AMA–40A
1970

AMA Specifications—Passenger Car

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MANUFACTURER	CAR NAME	
CHRYSLER-PLYMOUTH DIVISION CHRYSLER CORPORATION	PLYMOUTH BELVEDERE	
MAILING ADDRESS	MODEL YEAR	ISSUED 7-1-69
DETROIT, MICHIGAN 48231	1970	REVISED (•) 3-5-70

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

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BODY – TYPES AND STYLE NAMES – Body type, style names; use manufacturer's code for series & body style.

		2-Door Coupe 21	2-Door Hardtop 23	2-Door Conv 27	4-Door Sedan 41	2-Seat Station Wagon 45	3-Seat Station Wagon 46
Belvedere	Six V-8	RL 21			RL 41	RL 45	
Road Runner	V-8	RM 21	RM 23	RM 27			
Satellite	Six V-8		RH 23	RH 27	RH 41	RH 45	RH 46
Sport Satellite	V-8		RP 23		RP 41	RP 45	RP 46
GTX	V-8		RS 23				

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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.	21	23	27	41	45	46	
WIDTH								
Track – Front	W101	59.7						
Track – Rear	W102	58.7 (a)				59.2		
Maximum overall car width	W103	76.4						
Body width at No. 2 pillar	W117	73.4			73.3			
LENGTH								
Body "O" to front of dash	L 30	0.3						
Wheelbase	L101	116				117		
Overall car length	L103	204.0				209.1		
Overhang – front	L104	34.3						
Overhang – rear	L105	53.7				57.8		
Body upper structure length	L123	103.9			104.3	--		•
Body "O" line to ℄ of rear wheel	L127	99.3				100		
Body "O" line to w/s cowl point	L130	10.3						
HEIGHT								
Passenger Distribution (front & rear)		2-front, 3-rear						
Trunk/Cargo load (lbs.)		None				150		
Overall height	H101	53.0		54.1	54.8	56.4		
Cowl height	H114	37.3				37.9		
Deck height	H138	36.2(b)		36.7(j)	36.2	--		•
Rocker panel – front: To ground	H112	7.8				8.6		
Rocker panel – front: From front wheel ℄	H112	30.3						
Rocker panel – rear: To ground	H111	7.3				8.6		
Rocker panel – rear: From rear wheel ℄	H111	18.1				18.8		
Windshield slope angle	H122	51° 41'						
GROUND CLEARANCE								
Bumper to ground – front	H102	6-cyl 12.7; V-8: 12.9 (c)				13.3		•
Bumper to ground – rear	H104	6-cyl 12.7; V-8: 12.5 (d)				14.4		•
Angle of approach	H106	6-cyl 21.6; V-8: 22.0 (e)				22.7		•
Angle of departure	H107	6-cyl 13.7; V-8: 13.4 (f)				14.4		•
Ramp breakover angle	H147	12.7 (g)				14.2		•
Min. running clearance (Specify)(h)	H156	5.4				6.7		•

(a) With V-8 engine: 59.2
(b) Road Runner: 36.5; GTX: 36.9
(c) Road Runner, GTX: 13.0
(d) Road Runner, GTX: 12.9
(e) Road Runner, GTX: 22.2 •
(f) Road Runner, GTX: 13.9 •
(g) Road Runner, GTX: 13.1 •
(h) Exhaust system to ground •
(j) Road Runner: 36.9 •

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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.	21	23	27	41	45	46
FRONT COMPARTMENT							
Effective head room	H61	37.3		39.3	38.6	39.4	
Max. eff. leg room – accelerator	L34	41.8				41.9	
H Point to Heel point	H30	8.1				8.6	
H Point travel	L17	4.5					
Shoulder room	W 3	58.0					•
Hip room	W 5	60.6				60.4	
Upper body opening to ground	H50	48.7		50.1	50.2	50.8	•
REAR COMPARTMENT							
H Point couple distance	L50	31.5		32.0		34.0	
Effective head room	H63	36.7		37.2	37.4	39.3	
Min. effective leg room	L51	33.4		34.0		36.4	•
H Point to Heel point	H31	9.9				11.0	
Min. knee room	L48	2.0		2.4		3.6	•
Rear Compartment room	L 3	25.7		25.4	27.6	27.4	•
Shoulder room	W 4	57.3		50.4		57.5	•
Hip room	W 6	60.0		48.6		60.4	•
Upper body opening to ground	H51	--			49.9	50.6	•
LUGGAGE COMPARTMENT							
Usable luggage capacity	V 1				15.9	--	
Liftover height	H195	31.2 (a)		31.2	31.2(a)	26.5	•
Position of spare tire storage		Floor				Wheel well	
Method of holding lid open		Torsion bar				--	
STATION WAGON – THIRD SEAT							
Shoulder Room	W85					50.5	
Hip room	W86					41.5	
Effective leg room	L86					31.8	
Effective head room	H86					35.0	
Seat facing direction						Rear	
STATION WAGON – CARGO SPACE							
Cargo length at floor – front seat	L202					91.7	
Cargo length at belt – front seat	L204					80.9	
Cargo width – Wheelhouse	W201					45.3	
Opening width at belt	W204					49.8	
Maximum cargo height	H201					31.2	
Rear opening height	H202					30.0	
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2					84.9	

(a) V-8: 31.0

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POWER TEAMS

(Indicate whether standard or optional)

Except Station Wagons

MODEL AVAILABILITY		ENGINE					TRANSMISSION		AXLE RATIO (a) (Std. first) (Indicate A/C ratio)
		Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM			
6-Cyl	Std L & H	225	1, 1-V	8.4	145 @ 4000	215 @ 2400	Manual 3-Speed		3.23, 3.55*
							Automatic		2.93*, 2.94, 3.23, 3.55*
V-8	Std L, H & P	318	1, 2-V	8.8	230 @ 4400	320 @ 2000	Manual 3-Speed		2.94, 3.21, 3.55* •
							Automatic		2.71*, 2.94, 3.23, 3.55*
	Opt L, H & P	383	1, 2-V	8.7	290 @ 4400	390 @ 2800	Automatic		2.45*, 2.76, 2.94*, 3.23
	Opt L, H & P	383	1, 4-V	9.5	330 @ 5000	425 @ 3200	Manual	3-Speed	3.23, 3.55**, 3.91**
								4-Speed	3.23, 3.55**, 3.91**
	(b)				335 @ 5200	425 @ 3400	Automatic		3.23, 3.55**, 3.91**
	Opt M & S	426	2, 4-V	10.2	425 @ 5000	490 @ 4000	Manual 4 Speed		3.54**, 4.10**
							Automatic		3.23, 3.55**. 4.10**
	Std S	440	1, 4-V	9.7	375 @ 4600	480 @ 3200	Manual 4-Speed		3.54**, 4.10**
							Automatic		3.23, 3.55**, 4.10**
	Opt M & S	440	3, 2-V	10.5	390 @ 4700	490 @ 3200	Manual 4-Speed		3.54**, 4.10**
							Automatic		3.23, 3.55**, 4.10**

Station Wagons

6-Cyl	Std L & H	225	1, 1-V	8.4	145 @ 4000	215 @ 2400	Manual 3-Speed		3.55* •
							Automatic		3.23, 2.94*, 3.55*
V-8	Std L, H & P	318	1, 2-V	8.8	230 @ 4400	320 @ 2000	Manual 3-Speed		2.94*, 3.23, 3.55*
							Automatic		2.71*, 2.94*, 3.23
	Opt L, H & P	383	1, 2-V	8.7	290 @ 4400	390 @ 2800	Automatic		2.94*, 3.23
	Opt L, H & P	383	1, 4-V	9.5	330 @ 5000	425 @ 3200	Manual	3-Speed	3.23
								4-Speed	3.23
					335 @ 5200	425 @ 3400	Automatic		3.23

*SURE-GRIP NA **SURE-GRIP only

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

(b) Standard M, Optional H, & P

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-7-69 REVISED (•)

See Page 3 for Engine Usage

MODEL

	225 CID	318 CID	383 CID	
			1, 2-V	1, 4-V

ENGINE – GENERAL

Type, no. cyls., valve arr.		Six, in-line, OHV	90° V-8, OHV		
Bore and stroke (nominal)		3.4 x 4.12	3.91 x 3.31	4.25 x 3.38	
Piston displacement, cu. in.		225	318	383	
Bore spacing (℄ to ℄)		(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)		8.4:1	8.8:1	8.7:1	9.5:1
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		(b)			
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		27.7	48.9	57.8	
Publishing max. bhp* @ eng. RPM		145 @ 4000	230 @ 4400	290 @ 4400	330 @ 5000
Publishing max. torque * (lb. ft. @ RPM)		215 @ 2400	320 @ 2000	390 @ 2800	425 @ 3200
Recommended fuel regular – premium		Regular			Premium

ENGINE – PISTONS

Material		Aluminum alloy			
Description and finish		Closed slipper-type, steel strut, elliptically turned, tin plated			
Weight (piston only) oz.		16.4	20.9	27.2	
Clearance (limits)	Top land	0.024 min.	0.018 min.	0.022 min.	
	Skirt Top	0.0005 to 0.0015		0.00025 to 0.00125	
	Skirt Bottom	-0.0005 to +0.0015		-0.00125 to +0.00125	
Ring groove depth	No. 1 ring	0.179	0.205	0.220	
	No. 2 ring	0.179	0.205	0.220	
	No. 3 ring	0.181	0.193	0.228	
	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); 4.0 (2-3, 4-5)

(b) Lateral: 0° 06' inclined rear to front: 2° 30' to 3°

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-1-69 REVISED (•)

See Page 3 for Engine Usage

MODEL

383 CID Hi-Perf.	426 CID Hemi	440 CID Hi-Perf	440 CID 3, 2-V

ENGINE – GENERAL

Type, no. cyls., valve arr.		90° V-8, OHV			
Bore and stroke (nominal)		4.25 x 3.38	4.25 x 3.75	4.32 x 3.75	
Piston displacement, cu. in.		383	426	440	
Bore spacing (℄ to ℄)		4.8			
No. system (front to rear)	L. Bank	1-3-5-7			
	R. Bank	2-4-6-8			
Firing order		1-8-4-3-6-5-7-2			
Compres. ratio (nominal)		9.5:1	10.2:1	9.7:1	10.5:1
Cylinder Head Material		Cast iron			
Cylinder Block Material		Cast iron			
Cyl. Sleeve-Wet,dry,none		None			
Number of mtg. points	Front	Two			
	Rear	One			
Engine installation angle		Lateral: 0° 06' inclined rear to front: 2° 30' to 3°			
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		57.8		59.7	
Publishing max. bhp* @ eng. RPM		335 @ 5200	425 @ 5000	375 @ 4600	390 @ 4700
Publishing max. torque * (lb. ft. @ RPM)		425 @ 3400	490 @ 4000	480 @ 3200	490 @ 3200
Recommended fuel regular – premium		Premium			

ENGINE – PISTONS

Material		Aluminum alloy			
Description and finish		(a)	Forged, elliptically turned, tin-plated	(a)	
Weight (piston only) oz.		27.2	29.7	30.2	
Clearance (limits)	Top land	0.022 min.			
	Skirt Top	0.00025 to 0.00125			
	Skirt Bottom	-0.00125 to +0.00125			
Ring groove depth	No. 1 ring	0.220	0.215	0.224	
	No. 2 ring	0.220	0.215	0.224	
	No. 3 ring	0.228	0.191	0.193	
	No. 4 ring	--			

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

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

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-2-69 REVISED (*)

See Page 3 for Engine Usage

MODEL	225 CID	318 CID	383 CID 1, 2-V	383 CID 1, 4-V

ENGINE – RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression		
	No. 2, oil or comp.	Compression		
	No. 3, oil or comp.	Oil		
	No. 4, oil or comp.	None		
Compression	Description - material, coating, etc. #1	Cast iron, twist and taper, tin-plated	Cast iron, reverse twist and taper, tin-plated	
	Description - material, coating, etc. #2	Cast iron, reverse twist and taper, lubrite-coated		
	Width	0.078		
	Gap	0.010 to 0.020	0.013 to 0.023	
Oil	Description - material, coating, etc.	3-piece abutment-type, stainless steel spacer-expander with chrome-plated segments		
	Width	0.188		
	Gap	Not applicable		
Expanders		See above		

ENGINE – PISTON PINS

Material			Carbon steel-carburizing grade		
Length			2.965	2.995	3.565
Diameter			0.9008	0.9842	1.0936
Type	Locked in rod, in piston, floating, etc.		Press-fit in rod	Floating	Press-fit in rod
	Bushing	In rod or piston	None	Rod	None
		Material	--	Bronze on steel	--
Clearance	In piston		0.00045 to 0.00075	0.0000 to 0.0005	0.00045 to 0.00075
	In rod		(a)	0.0001 to 0.0006	0.0007 to 0.0014 interference
Direction & amount offset in piston			Right 0.06		Right 0.09

ENGINE – CONNECTING RODS

Material		Drop-forged steel		
Weight (oz.)		26.8	25.6	28.6
Length (center to center)		6.699	6.123	6.358
Bearing	Material & Type	Lead-base babbitt on steel	Bi-metal grid	Tri-metal
	Overall length	0.985	0.843	0.927
	Clearance (limits)	0.0005 to 0.0025		0.0007 to 0.0032
	End play	0.006 to 0.012	(b)	0.009 to 0.017 (2 rods)

(a) 0.0007 to 0.0014 interference
(b) 0.006 to 0.014 (2 rods)

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MODEL

		See Page 3 for Engine Usage			
		383 CID Hi-Perf	426 CID Hemi	440 CID Hi-Perf	440 CID 3, 2-V

ENGINE – RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression			
	No. 2, oil or comp.	Compression			
	No. 3, oil or comp.	Oil			
	No. 4, oil or comp.	None			
Compression	Description - material, coating, etc. #1	(a)	(b)	(c)	(b)
	#2	Cast iron, reverse twist and taper, tin-plated			
	Width	0.078			
	Gap	0.013 to 0.023			
Oil	Description - material, coating, etc.	3-piece abutment-type, stainless steel spacer-expander with chrome-plated segments			(d)
	Width	0.188			0.113
	Gap	Not applicable			
Expanders		See above			

ENGINE – PISTON PINS

Material			Carbon steel-carburizing grade			
Length			3.565	3.400	3.565	3.385
Diameter			1.0936	1.0311	1.0936	
Type	Locked in rod, in piston, floating, etc.		Press-fit in rod	Floating	Press-fit in rod	
	Bushing	In rod or piston	None	Rod	None	
		Material	--	Bronze on steel	--	
Clearance	In piston		0.00045 to 0.00075	0.0001 to 0.0006	0.00045 to 0.00075	
	In rod		(e)	0.0002 to 0.0007	0.0007 to 0.0014 interference	
Direction & amount offset in piston			Right 0.09			

ENGINE – CONNECTING RODS

Material		Drop-forged steel		
Weight (oz.)		28.6	38.2	29.8
Length (center to center)		6.358	6.861	6.768
Bearing	Material & Type	Tri-metal		
	Overall length	0.927		
	Clearance (limits)	0.0007 to 0.0032	0.0010 to 0.0035	0.0007 to 0.0032
	End play	0.009 to 0.017 (2 rods)		

(a) Cast iron, reverse twist and radius-faced, tin-plated
(b) Cast iron, twist and barrel - lap faced, moly-filled
(c) Cast iron, twist and radius-faced, tin-plated
(d) 3-piece stainless steel spacer-expander with chrome-plated segments
(e) 0.0007 to 0.0014 interference

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-2-69 REVISED (•)

See Page 3 for Engine Usage

MODEL

			225 CID	318 CID	383 CID		
					1, 2-V	1, 4-V	Hi-Perf

ENGINE – CRANKSHAFT

Material			Drop-forged steel	Cast ductile iron	Drop-forged steel	
Vibration damper type			Non-adhesive, rubber, dynamic			
End thrust taken by bearing (No.)			Three			
Crankshaft end play			0.002 to 0.007			
Main bearing	Material & type		Lead-base babbitt on steel, removable, precision			
	Clearance		0.0005 to 0.0025 specified, 0.0005 to 0.0015 desired			
	Journal dia. and bearing overall length	No. 1	2.75 x 1.034	2.5 x 0.872	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 1.233	
		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	2.38	

ENGINE – CAMSHAFT

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

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		NA	Std
Valve rotator, type (intake, exhaust)		Low-friction lock on exhaust	
Rocker ratio		1.5:1	
Operating tappet clearance (indicate hot or cold)	Intake	0.010 hot	Hydraulic
	Exhaust	0.020 hot	Hydraulic

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-3-69 REVISED (•)

See Page 3 for Engine Usage

MODEL

			426 CID Hemi	440 CID Hi-Perf	440 CID 3, 2-V
ENGINE – CRANKSHAFT					
Material			Drop-forged steel		
Vibration damper type			Non-adhesive, rubber, dynamic		
End thrust taken by bearing (No.)			Three		
Crankshaft end play			0.002 to 0.007		
Main bearing	Material & type		(a)	Lead-base babbitt on steel, removable precision. Tin alloy on steel (#3 main only)(b)	
	Clearance		0.0015 to 0.0025	(c)	
	Journal dia. and bearing overall length	No. 1	2.75 x 0.944		
		No. 2	2.75 x 0.944		
		No. 3	2.75 x 1.223		
		No. 4	2.75 x 0.944		
		No. 5	2.75 x 0.944		
		No. 6	--		
		No. 7	--		
	Dir. & amt. cyl. offset		None		
Crankpin journal diameter			2.38		
ENGINE – CAMSHAFT					
Location			Center of "V" above crankshaft		
Material			Hardenable cast iron, oil pump and distributor drive gear cast integrally		
Bearings	Material		Copper lead on steel	Lead-base babbitt on steel	
	Number		Five		
Type of Drive	Gear or chain		Double-roller chain	Chain	
	Crankshaft gear or sprocket material		Steel	Malleable cast iron or sintered iron (Super Oilite)	
	Camshaft gear or sprocket material		Cast iron	Nylon-coated aluminum	
	Timing chain	No. of links	66	50	
		Width	.75	.75	
		Pitch	.50	.50	
ENGINE – VALVE SYSTEM					
Hydraulic lifters (Std., opt., NA)			Std		
Valve rotator, type (intake, exhaust)			None	Low-friction lock on exhaust	
Rocker ratio			1.5:1		
Operating tappet clearance (indicate hot or cold)	Intake		Hydraulic		
	Exhaust		Hydraulic		

(Continued)

(a) Tri-metal: steel back, copper-lead, intermediate layer of high-lead overplate
(b) 440 CID, 3, 2-V: all main bearings tin alloy on steel
(c) 0.0005 to 0.0025 specified, 0.0005 to 0.0015 desired

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-8-69 REVISED (•) 3-13-70

MODEL

See Page 3 for Engine Usage

ENGINE – VALVE SYSTEM (cont.)

			225 CID	318 CID	383 CID 1, 2-V	383 CID 1, 4-V
Timing (based on top of ramp points)	Intake	Opens (°BTC)	10		18	
		Closes (°ABC)	50		58	
		Duration - deg.	240		256	
	Exhaust	Opens (°BBC)	50	58	66	
		Closes (°ATC)	6	10	14	
		Duration - deg.	236	248	260	
	Valve opening overlap		16	20	32	
Intake	Material		SAE 1041			
	Overall length		4.77	4.97	4.86	
	Actual overall head dia.		1.62	1.78	2.08	
	Angle of seat & face		Seat: 44.5 to 45.0; valve: 45.0 to 45.5			
	Seat insert material		None			
	Stem diameter		0.372 to 0.373		0.3723 to 0.3730	
	Stem to guide clearance		0.001 to 0.003		0.0010 to 0.0027	
	Lift (@ zero lash)		0.397	0.372	0.425	
	Outer spring press. & length	Valve closed (lb. @ in.)	63 @ 1.65	92 @ 1.65	125 @ 1.86	105 @ 1.86 •
		Valve open (lb. @ in.)	156 @ 1.26	189 @ 1.28	200 @ 1.42	234 @ 1.40 •
	Inner spring press. & length	Valve closed (lb. @ in.)	None			
		Valve open (lb. @ in.)	None			
Exhaust	Material		21-2N	21-4N	21-2N	
	Overall length		4.80	5.00	4.89	
	Actual overall head dia.		1.36	1.50	1.74	
	Angle of seat & face		Seat: 44.5 to 45.0; valve: 45.0 to 45.5			
	Seat insert material		None			
	Stem diameter		0.371 to 0.372		Hot end: 0.3713 to 0.3720 (a)	
	Stem to guide clearance		0.002 to 0.004		Hot end: 0.0020 to 0.0037 (b)	
	Lift (@ zero lash)		0.393	0.400	0.437	
	Outer spring press. & length	Valve closed (lb. @ in.)	63 @ 1.65	92 @ 1.65	125 @ 1.86	105 @ 1.86 •
		Valve open (lb. @ in.)	156 @ 1.26	189 @ 1.25	200 @ 1.42	234 @ 1.40 •
	Inner spring press. & length	Valve closed (lb. @ in.)	None			
		Valve open (lb. @ in.)	None			

ENGINE – LUBRICATION SYSTEM

		225 CID	318 CID	383 CID 1, 2-V	383 CID 1, 4-V
Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure			
	Connecting rods	Pressure			
	Piston pins	Metered jet spray			
	Camshaft bearings	Pressure			
	Tappets	Splash	Pressure		
	Timing gear or chain	Jet			
	Cylinder walls	Metered jet spray			

(a) Cold end: 0.3723 to 0.3730
(b) Cold end: 0.0010 to 0.0027

(Continued)

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-8-69 REVISED (•) 3-13-70

MODEL

See Page 3 for Engine Usage

			383 CID Hi-Perf	426 CID Hemi	440 CID Hi-Perf	440 CID 3, 2-V
ENGINE – VALVE SYSTEM (cont.)						
Timing (based on top of ramp points)	Intake	Opens (°BTC)	21	36	21	
		Closes (°ABC)	67	68	67	
		Duration - deg.	268	284	268	
	Exhaust	Opens (°BBC)	79	80	79	
		Closes (°ATC)	25	24	25	
		Duration - deg.	284			
	Valve opening overlap		46	60	46	
Intake	Material		SAE 1041	Silchrome XB	SAE 1041	
	Overall length		4.86	5.41	4.86	
	Actual overall head dia.		2.08	2.25	2.08	
	Angle of seat & face		Seat: 44.5 to 45.0; valve: 45.0 to 45.5			
	Seat insert material		None			
	Stem diameter		0.3723 to 0.3730	0.3085 to 0.3095	0.3723 to 0.3730	
	Stem to guide clearance		0.0010 to 0.0027	0.002 to 0.004	0.0010 to 0.0027	
	Lift (zero lash)		0.450	0.490	0.450	
	Outer spring press. & length	Valve closed (lb. in.)	105 @ 1.86	115 @ 1.86	105 @ 1.86	115 @ 1.86 •
		Valve open (lb. in.)	234 @ 1.40	310 @ 1.37	234 @ 1.40	310 @ 1.37 •
	Inner spring press. & length	Valve closed (lb. in.)	Surge damper			
		Valve open (lb. in.)	Surge damper			
Exhaust	Material		21-2N	21-4N (a)	21-2N	
	Overall length		4.89	4.86	4.89	
	Actual overall head dia.		1.74	1.94	1.74	
	Angle of seat & face		Seat: 44.5 to 45.0; valve: 45.0 to 45.5			
	Seat insert material		None			
	Stem diameter		(b)	0.3075 to 0.3085	Hot end: 0.3713 to 0.3720 (c)	
	Stem to guide clearance		(b)	0.0030 to 0.0050	Hot end: 0.0020 to 0.0037 (d)	
	Lift (zero lash)		0.465	0.480	0.465	
	Outer spring press. & length	Valve closed (lb. in.)	105 @ 1.86	115 @ 1.86	105 @ 1.86	115 @ 1.86
		Valve open (lb. in.)	234 @ 1.40	310 @ 1.37	234 @ 1.40	310 @ 1.37
	Inner spring press. & length	Valve closed (lb. in.)	Surge damper		None	Surge damper
		Valve open (lb. in.)	Surge damper		None	Surge damper

ENGINE – LUBRICATION SYSTEM

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

(Continued)

(a) Stellite-faced
(b) Same as 440 CID
(c) Cold end: 0.3723 to 0.3730
(d) Cold end: 0.0010 to 0.0027

AMA Specifications—Passenger Car

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-9-69 REVISED (•) 3-5-70

MODEL

See Page 3 for Engine Usage						
225 CID	318 CID	383 CID		426 Hemi	440 CID	
		2-V	4-V, All		Hi-Perf	3, 2-V

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Rotary					
Normal oil pressure (lb. - engine rpm)	45 to 65 @ 2000					
Oil press. sending unit (elect. or mech.)	Electric					
Type oil intake (floating, stationary)	Stationary					
Oil filter system (full flow, port., other)	Full flow					
Filter replacement (element, complete)	Complete					
Capacity of c/case, less filter-refill (qt.)	4				6 •	
Oil grade recommended (SAE viscosity and temperature range)	Consistently above +32F . . . . . SAE 10W-30, 20W-40, or 30 Occasionally as low as -10F . . . . . SAE 10W-30 Consistently between +32F and -10F . . . . . SAE 10W-30 or 10W Consistently below +10F . . . . . SAE 5W-20					
Engine Service Reqmt. (MM, MS, etc.)	MS					

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single	Single with crossover		Dual		
Muffler No. & type (reverse flow, straight thru, separate resonator)		One, reverse			Two, reverse	(a)	Two, reverse
Exhaust pipe dia. (O.D., wall thick.)	Branch	--	1.75x0.067	1.88x0.067	--		
	Main	1.88x0.067	2.00x0.067	2.25 x 0.075	2.50 x 0.075		
Tail pipe dia. (O.D. & wall thickness)		1.75x0.043	1.88x0.043	2.25 x 0.043			

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction system	
	Optional	--	
Control Unit	Make and model	2951243 or 2951891 •	
	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 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) Two, reverse; two, resonators

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-10-69 REVISED (•) 3-5-70

MODEL — All Engines

ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)			Engine Modifications: Cleaner Air System
Air Injection Pump	Type		Not applicable
	Displacement		"
	Drive ratio		"
	Drive type		"
	Relief valve (type)		"
	Filter (describe)		"
Air Injection System	Air distribution (head, manifold, etc.)		"
	Point of entry		"
	Injection tube I.D.		"
	Check valve type		"
	Backfire protection (type)		"
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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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-10-69 REVISED (•)

MODEL

See Page 3 for Engine Usage

ENGINE – FUEL SYSTEM

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

			225 CID	318 CID	426 CID
Induction type: Carburetor, fuel injection, supercharger.			Carburetor		
Fuel Tank	Refill capacity (U.S. gals.)		19		
	Filler location		Rear center, ex - left rear fender on Charger and station wagons		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Locations		Right center of engine	Right front of engine	
	Pressure range, psi		3.5 to 5.0	5.0 to 7.0	7.0 to 8.5
Vacuum booster (std., optional, none)			None		
Fuel Filter	Type		Fuel tank - plastic; fuel line - paper		
	Locations		One in fuel tank, one in supply line		
Carburetor	Choke type		Automatic, separate		(a)
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air cleaner type	Standard	Paper element		
		Optional	--		
	Idle speed (spec. neutral or drive)	Manual	700	750	900
		Automatic	650	700	900
	neutral	Idle A/F mix.	14.0 to 14.4		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors			No. Used and Type	Barrel Size
			Make	Ex. Calif.	Calif. Only		
All	225	Manual	Holley	R-4351A	R-4353A	1, 1-V	1.69
		Automatic		R-4352A	R-4354A		
All	318	Manual	Carter	BBD-4721S	BBD-4723S	1, 2-V	1.44
Without A/C		Automatic		BBD-4722S	BBD-4724S		
With A/C				BBD-4895S			
All	426	All	Carter	Front AFB-4742S Rear		2, 4-V	Primary 1.44 Secondary 1.69
		Manual		AFB-4745S			
		Automatic		AFB-4746S			

(a) Automatic, integral rear carburetor only

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-10-69 REVISED (•)

MODEL	See Page 3 for Engine Usage				
	383 CID			440 CID	
	1, 2-V	1, 4-V	Hi-Perf	Hi-Perf	3, 2-V

ENGINE – FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.			Carburetor					
Fuel Tank	Refill capacity (U.S. gals.)		19					
	Filler location		Rear center, ex - left rear fender on Charger and station wagons					
Fuel Pump	Type (elec. or mech.)		Mechanical					
	Locations		Right front of engine					
	Pressure range psi		3.5 to 5.0					
Vacuum booster (std., optional, none)			None					
Fuel Filter	Type		Fuel Tank - plastic; fuel line - paper					
	Locations		One in fuel tank, one in supply line					
Carburetor	Choke type		Automatic, separate					(a)
	Intake manifold heat control (exhaust or water)		Exhaust					
	Air cleaner type	Standard	Paper element					
		Optional	--					
	Idle speed (spec. neutral or drive)	Manual	750	700	750	900		
		Automatic	650	700	750	800	900	
	neutral	Idle A/F mix.	14.0 to 14.4					

CARBURETOR SUPPLEMENTARY INFORMATION

See Page 3 Model Usage	Engine Displ.	Transmission	Carburetors Make	Ex. Calif.	Calif. Only	No. Used and Type	Barrel Size
Without A/C	383	Automatic	Holley	R-4371A	R-4373A	1, 2-V	1.56
With A/C				R-4373A			
Without A/C			Carter	BBD-4726S	BBD-4728S		
With A/C				BBD-4894S			
Without A/C	383	Automatic	Carter	AVS-4736S	AVS-4734S	1, 4-V	P: 1.44 S: 1.69
With A/C				AVS-4732S			
All	383 Hi-Perf	Manual	Holley	R-4367A	R-4217A	1, 4-V	P: 1.56 S: 1.75
Without A/C		Automatic		R-4368A	R-4218A		
With A/C				R-4369A			
All	440	Manual	Carter	AVS-4737S	AVS-4739S	1, 4-V	1.69
Without A/C		Automatic		AVS-4738S	AVS-4740S		
With A/C				AVS-4741S			
All	440		Holley	Front		3, 2-V	
		All		R-4382A	R-4175A		1.75
				Rear			
		All		R-4383A	R-4365A		1.75
				Center			
		Manual		R-4375A	R-4374A		1.50
		Automatic		R-4376A	R-4144A		

(a) Automatic, separate on center carburetor only.

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-14-69 REVISED (•)

MODEL

ENGINE – COOLING SYSTEM

			See Page 3 for Engine Usage							
			225 CID	318 CID	383 CID			426 CID	440 CID	
					1, 2-V	1, 4-V	Hi-Perf	Hemi	Hi-Perf	3, 2-V
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	195	190					
Water pump	Type (centrifugal, other)		Centrifugal							
	GPM : 1000 pump rpm		--							
	Number of pumps		One							
	Drive (V-belt, other)		V-belt							
	Bearing type		Ball, integral shaft, permanently sealed							
By-pass recirculation type (inter., ext.)			External	Internal						
Radiator core type (cellular, tube and fin, other)			Tube and spacer							
Cooling system capacity	With heater (qt.)		13	16	14.5			17		
	Without heater (qt.)		12	15	13.5			16		
	Opt. equipment-specify (qt.)	A/C	13	16	15			17		
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				18.5	18	
	Ratio-fan to crankshaft rev.		1.07:1	0.95:1				1.2:1	0.95:1	
	Fan cutout type		Thermal					Torque		
	Bearing type		See water pump bearing above							
*Drive belts (indicate belt used by letter)	Fan		A	D	G			J	G	
	Generator or alternator		A	D	G			J	G	
	Water Pump		A	D	G			J	G	
	Power Steering		B	E(a)	H			K	H	
	Air Conditioning		C	F	I			--	I	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36	36	36	36	36	36	36	36	36	36	36
Nominal length (SAE)	57.0	40.75	53.0	47.50	38.0	54.0	46.5	44.0	59.50	45.0	39.38
Width	.38	.38	.50	.38	.38	.38	.38	.38	.38	.38	.50

(a) With 0.94 CID power steering pump; "I" with 1.06 CID power steering pump

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-15-69 REVISED (•)

See Page 3 for Engine Usage

MODEL	225 CID	318 CID	383 CID 1, 2-V	383 CID 1, 4-V	383 CID Hi-Perf	426 CID Hemi	440 CID Hi-Perf	440 CID 3, 2-V
ELECTRICAL – SUPPLY SYSTEM								
Battery — Make and Model (a)	2875951		2875320			2642969		
Battery — Voltage Rtg. & Total Plates	12, 54		12, 66			12, 78		
Battery — SAE Designation & Amp. Hr. Rtg.	46 amp		59 amp			70 amp		
Battery — Location	Left front fender side shield							
Battery — Terminal grounded	Negative							
Alternator — Make	Chrysler							
Alternator — Model	3438172					(c)	3438172	
Alternator — Type and rating (b)	37 amp							
Alternator — Output at engine idle (neutral)	--							
Alternator — Ratio–Gen. to Cr's rev.	2.70:1		2.55:1			2.12:1	2.55:1	
Regulator — Make	Chrysler							
Regulator — Model	3438150							
Regulator — Type	Voltage control							
Regulator — Cutout relay — Closing voltage generator rpm	--							
Regulator — Cutout relay — Reverse current to open	--							
Regulator — Regulated — Voltage	13.8 to 14.4 @ 80° ambient							
Regulator — Regulated — Current	--							
Regulator — Voltage test conditions — Temperature	80° F							
Regulator — Voltage test conditions — Load	15 amp							
Regulator — Voltage test conditions — Other	--							
ELECTRICAL – STARTING SYSTEM								
Starting Motor — Make	Chrysler							
Starting Motor — Model	2875560							
Starting Motor — Rotation (drive end view)	Clockwise							
Motor control — Switch (solenoid, manual)	Solenoid							
Motor control — Starting procedure	(e)							
Motor Drive — Engagement type	Solenoid							
Motor Drive — Pinion meshes (front, rear)	Front							
Motor Drive — Number of teeth — Pinion	10 (d)							
Motor Drive — Number of teeth — Flywheel — Manual	122		--		130	172	143	
Motor Drive — Number of teeth — Flywheel — Auto.	122				130			
Motor Drive — Flywheel tooth face width — Manual	0.340		--		0.340			
Motor Drive — Flywheel tooth face width — Auto.	0.340							

(a) Mopar
(b) Three-phase full-wave rectified
(c) 3438176
(d) 426 CID; nine teeth with manual transmission
(e) With transmission in "Neutral" or "Park" depress accelerator pedal to floor and release. If car is equipped with manual transmission, the clutch pedal must be held to the floor while starting engine. Turn ignition key to start position and release when engine starts. When engine is running smoothly tap accelerator pedal to reduce fast idle speed.

AMA Specifications—Passenger Car

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-16-69 REVISED (•) 3-13-70

See Page 3 for Engine Usage

MODEL	225 CID	318 CID	383 CID 1, 2-V	383 CID 1, 4-V	383 CID Hi-Perf	426 CID Hemi	440 CID Hi-Perf	440 CID 3, 2-V

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Std						
	Transistorized – Std., Opt., N.A.		NA						
	Other (specify)		--						
Coil	Make		Chrysler-Essex or Chrysler-Prestolite						
	Model		2444241				2444242		
	Amps	Engine stopped	3.0						
		Engine idling	1.9						
Distributor	Make		Chrysler				Prestolite		
	Model		See page 13A						
	Cent'fgal adv. in c/shaft degrees - engine rpm (nominal)	Start (rpm)	"						
		Intermediate points deg. @ rpm	"						
		Max. deg. @ rpm	"						
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	"						
		Intermediate points, deg. @ in. Hg.	"						
		Max. deg. in. Hg.	--						
	Breaker gap (in.)		(a)	(b)	0.016 to 0.021		(b)	(c)	(b)
	Cam angle (deg.)		41 to 46	30 to 34	28.5 to 32.5		(d)	(e)	(d)
	Breaker arm tension (oz.)		17 to 20				(f)	17 to 20	(f)
Timing	Crankshaft deg. @ rpm idle		See page 13A						
	Mark location		"						
Spark Plug	Make & Model	Mopar	P-6-6P		P-3-6P	P-3-4P	--	P-3-4P	•
		Champion	N-14Y		J-14Y	J-11Y	N-10Y	J-11Y	
	Thread (mm)		14 mm						
	Tightening torque (lb. ft.)		30 to 32						
	Gap		0.035						
Cable	Conductor type		Resistor						
	Insulation type		(g)	Synthetic rubber with Hypalon jacket					
	Spark plug protector		Hypalon	Silicone					

ELECTRICAL – SUPPRESSION

Locations & type	Resistance type spark plug and coil cables

(a) 0.017 to 0.023
(b) 0.014 to 0.019
(c) 0.016 to 0.021
(d) One set of points 27 to 32; both sets of points 37 to 42
(e) 28.5 to 32.5
(f) 17 to 21.5
(g) Synthetic rubber with Neoprene jacket

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MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-17-69 REVISED (•) 3-13-70

AVAILABILITY

(See Page 3 for Engine Usage)

		225 CID	318 CID	383 CID			426 CID Hemi	440 CID	
				2-V	4-V	Hi-Perf		Hi-Perf	3, 2-V
Distributor	Manual	2875822	3438255	3438231	3438233		2875987	3438222	3438314
	Automatic	2875826	3438225				2875989		2875982
Timing (a)	Manual	TDC		10 BTC	--	10 BTC	TDC	10 BTC	12 1/2 BTC • •
	Automatic			12 1/2 BTC			2 1/2 BTC	12 1/2 BTC	

(a) Transmission in neutral, crankshaft degree @ engine idle RPM (see page 10). Distributor solenoid disengaged.

SPECIFICATIONS

DISTRIBUTOR PART NUMBER	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Degrees at Inches of Mercury	
	Start	Intermediate	Maximum	Start	Maximum
2875822	2 to 10 @ 1100	18.4 to 22.4 @ 1800	24 to 28 @ 4000	1 to 7 @ 10	10.5 to 15.25 @ 15
2875826	2 to 10 @ 1100	18.4 to 22.4 @ 1800	24 to 28 @ 4000	1 to 7 @ 7	10.5 to 15.25 @ 10
2875982	0 to 10.6 @ 1200	18 to 22 @ 1700	24 to 28 @ 4800	1 to 7 @ 11	19 to 25 @ 15.5
2875987	0 to 9 @ 1300	24.4 to 28.4 @ 2100	28 to 16 @ 3200	0 to 7 @ 9	13.4 to 18.4 @ 13.5
2875989	0 to 8.4 @ 1200	19.4 to 23.4 @ 1900	23 to 27 @ 3200	0 to 7 @ 9	13.4 to 18.4 @ 13.5
3438222	0 to 9.2 @ 1200	11.2 to 15.2 @ 1600	20 to 24 @ 4600	1 to 8.6 @ 10.5	9.4 to 24 @ 15.5
3438225	2 to 12 @ 1100	17 to 21 @ 1600	28 to 32 @ 4200	1.5 to 4.5 @ 12	8.5 to 21.5 @ 15
3438231	0 to 7.6 @ 1100	15 to 19 @ 1700	28 to 16 @ 4400	1.0 to 4 @ 7.5	18.6 to 23.6 @ 12
3438233	0 @ 950	16.5 @ 1600	26 @ 3600	1 to 8.6 @ 10.5	19.4 to 24 @ 15.5 •
3438255	2 to 12 @ 1100	17 to 21 @ 1600	28 to 32 @ 4200	2 to 8 @ 10.5	16.5 to 21.5 @ 15
3438314	0 to 9.0 @ 1300	18 to 22 @ 1900	24 to 28 @ 4800	1 to 7 @ 11	19 to 25 @ 15.5

AMA Specifications—Passenger Car

MAKE OF CAR PLYMOUTH BELVEDERE MODEL YEAR 1970 DATE ISSUED 7-10-69 REVISED (•)

MODEL: All Models

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	In-line drive pointer
	Trip odometer (yes,no)	No
Charge indicator – type		Ammeter
Temperature indicator – type		Electric, thermal
Oil pressure indicator – type		Light
Fuel indicator – type		Electric, thermal
Other		Brake system and parking brake warning light
Windshield wiper	Type – Standard	Electric, two-speed
	Type – Optional	Electric, three-speed
Windshield washer	Type – Standard	Electric
	Type – Optional	--
Horn	Type	Four-inch sea shells (a)
	Number used	2 (b)
	Amp draw (each)	Sparton: 6-8 amp; Prestolite: 4-6 amp (a)

DRIVE UNITS – CLUTCH (Manual Transmission)

		See Page 3 for Engine Usage				
MODEL		225 CID	318 CID	383 CID	426 CID	440 CID
Make & type		Auburn, Borg & Beck	Borg & Beck			
Type pressure plate springs		Coil				
Total spring load (lb.)		1375	1693	2181	2523	
No. of clutch driven discs		One				
Clutch facing	Material	Woven asbestos				
	Outside & inside dia.	9.25 x 6.00	10.5 x 6.5	11.0 x 6.5	11.0 x 7.0	
	Total eff. area (sq.in.)	77.0	106.8	123.6	113.1	
	Thickness	0.114	0.125	0.135		
	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				

(a) M price class: Beep type, single horn, Sparton 4-5 amp.
(b) L price class: one horn standard; two optional.

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MODEL

See Page 3 for Engine Usage				
225 CID	318 CID	383 CID	426 CID	440 CID

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

			3		4	
Number of forward speeds			W/225, 318 CID	With 383 CID	With 383 CID	W/426, 440 CID
Transmission ratios	In first		3.08	2.55	2.47	2.44
	In second		1.70	1.49	1.77	1.77 •
	In third		1.00		1.34	•
	In fourth		--		1.00	
	In reverse		2.90	3.34	2.40	2.36 •
Synchronous meshing, specify gears			1, 2, 3		1, 2, 3, 4	
Shift lever location			Column	Floor	Floor or console	
Lubricant	Capacity (pt.)		4.75		7.5	
	Type recommended		DEXRON-type Auto. Trans Fluid		SAE 140	•
	SAE viscosity number	Summer	NA		"	
		Winter	NA		"	
		Extreme cold	NA		SAE 90	

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

(a) NA with 383 CID 1, 2-V
(b) Opt with 383 CID 1, 4-V
(c) Std with 440 CID 1, 4-V in S-price and with 383 CID 1, 2-V

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See Page 3 for Engine Usage

MODEL	225 CID	318 CID	383 CID 2-V	383 CID 4-V	383 CID Hi-Perf	426 CID Hemi	440 CID Hi-Perf	440 CID 3, 2-V

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		73	85		74	93	76	
Max. kickdown speed–drive range		65	76		67	84	69	
Torque convertor	Number of elements	Three						
	Max. ratio at stall	2.1:1		2.0:1	2.1:1		2.0:1	
	Type of cooling (air, liquid)	Liquid						
	Nominal diameter	10.75		11.75	10.75		11.75	
Lubricant	Capacity–refill (pt.)	17.0	16.0	19.0	16.0	17.0	19.0	
	Type recommended	DEXRON Automatic Transmission Fluid or 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.)		Internal vibration absorber				
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.25 x 57.65 (b)	3.25 x 51.44 (c)	--	3.25 x 51.50 x .065	--
	Manual 4-speed trans.	--			3.25 x 51.50 x .065	3.25 x 50.39 x .065
	Overdrive transmission	NA				
	Automatic transmission	3.00 x 57.65 (b)	3.25 x 51.44 x .065 (b)		3.25 x 51.50 (c)	3.25 x 50.39 x .065

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

(Continued)

(a) All wall thickness is 0.065 for all propeller shafts
(b) Station wagons: 3.00 x 56.17
(c) Station wagons: 3.25 x 52.03

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MODEL

See Page 3 for Engine Usage			
225 CID	318 CID	383 CID	426 CID 440 CID

DRIVE UNITS – PROPELLER SHAFT (cont.)

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

DRIVE UNITS – AXLE

Type (front, rear)		Rear				
Description	Carrier housing	Unitized		Separable		Unitized
	Ring gear	7-1/4 OD	8-1/4 OD	8-3/4 OD		9-3/4 OD
Limited Slip differential, type		Friction bias	None	Friction bias		
Drive Pinion Offset		1.625	1.85	1.50		1.125
No. of differential pinions		2				4
Pinion adjustment (shim, other)		Washer	Shim		Washer	Shims
Pinion bearing adj. (shim, other)		Solid spacer	Collapsible spacer		Shims	
Wheel bearing type		Ball	St. roller	Tapered roller		
Lubricant	Capacity (pt.)	2	4			5-1/2
	Type recommended	MIL-L-2105B 2933565				(c)
	SAE viscosity number – Summer	Above -10F. . . . . SAE 90				
	SAE viscosity number – Winter	Between -10F and -30F . . . SAE 80				
	SAE viscosity number – Extreme cold	Below -30F . . . . . SAE 75				

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.45	2.71	2.76	2.93	2.94	3.21	3.23	3.54	3.55	3.91	4.10
No. of teeth	Pinion	20	17		14	16	14	13		11		10
	Ring gear	49	46	47	41	47	45	42	46	39	43	41
Ring Gear O.D.		8-1/4		8-3/4	7-1/4	8-3/4	8-1/4	7-1/4	8-3/4	9-3/4	8-3/4	8-3/4	9-3/4

(a) Automatic transmission
(b) Manual transmission
(c) Special Sure-Grip Lubricant 2585318

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MODEL	Except Station Wagons			Station Wagons	
	225 CID 318 CID	383 CID	440 CID 426 CID	2-Seat w/225 CID	Ex. 2-Seat w/225 CID

DRIVE UNITS – WHEELS

Type & material		Disc, steel			
Rim (size & flange type)	Std.	14 x 5.0 J (a)	14 x 6.0 JJ	14 x 5.5 JJ	
	Opt.	14 x 5.5 JJ (g) 15 x 7.0 JJ (f)	14 x 5.5 JJ (e) 15 x 7.0 JJ (f)	14 x 5.5 JJ (e)	
Attachment	Type (bolt or stud)	Stud			
	Circle diameter	4.5			
	Number and size	Five, 1/2-20 NF			

MODEL

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		F78 x 14, 4-2/4	F78 x 14, 4-2/4 (a)	F70 x 14, 4-2/4	G78 x 14, 4-2/4	G78 x 14, 4-2/4
	Type (bias, radial, etc.)		Bias with fiberglass belt				
	Full rated Inflation Press.	Front	28		30	22	
		Rear	28		30	32	
	Rev./Mile at 50 MPH		785 (j)		798 (h)	765 (j)	•
Optional	Size, ply rating, & ply		7.35 x 14, 4-4 (d) F78 x 14, 4-2/4 G78 x 14, 4-2/4 F70 x 14, 4-2/4 (b) F60 x 15, 4-2/4 (b, c)	G78 x 14, 4-2/4 (b) F70 x 14, 4-2/4 (b) F60 x 15, 4-2/4 (b, c)	F60 x 15, 4-2/4 (c)	H78 x 14, 4-2/4	--

BRAKES – PARKING

Type of control		Foot-operated pedal, hand release lever
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) M-price w/383 CID uses same wheels and tires as 440, 426 CID
(b) Disc or 11-inch drum brakes required
(c) Extra duty suspension required
(d) Bias type, no belt
(e) Rallye or Mag 500 wheel
(f) Standard or rallye wheel
(g) Standard, rallye, or Mag 500 wheel
(j) With 24 psi
(h) With 26 psi

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BRAKES – SERVICE

MODEL				225, 318; 383, 2-V; 383, 4-V Exc 45, 46	383, 4-V Hi-Perf 426; 440 Hi-Perf All 45, 46	45, 46	All Exc 45, 46
Type (drum) or (disc & no. of pistons)				Drum		Disc, One	
Self adjusting (std., opt., N.A.)				STD			
Special Valving	Type (proportion, delay, metering, other)			--		Front: Proportioning; Rear: Residual Pressure	
Power brake make & type (remote, int., etc.)		Std.		--		Tandem	
		Opt.		Integral		--	
Effective area (sq. in.) *				195.2	234.1	146.5	138.12 •
Gross lining area (sq. in.) **				195.2	234.1	146.5	138.12 •
Swept area (sq. in.) ***				314.2	380.1	376.4	357.98 •
Front to Rear Effectiveness Relationship				Front 60; Rear 40			
Drum	Diameter (nominal)	Front		10	11	--	
		Rear		10	11		10 •
	Type and material			Centrifuse or Cast Composite, Cast Iron		--	
Rotor	Outer working diameter			--		10.72	
	Inner working diameter			--		7.14	
	Working width			--		1.79	
	Material & type (vented/solid)			--		Vented; Cast Iron	
Wheel cylinder bore	Front			1.187		2.75 •	
	Rear			0.9375			
Master Cylinder	Bore			1.00		1.125	
	displacement distribution	Front	%	60		75 •	
		Rear	%	40		25 •	
Pedal arc ratio				Manual: 6.64		Power: 2.86	
Line pressure at 100 lb. pedal load				800		1100	
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 outboard	8.46 x 2.5 x 0.19	9.31 x 3.00 x 0.19	10.13 x 0.44 (a)	
			Second. or inboard	11.06 x 2.5 x 0.24	11.97 x 3.00 x 0.19	10.13 x 0.44 (a)	
		Segments per shoe		One			
	Rear Wheel	Material		Molded Asbestos			
		Size (length x width x thickness)	Prim. or outboard	8.46 x 2.5 x 0.19	9.31 x 2.5 x 0.19		8.46 x 2.5 x 0.19 •
			Second. or inboard	11.06 x 2.5 x 0.24	11.97 x 2.5 x 0.24		11.06 x 2.5 x 0.19 •
		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) Area x thickness •

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MODEL					Except Station Wagon	Station Wagon
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.)			43.7	44.0
		Curb to curb (l. & r.)			40.6	40.9
	Inside rear	Wall to wall (l. & r.)			23.9	24.1
		Curb to curb (l. & r.)			24.6	24.8
Manual	Gear	Type			Recirculating ball	
		Make			Chrysler	
		Ratios	Gear		24.0:1	
			Overall		28.8:1	
	No. wheel turns (stop to stop)				5.3	
Power	Type (coaxial, linkage, etc.)				Integral	
	Make				Chrysler	
	Gear	Type			Recirculating ball	
		Ratios	Gear		15.7:1	
			Overall		18.8:1	
	Pump driven by				Belt from crankshaft pulley	
	No. wheel turns (stop to stop)				3.5	
Linkage	Type				Parallelogram, trailing, equal length tie rods	
	Location (front or rear of wheels, other)				Rear	
	Drag link (trans. or longit.)				Transverse center link	
	Tie rods (one or two)				Two	
Steering Axis	Inclination at camber (deg.)				7.5° @ 0°	
	Bearings (type)	Upper			Ball joint	
		Lower			Ball joint	
		Thrust			Oil impregnated metal	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)				Manual steering: -1/2° ± 9/16° Power steering: 3/4° ± 9/16°	
	Camber (deg.)				Left: +1/2° ± 1/4° Right: +1/4° ± 1/4°	
	Toe-in (outside track inches)				1/8" ± 1/32"	
Steering spindle & joint type					Ball joint	
Wheel Spindle	Diameter	Inner bearing			1.2494	
		Outer bearing			0.7494	
	Thread size				3/4-16 UNF-3A	
	Bearing type				Roller	

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MODEL	Exc 45, 46				45, 46
	Six	V-8			All
		RL, RH, RP	RM	426-, 440 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 & 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 inch
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.)	41 x 0.86	41 x 0.88	41 x 0.90	41 x 0.92	41 x 0.86
	Spring rate (lb. per in.)	NA				
	Rate at wheel (lb. per in.)	95	102	111	118	95
Stabilizer	Type (link, linkless, frameless) link	Opt		Std		
	Material & bar diameter	0.94"				

SUSPENSION – REAR

Type and description		Parallel, longitudinal lead				
Drive and torque taken through		Rear springs				
Spring	Type	Semielliptic, asymmetrical				
	Material	Chromium alloy steel				
	Size (length x width, coil design height & I.D.; bar length & dia.)	58 x 2-1/2				
	Spring rate (lb. per in.)	90		113	130	113
	Rate at wheel (lb. per in.)	110		138	150	138
	Mounting insulation type	Rubber				
	If leaf: No. of leaves	4-1/2			6(a)	5-1/2
	If leaf: Shackle (comp. or tens.)	Compression				
Stabilizer	Type (link, linkless, frameless)	None				
	Material	--				
Track bar type		None				

(a) Right side: 5 plus 2-half leaves.

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MODEL	21	23		27	41	45	46
	L,M	M,H	P,S	M,H	L,H,P		H,P

FRAME

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

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front					
	Rear doors	--			Front		
Type of finish (lacquer, enamel, other)		Buffable acrylic enamel					
Hood counterbalanced (yes, no)		Yes					
Hood release control (internal, external)		External					
Vehicle Indent. No. location		Left end instrument panel					
Engine No. location		Not applicable					
Theft protection - type		Pin tumbler key locks on ignition switch, doors, luggage compartment, lockable steering and transmission shift					
Vent window control method (crank, friction pivot)	Front	Friction pivot					
	Rear	Swing-out (coupe); None (all others)					
Seat cushion type	Front	FW	ZZ	FW	FW		
	Rear	FW					
	3rd seat	--				ZZ	
Seat back type	Front	C	ZZ	C	FW		
	Rear	FW		C	FW	C	
	3rd seat	--				C	
Windshield glass type (i.e., single curved - laminated plate)		Single curved laminated plate					
Side glass type (i.e., curved - tempered plate)		Curved heat treated safety sheet					
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Single curved heat treated safety sheet					
Windshield glass exposed surface area		1146		1264	1317		
Side glass exposed surface area		1297	1234	1288	1333	2493	
Backlight glass exposed surface area		1158		629	1044	725	
Total glass exposed surface area		3601	3538	3181	3694	4535	

FW: Formed wire
ZZ: Zigzag
C: Coil

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MODEL	RL	RM	RH	RP	RS

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	NA	Opt(except station wagon)		
	Vent windows	NA			
	Backlight or tailgate	Opt-45, Std-46			--
Power seats (specify type as well as availability)		NA			
Reclining front seat back (R-L or both)		NA			
Front seat head restrainer (R-L or both)		Std			
Radios (specify type as well as availability)		Opt: AM, AM-FM			
Rear seat speaker		Opt(except convertibles and station wagons)			
Power antenna		NA			
Clock		Opt(NA with tachometer)			
Air conditioner (specify type and availability)		Opt: except 426 CID Hemi and 383, 4-V, 440 Hi-Perf with manual transmission			
Speed warning device		See below			
Speed control device		Opt(NA with manual transmission, 6-cyl engines & 426 CID V-8)			
Ignition lock lamp		Opt			
Dome lamp		Std: NA27			
Glove compartment lamp		Opt			
Luggage compartment lamp		Opt(except station wagons)			
Underhood lamp		Opt: dealer-installed			
Courtesy lamp		Opt(Std in all convertibles)			
Map lamp		Opt			
Auto. trans. quad. lamp		Std with automatic transmission with console			
Cornering light lamp		NA			
Shoulder belt		Std: front seat; Opt: rear seat			
Rear window defogger		Opt: except 27, 45, 46			
Tachometer		Opt(8-cyl cars only)			
Tail gate window washer		Opt with electric tail gate			--

LAMP HEIGHT AND SPACING

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

* If single headlamps are used enter here.

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WEIGHTS

6-CYLINDER MODELS	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
Model Belvedere	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
2-Door Coupe	1725	1485	3210	49.1	50.9	21.8	78.2	114	29 •
4-Door Sedan	1735	1505	3240	49.1	50.9	19.7	80.3	114	29 •
2-Seat Station Wagon	1690	2080	3770	49.4	50.6	20.2	79.8	114	29 •
Satellite									
2-Door Hardtop	1725	1485	3210	49.1	50.9	21.8	78.2	114	29 •
Convertible	1760	1580	3340	49.1	50.9	21.4	78.6	114	29 •
4-Door Sedan	1730	1500	3230	49.1	50.9	19.7	80.3	114	29 •
2-Seat Station Wagon	1705	2065	3770	49.4	50.6	20.2	79.8	114	29 •
3-Seat Station Wagon	1685	2155	3840	49.4	50.6	20.2	79.8	114	29 •

Note: All Curb Weights Include Automatic Transmission

Accessories & Equipment Differential Weights				Remarks
Air Conditioning	114	-1	113	
3-Speed Manual Trans.	-14	-8	-22	
Power Steering	43	-2	41	
Power Brakes	8	1	9	
Power Windows	8	13	21	
Radio	5	2	7	
Roof Luggage Rack	1	21	22	Wagon
Power Tail Gate Window	-2	9	7	
Undercoat	10	25	35	Except Wagon
Undercoat	7	13	20	Wagon only

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

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WEIGHTS

V-8 MODELS	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT		
				Pass. In Front		Pass. In Rear				
Model	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant	
Belvedere										
2-Door Coupe	1785	1520	3305	49.1	50.9	21.8	78.2	114	36	•
4-Door Sedan	1785	1555	3340	49.1	50.9	19.7	80.3	114	36	•
Station Wagon	1735	2080	3815	49.4	50.6	20.2	79.8	114	36	•
Road Runner										
2-Door Coupe	2000	1610	3610	49.1	50.9	21.8	78.2	114	32	•
2-Door Hardtop	2005	1635	3640	49.1	50.9	21.8	78.2	114	32	•
Convertible	2055	1725	3780	49.1	50.9	21.4	78.6	114	32	•
Satellite										
2-Door Hardtop	1785	1535	3320	49.1	50.9	21.8	78.2	114	36	•
Convertible	1820	1625	3445	49.1	50.9	21.4	78.6	114	36	•
4-Door Sedan	1785	1555	3340	49.1	50.9	19.7	80.3	114	36	•
2-Seat Station Wagon	1745	2075	3820	49.4	50.6	20.2	79.8	114	36	•
3-Seat Station Wagon	1725	2165	3890	49.4	50.6	20.2	79.8	114	36	•
Sport Satellite										
2-Door Hardtop	1785	1545	3330	49.1	50.9	21.8	78.2	114	36	•
4-Door Sedan	1795	1575	3370	49.1	50.9	19.7	80.3	114	36	•
2-Seat Station Wagon	1755	2085	3840	49.4	50.6	20.2	79.8	114	36	•
3-Seat Station Wagon	1735	2175	3910	49.4	50.6	20.2	79.8	114	36	•
GTX										
2-Door Hardtop	2040	1640	3680	49.1	50.9	21.8	78.2	114	34	•

Note: All Curb Weights Include Automatic Transmission

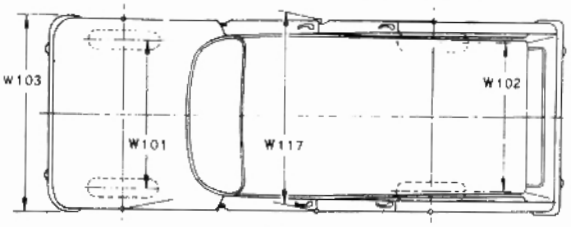
Accessories & Equipment Differential Weights				Remarks	
Air Conditioning	114	1	115		
3-Speed Manual Trans.	15	13	28		
4-Speed Manual Trans.	28	9	37	Road Runner	•
4-Speed Manual Trans.	45	58	103	GTX	
383 CID 1, 2-V	146	5	151	With automatic transmission	•
383 CID 1, 4-V	171	40	211	With automatic transmission	
Power Steering	40	-1	39		
Power Brakes	8	1	9		
Power Windows	8	13	21		
Radio	5	2	7		
Speed Control	5	0	5		•
Roof Luggage Rack	1	21	22		
Console	11	11	22		
Undercoat	10	25	35		
Undercoat	7	13	20		

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

AMA Specifications—Passenger Car

CAR AND BODY DIMENSIONS
KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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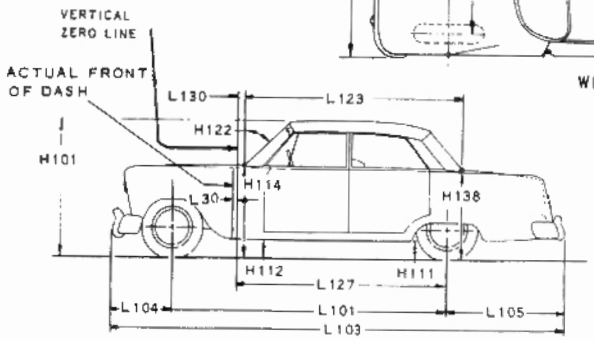

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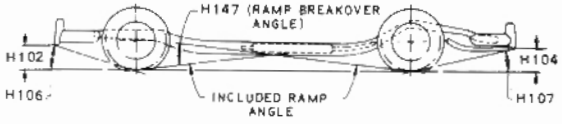
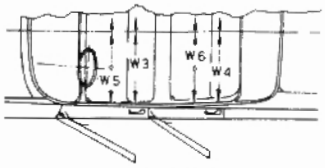


GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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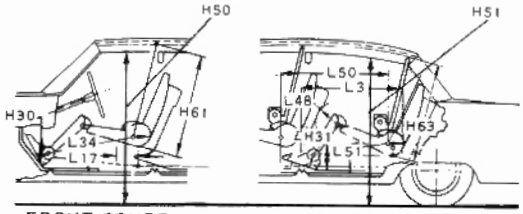
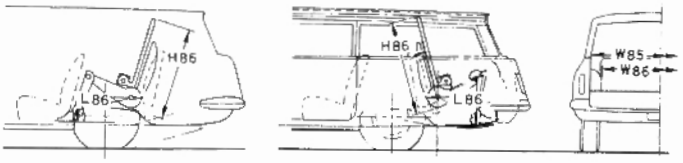
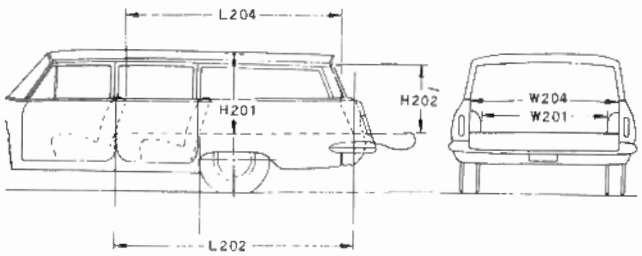


FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

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 wheelhousings at floor level.

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

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

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

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

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

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