

AMA specifications form - passenger car; Dodge Dart. 1969. Revised 1969.

<https://hdl.handle.net/2027/mdp.39015071674868>



Public Domain in the United States

http://www.hathitrust.org/access_use#pd-us

We have determined this work to be in the public domain in the United States of America. It may not be in the public domain in other countries. Copies are provided as a preservation service. Particularly outside of the United States, persons receiving copies should make appropriate efforts to determine the copyright status of the work in their country and use the work accordingly. It is possible that current copyright holders, heirs or the estate of the authors of individual portions of the work, such as illustrations or photographs, assert copyrights over these portions. Depending on the nature of subsequent use that is made, additional rights may need to be obtained independently of anything we can address.

AMA Specifications—Passenger Car

14081

A03

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

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

NOTES:

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

TABLE OF CONTENTS

Car & Body Dimensions	1,2	Drive Units	14	Suspensions	21
Engine — Mechanical	4	Brakes.....	18, 19	Weights	24
Electrical	12	Steering	20	Index	27

BODY — TYPES AND STYLE NAMES —

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

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

Highway Safety
Research Institute

AMA Specifications—Passenger Car

MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-20-68 REVISED (*) 2-11-69

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:

4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	23			27			41	
		LH, LP		LS	LP		LS	LL, LH	
		6-Cyl	V-8	V-8	6-Cyl	V-8	V-8	6-Cyl	V-8

WIDTH

Track – Front	W101	57.4
Track – Rear	W102	55.6
Maximum overall car width	W103	69.6
Body width at No. 2 pillar	W117	69.6

LENGTH

Body "O" to front of dash	L 30	0.48		
Wheelbase	L101	111		
Overall car length	L103	195.4		
Overhang – front	L104	32.9		
Overhang – rear	L105	51.5		
Body upper structure length	L123	91.2	94	92.5
Body "O" line to C of rear wheel	L127	97.2		
Body "O" line to w/s cowl point	L130	10.8		

HEIGHT

Passenger Distribution (front & rear)			2-front; 3-rear							
Trunk/Cargo load (lbs.)			None							
Overall height			H101	52.6	52.9	52.7	53.4	53.3	53.6	53.9
Cowl height			H114	36.3	36.7	36.3	36.6	36.7	36.3	36.7
Deck height			H138	34.7	35.0	35.1	34.9	35.0	34.7	34.9
Rocker panel – front	To ground		H112	7.4	7.7	7.5	7.7	7.5	7.4	7.7
	From front wheel ℄			29.3						
Rocker panel – rear	To ground		H111	6.1	6.4				6.1	6.4
	From rear wheel ℄			27.2						
Windshield slope angle			H122	50° 30'						

GROUND CLEARANCE

Bumper to ground – front	H102	12.3	12.6	12.5	12.6	12.5	12.3	12.6
Bumper to ground – rear	H104	10.9	11.1	11.5	11.2	11.1	11.5	10.9
Angle of approach	H106	21.7	22.3	22.1	22.3	22.1	21.7	22.3
Angle of departure	H107	12.2	12.5	12.9	12.6	12.5	12.9	12.2
Ramp breakover angle	H147	11.4	12.1	11.4	12.1	11.4	12.1	11.4
Min. running clearance (Specify)	H156	5.1	5.3	5.2	5.1	5.3	5.2	5.1

MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-20-68 REVISED 10-2-11-69

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	LL, LH	LP, LS	LL, LH	LP, LS	
		23	27	41	23	27
		Bench Seats			Bucket Seats	

FRONT COMPARTMENT

Effective head room	H61	37.3	38.6	38.3	38.0	38.7
Max. eff. leg room – accelerator	L34	41.7			41.6	
H Point to Heel point	H30	8.9			8.3	
H Point travel	L17	4.5				
Shoulder room	W 3	55.4				
Hip room	W 5	57.2				
Upper body opening to ground	H50	48.3 (d)	48.6	48.9 (e)	48.3 (d)	48.6

REAR COMPARTMENT

H Point couple distance	L50	29.5		33.3	29.6	
Effective head room	H63	36.8	36.9	37.3	36.8	36.9
Min. effective leg room	L51	31.8		35.7	33.1	
H Point to Heel point	H31	10.3		11.1	10.3	
Min. knee room	L48	0.50		3.1	1.2	
Rear Compartment room	L 3	23.6	23.3	27.0	23.8	23.5
Shoulder room	W 4	55.4	54.8	55.4	55.4	54.8
Hip room	W 6	57.2	46.8	57.2	57.2	46.8
Upper body opening to ground	H51	--		48.4 (f)	--	

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1			14.1		
Liftover height	H195	21.9 (a)	22.2 (b)	21.9 (a)	22.5	22.5 (a)
Position of spare tire storage		--				
Method of holding lid open		Torsion bar				

STATION WAGON — THIRD SEAT

Shoulder Room	W85	Not applicable				
Hip room	W86	"				
Effective leg room	L86	"				
Effective head room	H86	"				
Seat facing direction		"				

STATION WAGON — CARGO SPACE

Cargo length at floor — front seat	L202	Not applicable				
Cargo length at belt — front seat	L204	"				
Cargo width — Wheelhouse	W201	"				
Opening width at belt	W204	"				
Maximum cargo height	H201	"				
Rear opening height	H202	"				
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	"				

(a) For V-8: 22.2

(b) LP-27 only

(c) LS-27 only

(d) For V-8: 48.6

(e) For V-8: 49.2

(f) For V-8: 48.7

(Indicate whether standard or optional)

Form Rev. 3-67

Generated on 2024-02-13 14:21 GMT / <https://hdl.handle.net/2027/mdp.39015071674868>
Public Domain in the United States / http://www.hathitrust.org/access_use#pd-us

AMA Specifications—Passenger Car

MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-20-68 REVISED 12-11-69

See Page 3 for Engine Usage

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

ENGINE – GENERAL

Type, no. cyls., valve arr.		In-line, six, OHV		90° V-8, OHV			
Bore and stroke (nominal)		3.4 x 3.125	3.4 x 4.125	3.63 x 3.31	3.91 x 3.31	4.04 x 3.31	4.25 x 3.38
Piston displacement, cu. in.		170	225	273	318	340	383
Bore spacing (C to C)		(a)		4.46			4.8
No. system (front to rear)	L. Bank	--		1-3-5-7			
	R. Bank	--		2-4-6-8			
Firing order		1-5-3-6-2-4		1-8-4-3-6-5-7-2			
Compres. ratio (nominal)		8.5	8.4	9.0	9.2	10.5	10.0
Cylinder Head Material		Cast iron					
Cylinder Block Material		Cast iron					
Cyl. Sleeve-Wet, dry, none		None					
Number of mtg. points	Front	Two					
	Rear	One					
Engine installation angle		Lateral: 0° inclined rear to front: 3°					
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	27.7		42.2	48.9	52.2	57.8
Publishing max. bhp* @ eng. RPM		115 @ 4400	145 @ 4000	190 @ 4400	230 @ 4400	275 @ 5000	330 @ 5200
Publishing max. torque * (lb. ft. @ RPM)		155 @ 2400	215 @ 2400	260 @ 2000	340 @ 2400	340 @ 3200	410 @ 3600
Recommended fuel regular – premium		Regular				Premium	

ENGINE – PISTONS

Material	Aluminum alloy				
Description and finish	Closed slipper-type, steel strut, elliptically turned, tin-plated			(c)	(b)
Weight (piston only) oz.	16.4	19.3	20.9	25.4	27.2
Clearance (limits)	Top land	.024 min.	.017 min.	.018 min.	.020 min.
	Skirt Top	.0005 to .0015			(d)
	Bottom	-.0005 to +.0015			(e)
Ring groove depth	No. 1 ring	.179	.191	.205	.210
	No. 2 ring	.179	.191	.205	.210
	No. 3 ring	.181	.182	.193	.198
	No. 4 ring	--			

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

(a) 3.98 (1-2, 3-4, 5-6); 4.00 (2-3, 4-5)

(b) Closed slipper-type, steel strut, elliptically turned, tin-plated

(c) Open slipper type, otherwise as in (b) above

(d) .00025 to .00125

(e) -.00125 to +.00125

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

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

ENGINE – RINGS

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

ENGINE – PISTON PINS

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

ENGINE – CONNECTING RODS

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

(a) Cast iron, twist and taper, tin-plated

(b) Cast iron, twist and barrel-lap faced, moly-filled

(c) Cast iron, twist and radius-faced, tin-plated

(d) Cast iron, reverse twist and taper, lubrite-coated

(e) Cast iron, reverse twist and taper, tin-plated

(f) .00045 to .00075

(g) .0007 to .0014 interference

(h) .0002 to .0027

(i) .0005 to .0030

(j) Two rods

AMA Specifications—Passenger Car

MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-21-68 REVISED (a)
See Page 3 for Engine Usage

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

ENGINE – CRANKSHAFT

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

ENGINE – CAMSHAFT

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

ENGINE – VALVE SYSTEM

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

(Continued)

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

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

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

ENGINE – VALVE SYSTEM (cont.)

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

ENGINE – LUBRICATION SYSTEM

Type of lubrica- tion (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)

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

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

ENGINE – LUBRICATION SYSTEM (cont.)

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

ENGINE – EXHAUST SYSTEM

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

ENGINE – CRANKCASE VENTILATION SYSTEM

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

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

AMA Specifications—Passenger Car

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

All Engines

MODEL _____

ENGINE - EXHAUST EMISSION CONTROL (a)

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

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

AMA Specifications—Passenger Car

MAKE OF CAR DODGE DART MODEL YEAR 1969 DATE ISSUED 6-21-68 REVISED (*) 2-11-69

See Page 3 for Engine Usage

MODEL

170 CID

225 CID

273 CID

318 CID

340 CID

383 CID

ENGINE – FUEL SYSTEM

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

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

CARBURETOR SUPPLEMENTARY INFORMATION

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

(a) Replace every 2 years or 24,000 miles with Part Number above.

(b) Paper element. Clean every 6 months. Replace every 2 years with Part Number above.

(c) With AC: AVS-4639S

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

MODEL	170 CID	225 CID w/o AC	225 CID w/AC	273 CID w/o AC	273 CID w/AC	318 CID w/o AC	318 CID w/AC	340 CID w/o AC	340 CID w/AC	383 CID w/o AC
-------	------------	-------------------	-----------------	-------------------	-----------------	-------------------	-----------------	-------------------	-----------------	-------------------

ENGINE – COOLING SYSTEM

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

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

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

Form Rev. 3-67

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

MODEL

170 CID	225 CID	273 CID	318 CID	340 CID	383 CID
---------	---------	---------	---------	---------	---------

ELECTRICAL – SUPPLY SYSTEM

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

ELECTRICAL – STARTING SYSTEM

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

(a) MoPar

(b) Three-phase full-wave rectified

(c) With air conditioning 2098850

(d) With air conditioning 46 amp-hr

(e) Replaced during production year by 2875570

(f) Replaced during production year by 2875560 (on 383 use only 2095150)

(z) (Refer to page 11) Protect cooling system with Glycol-base antifreeze. Alcohol-base antifreeze is not recommended because of its low boiling point.

AMA Specifications—Passenger Car

MAKE OF CAR <u>DODGE DART</u>		MODEL YEAR <u>1969</u>		DATE ISSUED <u>6-24-68</u>		REVISED <u>(•)</u>	
		See Page 3 for Engine Usage					
MODEL		170 CID	225 CID	273 CID	318 CID	340 CID	383 CID

ELECTRICAL – IGNITION SYSTEM

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

ELECTRICAL – SUPPRESSION

Locations & type	Resistance-type spark plug and coil cables
------------------	--

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

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

AVAILABILITY
(See Page 3 for Engine Usage)

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

SPECIFICATIONS

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

AMA Specifications—Passenger Car

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

MODEL

All Models

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

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

DRIVE UNITS – CLUTCH (Manual Transmission)

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

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

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

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

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

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

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)	
Manual lockout (yes, no)	
Downshift accelerator control (yes, no)	
Minimum cut-in speed	
Gear ratio	
Lubricant	Capacity (pt.) (Overdrive only)
	Separate filler (yes, no)
	Type recommended
	SAE viscosity number

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

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

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

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

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

DRIVE UNITS – AUTOMATIC TRANSMISSION

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

DRIVE UNITS – PROPELLER SHAFT

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

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

(Continued)

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

DRIVE UNITS – PROPELLER SHAFT (cont.)

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

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

(See page 3 for axle ratio usage)

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

- Form Rev. 3-67

AMA Specifications—Passenger Car

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

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

DRIVE UNITS – WHEELS

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

MODEL

DRIVE UNITS – TIRES

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

BRAKES – PARKING

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

(a) Convertible: 7.00 x 13, 4-2

(b) 273 CID & 318 CID w/AC: 14 x 5.5 J; D70 x 14, 4-2

(c) Convertible w/225 CID & AC: 14 x 5.5 J; D70 x 14, 4-2

(d) Swinger 340 wo/AC; D70 x 14, 4-2; 30 psi F & R; 825 rev/mile

AMA Specifications—Passenger Car

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

Drum Brakes		Disc Brakes
6-Cyl	V-8	

MODEL _____

BRAKES – SERVICE (a)

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

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

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

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

AMA Specifications—Passenger Car

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

MODEL

6-Cyl

V-8

STEERING

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

- (a) Check lubricant level in steering gear twice a year. If necessary, replenish with Multipurpose Gear Oil, SAE 90, to cover worm completely.
- (b) Check reservoir fluid level twice a year. Replenish to bottom of filler neck (cold) with power steering fluid part number 2084329.
- (c) Inspect tie rod ends and ball joints twice a year. Lubricate every 36,000 miles with long-life chassis grease part number 2525035.
- (d) For disc brakes: 3/4-16 UNF-3A.

AMA Specifications—Passenger Car

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

See Page 3 for Engine Usage

MODEL	170 CID	273 CID	318 CID	383 CID
	225 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 (a)

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

SUSPENSION – REAR (b)

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

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

AMA Specifications—Passenger Car

MAKE OF CAR	DODGE DART	MODEL YEAR	1969	DATE ISSUED	6-25-68	REVISED (a)
		41	23		27	
MODEL		L, H	P, S	P	S	
FRAME						

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

Unit construction

BODY – MISCELLANEOUS INFORMATION

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

FW: Formed wire

ZZ: Zigzag

AMA Specifications—Passenger Car

Page 23

Page 23

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

All Models

MODEL

CONVENIENCE EQUIPMENT

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

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

LAMP HEIGHT AND SPACING

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

* If single headlamps are used enter here.

(a) With 225 CID: 25.0

(b) With 225 CID: 25.3

Form Rev. 3-67

WEIGHTS

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

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

Note: All Curb Weights Include Automatic Transmission

[illegible]

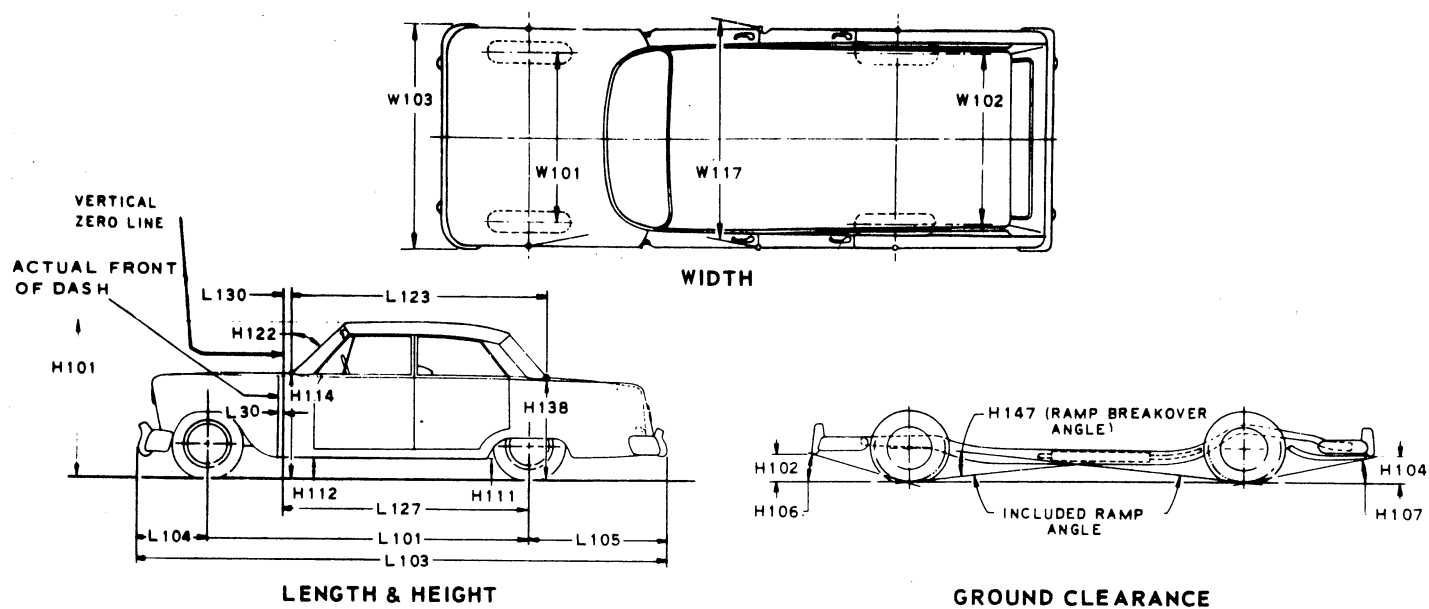
* Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

AMA Specifications—Passenger Car

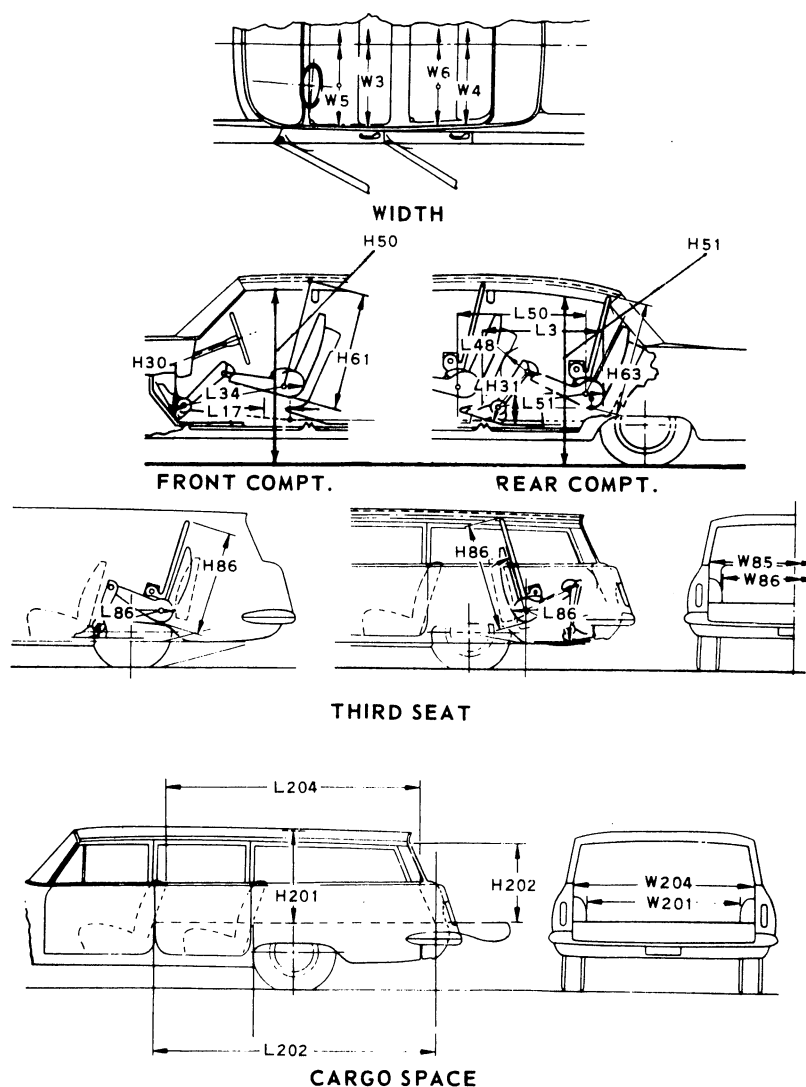
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD — FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD — REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (–) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG — FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG — REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT — DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND — FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND — REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND — FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND — REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM — FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.
- H 30 H POINT TO HEEL POINT — FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM — FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W 5 HIP ROOM — FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.
- H 50 UPPER BODY OPENING TO GROUND — FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H 63 EFFECTIVE HEAD ROOM — REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L 51 MINIMUM EFFECTIVE LEG ROOM — REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.
- H 31 H POINT TO HEEL POINT — REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L 48 MINIMUM KNEE ROOM — REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.
- W 4 SHOULDER ROOM — REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W 6 HIP ROOM — REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H 51 UPPER BODY OPENING TO GROUND — REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY — USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON — THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM — THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W 86 HIP ROOM — THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L 86 EFFECTIVE LEG ROOM — THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H 86 EFFECTIVE HEAD ROOM — THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON — CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR — FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT — FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH — WHEELHOUSE. The minimum horizontal dimension, measured between wheel housings 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.

W4xL204xH201
1728

INDEX

SUBJECT	PAGE NO.
Automatic Transmission.....	16
Axis, Steering	20
Axle, Rear	17
Battery	12
Bearings, Engine	5, 6, 7
Belts — Fan, Generator, Water Pump	11
Brakes — Parking, Service Power	18, 19
Camber	20
Camshaft	6
Capacities	
Cooling System	11
Fuel Tank	10
Lubricants	
Engine Crankcase	8
Transmission and Overdrive	15, 16
Rear Axle	17
Car and Body Dimensions	
Width	1
Length	1
Height	1
Ground Clearance	1
Front Compartment	2
Rear Compartment	2
Luggage Compartment	2
Station Wagon — Third Seat	2
Station Wagon — Cargo Space	2
Carburetor	3, 9, 10
Caster	20
Choke, Automatic	10
Clutch — Pedal Operated	14
Coil, Ignition	13
Connecting Rods	5
Convenience Equipment	23
Cooling System	11
Crankcase Ventilation System	8
Crankshaft	6
Cylinders and Cylinder Head	4
Dimension Definitions	
Key Sheet	25
Exterior & Interior	26
Distributor — Ignition	13
Electrical System	12, 13, 14
Engine	
Bore, Stroke, Displacement, Type	4
Compression Ratio	4
Firing Order, Cylinder Numbering	4
General Information, H.P. & Torque	4
Lubrication	7, 8
Power Teams	3
Exhaust Emission Control	9
Exhaust System	8
Equipment Availability	22
Fan, Cooling	11
Filters — Engine Oil, Fuel System	8, 10
Frame	22
Front Suspension	21
Fuel, Fuel Pump, Fuel System	4, 10
Fuel Injection	10
Generator and Regulator	12
Glass	22
Height (Lamps)	14
Headroom — Body	2
Heights — Car and Body	1
Horns	14
Horsepower — Brake	3, 4
Ignition System	13
Inflation — Tires	18
Instruments	14

SUBJECT	PAGE NO.
Kingpin (Steering Axis)	20
Lamp height and spacing	23
Legroom	2
Lengths — Car and Body	1
Lifters, valve	6
Linings — Clutch, Brake	14, 19
Lubrication	7, 8, 14, 15, 16, 17
Luggage Compartment	2
Motor, Starting	12
Muffler	8
Overdrive	15
Piston Pins & Rings	4, 5
Pistons	4, 5
Power Brakes	19
Power Steering	20
Power Teams	3
Propeller Shaft, Universal Joints	16, 17
Pumps — Oil, Fuel	8, 10
Water	11
Radiator, Hoses	11
Ratios — Axle	3, 17
Compression	3, 4
Steering	20
Transmission	15, 16
Rear Axle	3, 17
Regulator — Generator	12
Rims	18
Rings, Piston	5
Rods — Connecting	5
Shock Absorbers, Front & Rear	21
Spark Plugs	13
Speedometer	14
Springs — Front & Rear Suspension	21
Valve, Engine	6
Stabilizer (Sway Bar) — Front & Rear	21
Starting System	12
Steering	20
Supply System	12
Suppression — Ignition, Radio	13
Suspension — Front & Rear	21
Tail Pipe	8
Thermostat, Cooling	11
Timing, Engine & Valve	6, 7, 13
Tires	18
Toe in	20
Torque Converter	16
Torque — Engine, Rated	3, 4
Transmission — Types	3, 10, 15, 16
Automatic	3, 10, 15, 16
Manual & Overdrive	3, 10, 15
Ratios	15, 16
Track	1
Trunk Luggage Capacity	2
Turning Diameter	20
Unitized Construction	22
Universal Joints, Propeller Shaft	16, 17
Valves — Intake & Exhaust	6, 7
Vibration Damper	6
Voltage Regulator	12
Water Pump	11
Weights	24
Wheel Alignment	20
Wheelbase	1
Wheels & Tires	18
Wheel Spindle	20
Widths — Car and Body	1
Windshield	22
Windshield Wiper	14

UMTRI



3 9015 07167 4868

Highway Safety
Research Institute