1971
AMA SPECIFICATIONS FORM
. . . Passenger Car

MANUFACTURER	CAR NAME	
Dodge Division Chrysler Corporation	DODGE DART	
MAILING ADDRESS	MODEL YEAR	ISSUED: 7-17-70
Detroit, Michigan 48231	1971	REVISED (•)

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NOTES:

1. The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
   a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
   b. Nominal design dimensions are used throughout these specifications.

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MAKE OF CAR DODGE DART MODEL YEAR 1971 DATE ISSUED 7-21-70 REVISED (e)

BODY MODEL	Body type, number of passengers, and style names; use manufacturer's code for series & body style.

		2-Door Hardtop 23	2-Door Coupe 29	4-Door Sedan 41
No. Of Passengers*		6	5	6
Dart	Six			LL41
	V-8			
Demon	Six		LL29	
	V-8			
Demon 340	V-8		LM29	
Dart Swinger	Six	LH23		
	V-8			
Dart Custom	Six			LH41
	V-8			

* With bucket seats reduce number of passengers by one.

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CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

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

MODEL	SAE Ref. No.	LH23		LL29		LM29	LL, LH41	
		Six	V-8	Six	V-8	V-8	Six	V-8
WIDTH								
Track – Front	W101	57.4		57.5			57.4	
Track – Rear	W102	55.5						
Maximum overall car width	W103	69.7		71.6			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		108			111	
Overall car length	L103	196.2		192.5			196.2	
Overhang – front	L104	35.3						
Overhang – rear	L105	49.9		49.2			49.9	
Body upper structure length	L123	91.2		99.7			92.5	
Body "O" line to ℄ of rear wheel	L127	97.2		94.2			97.2	
Body "O" line to w s cowl point	L130	10.8						
HEIGHT								
Passenger Distribution (front & rear)		2-Frt, 3-Rear		2 Front, 2-Rear			2-Frt, 3-Rear	
Trunk/Cargo load (lbs.)		None						
Overall height	H101	52.6		52.0	52.2	52.6	53.8	53.9
Cowl height	H114	36.6	36.7	36.2	36.4	36.5	36.8	
Deck height	H138	34.9		36.5	36.8	37.6	34.9	
Rocker panel – front: To ground	H112	7.5		7.1	7.2	7.4	7.6	7.7
Rocker panel – front: From front wheel ℄	H112	29.3						
Rocker panel – rear: To ground	H111	6.1		5.4	5.7	6.2	6.4	
Rocker panel – rear: From rear wheel ℄	H111	27.2						
Windshield slope angle	H122	50°30'		54°24'			50°30'	
GROUND CLEARANCE								
Bumper to ground – front	H102	16.6	16.7	16.5		16.3	16.6	16.8
Bumper to ground – rear	H104	10.9		10.0	10.4	11.4		11.3
Angle of approach deg	H106	25.9	26.1	25.4	25.7	25.3	25.9	26.1
Angle of departure deg	H107	14.7		12.6	13.1	14.4	15.4	15.3
Ramp breakover angle deg	H147	10.6	10.8	10.0	10.2	10.9	11.0	11.2
Min. running clearance (Specify) (a)	H156	4.9	5.2	4.3	4.8	5.3	5.2	5.5

(a) Exhaust system to ground

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CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	23		29		41	
		6-Cyl	V-8	6-Cyl	V-8	6-Cyl	V-8
FRONT COMPARTMENT							
Effective head room	H61	37.3		37.2		38.3	
Max. eff. leg room – accelerator	L34	41.6					
H Point to Heel point	H30	8.4		8.9		8.4	
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		47.8	48.8	49.9	
REAR COMPARTMENT							
H Point couple distance	L50	29.5		27.5		33.3	
Effective head room	H63	36.7		36.5		37.3	
Min. effective leg room	L51	31.7		29.6		35.8	
H Point to Heel point	H31	10.3				11.1	
Min. knee room	L48	0.5		-1.2		3.3	
Rear Compartment room	L 3	23.9		22.4		27.2	
Shoulder room	W 4	55.2		55.1		55.5	
Hip room	W 6	56.9				57.2	
Upper body opening to ground	H51	--				49.5	
LUGGAGE COMPARTMENT							
Usable luggage capacity cu. ft.	V 1			15.9		14.0	
Liftover height	H195	26.9	26.8	29.1	29.5 (a)	27.3	27.2
Position of spare tire storage		Wheel well					
Method of holding lid open		Torsion bar					
STATION WAGON – THIRD SEAT							
Shoulder Room	W85						
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						
Cargo length at belt – front seat	L204						
Cargo width – Wheelhouse	W201						
Opening width at belt	W204						
Maximum cargo height	H201						
Rear opening height	H202						
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2						

(a) Demon 340: 30.4

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POWER TEAMS

(Indicate whether standard or optional)

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

MODEL AVAILABILITY		ENGINE					TRANSMISSION		AXLE RATIO (Std. first) (Indicate A/C ratio) (a)
		Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM			
6-Cyl	Std L, H	198	1, 1-V	8.4	125 @ 4400	180 @ 2000	Manual 3-Speed		3.23, 3.55*
							Automatic		2.76, 3.23, 3.55*
	Opt L, H	225			145 @ 4000	215 @ 2400	Manual 3-Speed		3.23, 3.55*
							Automatic		2.76, 3.23, 3.55*
V-8	Std L, H	318	1, 2-V	8.6	230 @ 4400	320 @ 2000	Manual 3-Speed		3.23, 3.55*, 3.91*
							Automatic		2.76*, 3.23, 3.55*, 3.91*
	Std M	340	1, 4-V	10.2	275 @ 5000	340 @ 3200	Manual	3-Speed	3.23, 3.55*, 3.91*
								4-Speed	
							Automatic		3.23, 3.55*, 3.91*

(a) SURE-GRIP available on all ratios except as noted. Axle ratios do not change when A/C is installed.

* SURE-GRIP NA

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ENGINE – GENERAL

MODEL		198 CID	225 CID	318 CID	340 CID
Type, no. cyls., valve arr.		Six, in-line, OHV		90°V-8, OHV	
Bore and stroke (nominal)		3.4 x 3.64	3.4 x 4.12	3.91 x 3.31	4.04 x 3.31
Piston displacement, cu. in.		198	225	318	340
Bore spacing (℄ to ℄)		3.98(1-2, 3-4, 5-6); 4.0(2-3, 4-5)		4.46	
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)		8.4:1		8.8:1	10.5:1
Cylinder Head Combustion Chamber Volume (cc)		58.5		66.3	71.2
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°06' inclined rear to front: 2°30' to 3°			
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		27.7		48.9	52.2
Recommended fuel regular – premium		Regular			Premium

ENGINE – PISTONS

Material			Aluminum alloy		
Description and finish			Closed slipper-type, steel strut, elliptically turned, tin-plated		Open slipper type
Weight (piston only) oz.			16.4	20.9	25.4
Clearance (limits)	Top land		0.024 min.	0.018 min.	0.020 min.
	Skirt	Top	0.0005 to 0.0015		0.0010 to 0.0020
		Bottom	-0.0005 to 0.0015		0.0000 to 0.0020
Ring groove diameter	No. 1 ring		3.014	3.476	3.597
	No. 2 ring		3.014	3.476	3.597
	No. 3 ring		3.010	3.503	3.620
	No. 4 ring		--		

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ENGINE – RINGS

MODEL			198 CID	225 CID	318 CID	340 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	Cast iron, twist and radius faced, tin-plated			(a)
		#2	Cast iron, reverse twist and taper, lubrite-coated			
	Width		0.078			
	Gap		0.010 to 0.020			0.013 to 0.023
Oil	Description - material, coating, etc.		3-piece abutment-type, stainless steel spacer-expanded with chrome-plated segments			
	Width		0.188			
	Gap		Not applicable			
Expanders			See above			

ENGINE – PISTON PINS

Material			Carbon steel-carburizing grade		
Length			2.965	2.995	
Diameter			0.9008	0.9842	
Type	Locked in rod, in piston, floating, etc.		Press-fit in rod	Floating	
	Bushing	In rod or piston	None	Rod	
		Material	--	Bronze on steel	
Clearance	In piston		0.00045 to 0.00075	0.0000 to 0.0005	
	In rod		0.00045 to 0.0014 interference	0.0001 to 0.0006	
Direction & amount offset in piston			Right 0.06		

ENGINE – CONNECTING RODS

Material			Drop-forged steel		
Weight (oz.)			26.8	25.6	26.7
Length (center to center)			6.699	6.123	
Bearing	Material & Type		Lead-base babbitt on steel	Bi-metal grid	Tri-metal
	Overall length		0.985	0.843	
	Clearance (limits)		0.0005 to 0.0025		0.0005 to 0.0030
	End play		0.006 to 0.012	0.006 to 0.014 (2 rods)	

(a) Cast iron, twist and barrel-lap face, moly-filled

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ENGINE – CRANKSHAFT

MODEL			198 CID	225 CID	318 CID	340 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			0.002 to .007			
Main bearing	Material & type		Lead-base babbitt on steel, removable, precision			(a)
	Clearance		0.0005 to 0.0025 specified; 0.0005 to 0.0015 desired			
	Journal dia. and bearing overall length	No. 1	2.75 x 1.034		2.5 x 0.872	
		No. 2	2.75 x 1.034		2.5 x 0.872	
		No. 3	2.75 x 1.254		2.5 x 1.151	
		No. 4	2.75 x 1.034		2.5 x 0.872	
		No. 5	--		2.5 x 1.562	
		No. 6	--			
		No. 7	--			
	Dir. & amt. cyl. offset		None			
	No. bolts/main brg. cap		Two			
Crankpin journal diameter			2.187		2.125	

ENGINE – CAMSHAFT

Location			Right		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			Double-roller chain
	Crankshaft gear or sprocket material		Sintered iron (Super oilite)			Steel
	Camshaft gear or sprocket material		Nylon-coated aluminum			Cast iron
	Timing chain	No. of links	50		68	
		Width	0.88	0.63		0.87
		Pitch	0.50		0.375	

(a) Aluminum alloy on steel, removable, precision, except No. 5 lead-base babbitt on steel

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MODEL			198 CID	225 CID	318 CID	340 CID
ENGINE – VALVE SYSTEM						
Hydraulic lifters (Std., opt., NA)			NA		STD	
Valve rotator, type (intake, exhaust)			Low-friction lock on exhaust			
Rocker ratio			1.5:1			
Operating tappet clearance (indicate hot or cold)	Intake		0.010 Hot		Hydraulic	
	Exhaust		0.020 Hot		Hydraulic	
Timing (based on top of ramp points)	Intake	Opens (BTC)	16		10	22
		Closes (ABC)	48		50	66
		Duration - deg.	244		240	268
	Exhaust	Opens (BBC)	54		52	74
		Closes ('ATC)	10		16	22
		Duration - deg.	244		248	276
	Valve opening overlap		26			44
Intake	Material		SAE 1041			Silchrome XB
	Overall length		4.77		4.97	4.99
	Actual overall head dia.		1.62		1.78	2.02
	Angle of seat & face deg		Seat: 44.5 to 45; Valve: 45 to 45.5			
	Seat insert material		None			
	Stem diameter		0.372 to 0.373			0.3715 to 0.373
	Stem to guide clearance		0.001 to 0.003			0.0015 to 0.035
	Lift (zero lash)		0.406		0.372	0.430
	Outer spring press. & length	Valve closed (lb. in.)	63 @ 1.65		92 @ 1.65	96 @ 1.65
		Valve open (lb. in.)	156 @ 1.26		189 @ 1.28	242 @ 1.21
	Inner spring press. & length	Valve closed (lb. in.)	None			Surge damper
		Valve open (lb. in.)	None			Surge damper
Exhaust	Material		21-2			21-4N
	Overall length		4.80		5.00	
	Actual overall head dia.		1.36		1.50	1.60
	Angle of seat & face deg		Seat: 44.5 to 45.0; Valve: 47.0 to 47.5			
	Seat insert material		None			
	Stem diameter		0.371 to 0.372			0.3705 to 0.3715
	Stem to guide clearance		0.002 to 0.004			0.0025 to 0.0045
	Lift (zero lash)		0.414		0.400	0.445
	Outer spring press. & length	Valve closed (lb. in.)	63 @ 1.65		92 @ 1.65	96 @ 1.65
		Valve open (lb. in.)	156 @ 1.26		189 @ 1.25	244 @ 1.20
	Inner spring press. & length	Valve closed (lb. in.)	None			Surge damper
		Valve open (lb. in.)	None			Surge damper

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ENGINE – LUBRICATION SYSTEM

MODEL		198 CID, 225 CID	318 CID	340 CID
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		
Oil pump type		Rotary		
Normal oil pressure (lb. - engine rpm)		45 to 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		
Capacity of c case, less filter-refill (qt.)		4		
Oil grade recommended (SAE viscosity and temperature range)		Consistently above +32 .. SAE 10W-30, SAE 20W-10, SAE 10W-40, SAE 20W-50, SAE 30 Occasionally as low as -10F ... SAE 10W-30, SAE 10W-40 Range between +32F and -10F ... SAE 10W, SAE 10W-30, SAE 10W-40 Consistently below +10F ... SAE 5W-20, SAE 5W-30		
Engine Service Reqmt.		MS or SD		

ENGINE – EXHAUST SYSTEM

		Single	Single with crossover	Dual
Type (single, single with cross-over, dual, other)				
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 0.067	--
	Main	1.88 x 0.067	2.00 x 0.067	2.25 x 0.075
Tail pipe dia. (O.D. & wall thickness)		1.75 x 0.043	1.88 x 0.043	2.25 x 0.043 (a)

(a) 2.00 O.D. rearward of kickup over rear axle

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ENGINE – FUEL SYSTEM

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

MODEL			198 CID	225 CID	318 CID	340 CID
Induction type: Carburetor, fuel injection, supercharger			Carburetor			
Fuel Tank	Refill capacity (U.S. gals.)		17			
	Filler location		Outside left rear fender			
Fuel Pump	Type (elec. or mech.)		Mechanical			
	Locations		Right center		Right front	
	Pressure range		3.5 to 5		5 to 7	
Vacuum booster (std., optional, none)			None			
Fuel Filter	Type		Fuel tank: Plastic; Fuel line: paper			
	Locations		One in fuel tank, one in supply line			
Carburetor	Choke type		Automatic separate			
	Intake manifold heat control (exhaust or water)		Exhaust			
	Air cleaner type	Standard	Paper element			
		Optional	--			
	Idle speed (spec. neutral or drive)	Manual	800	750		900
		Automatic	800	750	700	900
	Neutral	Idle A/F mix.	14.0 to 14.4			

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
Six	198	Manual	Carter	BBS-4955S	1, 1-V	1.69
		Automatic		BBS-4956S		
	225	Manual	Holley	RR-4655A		
		Automatic		RR-4656A		
V-8	318	Manual	Carter	BBD-4957S	1, 2-V	1.44
		Automatic		BBD-4958S		
			Rochester	7041180		
	340	Manual	Carter	TQ-4972S	1, 4-V	P: 1.38
		Automatic		TQ-4973S		S: 2.25

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ENGINE – COOLING SYSTEM

MODEL			198 CID	225 CID	318 CID	340 CID
Type system (pressure, pressure vented, atmospheric, other)			Pressure vented			
Radiator cap relief valve pressure			16			
Circulation thermostat	Type (choke, bypass)		Choke, pellet			
	Starts to open at (°F)		185°			
Water pump	Type (centrifugal, other)		Centrifugal			
	GPM 1000 pump rpm		--			
	Number of pumps		One			
	Drive (V-belt, other)		V-belt			
	Bearing type		Ball, integral shaft, permanently sealed			
By-pass recirculation type (inter., ext.)			External			
Radiator core type (cellular, tube and fin, other)			Tube and spacer			
Cooling system capacity	With heater (qt.)		13		16	15
	Without heater (qt.)		12		15	14
	Opt. equipment-specify (qt.) A/C		--	13	16.5	15
Water jackets full length of cyl. (yes, no)			No		Yes	
Water all around cylinder (yes, no)			Yes			
Radiator hose	Lower	Number and type (molded, straight)	One, molded			
		Inside diameter	1.50		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	
		Inside diameter	0.68		0.80	
Fan	Number of blades & spacing		4		7	7
	Diameter		17		18	18
	Ratio-fan to crankshaft rev.		1.07:1		0.95:1	
	Fan cutout type		Solid			Torque
	Bearing type		Ball, integral shaft, permanently sealed			
*Drive belts (indicate belt used by letter)	Fan		A		D	
	Generator or alternator		A		D	
	Water Pump		A		D	
	Power Steering		B		E	
	Air Conditioning		--	C	F	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V Degrees	36	36	36	36	36	36					
Nominal length (SAE)	57.0	40.0	53.0	47.5	38.0	54.26					
Width	0.38	0.38	0.50	0.38	0.38	0.38					

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MODEL | All Engines

VEHICLE EMISSION CONTROL

Exhaust Emission Control	Type (Air injection, engine modifications, other)			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)		"
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Standard	Induction system
			Optional	--
	Control Unit	Make and model		3577098
		Location		Cylinder head cover outlet
		Energy source (manifold vacuum, carburetor, other)		Manifold vacuum
		Control method (variable orifice, fixed orifice, other)		Variable orifice
	Complete system	Discharges (to intake manifold, other)		Intake manifold, at or below base of carburetor
		Air inlet (breather cap, other)		(a)
		Flame arrestor (screen, other)		Check valve
Evaporative Emission Control	Fuel Tank	Refill Capacity (U.S. gallons)		17
		Thermal expansion volume		1.4 gallon
		Pressure relief location (lbs.)		Filler cap: 0.5 to 1 psi
		Vacuum relief location (lbs.)		Filler cap: 7 to 14 inches of water
		Vapor-liquid separator type		2" diameter vapor separator extending from floor pan level to rear deck level
		Vapor vented to (crankcase, cannister, other)		Crankcase
	Carburetor	Vapor vented to (crankcase, cannister, other)		Crankcase
	Vapor Storage	Storage provision (crankcase, cannister, other)		Crankcase
		Volume (cu. ft.) or capacity (grams)		198, 225, 318 CID: 1.5 cu ft; 340 CID: 1.6 cu ft
		Control valve type		Crankcase PCV Valve

(a) Tube from carburetor air cleaner housing to crankcase air filter

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MAKE OF CAR DODGE DART MODEL YEAR 1971 DATE ISSUED 7-17-70 REVISED (*)

ELECTRICAL – SUPPLY SYSTEM

			198 CID	225 CID	318 CID	340 CID 1,4-V
MODEL						
Battery	Make and Model		2875951			
	Voltage Rtg. & Total Plates		12, 54			
	SAE Designation & Amp. Hr. Rtg.		40 amp hr			
	Location		Left front fender shield			
	Terminal grounded		Negative			
Alternator	Make		Chrysler			
	Model		3438389		3438172	
	Type and rating		34 amp		37 amp	
	Output at engine idle (neutral)		--			
	Retro-Gen. to Cr's rev.		2.70:1		2.55:1	
Regulator	Make		Chrysler			
	Model		3438150			
	Type		Voltage control			
	Cutout relay	Closing voltage generator rpm	--			
		Reverse current to open	--			
	Regulated	Voltage	13.8 to 14.4 @ 80°F ambient			
		Current	--			
	Voltage test conditions	Temperature	[illegible]			
		Load	[illegible] amp			
		Other	--			

ELECTRICAL – STARTING SYSTEM

				198 CID	225 CID	318 CID	340 CID 1,4-V
Starting Motor	Make			Chrysler			
	Model			2875560			
	Rotation (drive end view)			Clockwise			
Motor control	Switch (solenoid, manual)			Solenoid			
	Starting procedure			(a)			
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	0.340			
			Auto.	0.340			

(a) With transmission in "neutral" or "Park", depress accelerator pedal to floor and release. If car is equipped with manual transmission, the clutch pedal must be held to the floor while starting engine. Turn ignition key to start position and release when engine starts. When engine is running smoothly, tap accelerator pedal to reduce fast idle speed.

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MODEL

ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR

		198 CID	225 CID	318 CID	340 CID
Breaker gap (in.)		0.017 to 0.023		0.014 to 0.019	
Cam angle (deg.)		41 to 46		30 to 34 (a)	
Breaker arm tension		17 to 20 oz (b)			
Distributor	Manual	3438509	2875822	3438255	3438522
		3438524	3438440	3438453	
	Automatic	3438509	2875826	3438225	3438517
		3438524	3438442	3438453	
Timing (c)	Manual	2-1/2° BTC	TDC	TDC	5° BTC
			2-1/2° TDC		
	Automatic	2-1/2° BTC	TDC	TDC	5° BTC
			2-1/2° TDC		

(a) 340 CID manual transmission: One set of points 27 to 32; both sets 37 to 42
(b) 340 CID manual transmission: 17 to 21.5
(c) Transmission in neutral, crankshaft degrees @ engine idle rpm (See page 10) Distributor solenoid disengaged.

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
2875822	2 to 10 @ 1100	18.4 to 22.4 @ 1800	24 to 28 @ 4000	1 to 7 @ 10	10.5 to 15.25 @ 15
2875826	2 to 10 @ 1100	18.4 to 22.4 @ 1800	24 to 28 @ 4000	1 to 7 @ 7	10.5 to 15.25 @ 10
3438225	2 to 12 @ 1100	17 to 21 @ 1600	28 to 32 @ 4200	1.5 to 4.5 @ 12	8.5 to 21.5 @ 15
3438255	2 to 6 @ 1100	17 to 21 @ 1600	28 to 32 @ 4200	2 to 8 @ 10.5	16.5 to 21.5 @ 15
3438509	2 to 13 @ 1100	16 to 20 @ 1500	24 to 28 @ 4000	1 to 6 @ 7	12 to 17 @ 11
3438517	1 to 8 @ 1200	19 to 24 @ 2000	20 to 24 @ 4200	1 to 7 @ 9	14 to 20 @ 12.5
3438522	1 to 8 @ 1300	11 to 17 @ 1700	20 to 24 @ 4000	1 to 7 @ 7	14 to 20 @ 11
California Only					
3438440	1 to 7 @ 1600	16 to 21 @ 2400	24 to 28 @ 4400	1 to 7 @ 10	10.5 to 15.25 @ 15
3438442	1 to 7 @ 1600	16 to 21 @ 2400	24 to 28 @ 4400	1 to 7 @ 7	10.5 to 15.25 @ 10
3438453	0 to 8 @ 1200	16 to 21 @ 2000	28 to 32 @ 4200	2 to 8 @ 9.5	16 to 21 @ 15
3438524	4 to 12 @ 1400	17 to 21 @ 1800	24 to 28 @ 4000	1 to 7 @ 7	10.5 to 15.25 @ 10

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MODEL	198 CID	225 CID	318 CID	340 CID

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Std			
	Transistorized – Std., Opt., N.A.		NA			
	Other (specify)		--			
Coil	Make		Chrysler-Essex	or	Chrysler-Prestolite	
	Model		2444241		2444242	
	Amps	Engine stopped	3.0			
		Engine idling	1.9			
Spark Plug	Make		Champion (a)			Champion
	Model		N-14Y (a)			N9Y
	Thread (mm)		14 mm			
	Tightening torque (lb. ft.)		30 to 32			
	Gap		0.035			
Cable	Conductor type		Resistor			
	Insulation type		Synthetic rubber with Neoprene jacket (b)			
	Spark plug protector		Hypalon		Silicon	

ELECTRICAL – SUPPRESSION

Locations & type	Resistance type spark plug and coil cables

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	In-line drive pointer
	Trip odometer (std. opt., N.A.)	Standard with rallye cluster
Charge indicator – type		Ammeter
Temperature indicator – type		Electric Thermal
Oil pressure indicator – type		Lights (c)
Fuel indicator – type		Electric Thermal
Windshield wiper	Type – Standard	Electric, two-speed
	Type – Optional	Electric, variable speed
Windshield washer	Type – Standard	Foot operated pump
	Type – Optional	Electric
Horn	Type	Four-inch sea shells
	Number used	Two (d)
	Amp draw (each)	4-6 amp
Other		Brake system and parking brake warning light

(a) Also Mopar P-6-6P
(b) 318, 340 CID: Synthetic rubber with Hypalon jacket
(c) Electric thermal gage: Demon "340"
(d) L price class: one horn standard; two horns optional

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MODEL	198 CID 225 CID	318 CID	340 CID

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Auburn; Borg and Beck	Borg and Beck	
Type pressure plate springs		Coil		
Total spring load (lb.)		1375	1693	2181
No. of clutch driven discs		One		
Clutch facing	Material	Woven asbestos		
	Outside & inside dia.	9.25 x 6.00	10.5 x 6.5	
	Total eff. area (sq.in.)	77	106.8	
	Thickness	0.114	0.125	
	Engagement cushioning method	Two-piece cushion	Flat-wave springs	
Release bearing	Type & method of lubrication	Ball bearing, permanently lubricated		
Torsional damping	Methods: springs, friction material	Coil springs and friction washers		

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std., opt. N.A.)	Std	
Manual 4-speed (std., opt. N.A.)	NA	Opt
Automatic (std., opt. N.A.)	Opt	

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3			4
		W/198, 225 CID	With 318 CID	With 340 CID	
Transmission ratios	In first	2.95	3.08	2.55	2.47
	In second	1.83	1.70	1.49	1.77
	In third	1.00			1.34
	In fourth	--			1.00
	In reverse	3.80	2.90	3.34	2.40
Synchronous meshing, specify gears		2,3	1,2,3		1,2,3,4
Shift lever location		3-Speed: Steering column or floor 4-Speed: Floor			
Lubricant	Capacity (pt.)	6.5	4.75		7.0
	Type recommended	DEXRON automatic transmission fluid			
	SAE viscosity number: Summer	NA			
	SAE viscosity number: Winter	NA			
	SAE viscosity number: Extreme cold	NA			

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MAKE OF CAR DODGE DART MODEL YEAR 1971 DATE ISSUED 7-23-70 REVISED (a)

DRIVE UNITS – AUTOMATIC TRANSMISSION

MODEL	198 CID 225 CID	318 CID	340 CID
Trade name	TorqueFlite		
Type describe	Torque converter with automatically-operated planetary gear transmission		
Selector location	Lever: Steering column or console mounted		
List gear ratios Selector Pattern and indicate which are used in each selector position	Reverse: 2.20 Drive : 2.45, 1.45, 1.00 2 : 2.45, 1.45 1 : 2.45		
Max. upshift speed–drive range	82	85	72
Max. kickdown speed–drive range	74	77	65
Torque convertor – Number of elements	Three		
Torque convertor – Max. ratio at stall	2.16:1		
Torque convertor – Type of cooling (air, liquid)	Liquid		
Torque convertor – Nominal diameter	10.75		
Lubricant – Capacity–refill (pt.)	17.0		16.3
Lubricant – Type recommended	DEXRON automatic transmission fluid		
Special transmission features	Part-throttle kickdown (3-2)		

DRIVE UNITS – PROPELLER SHAFT

Number used		One		
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube		
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.00 x 54 x 0.065 (b)	3.00 x 52 x 0.065	
	Manual 4-speed trans.	--		2.75 x 49 x 0.065
	Overdrive transmission	NA		
(a)	Automatic transmission	3.00 x 54 x 0.065		3.25 x 48 x 0.065

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

(Continued)

(a) All lengths to nearest inch

(b) Internal vibration absorber

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MODEL	198 CID	225 CID	318 CID	340 CID

DRIVE UNITS – PROPELLER SHAFT (cont.)

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

DRIVE UNITS – AXLE

Type (front, rear)			Rear	
Description	Carrier Housing		Unitized	Separable
	Ring Gear		7-1/4 O.D.	8-3/4 O.D.
Limited Slip differential, type			Friction bias	
Drive Pinion Offset			1.625	1.50
No. of differential pinions			2	
Pinion adjustment (shim, other)			Washer	
Pinion bearing adj. (shim, other)			Solid spacer	Shim pack
Wheel bearing type			Ball	Tapered roller
Lubricant	Capacity (pt.)		2	4-1/2
	Type recommended		MIL-L-2105-B 2933565	
	SAE viscosity number	Summer	Above -10°F..... SAE 90	
		Winter	Between -10°F and -20°F ... SAE 80	
		Extreme cold	Below -30°F..... SAE 75	

AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

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

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MODEL	198 CID, 225 CID		318 CID	340 CID
	L-29	L-41; H-23,41	L-29,41;H-23,41	M-29

DRIVE UNITS – WHEELS

Type & material			Disc, steel	
Rim (size & flange type)	Std.		14 x 4.5 J	14 x 5.5 JJ
	Opt.		14 x 5.5 JJ (a)	--
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, Load Range		6.45 x 14 2B	6.95 x 14 2B	E70 x 14 2B/2
	Type (bias, radial, etc.)		Bias		Bias W/Belt
	Full rated Inflation Press.	Front	32		28
		Rear	32		28
	Rev./Mile at 50 MPH				798
Optional	Size, Ply, Load Range		6.95 x 14 2B D78 x 14 2B/2 E70 x 14 2B/2	D78 x 14 2B/2 E70 x 14 2B/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) Rallye wheel with D78 x 14 or E70 x 14 tire

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MODEL

BRAKES – SERVICE

			Drum Brakes		Disc Brakes
			6-Cyl	V-8	
Type (drum) or (disc & no. of pistons)			Drum		Disc, 4
Self adjusting (std., opt., N.A.)			Std		
Special Valving	Type (proportion, delay, metering, other)		--		Proportioning; Rear Residual Pressure
Power brake make & type (remote, int., etc.)		Std.	--		Tandem
		Opt.	Integral		--
Effective area (sq. in.) *			153.4	156.2	102.3
Gross lining area (sq. in.) **			153.4	156.2	102.3
Swept area (sq. in.) ***			254.5	251.4	314.8
Front to Rear Effectiveness Relationship			Front: 60 Rear: 40		
Drum	Diameter (nominal)	Front	9	10	--
		Rear	9	10	
	Type and material		Centrifuse or cast composite		Cast Iron
Rotor	Outer working diameter		--		10.79
	Inner working diameter		--		7.16
	Working width		--		1.81
	Material & type (vented/solid)		--		Vented
Wheel cylinder bore	Front		1.00	1.187	1.625
	Rear		0.8125	0.9375	
Master Cylinder	Bore		1.03		
	Stroke		1.00		
Pedal arc ratio			Manual: 6.7 Power: 3.75		
Line pressure at 10, lb. pedal load			800		
Shoe Clearance	Front		No major adjustment required		
	Rear		"		
Anti-skid device type (std., opt., N.A.)			NA		
Brake lining	Bonded or riveted		Bonded		
	Front Wheel	Material	Molded Asbestos		
		Size (length x width x thickness) Prim. or outboard	7.66 x 2.25 x 0.19	8.46 x 2.25 x 0.19	4.82 x 1.84 x 0.4
		Size (length x width x thickness) 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	
		Size (length x width x thickness) Second. or inboard	9.82 x 2.00 x 0.24	11.06 x 1.75 x 0.24	
		Segments per shoe	One		

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

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

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STEERING

MODEL					6-Cyl	V-8
Manual (std., opt., NA)					Std	
Power (std., opt., NA)					Opt	
Adjustable steering wheel (tilt, swing, other)			Type and description		--	
			(std., opt., NA)		NA	
Wheel diameter			Manual		16.0	
			Power		16.0	
Turning diameter (feet)	Outside front		Wall to wall (l. & r.)		40.4	
			Curb to curb (l. & r.)		37.7	
	Inside rear		Wall to wall (l. & r.)		21.6	
			Curb to curb (l. & r.)		22.2	
Manual	Gear		Type		Recirculating Ball	
			Make		Chrysler	
		Ratios		Gear	24.0:1	
				Overall	28.7:1	
	No. wheel turns (stop to stop)				5.3	
Power	Type (coaxial, linkage, etc.)				Integral	
	Make				Chrysler	
	Gear		Type		Recirculating Ball	
		Ratios		Gear	15.7:1	
				Overall	18.8:1	
	Pump driven by				Belt from crankshaft pulley	
	No. wheel turns (stop to stop)				3.5	
Linkage	Type				Parallelogram, trailing, equal length tie rods	
	Location (front or rear of wheels, other)				Rear	
	Drag link (trans. or longit.)				Transverse center link	
	Tie rods (one or two)				Two	
Steering Axis	Inclination at camber (deg.)				7.5 @ 0	
	Bearings (type)		Upper		Ball joint	
			Lower		Ball joint	
			Thrust		Oil impregnated sintered metal	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)				Manual steering: -1/2 ±1/2 Power Steering: +3/4 ±1/2	
	Camber (deg.)				Left: +1/2 ±1/4 Right: +1/4 ±1/4	
	Toe-in (outside track inches)				1/8" ± 1/32"	
Steering spindle & joint type					Ball joint	
Wheel Spindle	Diameter		Inner bearing		Drum 1.0619 Disc 1.2494	1.2494
			Outer bearing		Drum 0.6869 Disc 0.7494	0.7494
	Thread size				Drum 11/16-24 NEF-3A (a)	3/4-16 UNF-3A
	Bearing type				Roller	

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

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MODEL	198 CID 225 CID	318 CID	340 CID

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

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

SUSPENSION – FRONT

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 0.83	35.8 x 0.85	35.8 x 0.87
	Spring rate (lb. per in.)	NA		
	Rate at wheel (lb. per in.)	85	92	100
Stabilizer	Type (link, linkless, frameless) Link	Opt		Std
	Material & bar diameter	0.88		

SUSPENSION – REAR

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
	Rate at wheel (lb. per in.)	105		132
	Mounting insulation type	Rubber		
	If leaf — No. of leaves	5		6
	If leaf — Shackle (comp. or tens.)	Compression		
Stabilizer	Type (link, linkless, frameless)	None		
	Material	--		
Track bar type		None		

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MODEL	23	29	41

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 of instrument panel		
Engine No. location		NA		
Theft protection - type		Pin tumbler key locks on ignition switch, doors, luggage compartment, lockable steering & transmission shift		
Vent window control method (crank, friction pivot)	Front	Friction pivot	None	Friction pivot
	Rear	None		
Seat cushion type	Front	Formed wire		
	Rear	Formed wire		
	3rd seat	--		
Seat back type	Front	Formed wire		
	Rear	Formed wire		
	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		1023	1034	1117
Side glass exposed surface area		1280	1325	1348
Backlight glass exposed surface area		874	1025	875
Total glass exposed surface area		3177	3384	3340

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CONVENIENCE EQUIPMENT

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

		23	29	41
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)		Std		
Radios (specify type as well as availability)		Opt: AM; AM with stereo tape		
Rear seat speaker		Opt		
Power antenna		NA		
Clock		NA		
Air conditioner (specify type and availability)		Opt: Front unit with heater (NA - 198 CID)		
Speed warning device		NA		
Speed control device		NA		
Ignition lock lamp		Opt		
Dome lamp		Std		
Glove compartment lamp		Opt		
Luggage compartment lamp		Opt		
Underhood lamp		Opt: dealer-installed		
Courtesy lamp		Opt		
Map lamp		Opt		
Auto. trans. quad. lamp		Std with automatic transmission		
Cornering light lamp		NA		
Shoulder belts		Std: front seat; Opt: rear seat		
Tachometer		Opt; Demon 340		
Rear window defogger		Opt		
Headlamp "ON" warning buzzer		Opt		

LAMP HEIGHT AND SPACING

			23	29	41
Height above ground to center of bulb or marker	Headlamp	Highest *	26.6	26.5	26.7
		Lowest	--		
	Tail	Highest	21.6	24.2	22.0
		Lowest	--		
	Sidemarker	Front	19.4	19.2	19.5
		Rear	20.6	17.6	21.0
Distance from C.L. of car to center of bulb	Headlamp	Inside	--		
		Outside *	28.17		
	Tail	Inside	--		
		Outside	24.2	23.5	24.2
	Directional	Front	19.4		
		Rear	24.2		

* If single headlamps are used enter here.

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ESTIMATED
VEHICLE WEIGHTS

	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
6 Cylinder Models	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
Model Demon									
2-Door Coupe	1605	1325	2930	48.9	51.1	23.4	76.6	102	29
Dart									
4-Door Sedan	1640	1345	2985	50.3	49.7	20.3	79.7	102	29
Dart Swinger									
2-Door Hardtop	1640	1345	2985	50.3	49.7	23.7	76.3	102	29
Dart Custom									
4-Door Sedan	1635	1350	2985	50.3	49.7	20.3	79.7	102	29
V-8 Models									
Demon									
2-Door Coupe	1660	1360	3020	48.9	51.1	23.4	76.6	102	34
Dart									
4-Door Sedan	1700	1370	3070	50.3	49.7	20.3	79.7	102	34
Demon 340									
2-Door Coupe	1780	1470	3250	48.9	51.1	23.4	76.6	102	34
Dart Swinger									
2-Door Hardtop	1700	1370	3070	50.3	49.7	23.7	76.3	102	34
Dart Custom									
4-Door Sedan	1690	1380	3070	50.3	49.7	20.3	79.7	102	34

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

Note: All curb weights include automatic transmission

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MAKE OF CAR DODGE DART MODEL YEAR 1971 DATE ISSUED 7-24-70 REVISED (*)

ESTIMATED
OPTIONAL EQUIPMENT WEIGHTS

Equipment Differential Weights	WEIGHT POUNDS Front	Rear	Total	Remarks
Air Conditioning	97	-1	96	225 CID engine
Air Conditioning	119	-4	115	318/340 CID engine
225 CID Engine	5	0	5	
3 Spd Man Trans	-21	-1	22	198 & 225 CID engine
3 Spd Man Trans	17	46	63	318 CID engine
3 Spd Man Trans	2	3	5	340 CID engine
4 Spd Man Trans	22	3	25	340 CID engine
Power Steering	42	-1	41	
Power Brakes	10	1	11	
Radio	5	2	7	
Console	13	9	22	
Undercoat	13	9	22	

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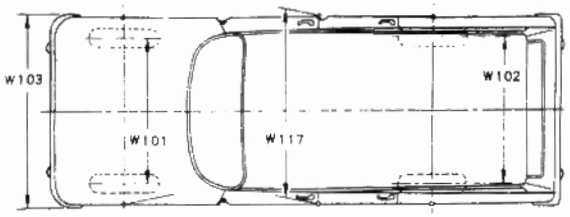
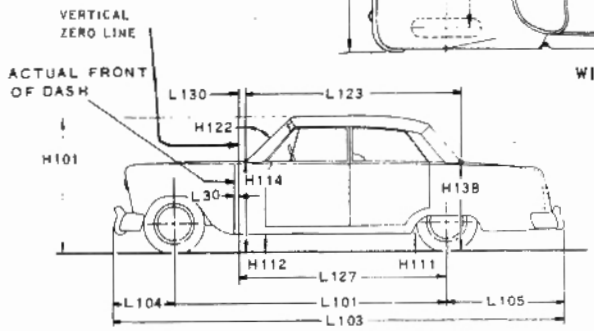
CAR AND BODY DIMENSIONS

KEY SHEET

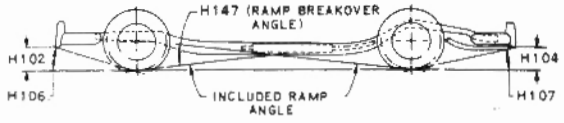
EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

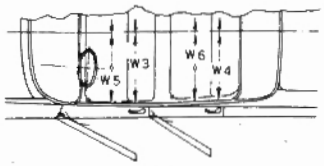


LENGTH & HEIGHT



GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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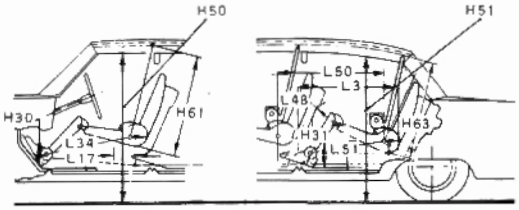
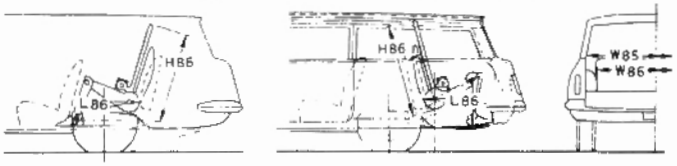
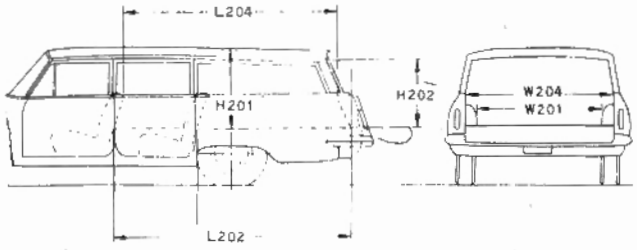


FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

AMA Specifications Form—Passenger Car

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 graph-colly for reporting purposes.

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

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

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

FRONT COMPARTMENT DIMENSIONS

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

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

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

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

FRONT COMPARTMENT DIMENSIONS (Cont.)

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

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

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

REAR COMPARTMENT DIMENSIONS

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

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

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

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

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

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

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

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

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

LUGGAGE COMPARTMENT DIMENSIONS

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

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

STATION WAGON – THIRD SEAT DIMENSIONS

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

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

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

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

STATION WAGON – CARGO SPACE DIMENSIONS

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

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

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

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

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

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

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

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

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