

## AMA Specifications – Passenger Car

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<b>MANUFACTURER</b> CHRYSLER-PLYMOUTH DIVISION CHRYSLER CORPORATION	<b>CAR NAME</b> PLYMOUTH VALIANT PLYMOUTH				
<b>MAILING ADDRESS</b> DETROIT 31, MICHIGAN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>MODEL YEAR</b> 1964</td> <td style="width: 50%;"><b>ISSUED:</b> 5-17-63</td> </tr> <tr> <td></td> <td><b>REVISED (a)</b> 1-10-64</td> </tr> </table>	<b>MODEL YEAR</b> 1964	<b>ISSUED:</b> 5-17-63		<b>REVISED (a)</b> 1-10-64
<b>MODEL YEAR</b> 1964	<b>ISSUED:</b> 5-17-63				
	<b>REVISED (a)</b> 1-10-64				

**NOTES:**

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

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<b>BODY—TYPES AND STYLE NAMES—</b>				Body type, number of passenger & style names; use manufacturer's code for series & body style:			
				<b>VALIANT</b>			
				V-100	V-200	Signet 200	
2-Door Sedan		VV1-L-21	VV1-H-21				
2-Door Hardtop				VV1-P-23			
Convertible Coupe			VV1-II-27	VV1-P-27			
4-Door Sedan		VV1-L-41	VV1-II-41				
Station Wagon, 6-Pass.		VV1-L-45	VV1-H-45				
				<b>PLYMOUTH 6</b>			<b>PLYMOUTH V-8</b>
				Savoy	Belvedere	Fury	Sport Fury
2-Door Sedan	VP1-L-21	VP1-M-21		VP2-L-21	VP2-M-21		
2-Door Hardtop		VP1-M-23	VP1-H-23		VP2-M-23	VP2-H-23	VP2-P-23
Convertible Coupe						VP2-H-27	VP2-P-27
4-Door Sedan	VP1-L-41	VP1-M-41	VP1-H-41	VP2-L-41	VP2-M-41	VP2-H-41	
4-Door Hardtop						VP2-H-43	
Station Wagon, 6-Passenger	VP1-L-45			VP2-L-45	VP2-M-45	VP2-H-45	
Station Wagon, 9-Passenger	VP1-L-45			VP2-L-45	VP2-M-45	VP2-H-45	

# AMA Specifications — Passenger Car

MAKE OF CAR VALIANT, PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-17-63 REVISED(\*) 1-10-64

## GENERAL SPECIFICATIONS (Standard equipment only)

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	VV1			VP1		VP2			
		21, 23, 41	27	45	21, 23, 41	45	21, 23, 41, 43	27	45	
Wheelbase (L101)	23	106.0			116.0					
Tread	Front (W101)	22	55.9			59.5				
	Rear (W102)	22	55.6			59.6				
Maximum Overall Dimensions	Length (L103)	23	188.2		188.8	206.5	211.5	206.5		211.5
	Width (W103)	22	70.1			75.6	75.1	75.6		75.1
	Height (H101)	24	53.5	54.0	52.9	55.0(a)	55.1	55.1(b)	55.3	55.1 ●
Transmission— (Specify trade name - opt., not available)	Manual	15	Std.: 3-Speed Opt.: 4-Speed		Std.: 3-Speed		Std.: 3-Speed Opt.: 4-Speed (c) ●			
	Overdrive	16	NA							
	Automatic	16	Opt.: TorqueFlite							
Axle ratio	Manual	17	3.23: Performance ratio 2.93: Economy ratio		3.31	3.23	2.93			
	Overdrive	17	--							
	Automatic	17	3.23		2.93		2.76			
Tire size	18	6.50 x 13, 2-ply			7.00x 14, 2ply	7.50 x 14, 2ply	7.00 x 14, 2-ply		7.50 x 14, 2-ply	
Engine	Type, no. cyl., valve arr.	2	6, In-line, OHV, Inclined 30°				90° V-8, OHV			
	Fuel system (Carb., other)	8	Carb., 1-bbl				Carb., 2-bbl			
	Bore and stroke	2	3.4 x 3.125		3.4 x 4.125		3.91 x 3.31			
	Piston displ., cu.in.	2	170			225		318		
	Std. compression ratio	2	8.5			8.4		9.0		
	Max. bhp at engine rpm	2	101 @ 4400			145 @ 4000		230 @ 4400 ●		
	Max. torque at rpm	2	155 @ 2400			215 @ 2400		340 @ 2400 ●		

- (a) 2-Door Hardtop (23) - 54.3 .
- (b) 2-Door Hardtop (23) - 54.4 .
- (c) Not available with 318 cu in. engine.

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<b>MODEL</b>	VV1		VP1		VP2		
	Std	Power Pak	Std	Std	Commando 361	Commando 383	Commando 426

## ENGINE—GENERAL

Type, no. cyls., valve arr.		6, in-line, OHV, inclined 30°			90° V-8, in-line, OHV		
Bore and stroke (nominal)		3.4 x 3.125	3.4 x 4.125	3.91 x 3.31	4.12 x 3.38	4.25 x 3.38	4.25 x 3.75
Piston displacement, cu. in.		170	225	318	361	383	426
Bore spacing (C/L to C/L)		1-2, 3-4, 5-6: 3.98; 2-3, 4-5: 4.0		4.46	4.80		
No. system (front to rear)	L. Bank	---			1-3-5-7		
	R. Bank	---			2-4-6-8		
Firing order		1-5-3-6-2-4			1-8-4-3-6-5-7-2		
Compras. ratio (nominal)		8.5	8.4	9.0		10.0	10.3
Cylinder Head Material		Cast iron					
Cylinder Block Material		Cast iron					
Cylinder Sleeve—Wet, dry, none		None					
Number of mounting points	Front	Two					
	Rear	One					
Engine installation angle		1.25° left, 3° up		1.1° right, 2.6° up			
Taxable horsepower	Diag. 2 x No. Cyl. / 2.5	27.7		48.9	54.3	57.8	
Published max. bhp* @ eng. RPM		101 @ 4400	145 @ 4000	230 @ 4400	265 @ 4400	330 @ 4600	365 @ 4800
Published max. torque* (lb. ft. @ RPM)		155 @ 2400	215 @ 2400	340 @ 2400	380 @ 2400	425 @ 2800	470 @ 3200
Recommended fuel regular - premium		Regular				Premium	
Idle speed (spec. neutral or drive)	Manual	550 in neutral (b)			500 in neutral		
	Automatic	550 in neutral (b)			500 in neutral		

## ENGINE—PISTONS

Material		Aluminum alloy					
Description and finish		Slipper-type, steel strut, elliptically-turned, tin-plated		(a)	Slipper-type, steel strut, elliptically-turned, tin-plated		
Weight (piston only) oz.		16.4		20.9	25.3	27.1	27.4
Clearance (limits)	Top land	.025 - .030		.029 - .034	.032 - .038		
	Skirt	Top	.0005 - .0015 specified; .00075 - .00125 desired				
		Bottom	---				
Ring groove depth	No. 1 ring	.179	.179	.205	.215	.220	
	No. 2 ring	.179	.179	.205	.215	.220	
	No. 3 ring	.181	.181	.198	.204	.208	
	No. 4 ring	None					

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

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

# AMA Specifications – Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-17-63 REVISED (a) 1-10-64

## POWER TEAMS

(Indicate whether standard or optional)

	MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO (Std. first) * Also available with Sure-Grip differential
		Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM			
VALIANT	Std	170	1, 1-bbl	8.5	101 @ 4400	155 @ 2400	Manual	3-Speed	3.23*, 2.93*, 3.55
								4-Speed	3.23*, 2.93*, 3.55
		Automatic		3.23*, 3.55					
	Opt	225		8.4	145 @ 4000	215 @ 2400	Manual	3-Speed	3.23*, 3.55
			4-Speed				3.23*, 2.93*, 3.55		
	Automatic	2.93*, 3.23*, 3.55							
PLY 6	Std - Except Sta. Wagon	225	1, 1-bbl	8.4	145 @ 2400	215 @ 2400	Manual, 3-Speed		3.31, 3.55, 3.23*
							Automatic		2.93, 3.31, 3.23*, 3.55
	Std - Sta. Wagon			Manual, 3-Speed		3.23*, 3.55			
		Automatic		2.93, 3.23*, 3.55					
PLYMOUTH V-8	Std - All Models	318	1, 2-bbl	9.0	230 @ 4400	340 @ 2400	Manual	3-Speed	2.93, 3.23*, 3.55
							Automatic		2.76*, 3.23*
	Commando 361 All Models	361	265 @ 4400	380 @ 2400	Manual	3-Speed	3.23*, 3.55		
						4-Speed	3.23*, 3.55		
		Automatic		3.23*					
	Commando 383 All Models	383	10.0	330 @ 4600	425 @ 2800	Manual	3-Speed	3.23*	
							4-Speed	3.23*	
		Automatic		3.23*					
Commando 426	426	10.3	365 @ 4800	470 @ 3200	Manual, 4-Speed		3.23*		
					Automatic		3.23*		

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-12-63	REVISED (*)
See Page 2 for Engine Usage						
MODEL	170 Cu In.	225 Cu In.	318 Cu In.	361 Cu In. 383 Cu In.	426 Cu In.	

## 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, type, coating, etc.	#1 - Cast iron, taper twist, tin-plated; #2 - Cast iron, reverse twist, taper face, lubrite coated		Cast iron, standard taper and twist, tin-plated	
	Width	.078			
	Gap	.010 - .020		.013 - .025	
Oil	Description - material, type, coating, etc.	Cast iron, single piece	(a)	Cast iron, single piece	
	Width	.186			
	Gap	.010 - .020		.013 - .025	
Expanders		(b)	None	(b)	(c)

## ENGINE—PISTON PINS

Material		High Manganese Steel			
Length		2.965	2.995	3.565	
Diameter		.9008	.9842	1.094	
Type	Locked in rod, in piston, floating, etc.	Press-fit in rod		Floating	Press-fit in rod
	Bushing	In rod or piston	None		Rod
		Material	--		Bronze on steel
Clearance	In piston	.00045 - .00075		.0000 - .0005	.00045 - .00075
	In rod	.0007 - .0014 interference		.0001 - .0006	.0007 - .0014 interference
Direction & amount offset in piston		Right .06			Right .09

## ENGINE—CONNECTING RODS

Material		Drop-forged steel			
Weight (oz.)		25.7	26.8	25.6	28.6 29.8
Length (center to center)		5.71	6.70	6.12	6.36 6.77
Bearing	Material & Type	Lead-base babbitt on steel, removable, precision		Bi-metal grid	Lead-base babbitt on steel, removable, precision
	Overall length	.985		.843	.927
	Clearance (limits)	.0005 - .0015			
	End play	.006 - .012		.006 - .014	.009 - .017 (2 rods) (2 rods)

- (a) 3-piece; two chrome-plated rails with stainless steel expander-spacer.
- (b) Oil ring only: low-tension, hump type.
- (c) Oil ring only: standard tension, hump type.

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MAKE OF CAR	VALIANT-PLYMOUTH		MODEL YEAR	1964	DATE ISSUED	6-10-63	REVISED (*)	
	See Page 2 for Engine Usage							
MODEL	170 Cu In. 225 Cu In.	318 Cu In.	361 Cu In. 383 Cu In.	426 Cu In.				

## ENGINE—CRANKSHAFT

Material	Drop-forged steel					
Vibration damper type	Non-adhesion, rubber, dynamic					
End thrust taken by bearing (No.)	Three					
Crankshaft end play	.002 - .007					
Main bearing	Material & type		Lead-base babbitt on steel, removable, precision; #3 only - tin-base babbitt on steel			
	Clearance		.0002 - .0022 specified; .0005 - .0015 desired			
	Journal dia. and bearing overall length	No. 1	2.750 x 1.034	2.500 x .872	2.625 x .944	2.750 x 0.944
		No. 2	2.750 x 1.034	2.500 x .872	2.625 x .944	2.750 x 0.944
		No. 3	2.750 x 1.254	2.500 x 1.151	2.625 x 1.221	2.750 x 1.223
		No. 4	2.750 x 1.034	2.500 x .872	2.625 x .944	2.750 x 0.944
		No. 5		2.500 x 1.562	2.625 x .944	2.750 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 side	Center of "V" above crankshaft			
Material	Hardenable cast iron; oil pump and distributor drive gear cast integrally				
Bearings	Material	Lead-base babbitt on steel			
	Number	Four	Five		
Type of Drive	Gear or chain	Chain			
	Crankshaft gear or sprocket material	Malleable cast iron or sintered iron (Super-Oilite)			
	Camshaft gear or sprocket material	Cast iron			
	Timing chain	No. of links	50	68	50
		Width	.88	1.02	.88
Pitch		.50	.38	.50	

## ENGINE—VALVE SYSTEM

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

(Continued)

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MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-10-63 REVISED <sup>(\*)</sup>1-10-64  
 See Page 2 for Engine Usage

<b>MODEL</b>	170 Cu In. 225 Cu In.	318 Cu In.	361 Cu In.	383 Cu In.	426 Cu In.
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## ENGINE—VALVE SYSTEM (cont.)

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

## ENGINE—LUBRICATION SYSTEM

<b>Type of lubrication (splash, pressure, nozzle)</b>	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	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-10-63	REVISED (•)	11-29-63
MODEL	VV1	VP1	VP2				
	170 Cu In. 225 Cu In.	225 Cu In.	318 Cu In.	361 Cu In. 383 Cu In.	426 Cu In.		

## ENGINE—LUBRICATION SYSTEM (cont.)

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

## ENGINE—EXHAUST SYSTEM

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

## ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., Induction system, other)	Standard	Induction system
	Optional	--
Control unit	Make and model	Chicago Screw (a)
	Location	Cylinder head cover outlet
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
Control method (variable orifice, fixed orifice, other)		Variable orifice
Complete system	Discharges (to Intake manifold, carb. air intake, air cleaner Intake, other)	Intake manifold, at or through base of carburetor
	Air inlet (breather cap, carburetor air cleaner, other)	Breather cap
	Flame arrestor (screen, check valve, other)	Check valve

- (a) Part numbers: 170 cu in. engine - 2463553; all other engines - 2463554.  
 (b) VP2 with 383 cu in. engine has dual exhausts, where only the main specs apply.



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MAKE OF CAR <u>VALIANT-PLYMOUTH</u>	MODEL YEAR <u>1964</u>	DATE ISSUED <u>6-10-63</u>	REVISED <u>(*) 11-29-63</u>
	VV1	VP1	VP2
MODEL _____	170 Cu In.	225 Cu In.	225 Cu In.    318 Cu In.    361 Cu In. 383 Cu In.    426 Cu In.

## ENGINE—FUEL SYSTEM

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

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

## CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size	
			Make	Model			
VALIANT	Std 170	Manual	Ball and Ball	BBS-3675 S	1, 1-bbl	1.56	
			Holley	R-2885A			
		Automatic	Ball and Ball	BBS-3676 S			
			Holley	R-2886A			
	Opt 225	Manual	Ball and Ball	BBS-3677 S		1.69	
			Holley	R-2887A			
Automatic	Ball and Ball	BBS-3678 S					
	Holley	R-2888A					
PLYMOUTH 6	Std 225	Manual	Ball and Ball	BBS-3679 S	1, 1-bbl	1.69	
			Holley	R-2889A			
		Automatic	Ball and Ball	BBS-3680 S			
			Holley	R-2890A			
PLYMOUTH V-8	Std 318	Manual	Ball and Ball	BBD-3682 S	1, 2-bbl	1.44	
			Stromberg	WW-3-239			
		Automatic	Ball and Ball	BBD-3683 S			
			Stromberg	WW-3-240			
	Opt 361	All	Ball and Ball	BBD-3684 S		1, 4-bbl	1.56
	Opt 383			AFB-3611 S			
Opt 426	Carter		AFB-3704 S				

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

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MAKE OF CAR	VALIANT, PLYMOUTH		MODEL YEAR	1964	DATE ISSUED	5-17-63		REVISED(*)	
MODEL	VVI		VPI		VP2				
	170 cu in.	225 cu in.	225 cu in.	318 cu in.	361 cu in. 383 cu in.	426 cu in.			

## ENGINE—COOLING SYSTEM

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

- (a) Fin and tube optional.
- (b) With air conditioning: six, 54° - 50° - 76°.
- (c) Four, 76° - 104°.
- (d) With air conditioning: seven, 60° - 45° - 59° - 47° - 54° - 50° - 45°.
- (f) 1.29:1 w/AC.
- (g) With air conditioning - Silent-Flite.

# AMA Specifications – Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-10-63 REVISED(\*)         

## DRIVE BELTS

### LEGEND - PULLEY LOCATIONS:

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

### APPLICATIONS

	VALIANT				PLYMOUTH SIX			PLYMOUTH V-8					
	170 Cu In.		225 Cu In.		225 Cu In.			318 Cu In.		361 Cu In.		383 Cu In. 426 Cu In.	
	w/wo PS	AC w/wo PS	w/wo PS	AC w/wo PS	Std	With PS	AC w/wo PS	w/wo PS	AC w/wo PS	w/wo PS	AC w/wo PS	w/wo PS	AC w/wo PS (a)
CS-FWP-A	A	A	E	E	E	E	E	F	F	H		H	
CS-PS	B	C	B	C		B	C	G	G	I	I	I	I
CS-I-AC-FWP		D		D									
CS-I-AC							D		D				
CS-I-FWP											J		J
CS-AC-A											2K		2K

### DIMENSIONS

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

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

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-10-63	REVISED(*)		
		VV1	VP1	VP2				
MODEL		170 Cu In.	225 Cu In.	225 Cu In.	318 Cu In.	361 Cu In.	383 Cu In.	426 Cu In.

## ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	MoPar						
	Voltage Rtg. & Total Plates	12, 42	12, 54		12, 66	12, 78		
	SAE Designation & Amp Hr. Rtg	9HCO, 38	9HC3, 48		9HC3A, 59	9HC5, 70		
	Location	Left front fender shield						
	Terminal grounded	Negative						
Alternator <del>REGULATOR</del>	Make	Chrysler						
	Model	2098835	2098830 (a)					
	Type	Three-phase, full wave rectifier						
	Ratio—Gen. to Cr/s rev.	2.45 to 1		2.18 to 1	2.32, W/AC	2.44	2.32	
	Gen. cut-in (hot)—engine rpm	Not applicable						
Regulator	Make	Chrysler						
	Model	2098300						
	Type	Voltage control						
	Cutout relay	Closing voltage @ generator rpm	--					
		Reverse current to open	--					
	Regu-lated	Voltage	13.7 to 14.3 @ 70 F					
		Current	--					
	Voltage test con-ditions	Temperature	75°					
		Load	--					
		Other	Run 15-min. at 1250 engine rpm with 15-amp load					

## ELECTRICAL—STARTING SYSTEM

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

(Continued)

(a) 2098850 when the 361 cu in. or 383 cu in. versions with air conditioning are used.

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-10-63	REVISED (e)	
		VVI	VVI, VP1	VP2			
MODEL	170 Cu In.	225	318 Cu In.	361	383	426	
	Man. Auto.	Cu In.	Man. Auto.	Cu In.	Cu In.	Cu In.	

## ELECTRICAL—STARTING SYSTEM (cont.)

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

## ELECTRICAL—IGNITION SYSTEM

Coil	Make	Prestolite or Essex with Chrysler-built resistor						
	Model	200759 or 67-160-4						
	Amps	Engine stopped	3.0					
Engine idling		1.9						
Distributor	Make	Chrysler				Prestolite		
	Model	2444255	2444256	2444254	2444258	2444259	2444261	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	See Page 11A					
		Intermediate points deg. @ rpm	"					
		Max deg. @ rpm	"					
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	"					
		Intermediate points, deg @ in Hg	"					
		Max. deg. in. Hg.	"					
		Breaker gap (in.)	.017 to .023			.014 to .019		
		Cam angle (deg.)	40 to 45			28 to 33		(a)
	Breaker arm tension (oz.)	17 to 20			17 to 21.5		(a)	
Timing	Crankshaft deg. @ rpm.	2.5 BTC @ idle		(b)	10 BTC @ idle			
	Mark location	Water pump housing			Chain case cover			
	Cylinder numbering system (see page 2)	Front to rear			Left: 1-3-5-7 Right: 2-4-6-8			
	Firing order (see page 2)	1-5-3-6-2-4			1-8-4-3-6-5-7-2			
Spark Plug	Make and model	Champion						
		N14Y		J-12Y		J-10Y		
	Thread (mm)	14-mm						
	Tightening torque (lb. ft.)	30 to 32						
	Gap	.035						
Cable	Conductor type	Resistor						
	Insulation type	Synthetic rubber with Neoprene jacket				(c)		
	Spark plug protector	Hypalon			Silicone			

## ELECTRICAL—SUPPRESSION

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

- (a) One set 27° to 32°, both sets 34° to 40°.
- (b) 5° BTC at idle speed.
- (c) Synthetic rubber with Hypalon jacket.

# AMA Specifications – Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-11-63 REVISED (\*)

## SUPPLEMENTARY INFORMATION

### DISTRIBUTOR

#### CENTRIFUGAL ADVANCE (Crankshaft degrees at engine rpm)

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

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

#### VACUUM ADVANCE (Crankshaft degrees at inches of mercury)

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

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

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT, PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	5-17-63	REVISED (e)
MODEL	VV1			VP1, VP2		

## ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	Stewart-Warner	King Seely
	Trip odometer (yes, no)	No	
Charge Indicator—type	Ammeter		
Temperature indicator—type	Electric, Thermal		
Oil pressure indicator—type	Light		
Fuel indicator—type	Electric, Thermal		
Other	None		
Ignition switch	Identify positions in order and circuits controlled	Center position . . . . . Off	
		1st position clockwise . . . . . Ignition and accessory circuit	
		2nd position clockwise . . . . . Starter and ignition circuit	
	Provision for illumination	Yes	None
	Location	Right of steering column	
Main lighting switch	Identify positions and lamps controlled	Full in . . . . . Off	
		1st position out . . . . . Instruments, tail, parking, and license plate lamps	
		Full out . . . . . Instruments, tail, head, and license plate lamps	
Other light switches	Locations and lamps controlled	INSTRUMENT LAMPS: Variable rheostat, concentric with head lamp switch. OIL PRESSURE SWITCH: Engine. DOME LAMP: Integral with head lamp switch. AUTOMATIC DOOR SWITCH: Both front doors. STOP LAMP SWITCH: Brake pedal. DIRECTIONAL SIGNAL SWITCH: Lever on steering column below steering wheel.	
Other switches	Locations and devices controlled	Windshield Wiper - One-speed, left of steering column. Variable speed is optional.	
		<u>Defroster</u> - Push-pull, center instrument panel <u>Air Vent</u> - Push-pull, center instrument panel <u>Heater</u> - Two-speed by turning air vent knob to right, center instrument panel	<u>Defroster control</u> - Push Button, right of steering column <u>Air Vent</u> - Push Button, right of steering column <u>Heater Control</u> - Rotary 3-speed and push-pull knobs right of steering column
		Make Motor Only	Autolite
Windshield wiper	Type	Electric	
	Vacuum booster provision	None	
	Washer provision	Yes, Opt.	
Horn	Type	Sea Shell	
	Number used	Two	
	Amp draw (each)	Sparton Automotive - 6-8 amp., Autolite - 8-10 amp.	

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-11-63	REVISED (*)
MODEL	VVI	VP1, VP2				

## ELECTRICAL—LAMP BULBS NOTE: See Below

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

Headlamps & arrangement	2-6012	Hi-beam 2-4001, Lo-beam 2-4002
Headlamp beam indicator	1-57	
Parking	2-1034 (A)	2-1034A (B)
Tail	2-1034 (C)	4-1034 (D) (a)
Stop	Same as (C)	
Direction signal	Same as (A)	Same as (B)
	Same as (C)	Same as (D)
	Indicator	Indicator
License Plate	1-57	2-57
	1-67	2-67
Oil pressure indicator	1-57	
Charge indicator	Same as (E)	Same as (F)
Instrument	2-57 (E)	5-57 (F)
Clock	NA	
Radio	1-53X*	Same as (F)
		1-1892* or 1-1893*

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

Ignition lock	NA	
Back up	2-1073*	
Dome	1-1004	
Glove compartment	1-1891* (b)	1-1891*
Prkg. brake signal	1-57*	
Luggage compartment	1-1004* (b)	
Underhood	1-1004* (b)	1-1004*
Courtesy	1-90* (G) (c)	
Map	Same as (G)	
Trans. Push Buttons	1-53X*	Same as (F)
Heater Push Buttons	NA	Same as (F)

- (a) Two used on station wagons.
- (b) Dealer installed only.
- (c) Standard on convertible coupes, dealer installed on all other models.

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



# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-17-63	REVISED (a)	1-10-64
	VV1			VP1		VP2	
MODEL	21, 23, 27, 41	45		21, 23, 27, 41	45	21, 23, 27, 41, 43	45

## ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

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

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

## ELECTRICAL—LOCATION OF OUTSIDE LAMPS

	Tail	Lowest							
		Highest	28.2	25.6	23.1	25.3	23.1	25.4	
Height above ground to center of bulb	Stop		Same as tail lamp						
	Backup		21.5	19.8	20.4	13.5	20.4	13.6	
	License, rear		17.6	15.0	25.5	13.8	25.5	13.9	
	Directional	Front		13.5	14.1	14.4	15.5	14.5	15.4
		Rear		Same as tail lamp					
	Headlamp	Inside		--		24.2	25.2	24.3	25.1
		Outside*		23.8	24.4	24.2	25.2	24.3	25.1
Distance from C/L of car to center of bulb	Tail	Inside		--	26.6	--	26.6	--	
		Outside		29.8	27.0	32.2	30.8	32.2	30.8
	Stop		Same as tail lamp						
	Backup		29.7	27.0	7.8	7.9	7.8	7.9	
	License, rear		0		4.7	9.1	4.7	9.1	
	Directional	Front		21.8		26.7			
		Rear		Same as tail lamp					
Headlamp	Inside		--		18.2				
	Outside*		28.0		25.1				

\* If single headlamps are used enter here.

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH		MODEL YEAR	1964	DATE ISSUED	6-17-63	REVISED (a)	
MODEL	VV1		VP1		VP2			
	170 Cu In.	225 Cu In.	225 Cu In.	318 Cu In.	361 Cu In.	383 Cu In.	426 Cu In.	

## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Borg and Beck or Auburn, Dry plate		Borg and Beck, dry plate, Semicentrifugal						
Type pressure plate springs	Coil								
Effective plate pressure (lb.)	1158 (a)	1445 (b)	1640	2350					
No. of clutch driven discs	One								
Clutch facing	Material Woven asbestos								
	Outside & inside dia.		9.12x6.12	9.25 x 6.0	10.0x6.75	10.5 x 6.5			
	Total eff. area (sq.in.)		71.9	77.8	85.5	106.8			
	Thickness		B & B .125, Auburn .114			.125			
	Engagement cushioning method		Flat wave springs						
Release bearing	Type & method of lubrication		Ball bearing, permanently lubricated						
Torsional damping	Methods: springs, friction material		Coil springs and friction washers						

## DRIVE UNITS—TRANSMISSIONS

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

## DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	Std 3, Opt 4	3	Std 3, Opt 4	4						
Synchronous meshing, specify gears	3-speed: 2nd & 3rd; 4-speed: all forward gears									
Shift lever location	Steering column (floor mounted with 4-speed)									
Lubricant	Capacity (pt.)		6 (d)	6	4.5 (e)					
	Type recommended		Automatic Transmission Fluid Type "A", Suffix "A" (c)							
	SAE viscosity number	Summer	(c)							
		Winter	--							
	Extreme cold		--							
Transmission ratios			VV1		VP1	VP2				
			170 Cu In.		225 Cu In.		225cu in.		3-Speed	4-Speed
			3-Speed	4-Speed	3-Speed	4-Speed	3-Speed	318 Cu In.	361cu in. 383cu in.	361 cu in. 383 cu in. 426 cu in.
	In first		3.22	3.09	2.95	3.09	2.95	3.02	2.55	2.66
	In second		1.82	1.92	1.83	1.92	1.83	1.76	1.49	1.91
	In third		1.00	1.40	1.00	1.40	1.00		1.39	
	In fourth		--	1.00	--	1.00	--		1.00	
In reverse		4.15	3.00	3.80	3.00	3.80	3.95	3.34	2.58	

- (a) For Auburn clutch 1115.
- (b) For Auburn clutch 1375.
- (c) Multipurpose Gear Lubricant SAE 90 or SAE 140 may be used in warm climates.
- (d) 4-Speed - 7.0
- (e) 4-Speed - 7.5



# AMA Specifications – Passenger Car

<b>MAKE OF CAR</b>	VALIANT, PLYMOUTH		<b>MODEL YEAR</b>	1964		<b>DATE ISSUED</b>	5-17-63		<b>REVISED (e)</b>	
			VV1	VPI	VP2					
<b>MODEL</b>	170 cu in.	225 cu in.	255 cu in.	318 cu in.	361 cu in.	383 cu in.	426 Cu In. 1, 4-bbl			

## DRIVE UNITS—PROPELLER SHAFT (cont.)

<b>Inter-mediate bearing</b>	Type (plain, anti-friction)	--
	Lubrication (fitting, prepack)	--
<b>Universal joints</b>	Make	Own
	Number used	Two
	Type (ball and trunion, cross, other)	Front - Ball and Trunion Rear - Cross and Roller
	Bearing	Type (plain, 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—REAR AXLE

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

## REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

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

(a) Performance ratio: 3.23. (b) Station Wagons: 3.23. (c) Station Wagons: 8.75. Form Rev. 3-62

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-26-63	REVISED (•)	1-10-64
MODEL	VV1	VP1	21, 23, 27, 41	45	VP2	Std	Opt
						Exc. 45	45
						361cuin.	383cuin.
						426 cu in.	

## DRIVE UNITS—WHEELS

Type & material		Disc, steel						
Rim (size and flange type)	Std.	4.5 J	5.0 K	5.5 K	5.0 K	5.5 K		
	Opt.	--	5.5 K	--	5.5 K	--	5.5 K	
Attachment	Type (bolt or stud)	Stud						
	Circle diameter	4						4.5
	Number and size	Five (a)						Five 1/2 - 20NF

## DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.50 x 13, 2	7.00x14,2	7.50x14,2	7.00x14,2	7.50x14,2	7.00 x 14, 2	7.50x14, 2	
	Type - Nylon, etc.	Rayon							
Rev/mile at 50 mph.		847	803		803		803		
Inflation press.(cold)	Front	24	22		24	22	24	22	
	Rear	24	22	26 (b)	22	26 (b)	22		
Optional tires - size and ply		--							7.50 x 14, 4

## BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		Duo-servo				
Self adjusting (std., opt., N.A.)		Std			NA	
Hydraulic system type (single, dual, etc.)		Single				
Power brake make & type (remote, integral, etc.)		Integral, pedal-assist, vacuum operated				
		(c)	Opt		(g)	
Effective area (sq. in.)*		153.5	195.2	195.2 (d)	234.1	
Gross lining area (sq. in.)**		153.5	195.2	195.2 (d)	234.1	
Swept drum area (sq. in.)***		254.5	314.2	314.2 (d)	380.1	
Percent brake effectiveness—front		60				
Drum	Diameter	Front	9	10	10 (d)	11
		Rear	9	10	10 (d)	11
Type and material		Cast iron, centrifuse, or cast composite				
Wheel cylinder bore	Front	1.00	1.125			
	Rear	.9125	.9375	.9375 (e)	.8125	
Master cylinder bore		1.00				
Available pedal travel		6.2 (f)	Std brakes 7.1, power brakes 4.8			
Line pressure at 100 lb. pedal load		930 (g)	Std brakes 860, power brakes 1100			
Shoe clearance adjustment		No major adjustment required (h)				(h)

(Continued)

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

- (a) 7/16 - 20 NF. (b) 30 lb when fully loaded. (c) Dealer installed.
- (d) Optional 11-inch brakes, effective and gross lining areas are 234.1 sq in. and swept drum area is 380.1 sq in.
- (e) With optional 11-inch brakes .8125. (f) 4.6 with power brakes.
- (g) 1080 with power brakes.
- (h) With manual adjuster on 11-inch brakes, tighten until a slight drag is felt, then back off 10 to 12 notches.

# AMA Specifications—Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-12-63	REVISED (e)
MODEL	VV1	VP1		VP2		
			Std	361 Cu In.	383 Cu In.	426 Cu In.

## BRAKES—SERVICE (cont.)

Bonded or riveted		Bonded				
Material		Molded asbestos				
Brake lining	Front Shoe	Front wheel	7.66 x 2.25 x .19	8.46 x 2.5 x .19	8.46 x 2.5 x .19 (a)	9.31 x 3.0 x .21
		Rear wheel	7.66 x 2.0 x .19	8.46 x 2.5 x .19	8.46 x 2.5 x .19 (b)	9.31 x 2.5 x .20
	Segments per shoe		One			
	Rear Shoe	Material	Molded asbestos			
Front wheel			9.82 x 2.50 x .19	11.06 x 2.5 x .19	11.06 x 2.5 x .19 (c)	11.97 x 3.0 x .21
Rear wheel		9.82 x 2.0 x .19	11.06 x 2.5 x .19	11.06 x 2.5 x .19 (d)	11.97 x 2.5 x .21	
Segments per shoe		One				

## BRAKES—PARKING

Type of control	(e)	Foot-operated pedal, hand-release lever
Location of control	(f)	Through left end of instrument panel
Operates on		Rear wheels
If separate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

## FRAME or UNITIZED CONSTRUCTION

Type and description	Unit construction
----------------------	-------------------

## SUSPENSION—GENERAL

Provision for car leveling	Manual adjustment at torsion bar anchor bolt	
Provision for brake dip control	By inclined upper control arms and asymmetrical rear springs	
Provision for acc. squat control	Asymmetrical rear springs	
Special provisions for car jacking	None	
Shock absorber front & rear	Type	Direct
	Make	Own
	Piston dia.	1.0      1.0, Opt for rear 1-3/8
Other special features	--	

## SUSPENSION—FRONT

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

- (a) With opt. brakes: 9.31 x 3.0 x .21
- (b) With opt. brakes: 9.31 x 2.5 x .20
- (c) With opt. brakes: 11.97 x 3.0 x .21
- (d) With opt. brakes: 11.97 x 2.5 x .21
- (e) T-Handle
- (f) Under left end of instrument panel

(Continued)

# AMA Specifications – Passenger Cars

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-11-63 REVISED(\*)

	VV1	VP1		VP2
MODEL		Exc. 45	45	

## SUSPENSION FRONT (cont.)

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

## STEERING

Manual (std., opt., NA)		Std		
Power (std., opt., NA)		Opt		
Adjustable steering wheel (tilt, swing, other)	Type and description	None		
	(std., opt., NA)	--		
Wheel diameter	Manual	16.0 x 16.4 oval	16.0 x 17.0 oval	
	Power	16.0 x 16.4 oval	16.0 x 17.0 oval	
Turning diameter	Outside front	Wall to wall (l. & r.)	39.7	43.7
		Curb to curb (l. & r.)	37.1	40.8
	Inside rear	Wall to wall (l. & r.)	21.5	23.9
		Curb to curb (l. & r.)	22.0	24.6
Outside wheel angle with inside wheel at 20°		17.5°	17.8°	

Manual	Gear	Type	Worm and ball nut		
		Make	Own		
		Ratios	Gear	24.0 to 1	
			Overall	28.7 to 1	
	No. wheel turns		5.3		
Power	Type (coaxial, linkage, etc.)		Integral		
	Make		Own		
	Gear	Type	Rack and sector		
		Ratios	Gear	15.7 to 1	
			Overall	18.8 to 1	
	Pump driven by		Belt from crankshaft pulley		
	Number wheel turns		3.5		
Linkage	Type		Trailing, parallel idler arms, equal-length tie rods		
	Location (front or rear of wheels, other)		Rear		
	Drag link (trans. or longit.)		Transverse center link		
	Tie rods (one or two)		Two		

(Continued)

# AMA Specifications – Passenger Car

<b>MAKE OF CAR</b> VALIANT-PLYMOUTH	<b>MODEL YEAR</b> 1964	<b>DATE ISSUED</b> 6-17-63	<b>REVISED</b> (a) 1-10-64
	VV1	VP1	VP2
<b>MODEL</b>	21, 23 27, 41	45	21, 23 41, 43
		21, 23 41	45
			27
			45

## STEERING (cont.)

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

## SUSPENSION—REAR

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

- (a) Maximum differential, left to right side - 0.75°; driver's side less positive.
- (b) Includes tires.
- (c) Checking load at - 0.375" opening.
- (d) 5 with 225 cu in. engine.
- (e) 5.5 with opt 361 and 383 cu in. engines, 5.5 with 426 cu in. engine; spring rate 112.
- (f) 3 @ 2.50, 4 @ 3.50.
- (g) For 6.5-leaf springs, plastic at front and wax-impregnated fabric at rear.
- (h) Right side 880, left side 920.



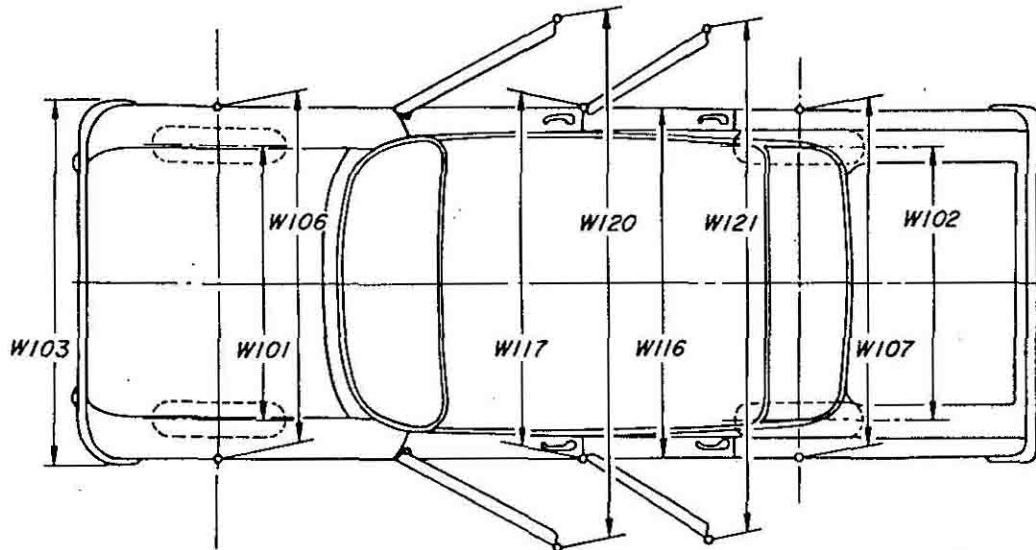
MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-11-63 REVISED (\*)

## CAR AND BODY DIMENSIONS—GENERAL

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

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

## EXTERIOR WIDTH DIMENSIONS

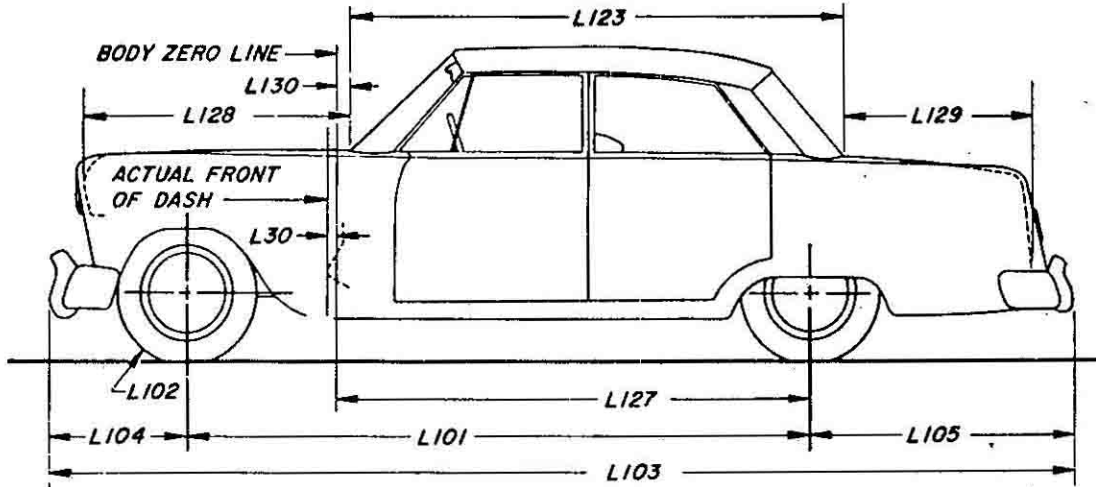


MODEL	Ref. No.	VV1			VP1, VP2		
		21, 23, 27	41	45	21, 23, 27	41, 43	45
Tread - front	W101	55.9			59.5		
Tread - rear	W102	55.6			59.6		
Maximum overall car width	W103	70.1			75.6	75.1	
Maximum overall body width	W116	67.8			73.6		
Maximum body width at #2 pillar	W117	67.8			73.6		
Front fender overall width	W106	69.0			74.1		
Rear fender overall width	W107	69.8		68.8	74.8		74.6
Maximum overall car width - front doors open	W120	150.5	139.2		159.2	142.2	
Maximum overall car width - rear doors open	W121	--	127.5		--	139.5	

# AMA Specifications – Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-17-63 REVISED(\*)        

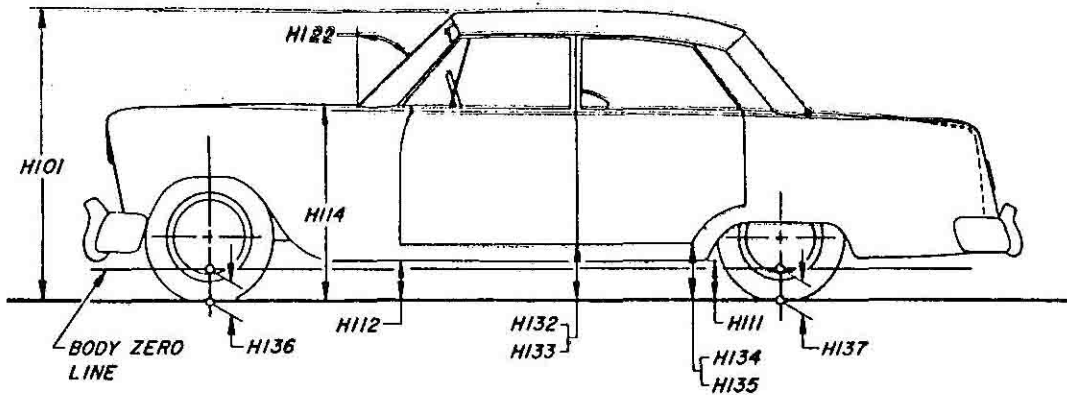
## EXTERIOR LENGTH DIMENSIONS



MODEL	Ref. No.	VV1		VP1, VP2		
		21, 23, 27, 41	45	21, 27, 41, 43	23	45
Body zero line to actual front of dash	L30	0.48		2.0		
Wheelbase	L101	106.0		116.0		
Overhang - front	L104	33.0		36.1		
Overhang - rear	L105	49.2	49.8	54.4	59.4	
Overall length	L103	188.2	188.8	206.5	211.5	
Hood length at car centerline	L128	46.6		53.9		
Body upper structure length at car centerline	L123	96.8	--	99.2	98.0	--
Deck length at car centerline	L129	31.1	--	39.4	40.6	--
Body zero line to centerline of rear wheels	L127	94.2		99.5		
Body zero line to windshield cowl point	L130	11.2		9.0		
Tire size	L102	6.50 x 13, 2-ply		7.00 x 14		7.50 x 14
				2-ply		

# AMA Specifications— Passenger Car

**MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-17-63 REVISED (•) 1-10-64**  
**EXTERIOR HEIGHT DIMENSIONS**



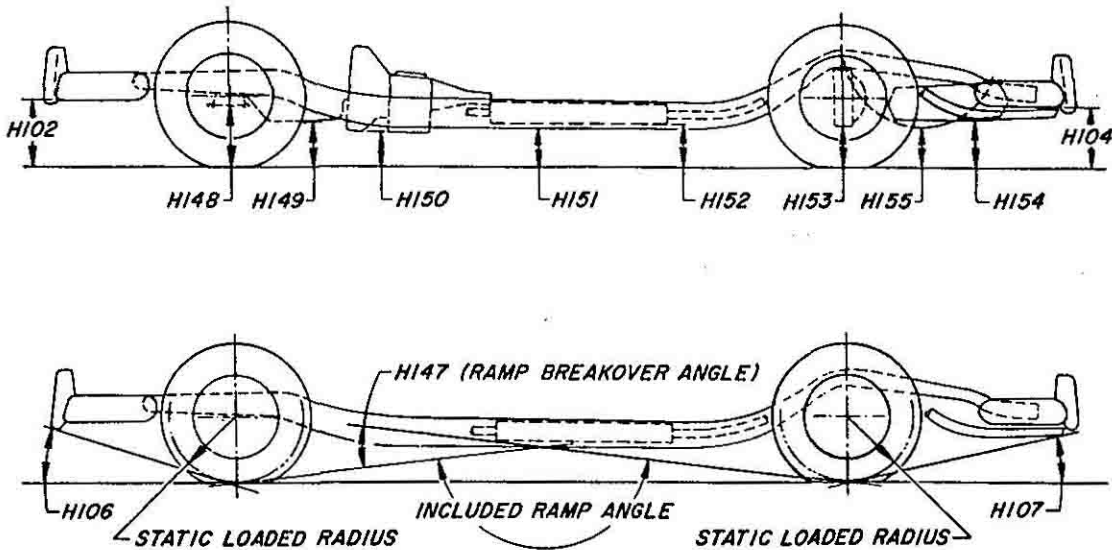
MODEL	Ref. No.	VV1			VP1			VP2			
		21, 23, 41	27	45	21, 41	23	45	21, 41, 43	23	27	45
Overall height	H101	53.5	54.0	52.9	55.0	54.3	55.1	55.1	54.4	55.3	55.1 ●
Hood at rear to ground	H114	36.8		37.0	37.6		38.2	37.6		38.1 ●	
Rocker panel to ground - front	H112	7.4		7.5	8.2		8.7	8.2		8.6	
Rocker panel to ground - rear	H111	7.0		6.4	7.7		7.6	7.7		7.6 ●	
Bottom of door to ground, open - front	H132	12.8		12.6	12.7		12.9	12.7		12.9 ●	
Bottom of door to ground, closed - front	H133	11.7		11.4	11.8 <sup>(a)</sup>	11.7	11.9	11.8		11.9 ●	
Bottom of door to ground, open - rear	H134	11.9	--	11.4	12.2	--	12.2		--	12.2 ●	
Bottom of door to ground, closed - rear	H135	11.6		11.1	11.9		11.5	11.6		11.5 ●	
Windshield slope angle	H122	53°			53.5°						
Body zero to ground - front	H136	11.70		12.07	12.57		13.33	12.64		13.25 ●	
Body zero to ground - rear	H137	11.11		10.43	11.68		11.45	11.68		11.44 ●	

(a) 2-door sedan - 11.7.

# AMA Specifications—Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-17-63 REVISED(•) 1-10-64

## GROUND CLEARANCE DIMENSIONS

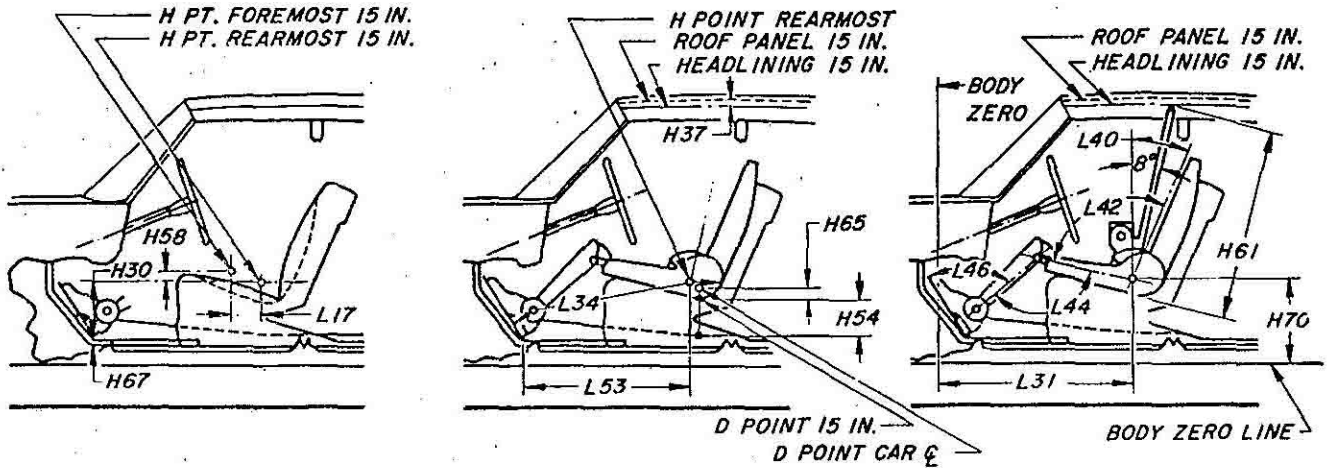


MODEL	Ref. No.	VV1		VP1		VP2	
		Exc. 45	45	Exc. 45	45	Exc. 45	45
Front bumper to ground	H102	14.4	15.1	11.7	12.9	11.8	12.8 ●
Rear bumper to ground	H104	15.1	12.5	11.7	10.0	11.7	10.1 ●
Angle of approach	H106	22.5°	23.8°	22.3°	24.5°	22.6°	24.3° ●
Angle of departure	H107	13.6°	9.9°	12.9°	10.6°	12.9°	10.6° ●
Ramp breakover angle	H147	12.8°	11.4°	12.2°	13.2°	12.2°	13.2° ●
Front suspension to ground	H148	6.2	6.5	6.7	7.4	6.8	7.4 ●
Oil pan to ground	H149	5.6	5.8	6.0	6.6	6.1	6.5 ●
Flywheel housing to ground	H150	5.9	6.2	6.8	7.4	6.4	6.8 ●
Frame structure to ground	H151	5.5	5.6	6.3	6.7	6.3	6.7 ●
Exhaust system to ground	H152	5.5		5.3	5.1	5.3	5.1 ●
Rear axle differential to ground	H153	6.8	6.5	6.9	7.0	6.8	7.0 ●
Fuel tank to ground	H154	6.4	5.6	7.2	11.1	7.2	11.1 ●
Spare tire well to ground	H155	10.7	9.7	Not applicable			
Minimum running ground clearance	H156	5.5		5.3	5.1	5.3	5.1 ●

# AMA Specifications—Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-19-63 REVISED (\*)

## FRONT COMPARTMENT DIMENSIONS

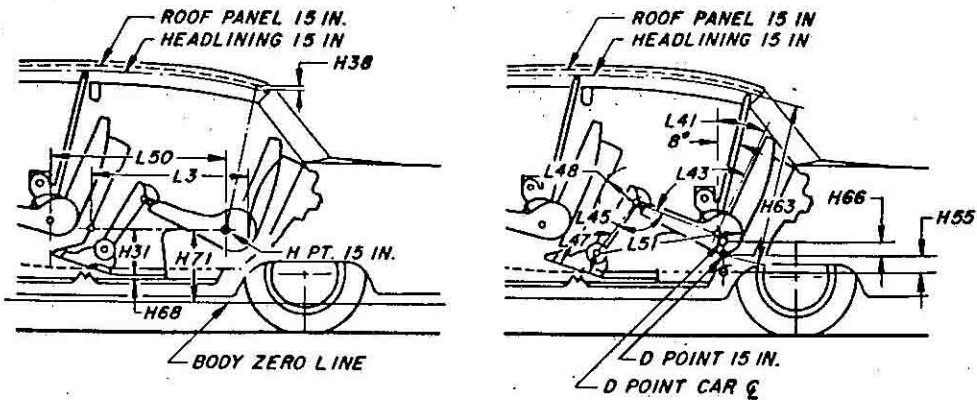


MODEL	Ref. No.	VV1					VP1, VP2					
		L, H		P			L, M, H			P		
		21, 41	27	45	23	27	21, 41, 43	23	27	45	23	27
H Point to body zero line	L31	42.8		43.8			44.5			44.7		
H Point to body zero line - front	H70	7.1		7.0			7.0			7.3		
Effective head room	H61	38.2	39.6	38.2	38.3	39.9	39.1	38.3	40.2	39.5	38.0	39.9
Headlining to roof height	H37	0.7	0	0.7	0		0.8	0	0.5	0.8	0	
Maximum effective leg room - accelerator	L34	39.9		40.9			41.9			42.1		
H Point to heel point	H30	8.5		8.4			8.1			8.4		
Depressed floor covering thickness	H67	0.38										
Back angle	L40	24°		22°			25°			24°		
Hip angle	L42	90°		94°			96°					
Knee angle	L44	116°		126°			128°			130°		
Foot angle	L46	76°		82°			89°			90°		
D Point differential, side to center	H65	0.6		0.6			0.6					
D Point to tunnel	H54	1.5		1.5			1.8					
H Point to accelerator floor point	L53	32.5		33.5			34.2			34.4		
H Point travel	L17	4.5										
H Point rise	H58	1.2		0.7			1.2			0.7		

# AMA Specifications – Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-19-63 REVISED(\*)

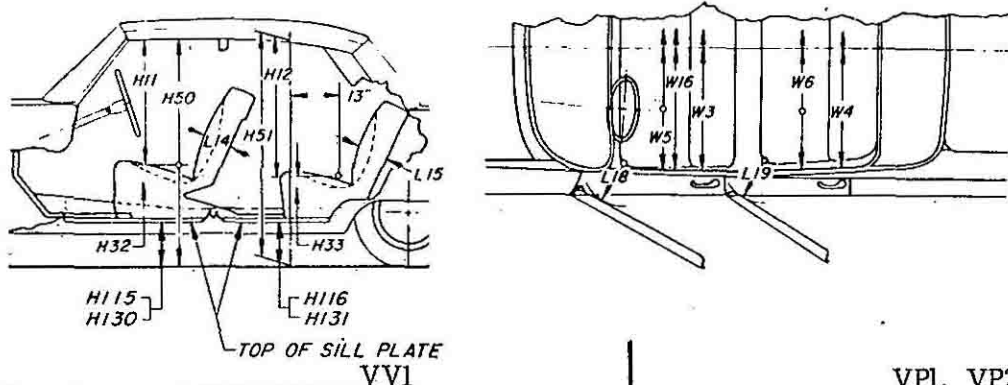
## REAR COMPARTMENT DIMENSIONS



MODEL	Ref. No.	VV1					VP1, VP2					
		L, H			P		L, M, H			P		
		21, 41	27	45	23	27	21, 41, 43	23	27	45	23	27
H Point couple distance	L50	32.7			31.7		34.0	32.0	32.8	34.0	31.8	32.6
H Point to body zero line - rear	H71	7.8					7.2	6.9	7.2		6.9	7.2
Effective head room	H63	37.2	37.6		37.2	37.8	38.4	37.5	37.9	39.5	37.5	37.9
Headlining to roof height	H38	0.8	0	0.8	0		0.8	0	0.5	0.8	0	
Minimum effective leg room	L51	35.0			34.8		36.6	34.4	35.3	36.5	34.8	35.7
H Point to heel point	H31	11.6					11.0	10.7	11.0		8.4	
Depressed floor covering thickness	H68	0.38										
Minimum knee room	L48	4.0			3.2		4.4	2.8	3.4	4.4	3.3	3.8
Rear compartment room	L3	27.6	27.3		27.6		27.6	26.1	26.8	27.8		
Back angle	L41	24°					26°	24°	25°	24°		25°
Hip angle	L43	85°			86°		89°	83°	86°	87°	83°	89°
Knee angle	L45	90°			87°		97°	87°	91°	97°	89°	97°
Foot angle	L47	113°					121°	115°	117°	121°	115°	117°
D Point differential, side to center	H66	0.5					0.6	0.8	0.6	0	0.8	0.6
D Point to tunnel	H55	1.6					1.5	1.3	1.4	1.6		

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-17-63 REVISED (a) 1-10-64

## SEAT AND ENTRANCE DIMENSIONS



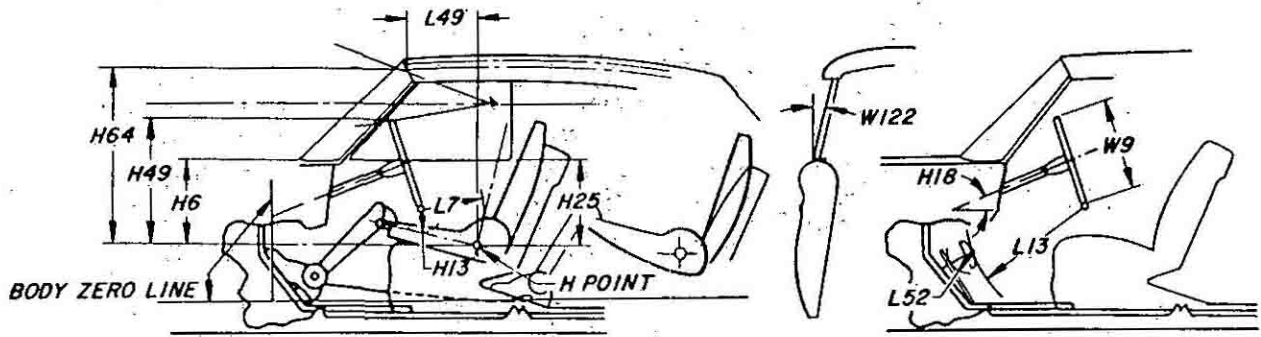
	Ref. No.	VVI					VPI, VP2					
		L, H			P		L, M, H			P		
		21, 41	27	45	23	27	21, 41, 43	23	27	45	23	27
Shoulder room - front	W3	54.2					57.5					
Hip room - front	W5	56.9					60.8					
Seat width - front	W16	52.0			23.6		55.0			23.6		
Upper body opening to ground - front	H50	49.0	--	48.8	49.1	--	49.7	49.5	--	49.9	49.6	-- ●
Entrance height - front	H11	30.5	--	30.5	30.7	--	30.6	30.4	--	30.6	30.2	--
Step height - front (design load)	H115	12.5		12.6	12.5		12.5			13.0	12.5 ●	
Step height - front (curb load)	H130	14.3		14.4	14.3		14.4			14.6	14.3 ●	
Entrance foot clearance - front	L18	13.7			14.8		16.3					
Seat cushion deflection - front	H32	4.1			3.9							
Seat back thickness - front	L14	5.5			6.5							
Shoulder room - rear	W4	54.4				57.8		47.9		57.8		47.9
Hip room - rear	W6	57.0	46.4	57.0		46.4	61.0		50.0		61.0	50.0
Upper body opening to ground - rear	H51	46.6	--	46.2	--	47.4		--		47.5		-- ●
Entrance height - rear	H12	27.5	--	27.5	--	28.3	28.0	--	28.3	28.9	--	
Step height - rear (design load)	H116	12.1		11.5	12.1		12.3			12.4	12.3 ●	
Step height - rear (curb load)	H131	14.7	--	15.0	--	14.4	--		15.0		-- ●	
Entrance foot clearance - rear	L19	11.0	8.0	11.0	7.4	12.4	7.6		12.4		7.6 ●	
Seat cushion deflection - rear	H33	4.3			4.2		4.3	4.2	4.0			
Seat back thickness - rear	L15	5.6		5.0	5.6		8.0	7.3	5.7	5.5		7.3 5.7

(a) VP2 12.9; (b) VP2 14.8; (c) VP2 47.5; (d) VP2 12.3;  
 (e) 2-Dr. Sedan 8.0; (f) 2-Dr. Sedan 7.6

# AMA Specifications – Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 6-11-63 REVISED(a)

## VISION AND CONTROL DIMENSIONS



MODEL	Ref. No.	VV1		VP1, VP2	
		L, H	P	L, M, H	P
H Point to windshield bottom DLO	H6	19.3		18.7	
H Point to windshield upper DLO	H64	31.1		32.2 (a)	
H Point to windshield upper DLO	L49	15.3		15.0	
Belt height - front	H25	16.8		17.0	16.7
Steering wheel center to centerline of car	W7	13.7		15.8	
Steering wheel maximum outside diameter	W9	16.4		17.0	
Steering column angle - horizontal	H18	Manual: 3.3° Power: 3.1°		Manual: 3.2° Power: 3.1°	
H Point to top of steering wheel	H49	22.8	23.0	23.3	23.0
Steering wheel torso clearance	L7	10.0		11.1	
Steering wheel thigh clearance	H13	3.1		3.9	3.7
Brake pedal knee clearance	L13	24.7			
Brake pedal to accelerator	L52	2.5		3.6	
Tumble-home	W122	12.5°		14.0°	

(a) Models 21 and 41 - 32.1.



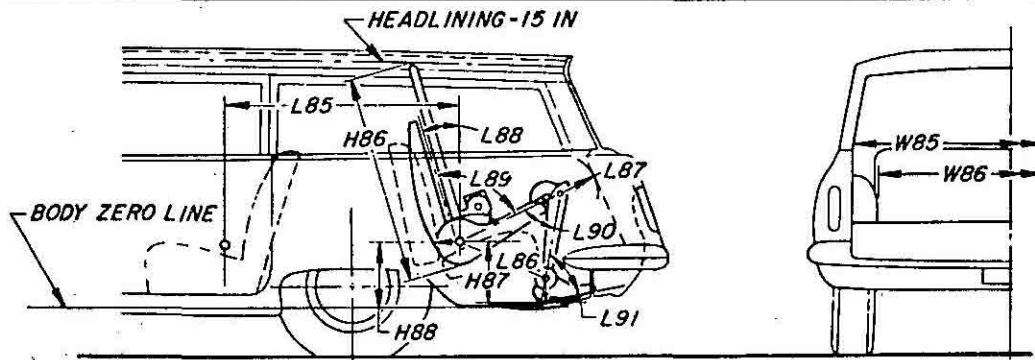
# AMA Specifications – Passenger Car

**MAKE OF CAR** VALIANT-PLYMOUTH **MODEL YEAR** 1964 **DATE ISSUED** 6-12-63 **REVISED(•)** 1-10-64

## LUGGAGE COMPARTMENT

MODEL	Ref. No.	VV1		VP1	VP2	
		21, 23, 41	27		21, 23, 41, 43	27
Usable luggage capacity (See instructions)		14.1	11.6	16.7	NA	
Liftover height	H195	24.6		26.9		
Position of spare tire storage		In well		Inclined against kick-up on right side		
Method of holding lid open		Torsion bar				

## THIRD SEAT DIMENSIONS

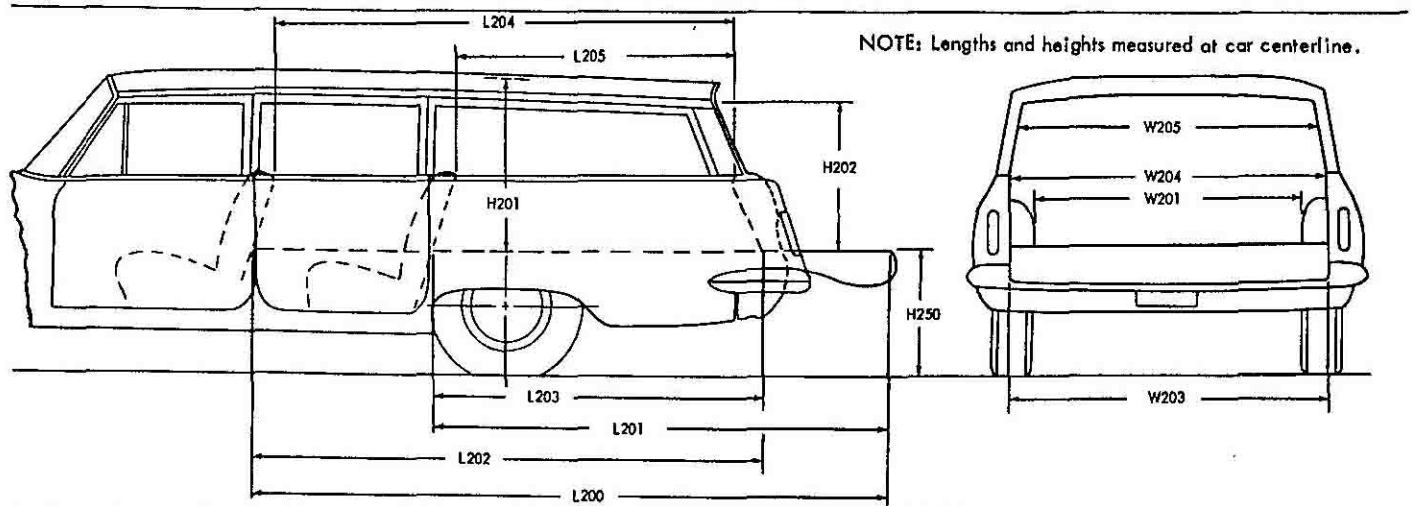


MODEL	Ref. No.	VP1, VP2
Seat facing direction		Rear
Shoulder room	W85	59.0
Hip room	W86	45.2
H Point couple distance	L85	37.0
H Point to body zero line - third seat	H88	10.0
Effective head room	H86	35.3
Effective leg room	L86	32.5
H Point to heel point	H87	13.2
Knee room	L87	12.0
Back angle	L88	28°
Hip angle	L89	90°
Knee angle	L90	79°
Foot angle	L91	99°

# AMA Specifications—Passenger Car

MAKE OF CAR VALIANT-PLYMOUTH MODEL YEAR 1964 DATE ISSUED 5-17-63 REVISED<sup>(a)</sup> 1-10-64

## STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Ref. No.	VV1	VP1, VP2
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	105.3	117.9
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	74.9	83.2
Floor length from back of front seat at floor level to inside of closed tail gate	L202	83.8	94.3
Floor length from back of second seat at floor level to inside of closed tail gate	L203	51.8	56.6
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	71.4	81.6
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	38.6	45.7
Maximum width of cargo space at floor - specify location	W200a	52.6 (a)	59.4 (a)
Minimum distance between wheel houses at floor level	W201	43.5	45.0
Rear end opening width at floor	W203	44.3	49.0
Rear end opening width at belt	W204	43.3	45.7
Maximum width of rear opening above belt	W205	42.8	44.9
Maximum height - floor covering to headlining at centerline of rear axle	H201	30.4	33.1
Maximum height of rear opening - tail and lift gates open	H202	26.1	27.3
Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight	H250	26.4	30.3
Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)		Sliding glass, drop tail gate	
Cargo volume index (cu. ft.) W4 x L204 x H201		68.3	90.3

(a) Immediately forward of wheelhouse.

# AMA Specifications – Passenger Car

MAKE OF CAR	VALIANT-PLYMOUTH	MODEL YEAR	1964	DATE ISSUED	6-12-63	REVISED	(*)				
	VV1	VP1, VP2									
MODEL	21	23	27	41	45	21	23	27	41	43	45

## BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front										
	Rear doors	Front										
Type of finish (lacquer, enamel, other)		Synthetic enamel										
Hood counterbalanced (yes, no)		Rear										
Hood release control (internal, external)		External										
Vehicle (Serial) No. Location		Left front door hinge post										
Engine No. Location		Not applicable										
Theft protection - type		Ignition key start, ignition switch terminal block, door locks										
Vent window control method (crank, friction pivot)	Front	Friction pivot										
	Rear	None										
Seat cushion type	Front	(a)	(b)	(a)(d)	(a)	(a)	(a)	(a)(e)	(a)(e)	(a)	(a)	(a)
	Rear	(a)	(a)	(c)	(a)	(a)	(a)	(c)(i)	(c)(i)	(a)	(a)	(a)
	3rd seat	-	-	-	-	-	-	-	-	-	-	(b)
Seat back type	Front	(a)	(b)	(a)(d)	(a)	(a)	(c)	(c)(e)	(c)(e)	(a)	(a)	(a)
	Rear	(a)	(a)(f)	(c)	(a)	(c)	(a)	(c)	(c)	(a)	(a)	(c)
	3rd seat	-	-	-	-	-	-	-	-	-	-	(c)
Windshield glass type (i.e., single curved - laminated plate)		Single, curved, laminated										
Backlight glass type (i.e., compound curved - tempered plate, three piece) (g)		1-piece, curved	Plas-tic	1-pc, curve	1-pc, flat	1-piece, curved	Plas-tic	1-piece, curved				
Side glass type (i.e., curved - tempered plate)		Flat, heat treated safety sheet										
Side glass exposed surface area		1303	1344	1196	1223	2345	1209	1263	1149	1248	1227	2394
Windshield glass exposed surface area		995					1304					
Backlight glass exposed surface area		970		1000	970	612	1023	1275	1140	1023		691
Total glass exposed surface area		3268	3309	3191	3188	3952	3536	3842	3593	3575	3554	4389

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

		VV1-L VV1-H VV1-P VP1-L VP1-M VP1-H VP2-L VP2-M VP2-H VP2-P										
Power windows	Side Windows	NA										
	Vent Windows	NA										
	Backlight or tailgate	Opt	--	Opt(h)	--	Opt (h)				--		
Power seats (specify type as well as availability)		NA									Opt, Elect.	NA
Reclining front seat back		NA										
Front seat headrest		NA										
Radios (specify type as well as availability)		Opt, 2-watt	All Optional 2-watt and AM-FM									
Rear seat speaker		Opt (dealer installed) all sedans and hardtops										
Power Antenna		NA										
Clock		NA	Opt	Std	Opt	Std						
Air Conditioner (specify type and availability)		Opt, Recirculating	Opt - Heater & air conditioner combined-factory installed, recirculating - dealer installed									

- (a) Formed wire. (b) Zigzag. (c) Coil. (d) Signet 200 Zigzag. (e) Sport Fury Zigzag.  
 (f) Signet 200 coil. (g) All curved glass is heat treated curved safety sheet; Valiant tail gate is heat treated safety sheet. (h) Station wagons only; standard for 9-passenger versions.  
 (i) Sport Fury - formed wire.

# AMA Specifications – Passenger Car

MAKE OF CAR VALIANT - PLYMOUTH MODEL YEAR 1964 DATE ISSUED 1-10-64 REVISED (\*)

## WEIGHTS

		CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
		Front	Rear	Total	Pass. In Front		Pass. In Rear		
					Front	Rear	Front	Rear	
<b>VALIANT SIX</b>									
Model	V-100	VVI-L							
2-Door Sedan	21	1470	1200	2670	50.5	49.5	19.8	80.2	2540
4-Door Sedan	41	1480	1215	2695	50.5	49.5	19.8	80.2	2575
Station Wagon	45	1460	1410	2870	50.5	49.5	19.8	80.2	2725
<b>V-200 VVI-H</b>									
2-Door Sedan	21	1475	1215	2690	50.5	49.5	19.8	80.2	2545
Convertible Coupe	27	1535	1270	2805	50.5	49.5	19.8	80.2	2670
4-Door Sedan	41	1485	1230	2715	50.5	49.5	19.8	80.2	2570
Station Wagon	45	1460	1410	2870	50.5	49.5	19.8	80.2	2730
<b>SIGNET 200 VVI-P</b>									
2-Door Hardtop	23	1520	1240	2760	49.8	50.2	19.8	80.2	2600
Convertible Coupe	27	1570	1290	2860	49.8	50.2	19.8	80.2	2690
<b>PLYMOUTH SIX</b>									
<b>SAVOY VPI-L</b>									
2-Door Sedan	21	1665	1530	3195	50.6	49.4	20.7	79.3	2990
4-Door Sedan	41	1680	1545	3225	50.6	49.4	19.3	80.7	3040
Station Wagon, 6-Pass	45	1615	1915	3530	50.6	49.4	19.3	80.7	3345
Station Wagon, 9-Pass	45	1615	1980	3595	50.6	49.4	19.3	80.7	3400
<b>BELVEDERE VPI-M</b>									
2-Door Sedan	21	<i>same as B 704</i>							3000
2-Door Hardtop	23	1670	1525	3195	50.6	49.4	20.7	79.3	3010
4-Door Sedan	41	1680	1550	3230	50.6	49.4	19.3	80.7	3065
<b>FURY VPI-H</b>									
2-Door Hardtop	23	<i>same as B 704</i>							3040
4-Door Sedan	41	"	"						3045
<b>Accessories &amp; Equipment Differential Weights</b>					<b>Remarks</b>				
Automatic Transmission	+ 20	+ 5	+ 25		Valiant only.				
Power Steering	+ 45	- 5	+ 40		Valiant only.				
Radio	+ 5	0	+ 5		Valiant only.				
Heater	+ 20	0	+ 20		Valiant only.				
Undercoat	+ 20	+ 25	+ 45		Valiant only.				
Air Conditioner	+ 90	- 5	+ 85		Valiant only.				
225 cu in. Engine	+ 15	0	+ 15		Valiant only.				
225 cu in. Engine	+ 40	+ 5	+ 45		Valiant with automatic transmission only.				
225 cu in. Engine	+ 80	+ 15	+ 95		Valiant with 4-speed manual trans. only.				
<hr/>									
Automatic Transmission	+ 15	+ 5	+ 20		Plymouth only.				
Power Steering	+ 40	0	+ 40		Plymouth only.				
Power Brakes	+ 10	0	+ 10		Plymouth only.				
Power Seats	+ 20	+ 15	+ 35		Plymouth only.				
Radio	+ 5	0	+ 5		Plymouth only.				
Heater	+ 25	+ 5	+ 30		Plymouth only.				
Undercoat	+ 20	+ 35	+ 55		Plymouth only.				
Power Windows	+ 10	+ 15	+ 25		Plymouth only.				
Air Conditioner	+100	0	+100		Plymouth only.				
Sure-Grip Differential	+ 15	0	+ 15		Plymouth only.				
Electric Tail Gate Window	- 5	+ 15	+ 10		Plymouth Station Wagon only.				

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

# AMA Specifications – Passenger Car

**MAKE OF CAR** VALIANT-PLYMOUTH **MODEL YEAR** 1964 **DATE ISSUED** 1-10-64 **REVISED** (\*)

## WEIGHTS

	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
<b>PLYMOUTH V-8</b>								
Model SAVOY VP2-L								
2-Door Sedan 21								3205
4-Door Sedan 41	1855	1565	3420	50.6	49.4	19.3	80.7	3210
Station Wagon, 6-Pass 45	1785	1940	3725	50.6	49.4	19.3	80.7	3495
Station Wagon, 9-Pass 45	1785	2015	3800	50.6	49.4	19.3	80.7	3600
<b>BELVEDERE VP2-M</b>								
2-Door Sedan 21								3210
2-Door Hardtop 23	1845	1550	3395	50.6	49.4	20.7	79.3	3190
4-Door Sedan 41	1855	1570	3425	50.6	49.4	19.3	80.7	3225
Station Wagon, 6-Pass 45	1785	1945	3730	50.6	49.4	19.3	80.7	3510
Station Wagon, 9-Pass 45	1785	2015	3800	50.6	49.4	19.3	80.7	3605
<b>FURY VP2-H</b>								
2-Door Hardtop 23	1845	1565	3410	50.6	49.4	20.7	79.3	3215
Convertible Coupe 27	1880	1630	3510	50.6	49.4	19.8	80.2	3345
4-Door Sedan 41	1860	1585	3445	50.6	49.4	19.3	80.7	3230
4-Door Hardtop 43	1875	1615	3490	50.6	49.4	19.3	80.7	3300
Station Wagon, 6-Pass 45	1795	1955	3750	50.6	49.4	19.3	80.7	3530
Station Wagon, 9-Pass 45								3630
<b>SPORT FURY VP2-P</b>								
2-Door Hardtop 23	1870	1600	3470	50.6	49.4	20.7	79.3	3270
Convertible Coupe 27	1900	1670	3570	50.6	49.4	19.8	80.2	3405
Accessories & Equipment Differential Weights				Remarks				
Automatic Transmission	-15	+ 5	-10					
Radio	+ 5	0	+ 5					
Heater	+25	+ 5	+30					
Power Steering	+35	0	+35					
Power Brakes	+10	0	+10					
Power Seats	+20	+15	+35					
Power Windows	+10	+15	+25					
Undercoat	+20	+35	+55					
Air Conditioner	+125	- 5	+120					
Sure-Grip Differential	0	+ 5	+ 5					
Tail Gate Window, Electrical	- 5	+15	+10					Station Wagon only.

## DIMENSION DEFINITIONS

- W3 SHOULDER ROOM - FRONT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W4 SHOULDER ROOM - REAR. Measured in the same manner as W3.
- W5 HIP ROOM - FRONT. The lateral dimension through H Point to trimmed surfaces.
- W6 HIP ROOM - REAR. Measured in the same manner as W5.
- W7 STEERING WHEEL CENTER TO CENTERLINE OF CAR. Measured horizontally from steering wheel center to centerline of car. The point at steering wheel center is located in the surface plane of wheel.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- W16 SEAT WIDTH - FRONT. The maximum trimmed width of front seat cushion.
- W85 SHOULDER ROOM - THIRD SEAT. Measured in the same manner as W3.
- W86 HIP ROOM - THIRD SEAT. Measured in the same manner as W5.
- W101 TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions.
- W106 FRONT FENDER OVERALL WIDTH. Measured at centerline of front wheels, excluding moldings.
- W107 REAR FENDER OVERALL WIDTH. Measured at centerline of rear wheels, excluding moldings.
- W116 MAXIMUM OVERALL BODY WIDTH. Measured across body, excluding hardware and applied moldings, but including fenders when integral with body.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.
- W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN. Measured with front doors in maximum hold-open position.
- W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN. Measured in same manner as W120.
- W122 TUMBLE-HOME. The angle from vertical to the front door glass outer surface or the chord of a curved door glass, measured at the front H Point station.
- L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at a height tangent to the top of rear seat cushion.
- L7 STEERING WHEEL TORSO CLEARANCE. The minimum distance from the back edge of steering wheel, in straight-ahead position, to the Torso Line.
- L13 BRAKE PEDAL KNEE CLEARANCE. The minimum dimension from the lower edge of the steering wheel to the brake pedal face centerline.
- L14 SEAT BACK THICKNESS - FRONT. The maximum thickness of the seat back, excluding bolsters.
- L15 SEAT BACK THICKNESS - REAR. Measured in the same manner as L14.
- L17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.
- L18 ENTRANCE FOOT CLEARANCE - FRONT. The minimum horizontal dimension between seat and normal line of door or pillar at a height between the sill plate bead and 4.0 inches above the bead. Door should be in the maximum hold-open position.
- L19 ENTRANCE FOOT CLEARANCE - REAR. Measured in the same manner as L18 on four-door models. On two-door styles, the minimum dimension between rear corner of front seat, with front seat back tilted forward, and trimmed lock pillar, built-in quarter armrest panel, or rear seat cushion at a height between the sill plate bead and 4.0 inches above the bead.
- L30 BODY ZERO LINE TO ACTUAL FRONT OF DASH. If actual front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L31 H POINT TO BODY ZERO LINE - FRONT. Horizontal dimension.
- L34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the right foot on accelerator pedal.
- L40 BACK ANGLE - FRONT. The angle between a vertical line through the H Point and the Torso Line.
- L41 BACK ANGLE - REAR. Measured in the same manner as L40.
- L42 HIP ANGLE - FRONT. The angle between Torso Line and a line extending from knee pivot center to H Point.
- L43 HIP ANGLE - REAR. Measured in the same manner as L42.
- L44 KNEE ANGLE - FRONT. The angle between a line from H Point to knee pivot center and a line from the knee pivot center to the ankle pivot center.
- L45 KNEE ANGLE - REAR. Measured in the same manner as L44.
- L46 FOOT ANGLE - FRONT. The angle between a line extended from the knee pivot center through the ankle pivot center and a line tangent to the sole and heel of manikin bare foot.
- L47 FOOT ANGLE - REAR. Measured in the same manner as L46.
- L48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the knee pivot center to the back of front seat back.
- L49 H POINT TO WINDSHIELD UPPER DLO. The horizontal dimension from H Point to the point of tangency of horizontal line of vision (described in dimension H64) with body upper structure.

**DIMENSION DEFINITIONS (cont.)**

- L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- L51 MINIMUM EFFECTIVE LEG ROOM – REAR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the foot positioned to nearest interference between seat structure and toe, instep or lower leg.
- L52 BRAKE PEDAL TO ACCELERATOR. The minimum dimension from center of brake pedal face to accelerator. Measured in the side view.
- L53 H POINT TO ACCELERATOR FLOOR POINT. The horizontal dimension from intersection of accelerator and depressed floor covering to the H Point.
- L85 H POINT COUPLE DISTANCE – THIRD SEAT. The horizontal dimension from the second seat H Point to the third seat H Point.
- L86 EFFECTIVE LEG ROOM – THIRD SEAT. Measured in the same manner as L51. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- L87 KNEE ROOM – THIRD SEAT. Measured in the same manner as L48. With rear-facing third seat, dimension is measured to rear closure.
- L88 BACK ANGLE – THIRD SEAT. Measured in the same manner as L40.
- L89 HIP ANGLE – THIRD SEAT. Measured in the same manner as L42.
- L90 KNEE ANGLE – THIRD SEAT. Measured in the same manner as L44.
- L91 FOOT ANGLE – THIRD SEAT. Measured in the same manner as L46.
- L101 WHEELBASE.
- L102 TIRE SIZE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG – FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG – REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the theoretical intersection of extended windshield glass plane and normal cowl surface to the theoretical intersection of extended back window glass plane and normal deck surface; or in the case of a Fastback roof or Station Wagon, to back glass lower reveal molding, or rubber when molding is not used.
- L127 BODY ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L128 HOOD LENGTH AT CAR CENTERLINE. The horizontal dimension from the foremost point on sheet metal hood surface, excluding series identification or ornamentation, to the theoretical intersection of extended windshield glass plane and normal cowl surface.
- L129 DECK LENGTH AT CAR CENTERLINE. The horizontal dimension from the rearmost point of the body sheet metal (visible above bumper), excluding series identification or ornamentation, to the theoretical intersection of extended back window glass plane and normal deck surface.
- L130 BODY ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from body zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.
- H6 H POINT TO WINDSHIELD BOTTOM DLO. Vertical dimension.
- H11 ENTRANCE HEIGHT – FRONT. The vertical dimension from H Point to upper trimmed body opening.
- H12 ENTRANCE HEIGHT – REAR. The vertical dimension from H Point to the upper trimmed body opening at a section 13.0 inches forward of the H Point.
- H13 STEERING WHEEL THIGH CLEARANCE. The minimum dimension from the bottom of steering wheel, in straight-ahead position, to centerline of thigh.
- H18 STEERING COLUMN ANGLE – HORIZONTAL. The angle the centerline of steering column makes with the horizontal.
- H25 BELT HEIGHT – FRONT. The vertical dimension from H Point to bottom of side window DLO.
- H30 H POINT TO HEEL POINT – FRONT. The vertical dimension from the H Point to the manikin accelerator heel point on the depressed floor covering.
- H31 H POINT TO HEEL POINT – REAR. The vertical dimension from the H Point to the manikin heel point on the depressed floor covering.
- H32 SEAT CUSHION DEFLECTION – FRONT. The vertical dimension from a point on the undeepressed seat cushion to the depressed seat cushion. Measured at the H Point station.
- H33 SEAT CUSHION DEFLECTION – REAR. Measured in the same manner as H32.
- H37 HEADLINING TO ROOF HEIGHT – FRONT. The dimension from the intersection of the headlining and the extended effective head room line to the roof panel. Measured perpendicularly to the roof panel.
- H38 HEADLINING TO ROOF HEIGHT – REAR. Measured in the same manner as H37.
- H49 H POINT TO TOP OF STEERING WHEEL. The vertical dimension from the H Point to top of steering wheel, in straight-ahead position.
- H50 UPPER BODY OPENING TO GROUND – FRONT. The vertical dimension from a point on the trimmed body opening to the ground. Measured at the H Point station.
- H51 UPPER BODY OPENING TO GROUND – REAR. The vertical dimension from a point on the trimmed body opening to the ground. Measured 13.0 inches forward of the H Point.

**DIMENSION DEFINITIONS (cont.)**

- H54 D POINT TO TUNNEL - FRONT. The vertical dimension from the D Point, at car centerline, to top of tunnel.
- H55 D POINT TO TUNNEL - REAR. Measured same manner as H54.
- H58 H POINT RISE. The vertical dimension between the H Point in the most forward and rearward seat position.
- H61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.
- H63 EFFECTIVE HEAD ROOM - REAR. Measured same as H61.
- H64 H POINT TO WINDSHIELD UPPER DLO. Vertical dimension from H Point to highest horizontal line of vision through windshield at 15 inch section.
- H65 D POINT DIFFERENTIAL, SIDE TO CENTER - FRONT. Vertical dimension from side occupant to center occupant D Point.
- H66 D POINT DIFFERENTIAL, SIDE TO CENTER - REAR. Measured in the same manner as H65.
- H67 DEPRESSED FLOOR COVERING THICKNESS - FRONT. The vertical dimension from manikin accelerator heel point normally to underbody sheet metal immediately below heel point.
- H68 DEPRESSED FLOOR COVERING THICKNESS - REAR. Measured same as H67.
- H70 H POINT TO BODY ZERO LINE - FRONT. Vertical dimension.
- H71 H POINT TO BODY ZERO LINE - REAR. Vertical dimension.
- H86 EFFECTIVE HEAD ROOM - THIRD SEAT. Measured in the same manner as H61.
- H87 H POINT TO HEEL POINT - THIRD SEAT. Measured in the same manner as H31.
- H88 H POINT TO BODY ZERO LINE - THIRD SEAT. Vertical dimension.
- H101 OVERALL HEIGHT. Measured with full design load.
- H102 FRONT BUMPER TO GROUND. Minimum dimension
- H104 REAR BUMPER TO GROUND. Minimum dimension.
- H106 ANGLE OF APPROACH. The angle between the ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e. bumper, guard, gravel deflector, fender or other interfering component, excluding license plate.
- H107 ANGLE OF DEPARTURE. The angle between the ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e. bumper, guard, gravel deflector, tail pipe, fender or other interfering component, excluding license plate.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at front of rear wheel opening.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at foremost point of rocker panel.
- H114 HOOD AT REAR TO GROUND. Measured from hood opening line on shroud, exclusive of moldings.
- H115 STEP HEIGHT - FRONT (DESIGN LOAD). The vertical dimension from top of sill plate bead, at C/L of front door sill plate, to ground.
- H116 STEP HEIGHT - REAR (DESIGN LOAD). Measured in same manner as dimension H115.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.
- H130 STEP HEIGHT - FRONT (CURB LOAD). The vertical dimension from top of sill plate, at C/L of front door sill plate, to ground.
- H131 STEP HEIGHT - REAR (CURB LOAD). Measured same as H130.
- H132 BOTTOM OF DOOR TO GROUND, OPEN - FRONT. Measured from bottom outside corner of door with door in maximum hold-open position.
- H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT. Same point on door as H132 dimension, with door closed.
- H134 BOTTOM OF DOOR TO GROUND, OPEN - REAR. Measured in same manner as H132.
- H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR. Measured in same manner as H133.
- H136 BODY ZERO TO GROUND - FRONT. A vertical dimension measured at front wheel centerline.
- H137 BODY ZERO TO GROUND - REAR. A vertical dimension measured at rear wheel centerline.
- H147 RAMP BREAKOVER ANGLE. Supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H148 FRONT SUSPENSION TO GROUND. Minimum clearance from lower control arm inner shaft or lowest point on the car centerline.
- H149 OIL PAN TO GROUND. Minimum clearance measured from sheet metal or drain plug.
- H150 FLYWHEEL/CONVERTER HOUSING AND TRANSMISSION ASSEMBLY TO GROUND. Minimum clearance.
- H151 FRAME STRUCTURE TO GROUND. Minimum clearance measured approximately midway between front and rear axles. In this measurement, cross bars and X-members shall be considered part of frame.
- H152 EXHAUST SYSTEM TO GROUND. Minimum clearance. Specify location.
- H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND. Minimum clearance.
- H154 FUEL TANK TO GROUND. Minimum clearance measured from sheet metal or drain plug, but excluding supports or straps.
- H155 SPARE TIRE WELL TO GROUND. Minimum clearance.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.
- H195 LIFTOVER HEIGHT. Vertical dimension from luggage compartment lower opening to ground.



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