
Master cylinder bore		1.00					
Available pedal travel		6.2 (h)	7.1; power brakes 4.8				
Line pressure at 100 lb. pedal load		930 (i)	860; power brakes 1100				
Shoe clearance adjustment		No major adjustment required (j)					(j)

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

(Continued)

(a) 7/16-20NF.
(b) Station wagons - 7.50 x 14, 2-ply.
(c) 30 lb when fully loaded.
(d) Station wagons: 22 lb front and 26 lb rear.
(e) Dealer installed.
(f) 11-in. brakes optional; effective and gross lining areas 234.1, swept drum area 380.1 sq in.
(g) .8125 with optional 11-in. brakes.
(h) 4.6 with power brakes.
(i) 1080 with power brakes.
(j) With manual adjusters, tighten until a slight drag is felt, then back off 10 to 12 notches.

AMA Specifications—Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-10-63 REVISED (•)

MODEL

				VL1	VD1	VD2		
						318 cu in.	383-cu in.	426 cu in.
							2-bbl / 4-bbl	

BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Bonded			
	Front Shoe	Material		Molded asbestos			
		Size (length x width x thickness)	Front wheel	7.66 x 2.25 x 0.19	8.46 x 2.5 x 0.19	8.46 x 2.5 x 0.19 (a)	9.31 x 3.0 x 0.21
			Rear wheel	7.66 x 2.0 x 0.19	8.46 x 2.5 x 0.19	8.46 x 2.5 x 0.19 (b)	9.31 x 2.5 x 0.20
		Segments per shoe		One			
	Rear Shoe	Material		Molded asbestos			
		Size (length x width x thickness)	Front wheel	9.82 x 2.5 x 0.19	11.06 x 2.5 x 0.19	11.06 x 2.5 x 0.19 (c)	11.97 x 3.0 x 0.21
			Rear wheel	9.82 x 2.0 x 0.19	11.06 x 2.5 x 0.19	11.06 x 2.5 x 0.19 (d)	11.97 x 2.5 x 0.21
		Segments per shoe		One			

BRAKES—PARKING

Type of control		(e)	Foot-operated pedal, hand-release lever
Location of control		(f)	Through 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)		--

FRAME or UNITIZED CONSTRUCTION

Type and description

Unit construction

SUSPENSION—GENERAL (See Supplemental page 19 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	1.0, Opt for rear 1-3/8
Other special features			--

SUSPENSION—FRONT

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

(Continued)

(a) With opt brakes: 9.31 x 3.0 x 0.21.
(b) With opt brakes: 9.31 x 2.5 x 0.20.
(c) With opt brakes: 11.97 x 3.0 x 0.21.
(d) With opt brakes: 11.97 x 2.5 x 0.21.
(e) T- handle.
(f) Under left end of instrument panel.

AMA Specifications – Passenger Cars

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-9-63 REVISED(•)

MODEL	VL1		VD1		VD2	
	Exc 45	45	Exc 45	45	Exc 45	45

SUSPENSION FRONT (cont.)

Spring	Type	Torsion bar				
	Material	Chromium alloy steel				
	Size (coil design height & I.D.; bar length x dia.)	35.8 x 0.83		41.0 x 0.86	41.0 x 0.88	
	Spring rate (lb. per in.)	NA				
	Rate at wheel (lb. per in.)	90		100		
	Design load (lb. @ design height)	NA				
Stabilizer	Type (link, linkless, frameless)	None				
	Material & bar diameter	--				

STEERING

Manual (std., opt., NA)			Std				
Power (std., opt., NA)			Opt				
Adjustable steering wheel (tilt, swing, other)		Type and description	None				
		(std., opt., NA)	--				
Wheel diameter		Manual	16.0 x 16.4 Oval		16.0 x 17.0 Oval		
		Power	16.0 x 16.4 Oval		16.0 x 17.0 Oval		
Turning diameter	Outside front	Wall to wall (l. & r.)	41.7	40.1	45.0	44.1	45.0	44.1
		Curb to curb (l. & r.)	38.6	37.1	41.7	40.8	41.7	40.8
	Inside rear	Wall to wall (l. & r.)	22.7	21.4	24.7	23.9	24.7	23.9
		Curb to curb (l. & r.)	23.3	22.0	25.4	24.6	25.4	24.6
Outside wheel angle with inside wheel at 20°			17.6°		17.8°		
Manual	Gear	Type	Worm and ball nut				
		Make	Chrysler				
		Ratios – Gear	24.0 to 1				
		Ratios – Overall	28.7 to 1				
	No. wheel turns		5.3				
Power	Type (coaxial, linkage, etc.)		Integral				
	Make		Chrysler				
	Gear	Type	Rack and sector				
		Ratios – Gear	15.7 to 1				
		Ratios – Overall	18.8 to 1				
	Pump driven by		Belt from crankshaft pulley				
	Number wheel turns		3.5				
Linkage	Type		Trailing, parallel idler arms, 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				

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-8-63 REVISED (•) 1-31-64

MODEL	VL1		VD1			VD2		
	21, 23 27, 41	45	21, 41, 23	27	45	21, 23, 41, 43	27	45 •

STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		7.5° @ 0°					
	Bearings (type)	Upper	Ball joint					
		Lower	Ball joint					
		Thrust	Oil impregnated sintered metal					
Wheel alignment (range and preferred)	Caster (deg.)		Manual steering: -0.5° ± 0.5° Power steering: +0.75 ± 0.5° (a)					
	Camber (deg.)		Left: +0.5° ± 0.25°, preferred +0.5° Right: +0.25° ± 0.25°, preferred +0.25°					
	Toe-in (outside tread-inches)		3/32" to 5/32", 1/8" preferred					
Steering spindle & joint type			Ball joint					
Wheel spindle	Diameter	Inner bearing	1.0619			1.2494		
		Outer bearing	0.6869			0.7498		
	Thread size		11/16-24 NEF-3			3/4 - 16 UNF-3A		
	Bearing type		Roller					

SUSPENSION—REAR

Type and description			Parallel, longitudinal leaf						
Drive and torq. taken through (see page 17)			Rear springs						
Spring	Type		Semielliptical, asymmetrical						
	Material		Chromium alloy steel						
	Size (length x width, coil design height and I.D.; bar length & dia.)		55 x 2.5		56 x 2.5				
	Spring rate (lb. per in.)		85	110	90	113	90 (e)	113	
	Rate at wheel (lb. per in.)		105 (b)	120 (b)	110 (b)	140 (b)	110 (b)	140 (b)	
	Design load (lb. at design height) (c)		560	760	680 710	(h)	710 740	(h) •	
	Mounting insulation type		Rubber						
	If leaf	No. of leaves	4 (d)	5		6.5	5 (e)	6.5	
		Inserts Type and size	4, 3.50	5, 3.50		(f)	5, 3.50	(f)	
		Inserts Material	Plastic	Wax-impregnated fabric (g)					
		Shackle (comp. or tens.)	Compression						
Stabilizer	Type (link, linkless, frameless)		None						
	Material		--						
Track bar type			None						

(a) Maximum differential, left to right side - 0.75°; driver's side less positive.
(b) Includes tires.
(c) Checking load at -0.375" opening.
(d) 5 with 225-cu in. engine.
(e) 5.5 with opt 383-cu in. engines, 5.5 with 426-cu in. engine; spring rate 112. •
(f) 3 @ 2.50, 4 @ 3.50.
(g) For 6.5-leaf springs, plastic at front and wax-impregnated fabric at rear.
(h) Right side 880, left side 920.

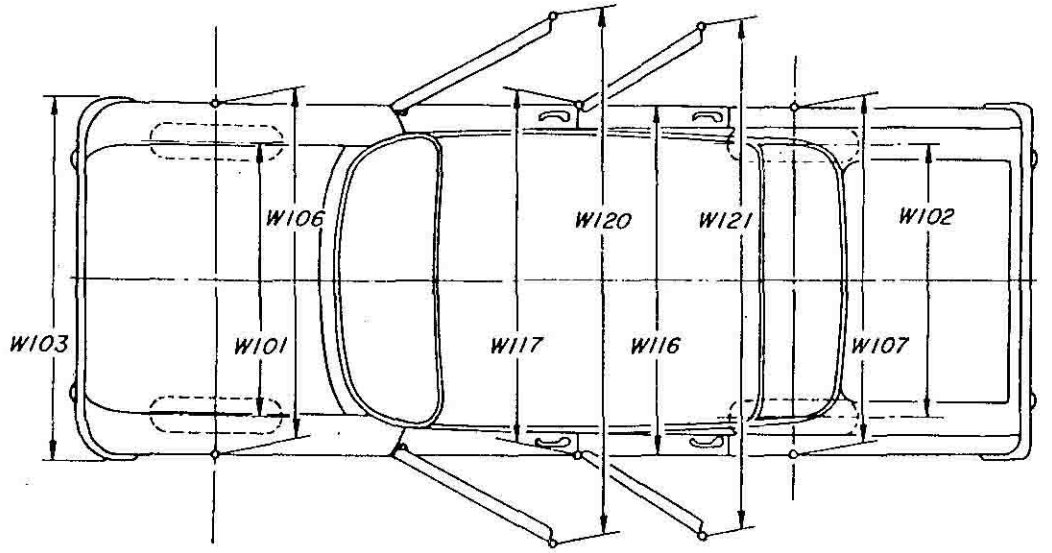
MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-8-63 REVISED (•)

CAR AND BODY DIMENSIONS—GENERAL

Dimensions herein are those adopted by the Society of Automotive Engineers. Brief descriptions of these dimensions are listed on pages 34-36. Complete definitions are listed in section E-1 of the SAE Aeronautical - Automotive Drawing Standards.
The dimensions are developed from the following basic points:

1. Body dimensions are for all body styles.
2. All interior dimensions are taken with manikin 15.0 inches outboard of car centerline unless otherwise stated.
3. All interior dimensions are measured with the front seat in the lowest and rearmost position.
4. Unless otherwise specified, all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
5. The SAE manikin with 90th percentile leg length will be used for recording purposes.
6. The H Point is the pivot center of the manikin's torso and thigh.
7. The D Point is the point of tangency of a horizontal line and the lowest point of the manikin.
8. The Torso Line is a line parallel to the small of manikin's back and extending through the H Point.

EXTERIOR WIDTH DIMENSIONS



MODEL	Ref. No.	VL1			VD1, VD2		
		21, 23, 27	41	45	21, 23, 27	41, 43	45
Tread - front	W101	55.9			59.5		
Tread - rear	W102	55.6			59.6		
Maximum overall car width	W103	69.8		69.0	75.0		75.1
Maximum overall body width	W116	69.8		69.0	74.9		
Maximum body width at #2 pillar	W117	67.8			73.6		
Front fender overall width	W106	69.0			74.9		
Rear fender overall width	W107	69.8		68.8	74.6		
Maximum overall car width - front doors open	W120	150.5	139.2		159.2	142.2	
Maximum overall car width - rear doors open	W121	--	127.5		--	139.5	

AMA Specifications – Passenger Car

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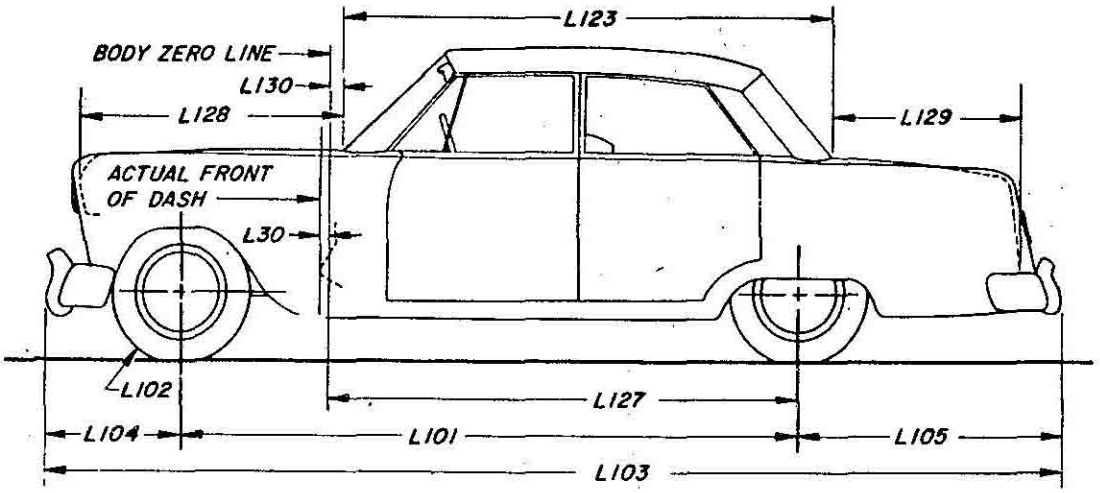
EXTERIOR LENGTH DIMENSIONS



MODEL	Ref. No.	VL1		VD1, VD2		
		21, 23, 27, 41	45	21, 27, 41, 43	23	45
Body zero line to actual front of dash	L30	0.48		2.00		
Wheelbase	L101	111.0	106.0	119.0		116.0
Overhang – front	L104	34.4		36.8		
Overhang – rear	L105	50.9	49.8	54.0		59.5
Overall length	L103	196.3	190.2	209.8		212.3
Hood length at car centerline	L128	48.2		50.1		
Body upper structure length at car centerline	L123	96.5	--	99.2	98.0	--
Deck length at car centerline	L129	38.1	--	40.7	41.9	--
Body zero line to centerline of rear wheels	L127	99.2	94.2	102.5		99.5
Body zero line to windshield cowl point	L130	11.2		9.0		
Tire size	L102	6.50 x 13, 2-ply		7.00 x 14 2-ply		7.50 x 14

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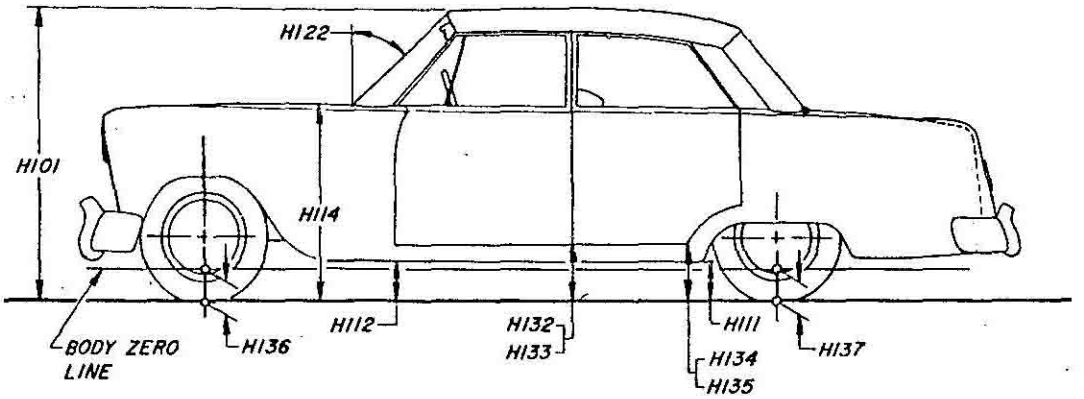
EXTERIOR HEIGHT DIMENSIONS



MODEL	Ref. No.	VL1			VD1			VD2			
		21, 23 41	27	45	21, 41	23	45	21, 41 43	23	27	45
Overall height	H101	53.5	54.0	52.9	55.1	54.4	55.1	55.1	54.4	55.3	55.1•
Hood at rear to ground	H114	36.6		37.0	37.8		38.3	37.8			38.3•
Rocker panel to ground - front	H112	7.3		7.5	8.2		8.7	8.2			8.6•
Rocker panel to ground - rear	H111	7.0		6.4	7.7		7.6	7.7			7.5•
Bottom of door to ground, open - front	H132	12.7		12.6	12.7		12.9	12.7			12.9•
Bottom of door to ground, closed - front	H133	11.7		11.4	11.8		11.9	11.7 (b)			11.9
Bottom of door to ground, open - rear (a)	H134	12.0	--	11.4	12.2	--	12.2	12.2	--		12.2•
Bottom of door to ground, closed - rear (a)	H135	11.6	--	11.1	11.6	--	11.5	11.6	--		11.5•
Windshield slope angle	H122	53°			53.5°						
Body zero to ground - front	H136	11.57		12.06	12.57		13.29	12.56			13.21•
Body zero to ground - rear	H137	11.14		10.43	11.70		11.47	11.69			11.46•

(a) Apply to 4-door models only. (b) 4-Door Sedan (41) 11.8.

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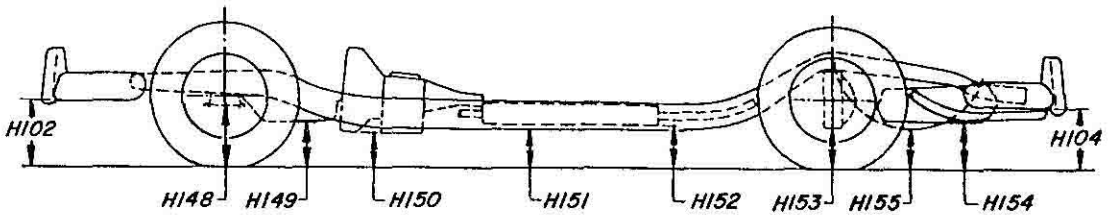
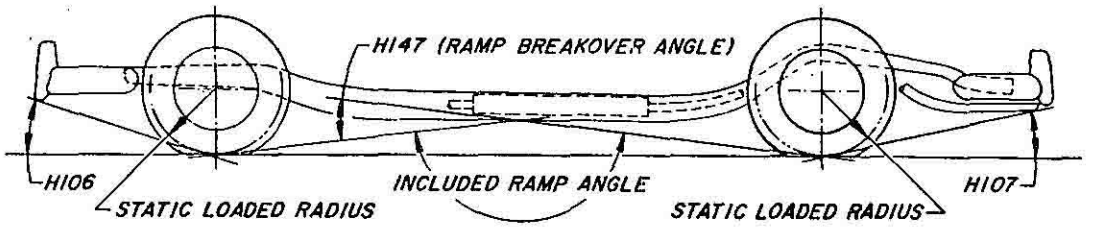
GROUND CLEARANCE DIMENSIONS





MODEL	Ref. No.	VL1		VD1		VD2	
		Exc. 45	45	Exc. 45	45	Exc. 45	45
Front bumper to ground	H102	15.3	16.2	11.1	12.1	11.0	12.0 •
Rear bumper to ground	H104	15.0	12.5	12.0	9.9	12.0	9.9 •
Angle of approach	H106	22.4°	24.3°	21.4°	23.6°	21.4°	23.4° •
Angle of departure	H107	9.0°	13.8°	13.5°	10.4°	13.5°	10.4° •
Ramp breakover angle	H147	11.2°	11.6°	12.0°	13.2°	12.0°	13.2° •
Front suspension to ground	H148	6.1	6.5	6.7	7.4	6.7	7.3 •
Oil pan to ground	H149	5.5	5.8	6.0	6.5	6.0	6.5 •
Flywheel housing to ground	H150	5.8	6.2	6.8	7.4	6.3	6.8 •
Frame structure to ground	H151	5.4	5.6	6.3	6.7	6.3	6.6 •
Exhaust system to ground	H152	5.5	5.5	5.3	5.2	5.3	5.1 •
Rear axle differential to ground	H153	6.8	6.5	6.9	7.0	6.9	7.0 •
Fuel tank to ground	H154	6.5	5.6	7.2	11.4	7.2	11.1 •
Spare tire well to ground	H155	10.8	9.7	Not applicable			•
Minimum running ground clearance	H156	5.5		5.3	5.2	5.3	5.1 •

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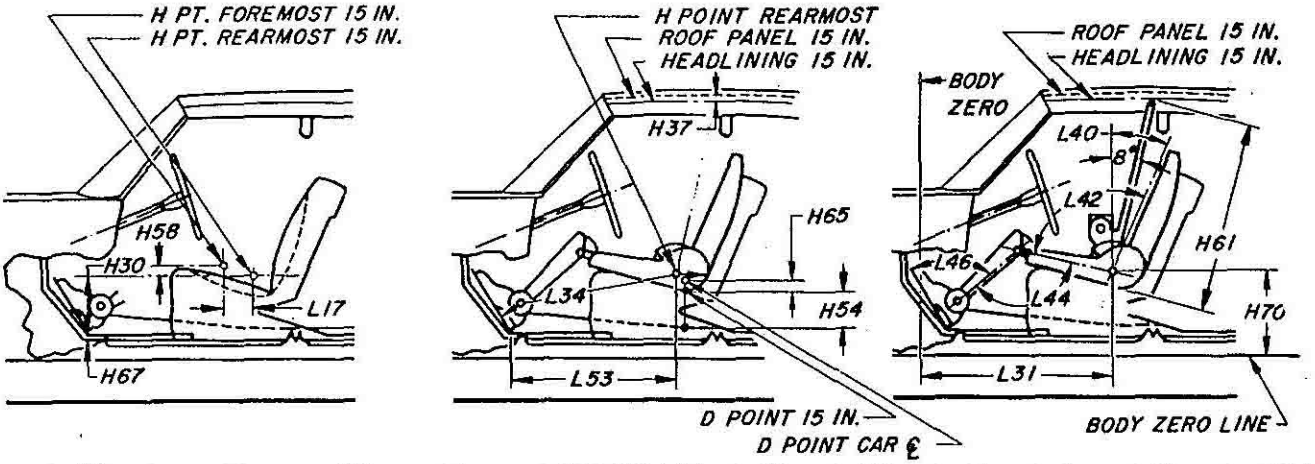
FRONT COMPARTMENT DIMENSIONS



MODEL	Ref. No.	VL1					VD1, VD2					
		L, H			P		21, 41	23	27	45	Opt (a)	
		21, 41	27	45	23	27	43				23	27
H Point to body zero line	L31	42.8			43.8		44.5				44.7	
H Point to body zero line – front	H70	7.2			7.0						7.3	
Effective head room	H61	38.2	39.6	38.2	38.2	39.9	39.1	38.3	40.2	39.2	38.0	39.9•
Headlining to roof height	H37	0.7	0	0.7		0	0.8	0	0.8		0	
Maximum effective leg room – accelerator	L34	39.9			40.9		41.9				42.1 •	
H Point to heel point	H30	8.5			8.4		8.1				8.4 •	
Depressed floor covering thickness	H67	0.38										
Back angle	L40	24°			22°		25°				24°	
Hip angle	L42	90°			94°		96°					
Knee angle	L44	116°			126°		128°				130°	
Foot angle	L46	76°			82°		89°			90° •		
D Point differential, side to center	H65	0.6			NA	0.6	0.6				•	
D Point to tunnel	H54	1.5			NA	1.5	1.8				•	
H Point to accelerator floor point	L53	32.5			33.5		34.2				34.4 •	
H Point travel	L17	4.5										
H Point rise	H58	1.2			0.7		1.2				0.7	

(a) Polara 500 package.

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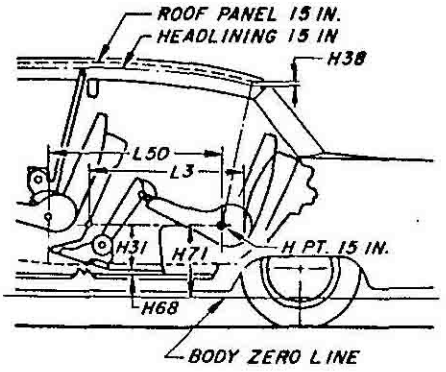
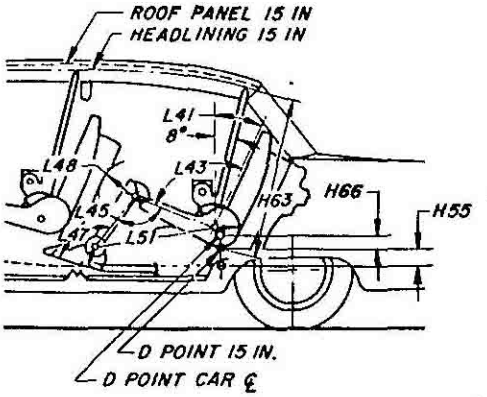
REAR COMPARTMENT DIMENSIONS





MODEL	Ref. No.	VL1					VD1, VD2					
		L, H			P		21, 41				Opt (a)	
		21, 41	27	45	23	27	43	23	27	45	23	27
H Point couple distance	L50	34.2	32.7		34.2	32.7	35.5	32.0	32.8	34.0	31.8	32.6•
H Point to body zero line - rear	H71	7.8					7.2	6.9	7.2		6.9	7.2
Effective head room	H63	37.2	37.8	37.6	37.2	37.8	38.3	37.5	37.9	39.2	37.5	37.9
Headlining to roof height	H38	0.8	0	0.8		0	0.8		0	0.8		0
Minimum effective leg room	L51	36.6	35.0		36.3	34.8	38.1	34.4	35.3	36.5	34.8	35.7
H Point to heel point	H31	11.6					11.0	10.7	11.0		10.7	11.0
Depressed floor covering thickness	H68	0.38										
Minimum knee room	L48	5.5	4.0		4.5	3.2	5.7	2.8	3.4	4.4	3.3	3.8
Rear compartment room	L3	28.7	27.7	27.3		27.7	29.6	26.2	26.9	27.8		
Back angle	L41	24°					26°	24°	25°	24°		25°
Hip angle	L43	88°	85°		88°	86°	92°	83°	86°	87°	83°	90°
Knee angle	L45	97°	90°		93°	87°	105°	87°	91°	97°	89°	97°
Foot angle	L47	117°	113°		117°	113°	125°	115°	117°	121°	115°	117°
D Point differential, side to center	H66	0.5					0.6	0.8	0.6	0	0.8	0.6
D Point to tunnel	H55	1.7		1.6		1.7	1.6	1.4	1.7	1.6	1.4	1.5

(a) Polara 500 package.

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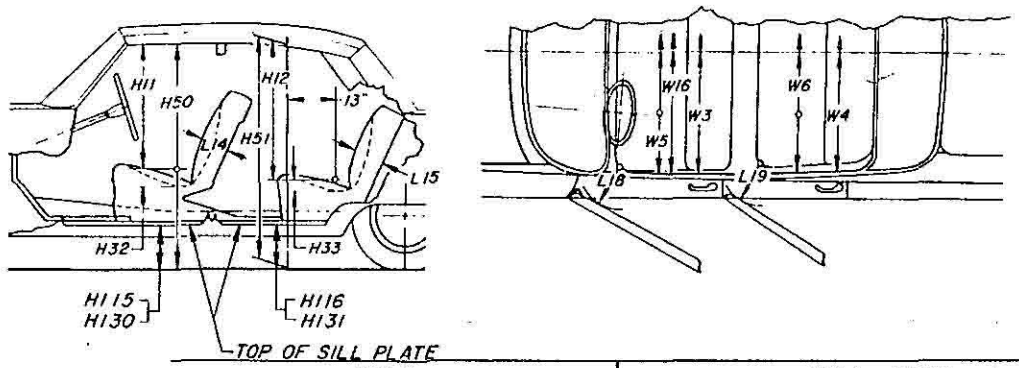
SEAT AND ENTRANCE DIMENSIONS

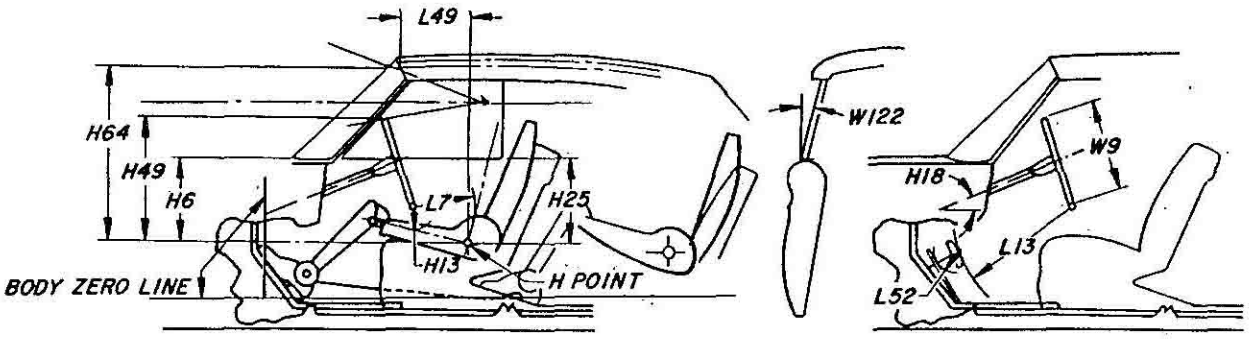


	Ref. No.	VL1 L, H 21, 41	VL1 L, H 27	VL1 L, H 45	VL1 P 23	VL1 P 27	VD1, VD2 21, 41 43	VD1, VD2 23	VD1, VD2 27	VD1, VD2 45	VD1, VD2 Opt (a) 23	VD1, VD2 Opt (a) 27
Shoulder room – front	W3	54.2					57.5					
Hip room – front	W5	56.9					60.8					
Seat width – front	W16	52.0			23.6		55.0				23.6	
Upper body opening to ground – front	H50	49.0	--	48.8	49.1	--	49.7	49.5	--	49.9	49.6	-- •
Entrance height – front	H11	30.5	--	30.5	30.7	--	30.6	30.4	--	30.6	30.2	--
Step height – front (design load)	H115	12.4		12.6	12.4		12.5			12.9	12.5	•
Step height – front (curb load)	H130	14.3		14.4	14.3		14.4			14.8	14.4	
Entrance foot clearance – front	L18	13.7			14.8		16.3					
Seat cushion deflection – front	H32	4.1					3.9					
Seat back thickness – front	L14	5.5					6.5					
Shoulder room – rear	W4	54.4					57.6	57.8	47.9	57.8		47.9
Hip room – ream	W6	57.0	46.4	57.0		46.4	61.0		50.0	61.0		50.0
Upper body opening to ground – rear	H51	46.5	--	46.2	--		47.5	--		47.5	--	•
Entrance height – rear	H12	27.4	--	27.5	--		28.3	28.0	--	28.3	28.0	--
Step height – rear (design load)	H116	12.1		11.5	12.1		12.3				12.3	•
Step height – rear (curb load)	H131	14.6		15.0	14.6		14.4			15.0 (c)	14.4	•
Entrance foot clearance – rear	L19	11.8 (b)	8.0	11.8	7.4		12.4 (d)	7.6		12.4	11.7	•
Seat cushion deflection – rear	H33	4.1		4.3		4.2	4.3		4.0			
Seat back thickness – rear	L15	5.6		5.0	5.6		7.2		5.8	5.5	7.2	5.8

(a) Polara 500 package. (b) 2-door sedan (21) 8.0.
(c) VD2-H - 45 ± 14.6. (d) 2-door sedan (21) 7.6. •

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-9-63 REVISED(•)

VISION AND CONTROL DIMENSIONS



MODEL	Ref. No.	VL1		VD1, VD2	
		L, H	P	L, M, H	Opt (a)
H Point to windshield bottom DLO	H6	19.3		18.7	
H Point to windshield upper DLO	H64	31.1		32.2	
H Point to windshield upper DLO	L49	15.3		15.0	
Belt height - front	H25	16.8	17.0	17.0	16.7
Steering wheel center to centerline of car	W7	13.7		15.8	
Steering wheel maximum outside diameter	W9	16.4		17.0	
Steering column angle - horizontal	H18	Manual: 3.3° Power: 3.1°		Manual: 3.2° Power: 3.1°	
H Point to top of steering wheel	H49	22.8	23.0	23.3	23.0
Steering wheel torso clearance	L7	10.0		11.1	
Steering wheel thigh clearance	H13	3.1	3.9		3.7
Brake pedal knee clearance	L13	24.7			
Brake pedal to accelerator	L52	2.5		3.6	
Tumble-home	W122	12.5°		14.0°	

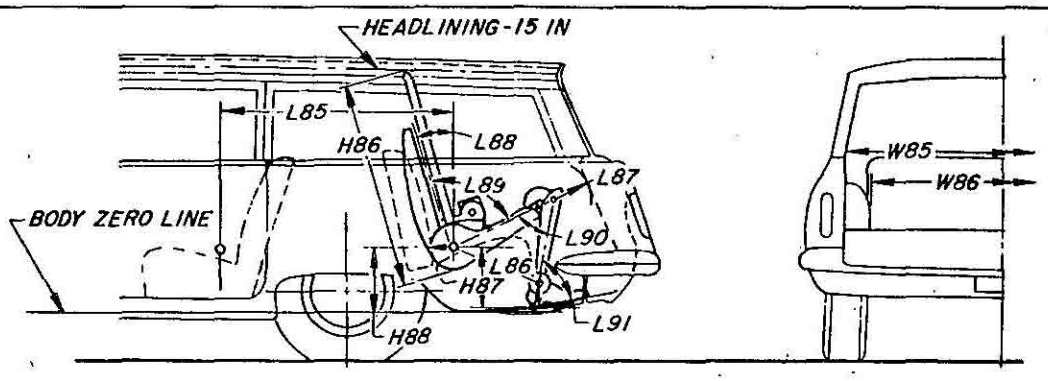
(a) Polara 500 package.

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-9-63 REVISED(•) 1-31-64

LUGGAGE COMPARTMENT

MODEL	Ref. No.	VL1		VD1	VD2	
		Exc 27, 45	27	Exc 45	Exc 27, 45	27
Usable luggage capacity (See instructions)						
Liftover height	H195	21.7		27.5		
Position of spare tire storage						
Method of holding lid open						

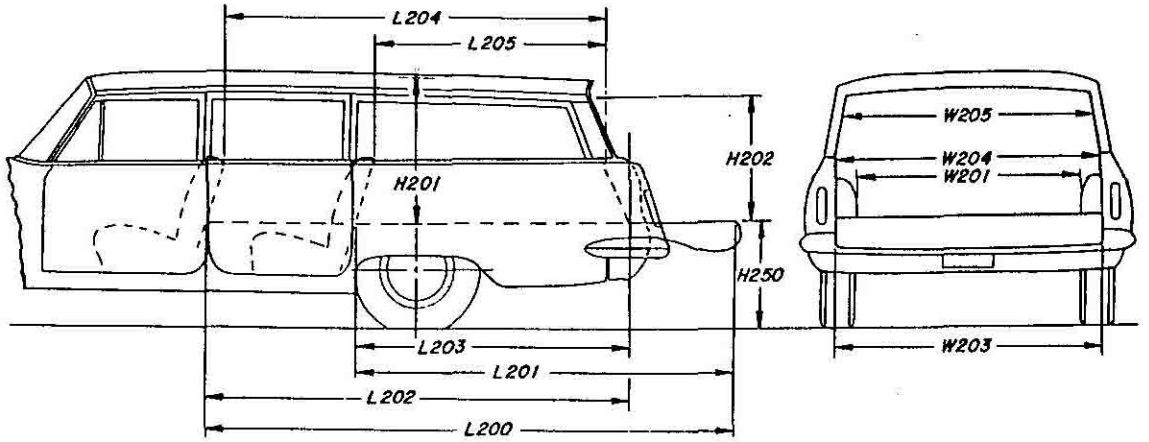
THIRD SEAT DIMENSIONS



MODEL	Ref. No.	VD1, VD2 45
Seat facing direction		Rear
Shoulder room	W85	59.0
Hip room	W86	45.2
H Point couple distance	L85	37.0
H Point to body zero line - third seat	H88	10.0
Effective head room	H86	35.3
Effective leg room	L86	32.5
H Point to heel point	H87	13.2
Knee room	L87	12.0
Back angle	L88	28°
Hip angle	L89	90°
Knee angle	L90	79°
Foot angle	L91	99°

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-9-63 REVISED(•)

STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Ref. No.	VL1	VD1, VD2
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	105.3	117.9
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	74.9	83.2
Floor length from back of front seat at floor level to inside of closed tail gate	L202	83.8	94.3
Floor length from back of second seat at floor level to inside of closed tail gate	L203	51.8	56.6
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	71.4	81.6
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	38.6	45.7
Maximum width of cargo space at floor - specify location	W200	52.6 Immediately forward of wheelhouse	59.4
Minimum distance between wheel houses at floor level	W201	43.5	45.0
Rear end opening width at floor	W203	44.3	49.0
Rear end opening width at belt	W204	43.3	45.7
Maximum width of rear opening above belt	W205	42.8	44.9
Maximum height - floor covering to headlining at centerline of rear axle	H201	30.4	33.1
Maximum height of rear opening - tail and lift gates open	H202	26.1	27.3
Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight	H250	24.0	27.9
Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)		Sliding glass, drop tail gate	
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$		68.3	90.3

AMA Specifications – Passenger Car

MAKE OF CAR DART - DODGE MODEL YEAR 1964 DATE ISSUED 7-10-63 REVISED (•)

MODEL	VL1					VD1, VD2					
	21	23	27	41	45	21	23	27	41	43	45

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front										
	Rear doors	Front										
Type of finish (lacquer, enamel, other)		Synthetic enamel										
Hood counterbalanced (yes, no)		Rear										
Hood release control (internal, external)		External										
Vehicle (Serial) No. Location		Left front door hinge post										
Engine No. Location		Not applicable										
Theft protection - type		Ignition key start, ignition switch terminal block, door locks										
Vent window control method (crank, friction pivot)	Front	Friction pivot										
	Rear	None										
Seat cushion type	Front	(a)	(b)	(a, d)	(a)	(a)	(a)	(a, e)	(a, e)	(a)	(a)	(a)
	Rear	(a)	(b)	(a, d)	(a)	(a)	(c)	(c, f)	(c, f)	(a)	(a)	(a)
	3rd seat	-	-	-	-	-	-	-	-	-	-	(b)
Seat back type	Front	(a)	(a)	(c)	(a)	(a)	(a)	(a)	(c)	(a)	(a)	(a)
	Rear	(a)	(a)	(c)	(a)	(c)	(a)	(a)	(c)	(a)	(a)	(c)
	3rd seat	-	-	-	-	-	-	-	-	-	-	(c)
Windshield glass type (i.e., single curved - laminated plate)		Single, curved, laminated										
Backlight glass type (i.e., compound curved - tempered plate three piece) (g)		1-piece, curved		Plas-tic	1-pc curv	1-pc flat	1-piece, curved		Plas-tic	1-piece, curved		
Side glass type (i.e., curved - tempered plate)		Flat, heat treated safety sheet										
Side glass exposed surface area		1303	1368	1196	1223	2345	1209	1263	1149	1248	1227	2394
Windshield glass exposed surface area		995					1304					
Backlight glass exposed surface area		882		970	882	612	1023	1275	1140	1023		691
Total glass exposed surface area		3180	3245	3161	3100	3952	3536	3842	3593	3575	3554	4389

BODY—CONVENIENCE EQUIPMENT (Indicate whether standard, optional or NA on each series)

		VL1-L	VL1-H	VL1-P	VD1-L	VD1-M	VD1-H	VD2-L	VD2-M	VD2-H	(h)
Power windows	Side Windows	NA									Opt
	Vent Windows	NA									
	Backlight or tailgate	Opt		-	Opt		-	Opt		-	
Power seats (specify type as well as availability)		NA							Opt		NA
Reclining front seat back		NA									
Front seat headrest		NA									
Radios (specify type as well as availability)		Opt, 2-watt			Opt 2-watt, 5.5-watt, or AM-FM						
Rear seat speaker		Opt (Dealer installed) all sedans and hardtops									
Power Antenna		NA									
Clock		NA			Opt						
Air Conditioner (specify type and availability)		Opt Recirculating			Opt: heater and air conditioner combined, factory-installed; recirculating, dealer installed						

(a) Formed wire. (b) Zigzag. (c) Coil. (d) Dart GT-zigzag.
(e) Polara 500-zigzag. (f) Polara 500-formed wire. (g) Heat treated safety sheet.
(h) Polara 500 package.

AMA Specifications – Passenger Car

MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 1-31-64 REVISED (•)

WEIGHTS

		CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
					Pass. In Front		Pass. In Rear		
DART SIX		Front	Rear	Total	Front	Rear	Front	Rear	
Model 170, VL1 - L									
2-Door Sedan	21	1510	1240	2750	52.1	47.9	20.1	79.9	2615
4-Door Sedan	41	1520	1250	2770	52.1	47.9	20.1	79.9	2640
Station Wagon	45	1470	1415	2885	50.5	49.5	19.8	80.2	2740
270, VL1 - H									
2-Door Sedan	21	1510	1245	2755	52.1	47.9	20.1	79.9	2625
Convertible Coupe	27	1580	1300	2880	52.1	47.9	20.1	79.9	2735
4-Door Sedan	41	1520	1255	2775	52.1	47.9	20.1	79.9	2645
Station Wagon	45	1470	1420	2890	50.5	49.5	19.8	80.2	2745
GT, VL1 - P									
2-Door Hardtop	23	1560	1280	2840	49.8	50.2	20.1	79.9	2670
Convertible Coupe	27	1615	1325	2940	49.8	50.2	20.1	79.9	2770
DODGE SIX									
330, VD1 - L									
2-Door Sedan	21	1735	1515	3250	52.4	47.6	19.7	80.3	3115
4-Door Sedan	41	1755	1525	3280	52.4	47.6	19.7	80.3	3145
Station Wagon, 6-pass.	45	1675	1890	3565	50.6	49.4	19.3	80.7	3400
Station Wagon, 9-pass.	45	1670	1960	3630	50.6	49.4	19.3	80.7	3475
440, VD1 - M									
2-Door Sedan	21								3110
2-Door Hardtop	23								3120
4-Door Sedan	41	1755	1525	3280	52.4	47.6	19.7	80.3	3145
Polara, VD1 - H									
2-Door Hardtop	23								3135
4-Door Sedan	41								3170

Accessories & Equipment Differential Weights				Remarks
DART SIX				
Automatic Transmission	+ 20	+ 5	+ 25	
Power Steering	+ 45	- 5	+ 40	
Radio	+ 5	0	+ 5	
Heater	+ 20	0	+ 20	
Undercoat	+ 20	+ 25	+ 45	
Air Conditioner	+ 90	- 5	+ 85	
225-cu in. Engine	+ 15	0	+ 15	
225-cu in. Engine	+ 80	+ 15	+ 95	With manual 4-speed transmission.
225-cu in. Engine	+ 40	+ 5	+ 45	With automatic transmission.
DODGE SIX				
Automatic Transmission	+ 15	+ 5	+ 20	
Power Steering	+ 40	0	+ 40	
Power Brakes	+ 10	0	+ 10	
Power Seats	+ 20	+ 15	+ 35	
Power Windows	+ 10	+ 15	+ 25	
Radio	+ 5	0	+ 5	
Heater	+ 25	+ 5	+ 30	
Undercoat - Sedan	+ 20	+ 35	+ 55	
Sure-Grip Differential	0	+ 15	+ 15	
Air Conditioner	+100	0	+100	

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

AMA Specifications – Passenger Car

MAKE OF CAR DART-DODGE MODEL YEAR 1964 DATE ISSUED 1-31-64 REVISED (•)

WEIGHTS

DODGE V-8		CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
		Front	Rear	Total	Pass. In Front		Pass. In Rear		
					Front	Rear	Front	Rear	
Model 330, VD2 - L									
2-Door Sedan	21								3285
4-Door Sedan	41	1925	1555	3480	52.4	47.6	19.7	80.3	3325
Station Wagon, 6-pass.	45	1850	1910	3760	50.6	49.4	19.3	80.7	3570
Station Wagon, 9-pass.	45								3620
440, VD2 - M									
2-Door Sedan	21	1910	1545	3455	52.4	47.6	19.7	80.3	3280
2-Door Hardtop	23	1920	1540	3460	52.4	47.6	22.3	77.7	3295
4-Door Sedan	41	1925	1555	3480	52.4	47.6	19.7	80.3	3330
Station Wagon, 6-pass.	45	1850	1910	3760	50.6	49.4	19.3	80.7	3585
Station Wagon, 9-pass.	45	1840	1990	3830	50.6	49.4	19.3	80.7	3640
Polara, VD2 - H									
2-Door Hardtop	23	1930	1560	3490	52.4	47.6	22.3	77.7	3320
Convertible Coupe	27	1960	1645	3605	52.4	47.6	19.0	81.0	3435
4-Door Sedan	41	1935	1580	3515	52.4	47.6	19.7	80.3	3365
4-Door Hardtop	43	1955	1600	3555	52.4	47.6	19.7	80.3	3395

Accessories & Equipment Differential Weights				Remarks
Automatic Transmission	- 15	+ 5	- 10	
Power Steering	+ 35	0	+ 35	
Power Brakes	+ 10	0	+ 10	
Power Seats	+ 20	+ 15	+ 35	
Power Windows	+ 10	+ 15	+ 25	
Air Conditioner	+125	- 5	+120	
Radio	+ 5	0	+ 5	
Heater	+ 25	+ 5	+ 30	
Undercoat - Sedans	+ 20	+ 35	+ 55	
Sure-Grip Differential	0	+ 5	+ 5	

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

DIMENSION DEFINITIONS

W3 SHOULDER ROOM - FRONT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W4 SHOULDER ROOM - REAR. Measured in the same manner as W3.

W5 HIP ROOM - FRONT. The lateral dimension through H Point to trimmed surfaces.

W6 HIP ROOM - REAR. Measured in the same manner as W5.

W7 STEERING WHEEL CENTER TO CENTERLINE OF CAR. Measured horizontally from steering wheel center to centerline of car. The point at steering wheel center is located in the surface plane of wheel.

W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.

W16 SEAT WIDTH - FRONT. The maximum trimmed width of front seat cushion.

W85 SHOULDER ROOM - THIRD SEAT. Measured in the same manner as W3.

W86 HIP ROOM - THIRD SEAT. Measured in the same manner as W5.

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

W102 TREAD - REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions.

W106 FRONT FENDER OVERALL WIDTH. Measured at centerline of front wheels, excluding moldings.

W107 REAR FENDER OVERALL WIDTH. Measured at centerline of rear wheels, excluding moldings.

W116 MAXIMUM OVERALL BODY WIDTH. Measured across body, excluding hardware and applied moldings, but including fenders when integral with body.

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

W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN. Measured with front doors in maximum hold-open position.

W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN. Measured in same manner as W120.

W122 TUMBLE-HOME. The angle from vertical to the front door glass outer surface or the chord of a curved door glass, measured at the front H Point station.

L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at a height tangent to the top of rear seat cushion.

L7 STEERING WHEEL TORSO CLEARANCE. The minimum distance from the back edge of steering wheel, in straight-ahead position, to the Torso Line.

L13 BRAKE PEDAL KNEE CLEARANCE. The minimum dimension from the lower edge of the steering wheel to the brake pedal face centerline.

L14 SEAT BACK THICKNESS - FRONT. The maximum thickness of the seat back, excluding bolsters.

L15 SEAT BACK THICKNESS - REAR. Measured in the same manner as L14.

L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

L18 ENTRANCE FOOT CLEARANCE - FRONT. The minimum horizontal dimension between seat and normal line of door or pillar at a height between the sill plate bead and 4.0 inches above the bead. Door should be in the maximum hold-open position.

L19 ENTRANCE FOOT CLEARANCE - REAR. Measured in the same manner as L18 on four-door models. On two-door styles, the minimum dimension between rear corner of front seat, with front seat back tilted forward, and trimmed lock pillar, built-in quarter armrest panel, or rear seat cushion at a height between the sill plate bead and 4.0 inches above the bead.

L30 BODY 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.

L31 H POINT TO BODY ZERO LINE - FRONT. Horizontal dimension.

L34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the right foot on accelerator pedal.

L40 BACK ANGLE - FRONT. The angle between a vertical line through the H Point and the Torso Line.

L41 BACK ANGLE - REAR. Measured in the same manner as L40.

L42 HIP ANGLE - FRONT. The angle between Torso Line and a line extending from knee pivot center to H Point.

L43 HIP ANGLE - REAR. Measured in the same manner as L42.

L44 KNEE ANGLE - FRONT. The angle between a line from H Point to knee pivot center and a line from the knee pivot center to the ankle pivot center.

L45 KNEE ANGLE - REAR. Measured in the same manner as L44.

L46 FOOT ANGLE - FRONT. The angle between a line extended from the knee pivot center through the ankle pivot center and a line tangent to the sole and heel of manikin bare foot.

L47 FOOT ANGLE - REAR. Measured in the same manner as L46.

L48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the knee pivot center to the back of front seat back.

L49 H POINT TO WINDSHIELD UPPER DLO. The horizontal dimension from H Point to the point of tangency of horizontal line of vision (described in dimension H64) with body upper structure.

DIMENSION DEFINITIONS (cont.)

L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

L51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the foot positioned to nearest interference between seat structure and toe, instep or lower leg.

L52 BRAKE PEDAL TO ACCELERATOR. The minimum dimension from center of brake pedal face to accelerator. Measured in the side view.

L53 H POINT TO ACCELERATOR FLOOR POINT. The horizontal dimension from intersection of accelerator and depressed floor covering to the H Point.

L85 H POINT COUPLE DISTANCE - THIRD SEAT. The horizontal dimension from the second seat H Point to the third seat H Point.

L86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured in the same manner as L51. With rear-facing third seat,foot is positioned in foot well or to nearest interference with rear end or rear closure.

L87 KNEE ROOM - THIRD SEAT. Measured in the same manner as L48. With rear-facing third seat,dimension is measured to rear closure.

L88 BACK ANGLE - THIRD SEAT. Measured in the same manner as L40.

L89 HIP ANGLE - THIRD SEAT. Measured in the same manner as L42.

L90 KNEE ANGLE - THIRD SEAT. Measured in the same manner as L44.

L91 FOOT ANGLE - THIRD SEAT. Measured in the same manner as L46.

L101 WHEELBASE.

L102 TIRE SIZE.

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 theoretical intersection of extended windshield glass plane and normal cowl surface to the theoretical intersection of extended back window glass plane and normal deck surface; or in the case of a Fastback roof or Station Wagon, to back glass lower reveal molding, or rubber when molding is not used.

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

L128 HOOD LENGTH AT CAR CENTERLINE. The horizontal dimension from the foremost point on sheet metal hood surface, excluding series identification or ornamentation, to the theoretical intersection of extended windshield glass plane and normal cowl surface.

L129 DECK LENGTH AT CAR CENTERLINE. The horizontal dimension from the rearmost point of the body sheet metal (visible above bumper), excluding series identification or ornamentation, to the theoretical intersection of extended back window glass plane and normal deck surface.

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

H6 H POINT TO WINDSHIELD BOTTOM DLO. Vertical dimension.

H11 ENTRANCE HEIGHT - FRONT. The vertical dimension from H Point to upper trimmed body opening.

H12 ENTRANCE HEIGHT - REAR. The vertical dimension from H Point to the upper trimmed body opening at a section 13.0 inches forward of the H Point.

H13 STEERING WHEEL THIGH CLEARANCE. The minimum dimension from the bottom of steering wheel, in straight-ahead position, to centerline of thigh.

H18 STEERING COLUMN ANGLE - HORIZONTAL. The angle the centerline of steering column makes with the horizontal.

H25 BELT HEIGHT - FRONT. The vertical dimension from H Point to bottom of side window DLO.

H30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the manikin accelerator heel point on the depressed floor covering.

H31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the manikin heel point on the depressed floor covering.

H32 SEAT CUSHION DEFLECTION - FRONT. The vertical dimension from a point on the undepressed seat cushion to the depressed seat cushion. Measured at the H Point station.

H33 SEAT CUSHION DEFLECTION - REAR. Measured in the same manner as H32.

H37 HEADLINING TO ROOF HEIGHT - FRONT. The dimension from the intersection of the headlining and the extended effective head room line to the roof panel. Measured perpendicularly to the roof panel.

H38 HEADLINING TO ROOF HEIGHT - REAR. Measured in the same manner as H37.

H49 H POINT TO TOP OF STEERING WHEEL. The vertical dimension from the H Point to top of steering wheel, in straight-ahead position.

H50 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.

H51 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.

DIMENSION DEFINITIONS (cont.)

H54 D POINT TO TUNNEL - FRONT. The vertical dimension from the D Point, at car centerline, to top of tunnel.

H55 D POINT TO TUNNEL - REAR. Measured same manner as H54.

H58 H POINT RISE. The vertical dimension between the H Point in the most forward and rearward seat position.

H61 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.

H63 EFFECTIVE HEAD ROOM - REAR. Measured same as H61.

H64 H POINT TO WINDSHIELD UPPER DLO. Vertical dimension from H Point to highest horizontal line of vision through windshield at 15 inch section.

H65 D POINT DIFFERENTIAL, SIDE TO CENTER - FRONT. Vertical dimension from side occupant to center occupant D Point.

H66 D POINT DIFFERENTIAL, SIDE TO CENTER - REAR. Measured in the same manner as H65.

H67 DEPRESSED FLOOR COVERING THICKNESS - FRONT. The vertical dimension from manikin accelerator heel point normally to underbody sheet metal immediately below heel point.

H68 DEPRESSED FLOOR COVERING THICKNESS - REAR. Measured same as H67.

H70 H POINT TO BODY ZERO LINE - FRONT. Vertical dimension.

H71 H POINT TO BODY ZERO LINE - REAR. Vertical dimension.

H86 EFFECTIVE HEAD ROOM - THIRD SEAT. Measured in the same manner as H61.

H87 H POINT TO HEEL POINT - THIRD SEAT. Measured in the same manner as H31.

H88 H POINT TO BODY ZERO LINE - THIRD SEAT. Vertical dimension.

H101 OVERALL HEIGHT. Measured with full design load.

H102 FRONT BUMPER TO GROUND. Minimum dimension

H104 REAR BUMPER TO GROUND. Minimum dimension.

H106 ANGLE OF APPROACH. The angle between the 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 interfering component, excluding license plate.

H107 ANGLE OF DEPARTURE. The angle between the 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 interfering component, excluding license plate.

H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, exluding flanges. Measured at front of rear wheel opening.

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

H114 HOOD AT REAR TO GROUND. Measured from hood opening line on shroud, exclusive of moldings.

H115 STEP HEIGHT - FRONT (DESIGN LOAD). The vertical dimension from top of sill plate bead, at C/L of front door sill plate, to ground.

H116 STEP HEIGHT - REAR (DESIGN LOAD). Measured in same manner as dimension H115.

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.

H130 STEP HEIGHT - FRONT (CURB LOAD). The vertical dimension from top of sill plate, at C/L of front door sill plate, to ground.

H131 STEP HEIGHT - REAR (CURB LOAD). Measured same as H130.

H132 BOTTOM OF DOOR TO GROUND, OPEN - FRONT. Measured from bottom outside corner of door with door in maximum hold-open position.

H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT. Same point on door as H132 dimension, with door closed.

H134 BOTTOM OF DOOR TO GROUND, OPEN - REAR. Measured in same manner as H132.

H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR. Measured in same manner as H133.

H136 BODY ZERO TO GROUND - FRONT. A vertical dimension measured at front wheel centerline.

H137 BODY ZERO TO GROUND - REAR. A vertical dimension measured at rear wheel centerline.

H147 RAMP BREAKOVER ANGLE. 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.

H148 FRONT SUSPENSION TO GROUND. Minimum clearance from lower control arm inner shaft or lowest point on the car centerline.

H149 OIL PAN TO GROUND. Minimum clearance measured from sheet metal or drain plug.

H150 FLYWHEEL/CONVERTER HOUSING AND TRANSMISSION ASSEMBLY TO GROUND. Minimum clearance.

H151 FRAME STRUCTURE TO GROUND. Minimum clearance measured approximately midway between front and rear axles. In this measurement, cross bars and X-members shall be considered part of frame.

H152 EXHAUST SYSTEM TO GROUND. Minimum clearance. Specify location.

H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND. Minimum clearance.

H154 FUEL TANK TO GROUND. Minimum clearance measured from sheet metal or drain plug, but excluding supports or straps.

H155 SPARE TIRE WELL TO GROUND. Minimum clearance.

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

H195 LIFTOVER HEIGHT. Vertical dimension from luggage compartment lower opening to ground.

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