

AMA Specifications—Passenger Car

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MANUFACTURER	CHRYSLER-PLYMOUTH DIVISION CHRYSLER CORPORATION	CAR NAME	PLYMOUTH BARRACUDA
MAILING ADDRESS	DETROIT, MICHIGAN 48231	MODEL YEAR	1969
		ISSUED:	6-17-68
		REVISED (●)	3-3-69

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.

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BODY — TYPES AND STYLE NAMES —

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

		2-Door Hardtop 23	Convertible Coupe 27	Fastback 2-Door Hardtop 29
Barracuda	Six	BH 23	BH 27	BH 29
	V-8			

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PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-20-68 REVISED (*)3-3-69

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		29	
		Six	V-8	Six	V-8	Six	V-8

WIDTH

Track - Front	W101	57.5					
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	L 101	108					
Overall car length	L 103	192.8					
Overhang - front	L 104	35.18					
Overhang - rear	L 105	49.57					
Body upper structure length	L 123	93.85		94.17		--	
Body "O" line to ϕ of rear wheel	L 127	94.18					
Body "O" line to w/s cowl point	L 130	10.75					

HEIGHT

Passenger Distribution (front & rear)		2-front; 3-rear					
Trunk/Cargo load (lbs.)		None					
Overall height	H101	52.7		53.2	53.3		52.8
Cowl height	H114	36.2					
Deck height	H138	36.6		36.5		--	
Rocker panel - front	To ground	7.4					
	From front wheel ϕ	15.5					
Rocker panel - rear	To ground	6.3					
	From rear wheel ϕ	24.2					
Windshield slope angle	H122	50° 30'					

GROUND CLEARANCE

Bumper to ground - front	H102	14.1					
Bumper to ground - rear	H104	11.8					
Angle of approach	H106	23.3					
Angle of departure	H107	13.8					
Ramp breakover angle	H147	11.5	11.8	11.5		11.8	
Min. running clearance (Specify)	H156	5.4 (muffler)					

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CAR AND BODY DIMENSIONS

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

MODEL	SAE Ref. No.	23		27		29	
		6-Cyl	V-8	6-Cyl	V-8	6-Cyl	V-8

FRONT COMPARTMENT

Effective head room	H61	37.4		38.7		37.2	
Max. eff. leg room — accelerator	L34	41.7		41.6		41.7	
H Point to Heel point	H30	8.9		8.3		8.9	
H Point travel	L17			4.5			
Shoulder room	W 3			55.4			
Hip room	W 5			57.1			
Upper body opening to ground	H50	48.2		48.3		48.0	

REAR COMPARTMENT

H Point couple distance	L50	26.2		29.6		27.5	
Effective head room	H63	35.8		36.9		36.5	
Min. effective leg room	L51	30.2		33.1		31.1	
H Point to Heel point	H31			10.3			
Min. knee room	L48	2.0		1.2		1.0	
Rear Compartment room	L 3	21.0		23.5		22.0	
Shoulder room	W 4	55.4		54.8		55.4	
Hip room	W 6	57.2		46.8		57.2	
Upper body opening to ground	H51			--			

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	15.2		NA			
Liftover height	H195	24.0	23.9	24.0	23.9	24.0	23.9
Position of spare tire storage		In tire well					
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	"					

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POWER TEAMS

(Indicate whether standard or optional)

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

* SURE-GRIP Only

** SURE-GRIP NA

(a) Axle ratios also available in SURE-GRIP. Standard axle ratio used with & without AC.

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See Page 3 for Engine Usage

MODEL 225 CID 318 CID 340 CID 383 CID

ENGINE – GENERAL

Type, no. cyls., valve arr.		In-line, 6, OHV		90° V-8, OHV	
Bore and stroke (nominal)		3.4 x 4.125	3.91 x 3.31	4.04 x 3.31	4.25 x 3.38
Piston displacement, cu. in.		225	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)		8.4	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	48.9	52.2	57.8
Publishing max. bhp* @ eng. RPM		145 @ 4000	230 @ 4400	275 @ 5000	330 @ 5200
Publishing max. torque* (lb. ft. @ RPM)		215 @ 2400	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	(b)	(c)	
Weight (piston only) oz.	16.4	20.9	25.4	27.2
Clearance (limits)	Top land	.024 min.	.018 min.	.020 min.
	Skirt Top	.0005 to .0015		.00025 to .00125
	Bottom	-.0005 to +.0015		-.00125 to +.00125
Ring groove depth	No. 1 ring	.179	.205	.210
	No. 2 ring	.179	.205	.210
	No. 3 ring	.181	.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) Open slipper-type, steel strut, elliptically turned, tin plated.

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

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MODEL 225 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 - #1	(a)	(c)	(b)	(c)
	material, coating, etc. #2	(d)			(e)
	Width	.078			
	Gap	.010 - .020		.013 - .023	
Oil	Description -	3-piece abutment-type, stainless steel			
	material, coating, etc.	spacer-expander with chrome-plated segments			
	Width	.188			
	Gap	Not applicable			
Expanders		See above			

ENGINE – PISTON PINS

Material		Carbon steel - carburizing grade			
Length		2.965	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- In rod or piston	None	Rod	None	
	ing Material	--	Bronze on steel	--	
Clearance	In piston	.00045 - .00075	.0000 - .0005	.00045 - .00075	
	In rod	(f)	.0001 - .0006	(f)	
Direction & amount offset in piston		Right .06			

ENGINE – CONNECTING RODS

Material		Drop-forged steel			
Weight (oz.)		26.8	25.6	26.7	28.6
Length (center to center)		6.699	6.123		6.358
Bearing	Material & Type	(g)	Bi-metal grid	Tri-metal	
	Overall length	.985	.843	.927	
	Clearance (limits)	.0002 - .0022	.0002 - .0027	.0005 - .0030	
	End play	.006 - .012	.006 - .014 (h)	.009 - .017 (h)	

- (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) .0007 - .0014 interference
 (g) Lead-base babbitt on steel
 (h) Total, two rods

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		See Page 3 for Engine Usage					
MODEL		225 CID	318 CID	340 CID	4-bbl, 383 CID		

ENGINE – CRANKSHAFT

Material		(a)	Cast ductile iron	(a)	
Vibration damper type		Non-adhesive, rubber, dynamic			
End thrust taken by bearing (No.)		Three			
Crankshaft end play		.002 - .007			
Main bearing	Material & type		Lead-base babbitt on steel, removable, precision (d)		
	Clearance		.0002 - .0022 specified, .0005 - .0015 desired		
	Journal dia. and bearing overall length	No. 1	2.75 x 1.034	2.5 x 0.872	2.625 x 0.944
		No. 2	2.75 x 1.034	2.5 x 0.872	2.625 x 0.944
		No. 3	2.75 x 1.254	2.5 x 1.151	2.625 x 1.223
		No. 4	2.75 x 1.034	2.5 x 0.872	2.625 x 0.944
		No. 5	--	2.5 x 1.562	2.625 x 0.944
		No. 6	--		
		No. 7	--		
Dir. & amt. cyl. offset		None			
Crankpin journal diameter		2.187	2.125	2.375	

ENGINE – CAMSHAFT

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	(b)	Chain	
	Crankshaft gear or sprocket material		(c)	Steel	(c)	
	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	
		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) Drop-forged steel
- (b) Double-roller chain
- (c) Malleable cast iron or sintered iron (Super Oilite)
- (d) For the 340 CID engine, crankshaft main bearings are of aluminum alloy on steel, removable, precision.

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MODEL 225 CID 318 CID 340 CID 383 CID Hi-Perf.

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	
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				
Intake	Lift (w 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	
	Material		21-4N			
Overall length		4.80	5.00	5.00	4.89	
Actual overall head dia.		1.36	1.50	1.60	1.74	
Angle of seat & face		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				
Exhaust	Lift (w 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)

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MODEL _____ 225 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
Capacity of oil case, less filter-refill (qt.)	4
Oil grade recommended (SAE viscosity and temperature range)	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 w/crossover	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One - Reverse flow	Two - Reverse flow	
Exhaust pipe dia. (O.D., wall thick.)	3-Pass., 4-Partition	3-Pass., 3-Part.	3-Pass., 3-Partition
Branch	--	1.75 x .075	--
Main	1.88 x .075	2.00 x .075	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 (a)

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Optional
	Induction system	--
Make and model	2843258(b) 2863189(c)	2843257(b) 2843256(c)
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) 2.00 x .043 rearward of kick-up
 (b) Chicago Screw
 (c) United Air Cleaner

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All Engines

MODEL _____

ENGINE – EXHAUST EMISSION CONTROL

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	

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 MODEL

225 CID	318 CID	340 CID	383 CID Hi-Perf
w/o AC	w/AC	w/o AC	w/AC

340 CID	383 CID Hi-Perf
w/o AC	w/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)	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.)	13	15	17	19	16			
	Without heater (qt.)	12	14	16	18	15			
	Opt. equipment-specify (qt.) (a)	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					
	Diameter		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		Thermal	Torque	Thermal	None	
	Bearing type		See water pump bearing above						
* Drive belts (indicate belt used by letter)	Fan		A	D	E	D	E	D	
	Generator or alternator		A	D	E	D	E	D	
	Water Pump		A	D	E	D	E	D	
	Power Steering		B	F with .94 pump; I with 1.06 pump				H	
	Air Conditioning		--	C	--	G	--	G	--

* 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		
Nominal length (SAE)	57.0	40.75	53.0	46.5	48.0	42.5	50.0	43.0	42.0		
Width	.38	.38	.50	.38	.38	.50	.50	.38	.50		

(a) Maximum cooling

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MODEL		225 CID	318 CID	340 CID	383 CID Hi-Perf		

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model (a)		24-MB-48		24-MB-59
	Voltage Rtg. & Total Plates		12, 54		12, 66
	SAE Designation & Amp. Hr. Rtg.		9HC3, 48		9 HC3-A, 59
	Location				
	Terminal grounded		Negative		
Generator or Alternator	Make		Chrysler		
	Model		2642538	2642537	2642537 (b)
	Type and rating (d)		30 amp-hr	37 amp-hr	37 amp-hr (c)
	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	--		
	Regu- lated	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. at 1250 rpm with 15 amp load			

ELECTRICAL – STARTING SYSTEM

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

(a) MoPar

(b) With AC 2098850

(c) 46 amp-hr with A/C

(d) Three-phase full-wave rectified

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

AMA Specifications—Passenger Car

PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-19-68 REVISED (*)

See Page 3 for Engine Usage

MODEL	225 CID	318 CID	340 CID	383 CID Hi-Perf.
-------	---------	---------	---------	---------------------

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	
	Centrifugal 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)
Timing	Breaker arm tension (oz.)		17 - 20	17 - 21.5
	Crankshaft deg. @ rpm		See page 13A	
	Mark location		"	
Spark Plug	Make		MoPar or Champion	Champion MoPar P-3-4P
	Model		MoPar: P-6-6P; Champion: N14Y	N9Y Champion 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

AMA Specifications—Passenger Car

PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-19-68 REVISED 3-3-69

AVAILABILITY

(See Page 3 for Engine Usage)

	225 CID		318 CID		340 CID		383 CID Hi-Perf.	
	Manual	Auto.	Manual	Auto.	Manual	Auto.	Manual	Auto.
Part Number	2875822	2875826	2875796		2875782	2875779	2875715	2875846
Timing Degrees @ RPM	TDC		TDC		TDC	5B TDC	TDC	5B TDC
					700	650	700	650

SPECIFICATIONS

DISTRIBUTOR PART NUMBER	CENTRIFUGAL ADVANCE			VACUUM ADVANCE		
	Crankshaft Degrees at Engine RPM			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
2875796	0 @ 850	14.5 @ 1300	36 @ 4800	0 @ 9.0	11 @ 12.0	19 @ 15.0
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

AMA Specifications—Passenger Car

PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-19-68 REVISED (•)

MODEL _____ All Models

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	In-line drive, pointer
	Trip odometer (yes,no)	Optional with 150 mph speedometer
Charge indicator – type		Ammeter
Temperature indicator – type		Electric, thermal
Oil pressure indicator – type		Electric, thermal
Fuel indicator – type		Electric, thermal
Other		Brake system and parking brake warning light
Wind-shield wiper	Type – Standard	Electric, 2-speed
	Type – Optional	Electric, variable speed
Wind-shield washer	Type – Standard	Foot-operated pump
	Type – Optional	Electric
Horn	Type	4-inch sea shell
	Number used	2
	Amp draw (each)	Sparton: 6-8 amp; Prestolite: 4-6 amp

DRIVE UNITS – CLUTCH (Manual Transmission)

MODEL		225 CID	318 CID	340 CID, 4V	383 CID, 4V
Make & type dry plate		Auburn; Borg & Beck	Borg and Beck		
Type pressure plate springs		Coil			
Total spring load (lb.) min.		1375	1693	2181	
No. of clutch driven discs		One			
Clutch facing	Material	Woven asbestos			
	Outside & inside dia.	9.25 & 6.00	10.5 & 6.5		
	Total eff. area (sq.in.)	77.8	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			

AMA Specifications—Passenger Car

PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-19-68 REVISED (•) 3-3-69

See Page 3 for Engine Usage

MODEL

225 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		4
Transmission ratios	In first	2.95	3.02	2.66
	In second	1.83	1.76	1.91
	In third	1.00	1.00	1.39
	In fourth	--	--	1.00
	In reverse	3.80	3.95	2.58
Synchronous meshing, specify gears		2nd & 3rd		All forward speeds
Shift lever location		3-speed: steering column 4-speed: floor or console		
Lubricant	Capacity (pt.)	6.5	6.0	7.5
	Type recommended	(a)		
	SAE viscosity	(a)		
	Season	(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	
	Season	
	Winter	
	Extreme cold	

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

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

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

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PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-19-68 REVISED ^(*) 3-3-69

MODEL	See Page 3 for Engine Usage			
	225 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	76	83	74
Max. kickdown speed—drive range	68	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	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 51.43 x .065	--
	Manual 4-speed trans.	--	2.75 x 48.60 x .065
	Overdrive transmission	NA	
	Automatic transmission	2.75 x 51.43 x .065	3.00 x 48.88 x .065

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

(Continued)

AMA Specifications—Passenger Car

PLYMOUTH MAKE OF CAR <u>BARRACUDA</u>		MODEL YEAR <u>1969</u>		DATE ISSUED <u>6-19-68</u>		REVISED ^(*)	
		See Page 3 for Engine Usage					
MODEL _____		225 CID	318 CID	340 CID	383 CID		

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
	Number used	Chrysler		
	Type (ball and trunnion, cross)	Two		
	Rear attach. (u-bolt, clamp, etc.)	Cross		
	Bearing	C-clamp		
	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		(a) Unitized carrier housing	(b) Separable carrier housing
Limited Slip differential, type		7-1/4 outside diameter ring gear	8-3/4 outside diameter ring gear
Drive Pinion Offset		Friction bias	
No. of differential pinions		1.625	1.50
Pinion adjustment (shim, other)		2	
Pinion bearing adj. (shim, other)		Washer	
Wheel bearing type		Solid spacer	Shim pack
		Ball	Tapered roller
Lubricant	Capacity (pt.)	2	4
	Type recommended	MIL-L-2105-B	
	SAE viscosity number	Summer	Above -10F SAE 90
		Winter	Between -10F & -30F . SAE 80
		Extreme cold	Below -30F SAE 75

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

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

(a) Except 318 CID with 3- or 4-speed

(b) Also 318 CID with 3- or 4-speed

AMA Specifications—Passenger Car

PLYMOUTH
 MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-20-68 REVISED ^(*) 3-3-69

		All Brakes				
MODEL		225 CID	318 CID (a)	318 CID (b)	340 CID	383 CID

DRIVE UNITS – WHEELS

Type & material		Disc, steel	
Rim (size & flange type)	Std.	4.5 J (c, d)	5.5 J
	Opt.	5.5 J (e)	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		6.95 x 14, 4-2 (g)	6.95 x 14, 4-2 (k)	D70 x 14, 4-2	D70 x 14, 4-2 (m)	E70 x 14, 4-2
	Type (bias, radial, etc.)		Bias				
	Full rated Inflation Press.	Front	32 (g)	32 (k)	30	30 (m)	28
		Rear	32 (g)	32 (k)	30	30 (m)	28
	Rev./Mile at 50 MPH		819 (g)	819 (k)	825	825 (m)	804
Optional	Size, ply rating, & ply		C78 x 14, 4-2/4 6.95 x 14, 4-2/4 (h) D70 x 14, 4-2 E70 x 14, 4-2, 4-2/4 (h, j)		E70 x 14, 4-2, 4-2/4 (h, j) C78 x 14, 4-2/4 (n)	E70 x 14, 4-2, 4-2/4 (h)	E70 x 14, 4-2/4 (h)

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) Except convertible.
 (b) Convertible only.
 (c) 5.5 J Standard on convertible with Air Conditioning.
 (d) Used only with 6.95 x 14 tires.
 (e) Not available with 6.95 x 14 tires.
 (g) D70 x 14, 4-2 standard on convertible with air conditioning; 30 psi F & R; 825 rev/mile.
 (h) 4-2/4 designates bias belted construction.
 (j) Available only with heavy-duty suspension and sway bar
 (k) D70 x 14, 4-2 standard with air conditioning; 30 psi F & R; 825 rev/mile.
 (m) E70 x 14, 4-2 standard with air conditioning; 28 psi F & R; 804 rev/mile.
 (n) BH23 only

AMA Specifications—Passenger Car

PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-20-68 REVISED ^(*)3-3-69

MODEL _____	Drum Brakes		Disc Brakes
	6-Cyl	V-8	

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. Opt.	--		Tandem	
			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 Rear	9 9	10 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	Front % Rear %				
	distribution					
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	7.66 x 2.25 x .19	8.46 x 2.25 x .19	4.82 x 1.84 x 0.4
			Second. or in-board	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	7.66 x 2.00 x .19	8.46 x 1.75 x .19	
			Second. or in-board	9.82 x 2.00 x .24	11.06 x 1.75 x .24	
	Segments per shoe		One			

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

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

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

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PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-20-68 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)	Manual	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)	Power	Type (coaxial, linkage, etc.)	Integral
		Make	Chrysler
		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)	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: $-1/2^{\circ} \pm 9/16^{\circ}$ Power steering: $+3/4^{\circ} \pm 9/16^{\circ}$
	Camber (deg.)		Left: $+1/2^{\circ} \pm 1/4^{\circ}$ Right: $+1/4^{\circ} \pm 1/4^{\circ}$
	Toe-in (outside track inches)		$1/8" \pm 1/32"$
Steering spindle & joint type		Ball joint	
Wheel Spindle	Diameter	Inner bearing	Drum 1.0610 Disc 1.2494
		Outer bearing	Drum 0.6869 Disc 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

PLYMOUTH MAKE OF CAR BARRACUDA		MODEL YEAR 1969	DATE ISSUED 6-20-68	REVISED (a)
		See Page 3 for Engine Usage		
MODEL		225 CID	318 CID; 340 CID	383 CID

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

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

SUSPENSION – FRONT

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 .87	35.8 x .89
	Spring rate (lb. per in.)	Not applicable		
	Rate at wheel (lb. per in.)	85	100	110
Stabilizer	Type (link, linkless, frameless)	Optional, link	Std: 340 CID Opt: 318 CID	Link
	Material & bar diameter	0.88		0.94

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	130
	Rate at wheel (lb. per in.)	108	132	150
	Mounting insulation type	Rubber		
Stabilizer	If leaf	No. of leaves	5	6
	Shackle (comp. or tens.)	Compression		
	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 Number 2525035 is recommended.
- (b) Do not lubricate rear springs, spring eye or shackle bushings, or shock absorber bushings. Lubricants cause deterioration of the bushings.

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PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 6-20-68 REVISED (a) 3-3-69

	23	27	29
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 or AM-FM (Dealer installed)	
Rear seat speaker		Opt: Dealer-installed	
Power antenna		NA	
Clock		Opt; except with tachometer or vacuum gauge	
Air conditioner (specify type and availability)		Opt: front unit	
Speed warning device		NA	
Speed control device		NA	
Ignition lock lamp		Opt	
Dome lamp		Std	Std (C-pillar)
Glove compartment lamp		Opt	
Luggage compartment lamp		Opt	
Underhood lamp		Opt; dealer-installed	
Courtesy lamp		Opt	Std
Map lamp		--	
Auto. trans. quad. lamp		Std with automatic transmission	
Cornering light lamp		NA	
Shoulder belts		Std: front seat, Opt: rear seat	
Trip odometer		Opt with rallye cluster	
Tachometer		Opt: V-8 only	
Trailer towing package		Opt	
Headlamp "ON" warning buzzer		Opt	
Rear window defogger		Opt	Opt

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	
		Lowest	
	Tail	Highest	27.0 (a)
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	28.7
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

(a) V-8: 26.9

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PLYMOUTH
MAKE OF CAR BARRACUDA MODEL YEAR 1969 DATE ISSUED 7-2-68 REVISED (*)3-3-69

WEIGHTS

		CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
		Fron.	Rear	Total	Pass. In Front		Pass. In Rear		Fuel	Coolant
					Front	Rear	Front	Rear		
<u>6-Cylinder Models</u>										
Model	Barracuda									
2-Door Hardtop		1615	1280	2895	49.0	51.0	24.6	75.4	108 lb	29 ●
2-Door Fastback		1610	1370	2980	49.0	51.0	23.4	76.6	108	29 ●
Convertible Coupe		1655	1350	3005	49.0	51.0	21.6	78.4	108	29 ●
<u>V-8 Models</u>										
Barracuda										
2-Door Hardtop		1690	1320	3010	49.0	51.0	24.6	75.4	108	36 ●
2-Door Fastback		1680	1410	3090	49.0	51.0	23.4	76.6	108	36 ●
Convertible Coupe		1735	1410	3145	49.0	51.0	21.6	78.4	108	36 ●

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

NOTE: All Curb Weights Include Automatic Transmission

Accessories & Equipment Differential Weights				Remarks
Air Conditioner	+108	- 5	+103	225 CID engine - fastback and hardtop
Air Conditioner	+117	+10	+127	225 CID engine - convertible
Air Conditioner	+136	+ 7	+143	318 CID engine - fastback and hardtop
Air Conditioner	+127	- 8	+119	318 CID engine - convertible
340 CID Engine	+115	+65	+180	With automatic trans. - except convertible ●
340 CID Engine	+106	+50	+156	With automatic trans. - convertible ●
340 CID Engine	+138	+72	+210	With 4-spd. manual trans. - except conv. ●
340 CID Engine	+128	+53	+181	With 4-spd. manual trans. - convertible ●
3-speed Manual Trans.	- 16	- 3	- 19	6-cylinder
3-speed Manual Trans.	+ 6	+38	+ 44	318 CID engine
4-Speed Manual Trans.	+ 51	+49	+100	318 CID engine
Power Steering	+ 43	- 2	+ 41	6-cylinder
Power Steering	+ 42	- 3	+ 39	V-8
Power Brakes	+ 11	+ 1	+ 12	
Radio	+ 5	+ 2	+ 7	
Undercoat	+ 25	+19	+ 44	

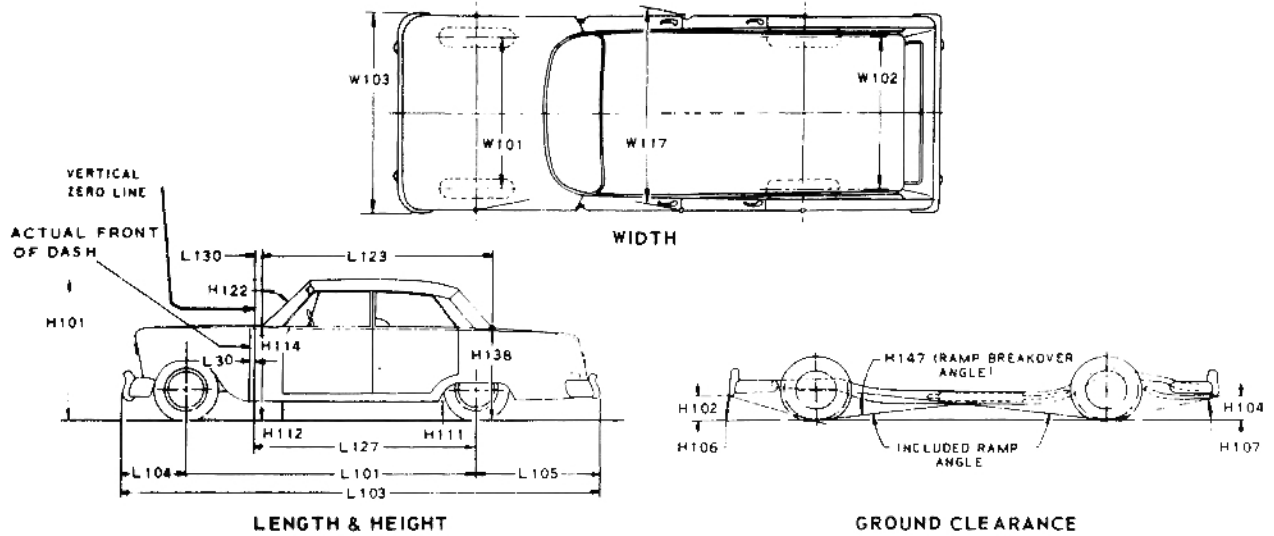
* Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

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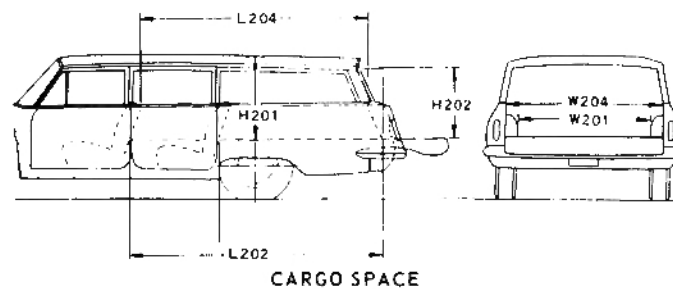
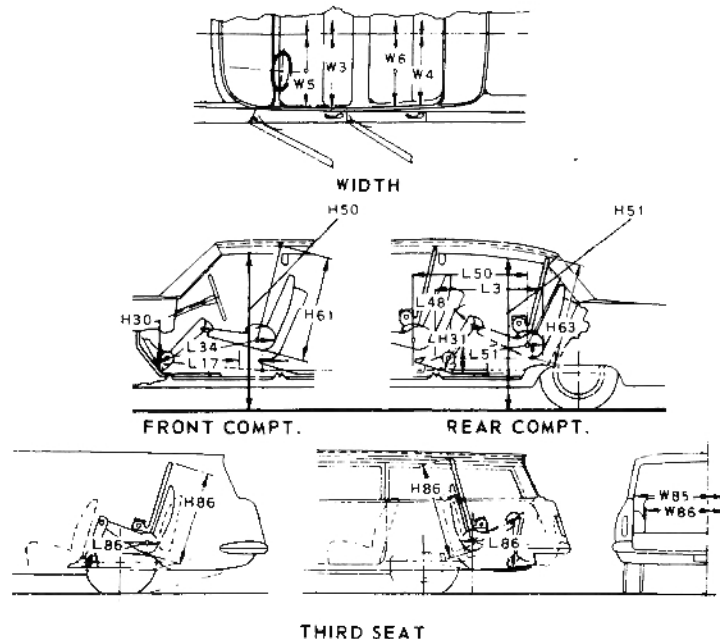
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



AMA Specifications—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 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 wheelhouses 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

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