

# AMA Specifications—Passenger Car

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<b>MANUFACTURER</b> AMERICAN MOTORS CORPORATION	<b>CAR NAME</b> •Rebel •AMX •Rambler •Ambassador •Javelin
<b>MAILING ADDRESS</b> 14250 Plymouth Rd., Detroit, Michigan 48232	<b>MODEL YEAR</b> 1969 <b>ISSUED:</b> Oct. 1, 1968 <b>REVISED (e)</b>

**NOTES: C. Chakmakian, Manager - Performance Activities, Phone 493-2677 (AC 313)**

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

"TORQUE-COMMAND" identifies 6-cylinder engines.

"TYPHOON" identifies 290 & 343 CID V-8's. "AMX" identifies 390 CID V-8.

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BODY - TYPES AND STYLE NAMES -	Body type, style names; use manufacturer's code for series & body style.			
	2-DOOR SEDAN	4-DOOR SEDAN	4-DOOR WAGON	2-DOOR HARDTOP
<b>6901: RAMBLER</b>				
BASE (Six)	6906	6905	- - -	- - -
440 (Six & V-8)	- - -	6905-5	6908-5	- - -
ROGUE (Six & V-8)	- - -	- - -	- - -	6909-7
<b>6910: REBEL (Six &amp; V-8)</b>				
BASE	- - -	6915	6918	6919
SST	- - -	6915-7	6918-7	6919-7
<b>6930: AMX (V-8)</b>	- - -	- - -	- - -	6939-7
<b>6970: JAVELIN (Six &amp; V-8)</b>				
BASE	- - -	- - -	- - -	6979-5
SST	- - -	- - -	- - -	6979-7
<b>6980: AMBASSADOR</b>				
BASE (Six & V-8)	- - -	6985-2	- - -	- - -
DPL (Six & V-8)	- - -	6985-5	6988-5	6989-5
SST (V-8)	- - -	6985-7	6988-7	6989-7

All Rambler Models have 6-Passenger room.

All Javelin Models have 4-Passenger room. AMX Sports Coupe has 2-Passenger room.

All Rebel & Ambassador Models have 6-Passenger room except:

8-Pass. for Rebel SST, & Ambassador DPL & SST 3-Seat Wagon Option.

5-Pass. for Rebel SST & Ambassador SST Hardtops with Optional Bucket Seats & Console.

Reclining Bucket Seats with Fold-Down Armrest & Center Cushion (or Console) optional on Rebel SST Hardtop & Ambassador SST Hardtop.

Reclining Buckets Standard on Javelin SST & AMX (Console, or Center Armrest & Cushion, Opt).

Non-Reclining Buckets Standard on Javelin (Console, or Center Armrest & Cushion, Opt).

Individually-Adjustable Reclining Seats Standard on Ambassador SST Models

(Optional on all other models, N.A. on Javelin & AMX).

All Rebel & Ambassador "Cross Country" Wagons have Dual-Hinged Tailgates Standard.

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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 and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	RAMBLER 6901		REBEL 6910		AMBASSADOR 6980	JAVELIN 6970		AMX 6930	
		6	V-8	6 Exc. Wag.	V-8 & 6 Wag.	6 & V-8	6	V-8	V-8	
<b>WIDTH</b>										
Track - Front	W101	56.24	56.85	59.81	60.00	60.00	58.18	58.80	58.80	
Track - Rear	W102	55.00	55.27	60.00		60.00	57.00		57.00	
Maximum overall car width	W103	70.84		77.24		77.24	71.89		71.57	
Body width at No. 2 pillar	W117	67.50		75.46		75.46	69.71		69.71	
<b>LENGTH</b>										
Body "O" to front of dash	L 30	1.50		1.50		1.50	1.50		1.50	
Wheelbase	L101	106.00		114.00		122.00	109.00		97.00	
Overall car length	L103	181.00		197.00(198Wag)		206.50(207Wag)	189.22		177.22	
Overhang - front	L104	31.70		31.90		32.90	39.70		39.70	
Overhang - rear	L105	43.30		51.10(52.1Wag)		51.60(52.1Wag)	40.52		40.52	
Body upper structure length	L123	97.81(130.48Wag)		104.70(1)		104.37(2)	102.03		90.03	
Body "O" line to $\bar{C}$ of rear wheel	L127	95.00		100.00		100.00	95.00		83.00	
Body "O" line to w/s cowl point	L130	6.72		7.50		7.23	7.95		7.95	
<b>HEIGHT</b>	Sedan	H101		54.24		55.00	51.81		- - -	
	Hardtop	H101		53.36		54.25	54.20		51.81	
Overall height Wagon	H101	55.24		56.13		56.53	- - -		- - -	
Cowl height	H114	36.38		38.44		38.34	36.65		36.54	
Deck height	H138	- - -		- - -		- - -	- - -		- - -	
Rocker panel - front	To ground	H112		8.00		9.18	9.06		8.66	
	From front wheel $\bar{C}$	- - -		- - -		- - -	- - -		- - -	
Rocker panel - rear	To ground	H111		8.11		7.69	7.60		8.22	
	From rear wheel $\bar{C}$	- - -		- - -		- - -	- - -		- - -	
Windshield slope angle	H122	48°19'		54°6'		54°6'	59°7'		59°7'	
<b>GROUND CLEARANCE</b>										
Bumper to ground - front	H102	13.34		12.93		12.42	13.27		12.79	
Bumper to ground - rear	H104	12.16		10.34		10.60	16.00		16.73	
Angle of approach	H106	27°23'		27°46'		25°27'	24°45'		23°05'	
Angle of departure	H107	17°26'		13°59'		14°11'	23°48'		25°	
Ramp breakover angle	H147	17°7'		16°59'		14°35'	16°55'		19°24'	
Min. running clearance (Specify)	H156	5.95(BellHouse)		5.92(BellHouse)		6.00(BellHouse)	5.51(Exhaust)		5.29(Exh.)	

See Page 26A, 26B and 26C for complete dimensions on all body styles.

- (1) Hardtop ... 109.64  
Wagon ..... 135.86
- (2) Hardtop ... 110.23  
Wagon ..... 135.86

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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.	RAMBLER			REBEL & AMBASSADOR			JAVELIN	AMX
		2&4-Dr Sedan	4-Door Wagon	2-Door Hardtop	4-Door Sedan	4-Door Wagon	2-Door Hardtop	2-Door Hardtop	2-Door Hardtop
<b>FRONT COMPARTMENT</b>									
Effective head room	H61	39.00	39.30	38.20	39.80	38.70	37.50	37.20	
Max. eff. leg room - accelerator	L34		42.00			42.60	43.30	43.30	
H Point to Heel point	H30		9.64			9.64	7.78	7.78	
H Point travel	L17		4.93			4.93	4.93	4.93	
Shoulder room	W 3		54.84			60.00	55.00	55.00	
Hip room	W 5		57.40			60.30	57.60	57.60	
Upper body opening to ground	H50	49.13	50.02	48.62	49.63	50.12	49.62	47.43	47.50
<b>REAR COMPARTMENT</b>									
H Point couple distance	L50		31.08			31.69	27.75	- - -	
Effective head room	H63	36.60	37.00	36.50	37.75	38.60	36.50	- - -	
Min. effective leg room	L51	35.00	35.50	35.00	38.60	35.50	31.50	- - -	
H Point to Heel point	H31		11.04			10.10	10.25	- - -	
Min. knee room	L48		2.86			3.30	1.25	- - -	
Rear Compartment room	L 3		24.82	24.76	29.60	26.26	24.20	- - -	
Shoulder room	W 4		54.82	54.20	60.00	59.00	53.20	- - -	
Hip room	W 6		57.12	56.38	60.40	59.50	56.38	- - -	
Upper body opening to ground	H51	48.72	49.68	- - -	48.31	49.59	- - -	- - -	
<b>LUGGAGE COMPARTMENT</b>									
Usable luggage capacity	V 1	12.00	- - -	12.00	18.20	- - -	18.20	10.20(1)	9.60
Liftover height	H195	28.11	- - -	28.09	28.06	- - -	28.06	28.11	28.84
Position of spare tire storage		Flat, Right, Rear			Tilted, Center, Front			(2)	(3)
Method of holding lid open		Counterbalanced Torsion Bar			Flat Wound Spring				
<b>STATION WAGON - THIRD SEAT</b>									
Shoulder Room	W85		- - -			59.25	- - -	- - -	
Hip room	W86		- - -			38.12	- - -	- - -	
Effective leg room	L86		- - -			30.75	- - -	- - -	
Effective head room	H86		- - -			36.00	- - -	- - -	
Seat facing direction			- - -			REAR	- - -	- - -	
<b>STATION WAGON - CARGO SPACE</b>									
Cargo length at floor - front seat	L202		76.78			92.63	- - -	- - -	
Cargo length at belt - front seat	L204		70.00			82.73	- - -	- - -	
Cargo width - wheelbase	W201		41.80			45.08	- - -	- - -	
Opening width at belt	W204		50.00			53.60	- - -	- - -	
Maximum cargo height	H201		29.69			31.72	- - -	- - -	
Rear opening height	H202		26.20			27.84	- - -	- - -	
Cargo volume index (cu. ft.) W6 x L204 x H201 1728	V2		66.00			91.12	- - -	- - -	

(1) 11.70 Cubic Feet with optional "Space-Saver" Spare.

(2) Javelin: Tilted, Right, Front (with optional "Space-Saver" Spare, located "Flat, Right, Rear").

(3) AMX: Flat, Right, Rear ("Space-Saver" Spare)

See Page 26A, 26B and 26C for complete dimensions on all body styles.

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## POWER TEAMS

(Indicate whether standard or optional)

ENGINE				BHP	Torque
Displ. cu. in.	Carburetor	Compr. Ratio	Fuel	RPM	RPM
199	1-Barrel	8.5	128@	182@	182@
Six	(Regular)	Fuel)	4400	1600	1600
232	1-Barrel	8.5	145@	215@	215@
Six	(Regular)	Fuel)	4300	1600	1600
232	2-Barrel	8.5	155@	222@	222@
Six	(Regular)	Fuel)	4400	1600	1600
290	2-Barrel	9.0	200@	285@	285@
V-8	(Regular)	Fuel)	4600	2800	2800
290	4-Barrel	10.0	225@	300@	300@
V-8	(Premium)	Fuel)	4700	3200	3200
343	2-Barrel	9.0	235@	345@	345@
V-8	(Regular)	Fuel)	4400	2600	2600
343	4-Barrel	10.2	280@	365@	365@
V-8	(Premium)	Fuel)	4800	3000	3000
390	4-Barrel	10.2	315@	425@	425@
V-8	(Premium)	Fuel)	4600	3200	3200

\*\* Javelin uses Floor Shift.

Optional Axle Ratios listed are available at extra cost. (less or with "Twin-Grip" &/or A.C.).

#For Javelin & AMX: with optional 343 or 390 "Performance Group" & Shift-Command; 3.15 Std., 2.87 Opt.

Dealer Kit Extra-Cost Ratios: 3.73, 3.91, 4.10, 4.44 & 5.00:1.

Engine Transmission Axle Ratio Combinations	3-Speed Manual Column Shift **	Over-drive Column Shift	Shift-Command Column Shift	Shift-Command Console Shift	4-Speed Manual Floor Shift
199, 1-Bbl., Std. Sedans Less AC	3.08 Std.	3.31 Std.	2.73 Std. 3.08 Opt.		
199, 1-Bbl., Std. Wagons (plus Sedans W/AC)			3.08 Std. 2.73 Opt.		N.A.
232, 1-Bbl., Opt. Sedans & Wag.	3.08 Std. 3.31 Opt.		3.08 Std. 3.31 Opt.		
232, 1-Bbl., Std. Hardtop	3.31 Opt.		2.37 Std. 3.08 Opt.		
290, 2-Bbl., Std. 440's & Hardtop	N.A.	N.A.	2.87 Std. 3.15 Opt.	N.A.	N.A.
290, 4-Bbl., Opt. Hardtop	N.A.			N.A.	3.54 Std.
232, 1-Bbl., Std. (N.A. AMX)	3.08 Std. 3.31 Opt.		3.08 Std. 3.31 Opt.		N.A.
290, 2-Bbl., Std. (N.A. AMX)	3.15 Std.	N.A.	2.87 Std. 3.15 Opt.	2.87 Std. 3.15 Opt.	N.A. 3.54 Std.
290, 4-Bbl., Opt. (Std. AMX)			N.A.	2.87 Std. 3.15 Opt.	3.54 Std. 3.15 Opt.
343, 4-Bbl., Opt. 390, 4-Bbl., Opt.	N.A.		*2.87 Std. & 3.15 Opt. & 3.15 Opt. & 3.15 Opt.	*2.87 Std. & 3.15 Opt. & 3.15 Opt.	3.54 Std. 3.15 Opt.
Std. 232, 1-Bbl. (N.A. AMX)	3.15 Std.	3.54 Std.	3.15 Std.		N.A.
232, 2-Bbl. Std. AMX	N.A.	N.A.	2.87 Std. 3.15 Opt.		N.A.
290, 2-Bbl., Std.					
343, 2-Bbl., Opt.					
343, 4-Bbl., Opt. 390, 4-Bbl. (N.A. AMX) Opt.					

MAKE OF CAR		AMERICAN MOTORS		MODEL YEAR 1969		DATE ISSUED 10-1-68		REVISED (e)	
Availability On Page 3		199 CID SIX 1-B. Carb.	232 CID SIX 1 & 2-B. Carb.	290 CID V-8 2 & 4-B. Carb.	343 CID V-8 2 & 4-B. Carb.	390 CID V-8 4-B. Carb.			
<b>ENGINE - GENERAL</b>									
Type, no. cyls., valve arr.		In-Line 6 OHV			90° V-8 OHV				
Bore and stroke (nominal)		3.75 x 3.00	3.75 x 3.50	3.75 x 3.28	4.08 x 3.28	4.165 x 3.574			
Piston displacement, cu. in.		199	232	290	343	390			
Bore spacing (C to C)		4.38			4.75				
No. system (front to rear)		L. Bank 1-2-3-4-5-6 R. Bank - - - - -			1-3-5-7 2-4-6-8				
Firing order		1-5-3-6-2-4			1-8-4-3-6-5-7-2				
Compress. ratio (nominal)		8.5			9.0(10.0 4-B.)		9.0(10.2 4-B.)		10.2
Cylinder Head Material		Cast Iron							
Cylinder Block Material		Cast Iron							
Cyl. Sleeve-Wet, dry, none		None							
Number of mtg. points		Front Two Rear One		Two One					
Engine installation angle		Vertical							
Taxable horsepower		33.75		45.00		53.27		55.51	
Publishing max. bhp* @ eng. RPM		128 @4400	1-B., 145 @4300 2-B., 155 @4400	2-B., 200 @4600 4-B., 225 @4700	2-B., 235 @4400 4-B., 280 @4800	315 @4600			
Publishing max. torque* (lb. ft. @ RPM)		182 @1600	1-B., 215 @1600 2-B., 222 @1600	2-B., 285 @2800 4-B., 300 @3200	2-B., 345 @2600 4-B., 365 @3000	425 @3200			
Recommended fuel regular - premium		Regular			2-B., Regular 4-B., Premium	2-B., Regular 4-B., Premium	Premium		
<b>ENGINE - PISTONS</b>									
Material		Aluminum Alloy with Steel Insert							
Description and finish		"Conformatic" Concave-Top, Solid Skirt Tin Plate, Steel-Ring Insert			"Conformatic" Flat-Top, w/Valve Pockets+Relief, Solid Skirt Tin Plate, Steel-Ring Insert (1)				
Weight (piston only) oz.		18.30	17.53	18.80	21.27	22.10			
Clearance (limits)		Top land .0280 - .0320 Skirt Top .0009 - .0025 Bottom .0009 - .0015			.0280 - .0320 .0009 - .0025 .0009 - .0015				
Ring groove depth		No. 1 ring .1930 - .1970 No. 2 ring .1930 - .1970 No. 3 ring .1923 - .1943 No. 4 ring			.1930 - .1970 .1930 - .1970 .1900 - .1905 None				

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

- (1) For 4-B. 290 CID, 2-&4-B. 343 CID, & 4-B. 390 CID:  
"Autothermic," Flat-Top with Valve Pockets,  
Slipper Skirt, Tin Plate, Steel-Strut Inserts.

NOTE ... Special High-Performance V-8 Induction Systems available as Dealer Kits:  
1. High-Riser Aluminum Intake Manifold with Holley 3-Barrel Carburetor (also 4-Barrel).  
2. Cross-Ram Aluminum Intake Manifold for Dual Holley 4-Barrel Carburetors.

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MODEL	Availability On Page 3	199 & 232 CID SIXES	290, 343 & 390 CID V-8's
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## 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 Alloy Iron, Parco Lubrite, Molybdenum-Filled Face
		#2 Alloy Iron, Parco Lubrite or Granoseal
	Width	#1 .0775-.0780, #2 .0770-.0780
	Gap	.010 - .020
Oil	Description - material, coating, etc.	Three Piece, Steel Rail Type Rail Faces Chrome Plated
	Width	.0245 Each Rail
	Gap	.015 - .055

Expanders Combination Expander - Spacer Located Between Oil Ring Rails.

## ENGINE - PISTON PINS

Material	SAE #1016 Steel		
Length	3.187	290 & 343: 3.187 (390: 2.94)	
Diameter	.93	290 & 343: .93 (390: 1.00)	
Type	Locked in rod, in piston, floating, etc.	Locked-In-Rod (Press Fit)	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.003 - .005	
	In rod	Press Fit (Locked)	
Direction & amount offset in piston	.0625 Toward Major Thrust Side		

## ENGINE - CONNECTING RODS

Material	Cast Malleable Iron, Pearlitic	290&343; Cast Malleable Iron, Pearlitic(1) 390: SAE 1042 Mod. Forged Steel	
Weight (oz.)	199; 23.31 (232; 24.65)	290 & 343; 24.16 (390; 26.03)	
Length (center to center)	199; 6.125 (232; 5.875)	290 & 343; 5.875 (390; 5.790)	
Steel-Backed, Alloy Lining	Detroit Alum. D52A Federaloy H-35LT	290&343; Clevite F-77 or Federaloy AT-20or 390; Clevite F-77 or Federaloy H-24 H-24	
Bearing	Material & Type Removable		
	Overall length	.860	290 & 343; .860 (390; .800)
	Clearance (limits)	.001 - .0015	.001 - .002
	End play	.008 - .010	.009 - .015 (Two Rods)

(1) Special Service Rods for 290 &amp; 343; SAE 4340 Forged Steel (Dealer Kit).

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MODEL On Page 3 199 & 232 CID  
SIXES 290, 343 & 390 CID  
V-8's

## ENGINE - CRANKSHAFT

Material Cast Malleable Iron, Pearlitic, or Nodular Iron (SAE 1046 Forged Steel in 390 V-8) (1)Vibration damper type Rubber & FrictionEnd thrust taken by bearing (No.) #3 #1Crankshaft end play .004 - .008 .003 - .008Steel-Backed, Alloy Lining Material & type SAE-15 Micro-Babbitt (Federaloy or Detroit Alum.) 290&343; Clevite F-500 or Federaloy H-35LT  
Removable 390; Clevite F-77 or Federaloy H-24Clearance .001 - .002Main bearing No. 1 2.4988 - 2.4995 x .981 2.7464 - 2.7479 x .941 (x .9385 in 390V-8)Journal No. 2 2.4988 - 2.4995 x .981 2.7464 - 2.7479 x .941 (x .9385 in 390V-8)dia. and No. 3 2.4988 - 2.4995 x 1.2685 2.7464 - 2.7479 x 1.2685bearing No. 4 2.4988 - 2.4995 x .981 2.7464 - 2.7479 x .941 (x .9385 in 390V-8)overall No. 5 2.4988 - 2.4995 x .981 2.7464 - 2.7479 x .941 (x .9385 in 390V-8)length No. 6 2.4988 - 2.4995 x .981 - -No. 7 2.4988 - 2.4995 x .981 - -Dir. & amt. cyl. offset NoneCrankpin journal diameter 2.0948 - 2.0955 2.0934 - 2.0955 (2.2471 - 2.2492 in 390V-8)

## ENGINE - CAMSHAFT

Location Right Side Center Between Cylinder BanksMaterial Special Cast-Iron AlloyBearings Material Steel-Backed, Micro-Babbitt Alloy, SAE-15Number Four FiveGear or chain ChainCrankshaft gear or sprocket material Sintered Iron SAE 1117 Steel (Sintered Iron, Opt.)Type of Drive Camshaft gear or sprocket material Die-Cast Aluminum with Molded Nylon TeethTiming chain No. of links 48 62Width .69 .875Pitch .50 .375

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA) YesValve rotator, type (intake, exhaust) Yes, Free Valve TypeRocker ratio 1.5 1.6Operating tappet clearance (indicate hot or cold) Intake Zero LashExhaust Zero Lash

(Continued)

(1) Special Service Crankshaft for 290 &amp; 343; SAE 1046 Forged Steel (Dealer Kit).

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Availability  
**MODEL** On Page 3      199 & 232 CID SIXES      290, 343 & 390 CID V-8's

**ENGINE - VALVE SYSTEM (cont.)**

			Standard Cam	Dealer Kit Hi-Perf. Cam	
Timing (based on top of ramp points)	Intake	Opens (°BTC)	12° - 30'	18°30'	
		Closes (°ABC)	51° - 30'	67°30'	
		Duration - deg.	244°	266°	
	Exhaust	Opens (°BBC)	53° - 30'	60°30'	70°
		Closes (°ATC)	10° - 30'	25°30'	52°
		Duration - deg.	244°	266°	302°
Valve opening overlap		23°	44°	98°	

Material		Silichrome #1 or XB		
Overall length		4.899		
Actual overall head dia.		1.787	290; 1.787 (343 & 390; 2.025)	
Angle of seat & face		Head 30°, Valve 29°		
Seat insert material		None		
Stem diameter		.3715 - .3725		
Stem to guide clearance		.0010 - .0030		
Intake	Lift (@ zero lash)		.381	.425
	Outer spring press. & length	Valve closed (lb.@in.)	95 to 105 @1.812	85 to 93@1.812
		Valve open (lb.@in.)	188 to 202 @1.437	193 to 207@1.387
	Inner spring press. & length	Valve closed (lb.@in.)	None	
		Valve open (lb.@in.)	None	

Material		SAE 21-4N		
Overall length		4.892	4.907	
Actual overall head dia.		1.406	290; 1.406 (343 & 390; 1.625)	
Angle of seat & face		Head 45°, Valve 44°		
Seat insert material		None		
Stem diameter		.3718 - .3725	.3715 - .3725	
Stem to guide clearance		.0010 - .0027	.0010 - .0030	
Exhaust	Lift (@ zero lash)		.381	.425
	Outer spring press. & length	Valve closed (lb.@in.)	95 to 105 @1.812	85 to 93@1.812
		Valve open (lb.@in.)	188 to 202 @1.437	193 to 207@1.387
	Inner spring press. & length	Valve closed (lb.@in.)	None	
		Valve open (lb.@in.)	None	

**ENGINE - LUBRICATION SYSTEM**

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Pressure Jet
	Cylinder walls	Oil Groove in Mating Surface Between Conn. Rod and Cap

(Continued)



# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED <sup>(a)</sup>

Availability MODEL On Page 3	199 & 232 CID SIXES	290, 343 & 390 CID V-8's
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**ENGINE – LUBRICATION SYSTEM (cont.)**

Oil pump type	Gear		
Normal oil pressure (lb. engine rpm)	13#min.@600rpm, 24min.@1100, 46min.@2050&over(75#max.@all rpm)		
Oil press. sending unit (elect. or mech.)	Electric		
Type oil intake (floating, stationary)	Stationary		
Oil filter system (full flow, part., other)	Full-Flow, Standard		
Filter replacement (element, complete)	Complete		
Capacity of a case, less filter-refill (qt.)	4 (5 with Filter)		
Oil grade recommended (SAE viscosity and temperature range)	Above + 32° F. . .SAE 20W-20 (or SAE 10W-30) Above 0° F. . .SAE 10W (or SAE 10W-30) Below 0° F. . .SAE 5W (or SAE 5W-20)		
Engine Service Reqmt. (MM, MS, etc.)	MS (Certified Sequence Tested)		

**ENGINE – EXHAUST SYSTEM**

	RAMBLER		REBEL & AMB.		JAVELIN	JAV. & AMX
	6	V-8	6	V-8	6	V-8
Type (single, single with cross-over, dual, other)	Single	Single w/ Cross Over	Single	S. w/C.O. or Dual	Single	S. w/C.O. or Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, Reverse Flow		One, Re- verse Flow	One, RevFlo or Two	One, Re- verse Flow	One, RevFlo or Two
Exhaust pipe dia. (O.D., wall thick.)	<del>1.88x.083</del> Front 1.75x.046 Rear	1.88x.083 2.00x.059	1.88x.083 1.88x.046	1.88x.083 2.00x.059	1.88x.083 1.88x.046	1.88x.083 2.00x.083
Tail pipe dia. (O.D. & wall thickness)	1.62x.046	2.00x.046	1.75x.059	2.00x.059	1.75x.074	2.00x.074

**ENGINE – CRANKCASE VENTILATION SYSTEM**

Type (ventilates to atmos., induction system, other)	Standard	Closed Induction System			
	Optional	None			
Control Unit	Make and model	Chicago Screw Co. & Novo Ind. Corp.			
	Location	In-Line Between Intake Manifold & Crankcase			
	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 (Carb. Base or Carb. Spacer Plate)			
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner			
	Flame arrestor (screen, check valve, other)	Check Valve function designed into PCV Valve.			

- (1) 1.75 x .042 Tailpipe for Rebel-6 Wagon
  - Exh. Front.....2.00 x .083
  - Exh. Rear.....2.00 x .059
  - Tailpipe.....2.00 x .059
- (2) Dual Exhausts Opt. With 343 V-8.
  - Exh. Front.....2.00 x .083
  - Exh. Rear.....2.00 x .059
  - Tailpipe.....2.00 x .059
- (3) Javelin; Dual Exhausts Opt. With 290 4-B V-8 & 343 V-8.
  - Exh. Front.....2.00 x .083
  - Exh. Rear.....2.00 x .059
  - Tailpipe.....2.00 x .074

# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (e)



<b>MODEL</b>	Availability On Page 3	ALL 6's. V-8's W/AUTO. TRANS.	V-8's EQUIPPED WITH MANUAL TRANSMISSION
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
**ENGINE—EXHAUST EMISSION CONTROL**

Type (Air injection, engine modifications, other)	<b>Engine-Mod</b>	<b>Air Injection (Air-Guard System)</b>
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Air Injection Pump	Type	- - -	<b>Eccentric Vane (Saginaw Steering Gear)</b>
	Displacement	- - -	<b>19.3 cu.in./rev.</b>
	Drive ratio	- - -	<b>1.25:1</b>
	Drive type	- - -	<b>Belt</b>
	Relief valve (type)	- - -	<b>Integral</b>
	Filter (describe)	- - -	<b>Centrifugal Separator (non-replaceable)</b>

Air Injection System	Air distribution (head, manifold, etc.)	- - -	<b>Separate Header Manifold</b>
	Point of entry	- - -	<b>Thru Exhaust Port</b>
	Injection tube I.D.	- - -	<b>.285</b>
	Check valve type	- - -	<b>Spring-Loaded Steel Plunger w/Asbestos seat</b>
	Backfire protection (type)	- - -	<b>Diverter Type (Holley or Rochester)</b>

Carburetor	Make		 See Page 10 
	Model		
	Barrel size		
	Idle speed	Drive Neutral	
	Idle A/F mixture		

Distributor	Aux. Adv. Systems (type)		 See Page 13 
	Make		
	Model		
	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	<b>Manifold Vacuum (Ported Above Throttle Plate)</b>
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Timing - Crank degrees @ rpm See Page 13

Cooling System None

Exhaust System None

## AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (a)

Availability  
MODEL On Page 3

199 & 232 CID SIXES	290, 343 & 390 CID V-8's
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## ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor (Downdraft)	
Fuel Tank	Refill capacity (U.S. gals.)	Rambler 16; Jav/AMX 19; Rebel & Amb. 21.5 (3 seat wagon 19)	
Fuel Tank	Filler location	(1)	
Fuel Pump	Type (elec. or mech.)	Mechanical	
Fuel Pump	Locations	Right Side, Front	
Fuel Pump	Pressure range	4 to 5.5 P.S.I.	
Vacuum booster (std., optional, none)		Standard (less booster with opt. electric wipers)	
Fuel Filter	Type	A. Saran Plastic Spool. B. 15 Micron Paper Element	
Fuel Filter	Locations	A. Gas Tank Pick-Up Tube B. Fuel Pump (or Carb.), Inlet Side	
Choke type		Automatic	
Carburetor	Intake manifold heat control (exhaust or water)	199 & 232...Exhaust 232 ROGUE...Water	Exhaust
	Air cleaner type	Standard	Cellulose Fiber Element
	Air cleaner type	Optional	None
	Idle speed (spec. neutral or drive)	Manual	600 RPM
	Automatic	525 RPM	550 RPM
	Idle A/F mix.	14.0:1 ± .2A.F.R.	14.0:1 ± .2A.F.R. (Air-Guard) 13.0:1

## CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
199 CID 128 HP OHV-6	199	Manual	Carter RBS	4633S	1,1-BBL.	1.56
		Automatic	Carter RBS	4634S	1,1-BBL.	1.56
232 CID 145 HP OHV-6	232	Manual	Carter RBS	4631S	1,1-BBL.	1.56
		Automatic	Carter RBS	4666S	1,1-BBL.	1.56
		Auto (Rogue)	Holley 1931 C	R-4294	1,1-BBL.	1.68
232 CID 155 HP OHV-6	232	Manual	Carter WCD	4667S	1,2-BBL.	1.44
		Automatic	Carter WCD	4668S	1,2-BBL.	1.44
290 CID 200 HP V-8	290	Manual	AM(FAL) 9510A	9EM2	1,2-BBL.	1.56
		Automatic	AM(FAL) 9510B	9HA2	1,2-BBL.	1.56
290 CID 225 HP V-8	290	Manual	Carter AFB	4660S	1,4-BBL.	1.44 pri.
		Automatic	Carter AFB	4661S	1,4-BBL.	1.69 sec.
343 CID 235 HP V-8	343	Automatic	AM(FAL) 9510C	9ZA2	1,2-BBL.	1.56
343 CID 280 HP V-8	343	Manual	Carter AFB	4662S	1,4-BBL.	1.44 pri.
		Automatic	Carter AFB	4663S	1,4-BBL.	1.69 sec.
390 CID 315 HP V-8	390	Manual	Carter AFB	4664S	1,4-BBL.	1.44 pri.
		Automatic	Carter AFB	4665S	1,4-BBL.	1.69 sec.

(1) Rambler: Center rear panel (right rear fender for wagons).  
Rebel & Ambassador: Left rear fender.  
Javelin & AMX: Center rear bumper.

# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (a)

Availability MODEL On Page 1 & 4	199 & 232 CID SIXES	290, 343 & 390 CID V-8's
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## ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)	Pressure		
Radiator cap relief valve pressure	14 P.S.I.		
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at (*F)	192° to 198° (1)   192° to 198°	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm	55 GPM @4400 RPM	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Double Row Ball	
By-pass recirculation type (inter., ext.)	Internal	External	
Radiator core type (cellular, tube and fin, other)	Tube & Fin		
Cooling system capacity	With heater (qt.)	10.5   290;14 (343 & 390;13)	
	Without heater (qt.)	9.5   290;13 (343 & 390;12)	
	Opt. equipment-specify (qt.)	Same	
Water jackets full length of cyl. (yes, no)	Yes		
Water all around cylinder (yes, no)	Yes		
Radiator hose	Lower	Number and type (molded, straight)	One, Molded, Curved
		Inside diameter	1.50 Body & Rad. End   1.50 Body & Rad. End 1.78 Water Pump End   1.70 Water Pump End
	Upper	Number and type (molded, straight)	One, Molded, Curved
		Inside diameter	1.50 Body & Rad. End   1.50 Both Ends 1.75 Thermostat End
	By-pass	Number and type (molded, straight)	None   One, Molded, Curved
		Inside diameter	- - -   .75
Fan	Number of blades & spacing	4 Std. (7 AC & HD)   6 Std. (7 AC & HD)	
	Diameter	15.62 (18 AC & HD)   17 (18 AC & HD)	
	Ratio-fan to crankshaft rev.	1.20:1   1.06:1	
	Fan cutout type	Power-Flex Fan (Std. with AC, Opt. HD)	
	Bearing type	Ball (All Engines)	
* Drive belts (indicate belt used by letter)	Fan	A	F
	<del>Water Pump</del> alternator	A	F
	Water Pump	A	F
	Power Steering	B	G
	Air Conditioning with PS	C & D	F & H
" " less PS	D & E	F & I	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	38°	38°	38°	38°	38°	38°	38°	38°		
Nominal length (SAE)	36.00	45.28	45.50	35.75	43.75	43.00	50.50	62.50	61.45		
Width	3/8	17/32	1/2	1/2	1/2	3/8	1/2	1/2	1/2		

(1) For Rambler Rogue with "232" Six: 202° to 209°

## AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*)

Availability MODEL On Page 1 & 4	199 & 232 CID SIXES & 290 CID V-8	343 & 390 CID V-8's
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## ELECTRICAL - SUPPLY SYSTEM

Battery	Make and Model	Globe-Union 2SM-50 (1)	Globe-Union 2SM-60 (1)	
	Voltage Rtg. & Total Plates	12 Volts, 54 Plates (1)	12 Volts, 66 Plates (1)	
	SAE Designation & Amp. Hr. Rtg.	2SM-50 A.H.@20 HRS. (1)	2SM-60 A.H.@20 HRS. (1)	
	Location	Engine Compartment, Forward		
	Terminal grounded	Negative		
Alternator	Make	Motorola	American Motors	
	Model	35 Amp: A12NAM456(7)...(2)	35 Amp: 319553(5)...(2)	
	Type and rating	Alternator with Silicon Diodes & Isolation Diode (35&55 Amp.)		
	Output at engine idle (neutral)	N.A.		
	Ratio-Gen. to Cr/s rev.	2.41:1		
Regulator	Make	Motorola (or American Motors)		
	Model	R2AM4 (AM: 3195003)		
	Type	Solid State		
	Cutout relay	Closing voltage generator rpm	N.A.	
		Reverse current to open	N.A.	
	Regulated	Voltage	15	
		Current	35 AMPS (55 Opt., Std. with A.C.)	
	Voltage test conditions	Temperature	Hot	
Load		10 AMPS.		
Other		- - -		

## ELECTRICAL - STARTING SYSTEM

		199 & 232 CID Sixes	290, 343 & 390 CID V-8's	
Starting Motor	Make	FOMOCO		
	Model	C9FF-11001-A	C7FF-11001-B	
	Rotation (drive end view)	Clockwise		
Motor control	Switch (solenoid, manual)	Solenoid		
	Starting procedure	Turn ignition key to extreme clockwise position. Automatic transmission lever must be in neutral or park position.		
Motor Drive	Engagement type	Solenoid Actuated		
	Pinion meshes (front, rear)	Front		
	Number of teeth	Pinion	9	
		Flywheel	Manual	153
	Auto.		153	164
	Flywheel tooth face width	Manual	.43	
Auto.		.38		

(1) Opt. Heavy Duty: Globe-Union 2SH-70, 12 V, 66 Plates, 70 A.H. @20 Hrs.  
All Batteries are identified: "American Motors Clear Power".

(2) Opt. 55 Amp. (Std. with Air Cond. or "Command-Air" High-Level Vent)...A12NAM606(7).

## AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (e)

Availability	199&232 CID	290, 343 & 390 CID
MODEL On Page 3	SIXES	V-8's

## ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.	Standard						
	Transistorized - Std., Opt., N.A.	N.A.	"Delcotronic" Capacitor Discharge (Dealer Kit)					
	Other (specify)	-						
Coil	Make	Delco-Remy or American Motors						
	Model	D-R:1115294(F)			D-R:1115266 (AM:3182864)			
	Amps	3.5 Engine stopped 1.6 Engine idling						
Distributor	Make	Delco-Remy	199&232 SIX	290 2-B.	290 4-B.	343 2-B.	343 4-B.	390 4-B.
	Model		1110444	1111106	1111198	1111472	1111948	1111473
	Cent'fgal adv. in c shaft degrees @ engine rpm (nominal)	Start (rpm)	600-800	650-950	750	900	800	800
	Intermediate points, deg. @ rpm		16°-20°@2000	15°-19°@1850	15°-19°@1600	15°-19°@2000	17°-21°@2000	17°-21°@1600
	Max. deg. @ rpm		24°-28°@4000	30°-34°@4400	28°-32°@3900	26°-30°@4400	28°-32°@4400	28°-32°@4400
	Vacuum adv. in c shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	5" to 7"	4" to 6"	4" to 6"	4" to 6"	4" to 6"	8" to 10"
	Intermediate points, deg. @ in. Hg.		13°@11"	14°@12"	14°@12"	14°@12"	14°@12"	13°@14.3"
	Max. deg. in. Hg.		22°@16.5"	24°@18.5"	24°@18.5"	24°@18.5"	24°@18.5"	24°@19.5"
	Breaker gap (in.)		.016					
	Cam angle (deg.)		31 to 34		29 to 31			
Timing	Breaker arm tension (oz.)	17 to 21						
	Crankshaft deg. @ rpm	TDC(±1°) (1)			TDC(±1°)			
	Mark location	Vibration Damper						
Spark Plug	Make	Champion						
	Model	N-14Y			N-12Y			
	Thread (mm)	14						
	Tightening torque (lb. ft.)	30						
	Gap	.033 to .037						
Cable	Conductor type	Carbon Core Wire						
	Insulation type	Neoprene						
	Spark plug protector	Hypalon @Spark Plug.	Vinyl @Distributor	Hypalon @Spark Plug.				Neoprene @Distributor
ELECTRICAL - SUPPRESSION		Carbon Core Ignition Wires						
Locations & type								

(1) 5° BTDC (±1°) for Auto. Trans. "199" Six &amp; Rogue "232" Six.

(2) AM:3191992

## AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*)

MODEL On Page 3 Availability 199 & 232 CID SIXES 290, 343 & 390 CID V-8's

## ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	King-Seeley
	Trip odometer (yes,no)	No
Charge indicator – type		Warning Light
Temperature indicator – type		Electrical Gauge
Oil pressure indicator – type		Warning Light
Fuel indicator – type		Electrical Gauge
Other		Dual Hydraulic Brake System Warning Light Parking Brake Warning Light
Windshield wiper	Type – Standard	Variable-Speed Vacuum
	Type – Optional	Variable-Speed Electric
Windshield washer	Type – Standard	Foot Pump Operator
	Type – Optional	Electric Powered Pump (Panel Switch)
Horn	Type	Vibrator
	Number used	2(1 on Rambler Base & Rebel Base, 2nd. Horn Dealer Accessory)
	Amp draw (each)	8.5

DRIVE UNITS – CLUTCH (Manual Transmission) 199 CID Rambler 232 CID Rambler & Javelin  
232 CID Rebel & Ambassador

6-CYL. ENGINES		Borg & Beck, Dry Type
Make & type		
Type pressure plate springs		9 Coils
Total spring load (lb.)	1176(1308 Heavy-Duty)	1627
No. of clutch driven discs		One
Clutch facing	Material	AMCO 157-80 Front, US 5935 Rear
	Outside & inside dia.	9.13 x 6.13
	Total eff. area (sq.in.)	71.88
	Thickness	.125
	Engagement cushioning method	Crimped Flat Springs
Release bearing	Type & method of lubrication	Ball, Pre-Lubricated
Torsional damping	Methods: springs, friction material	Springs, Steel-on-Steel

DRIVE UNITS – CLUTCH (Manual Transmission) 290 CID 3-Speed 290 CID 4-Speed (& Opt. for 3-Speed) 343 CID 4-Speed  
390 CID 4-Speed

V-8 ENGINES		Borg & Beck, Dry Type	Borg & Beck, Semi-Centrifugal, Dry Type
Make & type			
Type pressure plate springs	9 Coils	9 Coils & 3 Rollers	(1)
Total spring load (lb.)	1772	1710	343; 2014 (390; 2133)
No. of clutch driven discs		One	
Clutch facing	Material	AMCO 3271	JM5003-8DL
	Outside & inside dia.	10 x 6.75	10.5 x 6.5
	Total eff. area (sq.in.)	85.52	106.82
	Thickness		.125
	Engagement cushioning method		Crimped Flat Springs
Release bearing	Type & method of lubrication	Ball, Pre-Lubricated	
Torsional damping	Methods: springs, friction material	Springs, Steel-On-Steel	

(1) 343 CID: 12 Coils & 3 Rollers  
390 CID: 12 Coils & 6 Rollers

# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*)

Availability MODEL On Page 3	199 & 232 CID SIXES	290, 343 & 390 CID V-8's
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### DRIVE UNITS - TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard (NA 290 4-Bbl., 343 2-or 4-Bbl. or 390)
Manual 4-speed (std. or opt.)	NA Opt. (NA 343 2-Bbl.) Std. AMX
Manual with overdrive (std. or opt.)	Optional NA
Automatic (std. or opt.)	Optional
Column Shift	Optional
Console Shift	Optional

### DRIVE UNITS - MANUAL TRANS.

	199 SIX	232 SIX	290	290 & 343 & 390	
Number of forward speeds	3	3	3	4	
Transmission ratios	In first	2.61	2.64	2.55	2.23
	In second	1.63	1.61	1.56	1.77
	In third	1.00	1.00	1.00	1.35
	In fourth	- - -	- - -	- - -	1.00
	In reverse	3.54	2.64	2.55	2.16
Synchronous meshing, specify gears	2 & 3	1, 2 & 3	1, 2 & 3	1, 2, 3 & 4	
Shift lever location	Column	Column (Floor, Javelin)	Column (Floor, Javelin)	Floor	
Lubricant	Capacity (pt.)	1.5	2.5	3.5	
	Type recommended	Mineral Gear Lubricant			
	SAE viscosity number	Summer	80		
		Winter	80		
Extreme cold		80			

### DRIVE UNITS - MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

#### 199 & 232 Sixes

Type (planetary or other)	Planetary	
Manual lockout (yes, no)	Yes	
Downshift accelerator control (yes, no)	Yes	
Minimum cut-in speed	34 to 37 MPH	
Gear ratio	0.70:1	
Capacity (pt.)	2.75	
Separate filler (yes, no)	Yes	
Type recommended	Mineral Gear Lubricant	
Lubricant	SAE viscosity number	80
	Summer	80
	Winter	80
	Extreme cold	80



# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*)

MODEL	Availability On Page 3	199 & 232 CID SIXES	290, 343 & 390 CID V-8's
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## DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Shift-Command			
Type describe	Borg & Beck/Long Torque Converter with Planetary Gears			
Selector location	Column		Column or Console (Column, Rambler)	
	Operation	6&V-8 Col.	V-8 Con.	6&2-B, 290V-8, 4-B, 290&343/390 V-8
List gear ratios Selector Pattern and indicate which are used in each selector position	Park	P	PRK	- - -
	Reverse	R	REV	2.09:1
	Neutral	N	NTL	- - -
	1,2&3 Gears	D	DRV	1.00:1
	2 Gear	2	2ND	1.45:1
1 Gear	1	1ST	2.39:1	
Max. upshift speed—drive range	55 to 70 (65-85 Rogue 232)		60 to 75	
Max. kickdown speed—drive range	50 to 65 (50-70 Rogue 232)		55 to 65	
Torque converter	Number of elements Three			
	Max. ratio at stall 2.00 Reb, Amb. & Rogue 232 (2.15 all others) 290...2.00; 343&390...2.15			
	Type of cooling (air, liquid)		Air (Water, Opt.) Water	
Lubricant	Nominal diameter		11" All 290's...11"; 343&390...12"	
	Capacity—refill <del>max</del> Qts. Dry		9.0 (1)	
Special transmission features	Type recommended Auto. Trans. Fluid; Type A, AQ-ATF, Suffix A" or "Dexron"			
	Vacuum-Modulated Control Between Trans. & Engine. For 343&390 V-8's Altitude Compensator (Aneroid). Electric "Kick-Down" Solenoid System			

## DRIVE UNITS – PROPELLER SHAFT

Number used	Rambler	Rebel	Amb.	Javelin	AMX			
	SIX	V-8	SIX & V-8	SIX & V-8	SIX V-8 V-8			
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight Tube (with tube-in-tube ends)							
Outer diam. x length* x wall thickness	Manual 3-speed trans.	46.830 2.500 (2) .065	- - -	54.940 2.750 .083 <sup>52</sup>	59.170 3.250 .065 <sup>52</sup>	49.080 2.500 .083	47.220 2.500 .083	- - -
	Manual 4-speed trans.	- - -	48.700 2.500 .083	- - -	- - -	- - -	50.170 2.500 .083	38.180 2.500 .083
	Overdrive transmission	51.900 2.500 .065	- - -	56.150 3.000 .083 <sup>52</sup>	- - -	- - -	- - -	- - -
	Automatic transmission	44.530 2.500 .065	45.700 2.500 .083	50.340(3) 2.500 .083	54.370(4) 3.000 .083	44.530 2.500 .065	47.220 2.500 (5).083	38.180 2.500 .083

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

(Continued)

- (1) 2-B, 290...9.0 Qts.  
All 343's & 4-B, 290...9.5 Qts.  
All 390's...10.2 Qts.
- (2) 232 Six . . . 49.080 x 2.500 x .083
- (3) 290 V-8 . . . . . 51.970 x 3.000 x .083  
343 & 390 V-8.. 54.940 x 3.000 x .083
- (4) 290 V-8 . . . . . 56.200 x 3.000 x .083  
343 V-8 . . . . . 59.150 x 3.250 x .083  
390 V-8 . . . . . 58.900 x 3.250 x .065
- (5) 343 & 390 V-8 . . . 50.170 x 2.500 x .083

# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (e)

MODEL RAMBLER, JAVELIN & AMX REBEL & AMBASSADOR

**DRIVE UNITS — PROPELLER SHAFT (cont.)**

Intermediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	- - -
Slip Yoke	Type	Involute
	Number of teeth	16(28 for 4-Speed Trans.&Jav/AMX with 343 V-8 Auto. Trans.)
	Spline O.D.	1.166(1.192 for 4-Speed Trans.&Jav/AMX with 343 V-8 Auto. Trans.)
Universal joints	Make and Mfg. No.	SPICER/DANA/HAYES
	Number used	Two
	Type (ball and trunnion, cross)	Single-Pivot, Cross
	Rear attach.(u-bolt, clamp, etc.)	U-Bolt
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube or arms, springs)		Rear Springs                      4-Link Trailing Arms
Torque taken through (torque tube or arms, springs)		Rear Springs (1)                      4-Link Trailing Arms

**DRIVE UNITS — AXLE**

Type (front, rear)		Front	
Description		1 Piece Housing with Inserted Tubes. Live Axle (Conventional)	
Limited Slip differential, type		"Twin-Grip" Opt., Dana (Warner Gear.Rambler6 & Javelin-6)	
Drive Pinion Offset		1-1/2	
No. of differential pinions		Two (Four with V-8 Twin-Grip)      Two (Four with Twin-Grip)	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		Shim	
Wheel bearing type		Conic & Roller	
Lubricant	Capacity (pt.)	3 for Six, 4 for V-8                      4	
	Type recommended	Hypoid, or Multi-Purpose Gear Lube (2)	
	SAE viscosity number	Summer	80
		Winter	80
	Extreme cold	80	

**AXLE RATIO TOOTH COMBINATIONS**

(See page 3 for axle ratio usage)

**Dealer Kits**

Axle ratio	2.37	2.73	2.87	3.08	3.15	3.31	3.54	3.73	3.91	4.10	4.44	5.00
No. of teeth	Pinion	19	15	15	13	13	13	11	11	11	10	9
	Ring gear	45	41	43	40	41	43	39	41	43	41	45
Ring Gear O.D.	7.56	7.5	8.75	7.5	8.75	7.6	8.75	8.88	8.88	8.88	8.88	8.88

- (1) Plus Torque Links, Standard on AMX (Dealer Kit for Javelin & Rambler).
- (2) Special lube for opt. "Twin-Grip" differential



# AMA Specifications—Passenger Car

MAKE OF CAR		AMERICAN MOTORS		MODEL YEAR	1969	DATE ISSUED	10-1-68	REVISED (a)
MODEL		RAMBLER-6 JAVELIN-6		REBEL-6 (except wagon)		ALL V-8's & REBEL-6 WAGON		OPT. ALL V-8's DISC/DRUM COMBO
BRAKES—SERVICE				Wagner Drum (or Bendix)		Bendix Drum (or Wagner)		(2) Bendix Disc/Drum
Type (drum) or (disc & no. of pistons)				Bendix Drum		Standard		
Self adjusting (std., opt., N.A.)								
Special Valving		Type (proportion, delay, metering, other)		None				Proportioning Valve
Power brake make & type (remote, int., etc.)		Std. Opt. Bendix		Integral, Vacuum-Suspended, Single Diaphragm				(1)
Effective area (sq. in.) *		159.03		153.76		167.49		F37.2+R67.7=104.9
Gross lining area (sq. in.) **		159.03		153.76		167.49		F37.2+R67.7=104.9
Swept area (sq. in.) ***		254.43		254.43		267.07		F261+R110=371
Front to Rear Effectiveness Relationship		60.2% FRONT		59.0% FRONT		62.4% FRONT		65% FRONT
Drum	Diameter (nominal)	Front 9.00		9.00		10.00		---
		Rear 9.00		9.00		10.00		10.00
Type and material		Cast-Iron Plain Steel Center		Cast-Iron, Finned Steel Center		Cast-Iron Steel Flange Center		Cast-Iron, Steel Flange & Center
						(3)		
Rotor	Outer working diameter						11.14 (11.19 Rotor)	
	Inner working diameter						6.30	
	Working width						2.42	
	Material & type (vented/solid)						Cast-Iron/Solid	
Wheel cylinder bore	Front		1.12		1.18 (1.09 343/390 Wag)		2.0	
	Rear		.94		.94 (.88 Ramb, Jav, AMX)		(1.0 V8 Wag, Disc)	
Master Cylinder	Bore				1.00			
	displacement				.487 Cu. In. Primary Section			
	distribution				.319 Cu. In. Secondary Section			
Pedal arc ratio				5.61				
Line pressure at 100 lb. pedal load				885 Approx.				780@20" hg.
Shoe Clearance	Front		.004 to .010 @ high point on horiz. axis				O Front Disc	
	Rear		.004 to .010 @ high point on horiz. axis					
Brake Lining	Bonded or riveted				Bonded		Rear Riveted	
	Front Wheel	Material		Molded Asbestos Compound, Marshall-Eclipse		Mintex M-33		
		Size (length x width x thickness)	Prim. or out-board	7.69x2.50x.19	7.62x2.25x.19	8.90x2.50x.19	4.89x2.31x.44 (.38 usable thick)	
			Second. or in-board	9.98x2.50x.19	9.82x2.50x.19	11.06x2.50x.19	---	
	Segments per shoe				One		One ea. side of disc	
	Rear Wheel	Material		Molded Asbestos Compound, Marshall-Eclipse				
		Size (length x width x thickness)	Prim. or out-board	7.69x2.00x.19	7.62x2.00x.19	8.46x1.75x.19	8.46x1.75x.19	
Second. or in-board			9.98x2.00x.19	9.82x2.00x.19	10.88x1.75x.19	10.88x1.75x.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.)

- (1) Power is included with disc brake option.  
Bendix Integral, Vacuum-Suspended, Tandem Diaphragm (Single Diaphragm on Rambler).
- (2) Four-Wheel Disc Brakes (Kelsey-Hayes) available as Dealer Kit.
- (3) Finned Drum for Rebel or Amb. with 343 or 390 V-8.

# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (e)

	RAMBLER	REBEL	AMBASSADOR	JAVELIN & AMX
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**STEERING**

Manual (std., opt., NA)		Standard					
Power (std., opt., NA)		Optional					
Adjustable steering wheel (tilt, swing, other)	Type and description	7-Position, Vertical-Arc Adjustment for Steering Column ("Adjust-O-Tilt")					
	(std., opt., NA)	Opt. w/Auto. or 4-Speed Trans.					
Wheel diameter	Manual	16"					
	Power	16"					
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	38'	39'6"	44'9"	38'9"	35'6"
		Curb to curb (l. & r.)	36'	37'6"	42'9"	36'9"	33'6"
	Inside rear	Wall to wall (l. & r.)	19'11"	20'	24'8"	20'8"	18'11"
		Curb to curb (l. & r.)	20'4"	20'9"	25'6"	21'1"	19'4"

Manual	Gear	Type	Recirculating Ball			
		Make	Saginaw			
	Ratios	Gear	24.0:1	24.0:1	20.0:1 (1)	
		Overall	29.1:1	28.6:1	24.1:1 (1)	
No. wheel turns (stop to stop)		6.1	6.0	5.1:1 (1)		

Power	Type (coaxial, linkage, etc.)		Integral Rotary Valve with Gear Box			
	Make		Saginaw Box, Thompson Pump			
	Gear	Type	Recirculating Ball			
		Ratios	Gear	17.5:1	17.5:1	15.0:1
	Overall	21.1:1	20.9:1	18.1:1		
Pump driven by		Belt to Crankshaft Pulley				
No. wheel turns (stop to stop)		4.5	4.4	3.8:1		

Linkage	Type		Ball & Socket			
	Location (front or rear of wheels, other)		Front			
	Drag link (trans. or longit.)		Transverse			
	Tie rods (one or two)		Two			

Steering Axis	Inclination at camber (deg.)		6°30' @ 0°	6°11" (6°41' @ 0°)	6°30' @ 0°	
	Bearings (type)	Upper	(2)	Two Bushings		
		Lower	Ball Joint			
	Thrust	Ball Bearing				

Whl. Align. (range at curb wt. & preferred)	Caster (deg.)	-½° to +½° (3)	Man. & Power 0° to -1° (-½° desired)	-½° to +½° (3)
	Camber (deg.)	-3/8° to +3/8°		
	Toe-in (outside track inches)	1/16 to 3/16 (1/8 Desired)		

Steering spindle & joint type **Integral Knuckle-Pin With Upper Trunnion Joint & Lower Ball Joint**

Wheel Spindle	Diameter	Inner bearing	1.25
		Outer bearing	.75
	Thread size		.75 x 16
	Bearing type		Tapered Roller

- (1) Optional Ratio Manual Steering for Javelin & AMX ... Gear Box ... 16.0:1  
Overall .... 19.3:1  
Turns ..... 4.0:1
- (2) Rubber Bushing, "CLEVBLOC."
- (3) Power: +½° to +1½°



## AMA Specifications—Passenger Car

MAKE OF CAR	AMERICAN MOTORS			MODEL YEAR	1969			DATE ISSUED	10-1-68			REVISED (*)
MODEL	RAMBLER			REBEL & AMBASSADOR			JAVELIN					
	Sedan	Wagon	Hardtop	Sedan	Wagon	Hardtop	Hardtop					
FRAME										& AMX		

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

Single Unit Body-And-Frame  
One-Piece Uniside, Inner & Outer (4-Dr. Sedan & Wagon)  
(Outer Front Fenders Bolted On)

## BODY - MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front									
	Rear doors	Front									
Type of finish (lacquer, enamel, other)	Acrylic Enamel										
Hood counterbalanced (yes, no)	Yes										
Hood release control (internal, external)	External										
Vehicle Ident. No. location	Right Front Wheelhouse Panel.										
Top Surface, Left-Side of Instrument Panel at Base of Windshield (visible from exterior).	6-Cyl. . .Block, Upper Right Center V-8. . .Front of Right-Hand Valve Cover										
Engine No. location	6-Cyl. . .Block, Upper Right Center V-8. . .Front of Right-Hand Valve Cover										
Theft protection - type	Starter energized by ignition key. Two key system for doors and ignition locks. Shielded ignition terminals for difficult access										
Vent window control method (crank, friction pivot)	Front	Friction Pivot								(1)	None
	Rear	None								(1)	None
Seat cushion type	Front	Coil									Form Wire
	Rear	Coil (3)				Coil				(2)	Form Wire
	3rd seat	Solid Polyurethane Foam for Rebel & Ambassador 3-Seat Wagon									
Seat back type	Front	Coil									Form Wire
	Rear	Coil (3)				Coil				(2)	Form Wire
	3rd seat	Solid Polyurethane Foam for Rebel & Ambassador 3-Seat Wagon									
Windshield glass type (i.e., single curved - laminated plate)	Single, Curved Laminated Safety Plate										
Side glass type (i.e., curved - tempered plate)	Curved, Tempered Safety Glass										
Backlight glass type (i.e., compound curved - tempered plate, three piece)	One-Piece Curved, Tempered Safety Plate on all Sedans & Hardtops. Curved, Tempered Safety Glass on Wagons.										
Windshield glass exposed surface area	1086	1086	1086	1323	1323	1323		JAV.	AMX		
Side glass exposed surface area	1536	2418	1411	1396	2496	1336		1235	1235		
Backlight glass exposed surface area	834	658	1168	990	776	1275		1321	1112		
Total glass exposed surface area	3456	4162	3665	3709	4595	3934		1225	1225		
								3781	3572		

- (1) Flow-Thru fresh-air ventilation standard on Javelin & AMX.
- (2) No rear seat for AMX
- (3) Alternate Construction: Sedan ... Formed Wire for Rear Seat Cushion & Back  
Wagon ... Formed Wire for Rear Seat Cushion.

# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1969 DATE ISSUED 10-1-68 REVISED (\*)

MODEL	<u>RAMBLER</u>	<u>REBEL &amp; AMBASSADOR</u>	<u>JAVELIN &amp; AMX</u>
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## CONVENIENCE EQUIPMENT

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

Power windows	Side windows	N.A.	Opt. AMB, DPL & SST	N.A.
	Vent windows	N.A.		
	Power windows tailgate	N.A.	Opt. (Std. on 3-Seat)	- - -
Power seats (specify type as well as availability)		N.A.		
Reclining front seat back (R-L or both)		Optional for Right & Left (pairs only) (1)		
Front seat head restrainer (R-L or both)		Standard, Right & Left		
Radios (specify type as well as availability) Opt. All-Transistor		Push-Button AM	Push-Button AM or AM/FM	Push-Button AM or AM/FM. Manual AM with Tape Player
Rear seat speaker		N.A.	Optional for Radio (2)	(2)
Power antenna		N.A.		
Clock		N.A.	Opt. (Std. Amb, SST)	Optional
Air conditioner (specify type and availability) Opt. (Std. Amb.)		Front Type Recirculating, Ported Air Discharge, Adjustable Thermostat, Engine Belt Driven 2-Cyl. Alum. Compressor.		
Speed warning device		N.A.		
Speed control device Cruise-Command		N.A.	Opt. V-8 Auto. Trans.	N.A.
Ignition lock lamp		N.A.	Standard	
Dome lamp Standard		Ceiling type for Sedans & Wagons (3)		Rear Pillars (NA AMX)
Glove compartment lamp		Optional	Opt. (Std. Amb, SST)	Optional
Luggage compartment lamp		Optional	Opt. (Std. Amb, SST)	Optional
Underhood lamp		N.A.		
Courtesy lamp		Optional	Opt. (Std. Amb, SST)	Opt. (Std. AMX)
Map lamp		(See "Courtesy Light")		
Auto. trans. quad. lamp		Standard		
Cornering light lamp		N.A.		
Emergency flasher lamp		Standard (4-Way Hazard Warning Signal)		
Back-up lamp		Standard		
Tachometer		Dealer Accessory		Optional (Std. AMX)
Wagon Roof Rack		Opt.	Std.	Trunk Lid Rack, Dealer Acc
"Command-Air" High-Level Vent		N.A.	Opt. on cars less Air Cond.	

LAMP HEIGHT AND SPACING			RAMBLER			REBEL			AMBASSADOR			JAV.	AMX
			Sed.	HT	Wag.	Sed.	HT	Wag.	Sed.	HT	Wag.	HT	HT
Height above ground to center of bulb or marker	Headlamp	Highest	27.60	27.60	27.60	28.60	28.50	28.54	27.30	27.24	27.48	25.95	25.52
		Lowest	-	-	-	-	-	-	-	-	-	-	-
	Tail	Highest	24.10	24.10	24.00	29.60	29.60	28.10	24.83	24.99	28.32	25.20	25.90
		Lowest	-	-	-	23.40	23.40	-	-	-	-	-	-
Sidemarker	Front	27.90	27.90	28.15	29.77	29.68	29.69	27.45	27.38	27.68	24.02	23.58	
	Rear	24.96	24.98	26.70	26.40	26.40	28.10	24.88	24.99	28.32	25.20	25.90	
Distance from C/L of car to center of bulb	Headlamp	Inside	-	-	-	20.70	20.70	20.70	22.56	22.56	22.56	-	-
		Outside *	27.30	27.30	27.30	29.42	29.42	29.42	29.22	29.22	29.22	27.24	27.24
	Tail	Inside	-	-	-	-	-	-	19.66	19.66	-	18.35	18.35
		Outside	24.80	24.80	29.30	32.66	32.66	33.58	25.00	25.00	33.58	24.30	24.30
	Directional	Front	27.30	27.30	27.30	24.56	24.56	24.56	25.68	25.68	25.68	26.25	26.25
		Rear	24.80	24.80	29.30	32.66	32.66	33.58	25.00	25.00	33.58	24.30	24.30

\* If single headlamps are used enter here.

- Standard on Ambassador SST, Javelin SST & AMX. (Opt. on other Ramblers, Rebels & Ambassadors).
- Included with 8-Track Stereo Tape Player for Sedans & Hardtops.
- Rear Side Pillars (both) on Hardtops (except Rebel Base).



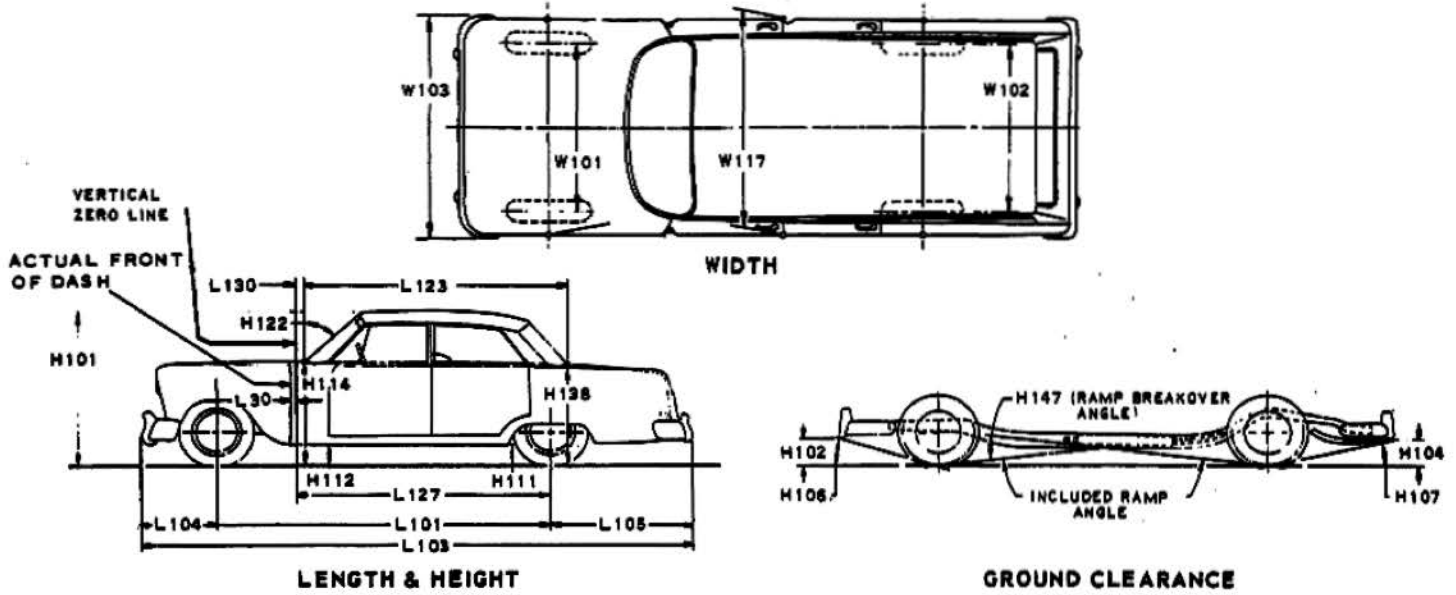


# AMA Specifications—Passenger Car

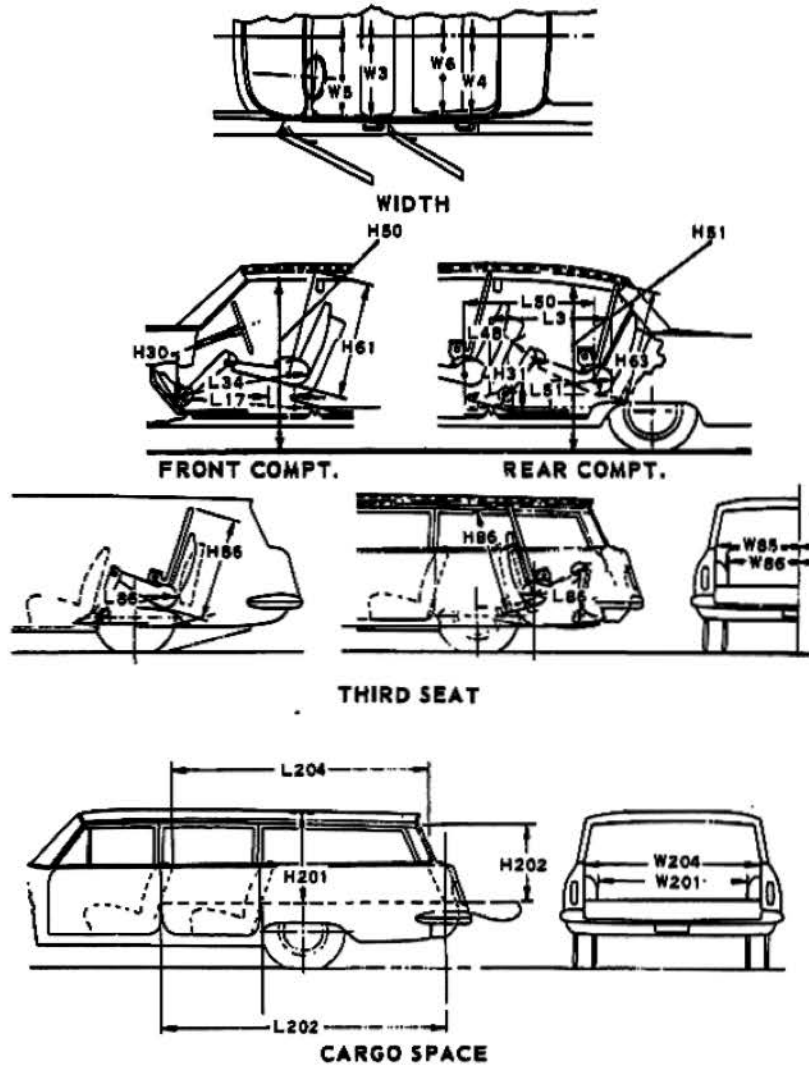
## CAR AND BODY DIMENSIONS

### KEY SHEET

#### EXTERIOR CAR AND BODY DIMENSIONS



#### INTERIOR CAR AND BODY DIMENSIONS



## CAR AND BODY DIMENSIONS

## KEY SHEET

## DIMENSION DEFINITIONS

## EXTERIOR WIDTH DIMENSIONS

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

## EXTERIOR LENGTH DIMENSIONS

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

## EXTERIOR HEIGHT DIMENSIONS

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

## GROUND CLEARANCE DIMENSIONS

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

## FRONT COMPARTMENT DIMENSIONS

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

## FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.  
 W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.  
 H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.  
 REAR COMPARTMENT DIMENSIONS  
 L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.  
 H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.  
 L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.  
 H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.  
 L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.  
 L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.  
 W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.  
 W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.  
 H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

## LUGGAGE COMPARTMENT DIMENSIONS

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

## STATION WAGON - THIRD SEAT DIMENSIONS

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

## STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.  
 L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.  
 W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouses at floor level.  
 W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.  
 H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.  
 H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.  
 V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201  
 1728

1969 AMERICAN MOTORS CORPORATION  
CAR AND BODY DIMENSIONS \*  
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EXTERIOR

CODE NO.	DESCRIPTION	RAMBLER		REBEL		AMBASSADOR		JAVELIN		AMX
		4-Door Sedan 6905 6905-5	2-Door Hardtop 6909-7	4-Door Wagon 6908-5	4-Door Sedan 6915-7	2-Door Hardtop 6919-7	4-Door Wagon 6918-7	4-Door Sedan 6985-2 6985-5 6985-7	2-Door Hardtop 6979-5 6979-7	
W101	TREAD - FRONT	56.24 (55.85 V8)			59.81 (60.00 V8)	60.00	60.00	60.00	58.18-6	58.80
W102	TREAD - REAR	55.00 (55.27 V8)			60.00	60.00	60.00	60.00	58.80	58.80
W103	MAXIMUM OVERALL WIDTH OF CAR	70.84	70.84	70.84	77.24	77.24	77.24	77.24	71.89	71.57
W116	MAXIMUM OVERALL WIDTH OF BODY	69.52	69.52	69.52	77.24	77.24	77.24	77.24	71.89	71.57
W117	MAXIMUM BODY WIDTH AT #2 PILLAR	67.50	67.50	67.50	75.46	75.46	75.46	75.46	69.71	69.71
W106	FRONT FENDER OVERALL WIDTH	69.52	69.52	69.52	77.24	77.24	77.24	77.24	70.69	70.69
W107	REAR FENDER OVERALL WIDTH	68.50	68.50	68.50	76.76	76.76	76.76	76.76	71.89	71.89
W120	MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN	137.08	152.76	137.08	143.14	166.86	143.14	143.14	152.90	152.90
W121	MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN	128.96	---	128.96	140.60	---	140.60	---	---	---
L30	BODY ZERO LINE TO ACTUAL FRONT OF DASH	1.50	1.50	1.50	1.50	1.50	1.50	1.50	---	---
L101	WHEELBASE	106.00	106.00	106.00	114.00	114.00	122.00	122.00	109.00	97.00
L104	OVERHANG, FRONT	31.70	31.70	31.70	31.90	31.90	32.90	32.90	39.70	39.70
L105	OVERHANG, REAR	43.30	43.30	43.30	51.10	51.10	51.60	51.60	40.52	40.52
L103	OVERALL LENGTH	181.00	181.00	181.00	197.00	198.00	206.50	207.00	189.22	177.22
L128	HOOD LENGTH AT CENTERLINE	47.91	47.91	47.91	52.07	52.07	61.75	61.75	60.45	60.45
L123	BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE	97.81	97.81	130.48	104.70	109.64	135.86	104.37	110.23	135.86
L129	DECK LENGTH AT CENTERLINE	32.27	32.27	---	38.68	33.74	---	38.30	32.44	---
L127	BODY ZERO LINE TO CENTERLINE OF REAR WHEELS	95.00	95.00	95.00	100.00	100.00	100.00	100.00	95.00	83.30
L130	BODY ZERO LINE TO WINDSHIELD COWL POINT	6.72	6.72	6.72	7.50	7.50	7.23	7.23	7.95	7.95
L102	TIRE SIZE (STANDARD)	6.45-14	6.45-14	6.45-14	7.35-14	7.35-14	7.75-14	7.75-14	6.95-14	6.95-14
H101	DESIGN LOAD (PASS. DISTR.)	---	---	---	---	---	---	---	---	---
H101	OVERALL HEIGHT	54.24	54.24	53.36	55.24	55.00	56.13	55.00	51.81	51.73
H114	COWL TO GROUND	36.38	36.36	36.36	36.79	38.44	38.98	38.34	36.65	36.54
H112	ROCKER PANEL TO GROUND - FRONT	8.00	7.95	7.95	8.40	9.18	9.78	9.06	8.66	8.58
H111	ROCKER PANEL TO GROUND - REAR	8.11	8.08	8.08	9.25	7.69	7.95	7.60	8.22	8.58
H132	BOTTOM OF DOOR TO GROUND, OPEN - FRONT	12.67	12.77	13.03	12.63	12.68	13.61	12.53	13.68	13.80
H134	BOTTOM OF DOOR TO GROUND, OPEN - REAR	11.68	---	12.04	11.51	---	12.80	11.61	---	---
H122	WINDSHIELD SLOPE ANGLE	48°19'	48°19'	48°19'	54°6'	54°6'	54°6'	54°6'	59°7'	59°7'
H125	HEADLAMP TO GROUND	27.60	27.60	27.60	28.60	28.50	27.30	27.24	27.48	25.52
H126	TAILLAMP TO GROUND	24.10	24.10	24.00	29.60	29.60	28.10	24.83	25.20	25.90
H136	BODY ZERO TO GROUND - FRONT	7.33	7.32	7.32	7.57	7.89	7.83	7.89	8.41	7.74
H137	BODY ZERO TO GROUND - REAR	6.48	6.49	6.49	7.82	6.09	6.15	6.02	6.08	7.48
H133	BOTTOM OF DOOR TO GROUND, CLOSED - FRONT	11.55	11.50	11.50	11.42	11.29	12.52	11.34	11.25	12.00
H135	BOTTOM OF DOOR TO GROUND, CLOSED - REAR	11.30	---	---	10.97	---	12.44	10.91	---	---
H198	ROOF THICKNESS	5.52	5.52	4.88	5.56	5.08	3.44	2.08	3.44	5.20
H139	D/O HEIGHT	13.11	13.11	12.62	13.11	13.18	13.70	13.18	13.18	12.25
H160	BODY THICKNESS	35.86	35.86	35.86	36.22	28.39	28.39	28.39	28.39	27.02
H195	LIFTOVER HEIGHT	28.11	28.09	28.09	---	28.06	28.06	28.01	28.13	28.11

GROUND CLEARANCE

H102	FRONT BUMPER TO GROUND	13.34	13.34	13.32	12.93	12.82	12.86	12.42	12.38	12.59
H104	REAR BUMPER TO GROUND	12.16	12.16	13.89	10.34	10.41	11.61	10.60	10.72	11.84
H106	ANGLE OF APPROACH	27°23'	27°23'	27°23'	27°46'	27°31'	28°33'	25°27'	25°34'	24°45'
H107	ANGLE OF DEPARTURE	17°26'	17°26'	21°05'	13°59'	14°05'	14°28'	14°13'	14°47'	23°48'
H147	RAMP BREAKOVER ANGLE	17°7'	17°7'	18°47'	16°59'	17°1'	18°48'	14°35'	15°49'	16°55'
H148	FRONT SUSPENSION TO GROUND	5.95	5.95	6.31	6.54	6.54	6.94	6.41	6.41	7.06
H149	OIL PAN TO GROUND	5.95	5.95	6.31	6.02	6.02	6.40	6.10	6.10	6.30
H150	FLYWHEEL HOUSING/TRANS. ASSY. TO GROUND	5.95	5.95	6.31	5.92	5.92	6.30	6.00	6.00	6.65
H151	FRAME TO GROUND	5.95	5.95	6.31	6.17	6.17	6.85	6.25	6.25	7.15
H152	EXHAUST SYSTEM TO GROUND	6.01	6.01	6.37	6.17	6.17	6.55	6.25	6.25	7.74
H153	REAR AXLE DIFFERENTIAL SYSTEM TO GROUND	7.30	7.30	7.66	7.32	7.32	7.10	6.45	6.45	7.45
H154	FUEL TANK TO GROUND	7.30	7.30	7.66	7.32	7.32	8.59	7.40	7.40	8.94
H155	TIRE WELL TO GROUND	---	---	---	---	---	9.69	---	---	10.04
H156	MINIMUM RUNNING GROUND CLEARANCE	5.95	5.95	6.31	5.92	5.92	6.30	6.00	6.00	6.65
H156	POSITION ON CAR	H 150	H 150	H 150	H 150	H 150	H 150	H 150	H 150	H 152

\* For Dimension Definitions See Section E1, SAE Aerospace - Automotive Drawing Standards

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		RAMBLER				REBEL			AMBASSADOR			TAVELIN		AMX
		4-Door Sedan 6905	2-Door Sedan 6906	2-Door Hardtop 6909-7	4-Door Wagon 6908-5	4-Door Sedan 6915	2-Door Hardtop 6919-7	4-Door Wagon 6918-7	4-Door Sedan 6985-2	2-Door Hardtop 6989-5	4-Door Wagon 6988-5	2-Door Hardtop 6979-5	2-Door Sport Coupe 6939-7	
INTERIOR		CODE NO. DESCRIPTION												
FRONT COMPARTMENT	L31	43.92	43.92	43.92	43.92	43.97	43.97	43.97	43.97	43.97	43.97	45.00	45.00	
	H70	11.84	11.84	11.84	11.84	11.84	11.84	11.84	11.84	11.84	11.84	10.20	10.20	
	H61	39.00	39.00	38.20	39.30	39.80	38.70	39.80	39.80	38.70	39.80	37.50	37.20	
	H37	0.56	0.56	0.56	0.56	0.50	0.50	0.50	0.50	0.50	0.50	0.57	0.57	
	L34	42.00	42.00	42.00	42.00	42.60	42.60	42.60	42.60	42.60	42.60	43.30	43.30	
	H30	9.64	9.64	9.64	9.64	9.64	9.64	9.64	9.64	9.64	9.64	7.78	7.78	
	H67	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	
	L40	23°	23°	23°	23°	24°	24°	24°	24°	24°	24°	24°	24°	
	L42	101°	101°	101°	101°	100°20'	100°20'	100°20'	100°20'	100°20'	100°20'	102°	102°	
	L44	134°50'	134°50'	134°50'	134°50'	134°10'	134°10'	134°10'	134°10'	134°10'	134°10'	143°50'	143°50'	
	L46	85°	85°	85°	85°	84°	84°	84°	84°	84°	84°	93°30'	93°30'	
	H45	0	0	0	0	0	0	0	0	0	0	0	0	
	H54	1.13	1.13	1.13	1.13	1.42	1.42	1.42	1.42	1.42	1.42	1.42	0.36	0.36
	L53	34.70	34.70	34.70	34.70	36.12	36.12	36.12	36.12	36.12	36.12	36.23	36.23	
	L17	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	
H58	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86		
H75	---	---	---	---	---	---	---	---	---	---	---	---		
L50	31.08	31.08	31.08	31.08	34.77	31.69	34.77	31.69	34.77	31.69	34.77	27.75		
H71	12.62	12.62	12.62	12.62	12.54	11.84	12.54	12.54	11.84	12.54	10.00	---		
H63	36.60	36.60	36.50	37.00	37.75	36.50	38.60	37.75	36.50	38.60	36.00	---		
H38	0.56	0.56	0.56	0.56	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50		
L51	35.00	35.00	35.00	35.00	38.60	35.50	38.60	38.60	35.50	38.60	31.50	---		
H31	11.04	11.04	11.04	11.04	10.82	10.10	10.82	10.82	10.10	10.82	10.25	---		
H68	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	---		
L48	2.86	2.86	2.86	2.86	5.70	3.30	5.70	3.30	5.70	3.30	1.25	---		
L3	24.82	24.82	24.76	24.82	29.60	26.25	29.60	29.60	26.25	29.60	24.20	---		
L41	20°	20°	20°	20°	18°	18°	18°	18°	18°	18°	20°	---		
L43	81°	81°	81°	81°	85°40'	78°	85°40'	85°40'	78°	85°40'	75°30'	---		
L45	90°	90°	90°	90°	108°	92°	108°	108°	92°	108°	79°	---		
L47	121°	121°	121°	121°	134°	126°	134°	134°	126°	134°	114°	---		
H66	0	0	0	0	0	0	0	0	0	0	0	0		
H55	1.06	1.06	1.06	1.06	1.01	0.60	1.01	1.01	0.60	1.01	---	---		
H76	---	---	---	---	---	---	---	---	---	---	---	---		
SEAT & ENTRANCE - FRONT	W3	54.84	54.84	54.84	54.84	60.00	60.00	60.00	60.00	60.00	60.00	55.00	55.00	
	W5	21.75	21.75	21.75	21.75	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25	
	W16	51.30	51.30	51.30	51.30	53.60	53.60	53.60	53.60	53.60	53.60	54.00	54.00	
	H50	49.13	49.11	48.62	50.02	49.63	50.12	50.62	49.50	50.04	50.82	47.43	47.50	
	H11	30.47	30.47	29.94	30.48	30.80	31.30	30.80	30.80	31.30	30.80	29.89	29.82	
	H115	13.25	13.25	13.25	13.61	13.64	13.54	14.45	13.52	13.44	14.66	13.76	13.79	
	H130	14.79	14.79	14.79	15.15	15.08	15.08	15.61	15.19	15.19	16.07	15.08	14.44	
	L18	14.75	14.75	14.75	14.75	15.33	15.33	15.33	15.33	15.33	15.33	14.00	14.00	
	H32	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.60	3.60	
	L14	5.50	5.50	5.50	5.50	5.45	5.45	5.45	5.45	5.45	5.45	5.10	5.10	
	W17	---	---	---	---	---	---	---	---	---	---	---	---	
	H3	11.75	11.75	11.75	11.75	12.00	12.00	12.00	12.00	12.00	12.00	10.10	10.10	
	H79	---	---	---	---	---	---	---	---	---	---	---	---	
	L9	---	---	---	---	---	---	---	---	---	---	---	---	
	H26	41.44	41.44	40.53	41.75	42.37	41.51	42.30	42.37	41.51	42.30	38.89	37.86	
H27	45.53	45.53	44.53	45.66	46.42	44.61	46.05	46.42	44.61	46.05	44.39	43.92		
SEAT & ENTRANCE - REAR	W4	54.82	54.82	54.20	54.82	60.00	59.00	60.00	60.00	59.00	60.00	53.20	---	
	W6	21.75	21.75	21.75	21.75	22.25	22.25	22.25	22.25	22.25	22.25	22.25	22.25	
	H51	48.72	---	---	49.68	48.90	---	50.14	48.84	---	50.36	---	---	
	H12	29.39	---	---	29.37	29.68	---	29.68	29.68	---	29.68	---	---	
	H116	12.99	---	---	13.35	12.95	---	14.24	12.88	---	14.45	---	---	
	H131	15.22	---	---	15.58	14.98	---	15.94	15.06	---	16.18	---	---	
	H69	28.75	---	---	28.69	29.60	---	29.60	29.60	---	29.60	---	---	
	L19	11.00	---	---	11.00	11.00	---	11.00	11.00	---	11.00	---	---	
	H33	3.12	3.12	4.00	3.12	4.00	3.82	3.70	4.00	3.82	3.70	4.75	---	
	L15	6.80	6.80	7.78	6.28	6.45	7.40	6.24	7.50	7.40	6.24	6.20	---	
	W18	---	---	---	---	---	---	---	---	---	---	---	---	
	H8	12.62	12.62	12.62	12.62	12.50	12.31	12.50	12.50	12.31	12.50	12.50	---	
	H74	---	---	---	---	---	---	---	---	---	---	---	---	
	L16	---	---	---	---	---	---	---	---	---	---	---	---	
	H28	39.26	39.26	38.91	40.61	40.34	38.27	41.03	40.34	38.27	41.03	35.16	---	
H29	40.38	40.38	40.05	41.68	42.26	40.22	42.56	42.26	40.22	42.56	38.79	---		
VISION & CONTROL	H6	18.86	18.86	18.86	18.86	19.29	19.29	19.29	19.29	19.29	19.29	19.76	19.76	
	H64	32.04	32.04	32.04	31.84	32.23	32.23	32.23	32.23	32.23	32.23	31.03	31.03	
	L49	18.28	18.28	18.28	18.24	15.00	15.00	15.00	15.00	15.00	15.00	13.78	13.78	
	H25	17.31	17.31	17.31	17.31	17.52	17.52	17.52	17.52	17.52	17.52	17.10	17.10	
	W7	13.67	13.67	13.67	13.67	15.08	15.08	15.05	15.05	15.05	15.05	13.67	13.67	
	W9	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	
	H18	21°7'42"	21°7'42"	21°7'42"	21°7'42"	20°4'14"	20°4'14"	20°4'14"	20°4'14"	20°4'14"	20°5'32"	17°50'	17°50'	
	H49	22.98	22.98	22.98	22.98	22.95	22.95	22.95	22.95	22.95	22.95	22.82	22.82	
	L7	13.17	13.17	13.17	13.17	12.64	12.64	12.64	12.64	12.64	12.64	11.86	11.86	
	H13	4.05	4.05	4.05	4.05	5.20	5.20	5.20	5.20	5.20	5.20	4.91	4.91	
	L13	32.12	Manual	25.82	Power	24.50	Manual	26.88	Power	---	---	23.6(a)	23.6(a)	
	L52	4.28	Manual	1.48	Power	4.38	Manual	1.96	Power	---	---	4.28(b)	4.28(b)	
	W22	18°15'	18°15'	18°15'	18°15'	21°6'	21°6'	21°6'	21°6'	21°6'	21°6'	23°50'	23°50'	

\* For Dimension Definitions See Section E1, SAE Aerospace - Automotive Drawing Standards

(a) Power 26.35, Disc 25.92

(b) Power 1.56, Disc 1.96

1969 AMERICAN MOTORS CORP.  
STATION WAGON THIRD SEAT DIMENSIONS \*  
AMA SPECIFICATIONS SUPPLEMENT  
ISSUED ... 10-1-68

CODE NO	DESCRIPTION	REBEL	AMBASSADOR		
		4-Door Wagon 6918-7	4-Door Wagon 6988-5 6988-7		
	SEAT FACING DIRECTION	Rear	Rear		
W85	SHOULDER ROOM	59.25	59.25		
W86	HIP ROOM	38.12	38.12		
L85	H POINT COUPLE DISTANCE	35.66	35.66		
H86	EFFECTIVE HEAD ROOM	36.00	36.00		
L86	EFFECTIVE LEG ROOM	30.75	30.75		
H87	H POINT TO HEEL POINT	12.58	12.58		
H88	H POINT TO BODY ZERO	14.25	14.25		
L87	KNEE ROOM	12.66	12.66		
L88	BACK ANGLE	14°	14°		
L89	HIP ANGLE	73°	73°		
L90	KNEE ANGLE	72°	72°		
L91	FOOT ANGLE	91°	91°		
W87	HAT ROOM	- -	- -		
H89	EFFECTIVE T POINT HEADROOM	- -	- -		
H90	H POINT TO HEEL HARD	11.55	11.55		

## STATION WAGON CARGO SPACE DIMENSIONS \*

	DESCRIPTION	Rambler	Rebel	Ambassador
		4-Door Wagon 6908-5	4-Door Wagon 6918 6918-7	4-Door Wagon 6988-5 6988-7
L200	MAXIMUM CARGO LENGTH - FRONT SEAT	99.43	114.90	114.90
L201	MAXIMUM CARGO LENGTH - SECOND SEAT	67.06	78.83	78.83
L202	CARGO LENGTH AT FLOOR - FRONT SEAT	76.78	92.63	92.63
L203	CARGO LENGTH AT FLOOR - SECOND SEAT	43.47	56.53	56.53
L204	CARGO LENGTH AT BELT - FRONT SEAT	70.00	82.73	82.73
L205	CARGO LENGTH AT BELT - SECOND SEAT	37.37	46.74	46.74
L206	CARGO LENGTH AT ROOF - FRONT SEAT	64.77	75.33	75.33
L207	CARGO LENGTH AT ROOF - SECOND SEAT	32.90	39.36	39.36
W200	CARGO WIDTH - FRONT	(1)	(2)	(2)
W201	CARGO WIDTH - WHEELHOUSE	41.80	45.08	45.08
W203	REAR OPENING WIDTH AT FLOOR	50.70	53.66	53.66
W204	OPENING WIDTH AT BELT	50.00	53.60	53.60
W205	MAXIMUM REAR OPENING WIDTH ABOVE BELT	50.00	45.60	45.60
H201	MAXIMUM CARGO HEIGHT	29.69	31.72	31.72
H202	REAR OPENING HEIGHT	26.20	27.84	27.84
H250	TAILGATE TO GROUND HEIGHT	26.54	24.75	24.75
V2	CARGO VOLUME	66.00	91.12	91.12

\* For Dimension Definitions See Section E1, SAE Aerospace - Automotive Drawing Standards

- (1) 53.44 (1" Forward of Tailgate Pillar)  
 (2) 2-Seat: 57.12 (1" Forward of Tailgate Pillar)  
 3-Seat: 53.86 (8" Forward of Tailgate Pillar)

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