AMA-40A
1970

AMA Specifications—Passenger Car

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

MANUFACTURER	CAR NAME .Rebel .AMX .Hornet .Ambassador .Javelin .Gremlin
AMERICAN MOTORS CORPORATION	
MAILING ADDRESS	MODEL YEAR / ISSUED / REVISED (•)
14250 Plymouth Rd., Detroit, Michigan 48232	1970 / Sept. 25, 1969 / Apr. 1, 1970

NOTES: C. Chakmakian, Manager - Product Information Dept., Phone 493-2557 (AC 313)

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.

TABLE OF CONTENTS

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

BODY – TYPES AND STYLE NAMES –

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

	2-DOOR SEDAN	4-DOOR SEDAN	4-DOOR WAGON	2-DOOR HARDTOP
7001: HORNET; BASE (Six)	7006-0	7005-5	- - -	- - -
SST (Six & V-8)	7006-7	7005-7	- - -	- - -
(•) 7040: GREMLIN (Six); 2-Passenger	7046-0	- - -	- - -	- - -
4-Passenger	7046-5	- - -	- - -	- - -
7030: AMX (V-8)	- - -	- - -	- - -	7039-7
7070: JAVELIN (Six & V-8); BASE	- - -	- - -	- - -	7079-5
SST	- - -	- - -	- - -	7079-7
7010: REBEL (Six & V-8); BASE	- - -	7015-0	7018-0	7019-0 (& Machine)
SST	- - -	7015-7	7018-7	7019-7
7080: AMBASSADOR; BASE (Six & V-8)	- - -	7085-2	- - -	- - -
DPL (V-8)	- - -	7085-5	7088-5	7089-5
SST (V-8)	- - -	7085-7	7088-7	7089-7

All Hornet Models have 5-Passenger room. Gremlin is 2- or 4-passenger.
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 Opt. Bucket Seats(Std. on Machine)
Bucket Seats with Fold-Down Armrest & Center Cushion (or Console) opt. on Rebel SST Hardtop & Ambassador SST Hardtop (Std. on Rebel "Machine", less Armrest & Cushion).
Bucket Seats with Fold-Down Armrest & Center Cushion Std. on Javelin SST (Console Opt.).
Bucket Seats Standard on Javelin & AMX (Console or Center Armrest & Cushion, Opt.).
Bucket Seats Optional on Gremlin 4-Passenger Model.
Individually-Adjustable Reclining Seats Standard on Ambassador SST Models, Optional on Ambassador Base & DPL, all Rebels (except "Machine") & Hornet SST.
All Rebel & Ambassador Wagons have Dual-Hinged Tailgate as Standard.
Gremlin 4-Passenger Model has Fold-Down Rear Seat & Liftgate Window.
Roof Rack Standard on Rebel SST & All Ambassador Wagons (Optional on Gremlins).

Form Rev. 3-68

AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

CAR AND BODY DIMENSIONS

See Pages 25, 27 & 30 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.

See Pages 26, 28 & 29 for complete dimensions on all body styles.

MODEL	SAE Ref. No.	HORNET 7001		(•) GREMLIN 7040	REBEL 7010			AMBASSADOR 7080			JAVELIN 7070		AMX 7030
WIDTH		6	V-8	Sedan	Sedan	Hardtop	Wagon	Sedan	Hardtop	Wagon	6	V-8	V-8
Track – Front	W101	57.46	57.24	57.46	60.00			60.00			59.30	59.70	59.70
Track – Rear	W102	57.00		57.00	60.00			60.00			57.00		57.00
Maximum overall car width	W103	70.58		70.58	77.24			77.24			71.89		71.57
Body width at No. 2 pillar	W117	67.88		67.88	75.46			75.46			69.71		69.71
LENGTH													
Body "O" to front of dash	L 30	1.50		1.50	1.50			1.50			1.50		1.50
Wheelbase	L101	108.00		96.00	114.00			122.00			109.00		97.00
Overall car length	L103	179.26		161.25	199.00	199.00	198.00	208.00	208.00	207.00	191.04		179.04
Overhang – front	L104	33.25		33.25	31.90			32.90			41.52		41.52
Overhang – rear	L105	38.01		32.00	53.10	53.10	52.10	53.10	53.10	52.10	40.52		40.52
Body upper structure length	L123	96.10		94.37	104.70	109.64	135.86	104.37	110.23	135.86	102.03		90.03
Body "O" line to ℄ of rear wheel	L127	96.00		84.00	100.00			100.00			95.00		83.00
Body "O" line to w/s cowl point	L130	9.12		9.12	7.50			7.23			7.95		7.95
HEIGHT													
Passenger Distribution (front & rear)		3-2		2-2	2-3 (capacity 3-3)			2-3 (capacity 3-3)			2-2		2-0
Trunk/Cargo load (lbs.)		175		175	200	200	300	200	200	300	200		200
Overall height	H101	52.25		51.80	55.03	54.41	56.69	55.21	54.61	56.88	51.53		51.40
Cowl height	H114	36.54		35.83	38.47	38.47	39.21	38.71	38.71	39.56	36.57		36.50
Deck height	H138	- - -		- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		- - -
Rocker panel – front — To ground	H112	8.20		7.60	9.10	9.10	10.00	9.32	9.32	10.31	8.90		8.66
Rocker panel – front — From front wheel ℄	H112	- - -		- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		- - -
Rocker panel – rear — To ground	H111	6.90		6.41	8.16	8.16	9.86	8.33	8.33	9.97	8.27		8.15
Rocker panel – rear — From rear wheel ℄	H111	- - -		- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		- - -
Windshield slope angle	H122	57°30'		57°30'	54°6'			54°6'			59°7'		59°7'
GROUND CLEARANCE													
Bumper to ground – front	H102	17.35		16.70	12.67	12.67	12.84	12.86	12.86	13.33	12.72		12.51
Bumper to ground – rear	H104	15.30		14.70	15.60	15.60	12.79	15.70	15.70	12.71	15.22		15.55
Angle of approach	H106	26°56'		27°4'	27°46'	27°37'	28°33'	25°27'	25°21'	26°34'	24°45'		23°5'
Angle of departure	H107	19°0'		23°0'	13°59'	14°05'	14°28'	14°14'	14°13'	14°47'	23°48'		25°
Ramp breakover angle	H147	16°20'		17°0'	16°59'	17°01'	18°48'	14°35'	15°49'	16°54'	16°55'		19°24'
Min. running clearance (Specify)	H156	5.21		5.01	6.08	6.08	6.60	6.45	6.45	7.00	5.11		5.30
" " " Location		Exhaust		R.Axle	Front Suspension			Rear Axle Diff.		F.Susp.	Exhaust		Exhaust

AMA Specifications—Passenger Car

Page 2

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (●) 4-1-70

CAR AND BODY DIMENSIONS

See Pages 25, 27 & 30 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

See Pages 26, 28 & 29 for complete dimensions on all body styles.

MODEL	SAE Ref. No.	HORNET 7001	(●) GREMLIN 7040	REBEL & AMBASSADOR 7010 & 7080			JAVELIN 7070	AMX 7030
FRONT COMPARTMENT		2 & 4-Door Sedan	2-Door Sedan	4-Door Sedan	2-Door Hardtop	4-Door Wagon	2-Door Hardtop	2-Door Hardtop
Effective head room	H61	38.00	37.90	39.60	38.95	39.88	37.50	37.20
Max. eff. leg room – accelerator	L34	41.05	40.05	42.45			43.05	43.05
H Point to Heel point	H30	8.72	8.82	9.64			8.07	8.07
H Point travel	L17	4.93	4.93	4.93			4.93	4.93
Shoulder room	W 3	54.88	54.88	60.00			55.00	55.00
Hip room	W 5	54.88	54.88	60.30			57.60	57.60
Upper body opening to ground	H50	48.45	47.40	50.13	49.66	50.95	47.13	47.16
REAR COMPARTMENT								
H Point couple distance	L50	32.20	25.60	34.77	31.69	34.77	27.75	- - -
Effective head room	H63	37.00	36.40	37.47	36.60	38.71	36.00	- - -
Min. effective leg room	L51	36.75	29.45	38.60	35.50	38.60	30.80	- - -
H Point to Heel point	H31	11.05	12.15	10.82	10.10	10.82	10.25	- - -
Min. knee room	L48	3.65	1.50	5.70	3.30	5.70	1.25	- - -
Rear Compartment room	L 3	26.07	20.90	29.60	26.26	29.60	21.90	- - -
Shoulder room	W 4	53.32(1)	52.96	60.00	59.00	60.00	53.20	- - -
Hip room	W 6	53.32(1)	52.96	60.40	59.50	60.40	56.38	- - -
Upper body opening to ground	H51	48.12	- - -	49.06	- - -	50.64	- - -	- - -
LUGGAGE COMPARTMENT Not Wagons								
Usable luggage capacity	V 1	11.20	6.0(2)	18.20	18.20	- - -	10.20(2)	9.60
Liftover height	H195	29.54	33.90	28.91	28.91	- - -	27.39	27.82
Position of spare tire storage		Tilted, Center, Front	(5)	Tilted, Center, Front			(3)	(4)
Method of holding lid open		Counterbalanced	C'balanced	Counterbalanced, Flat Wound Spring				
STATION WAGON – THIRD SEAT		Torsion Bar	Two Spring Cylinders					
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			- - -	- - -
STATION WAGON – CARGO SPACE								
Cargo length at floor – front seat	L202	- - -	- - -	92.63			- - -	- - -
Cargo length at belt – front seat	L204	- - -	- - -	82.73			- - -	- - -
Cargo width – Wheelhouse	W201	- - -	- - -	45.08			- - -	- - -
Opening width at belt	W204	- - -	- - -	53.60			- - -	- - -
Maximum cargo height	H201	- - -	- - -	31.72			- - -	- - -
Rear opening height	H202	- - -	- - -	27.84			- - -	- - -
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	- - -	- - -	91.12 (99.12 incl. under-floor storage space)			- - -	- - -

(1) 4-Door Sedan = 54.40

(2) Plus 2 Cubic Feet with optional "Space-Saver" Spare.

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

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

(●) (5) Gremlin: Flat, Left, Rear.

AMA Specifications—Passenger Car

Page 3

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (●) 4-1-70

POWER TEAMS

(Indicate whether standard or optional)

1970	Engine, Transmission, & Axle Ratio Combinations	3-Speed Manual Column Shift Standard (Floor Shift for Javelin & Gremlin 232)	Shift-Command Column Shift Opt. (Std. Amb. DPL & SST with 304 V-8)	Shift-Command Console Shift Optional	4-Speed Manual Floor Shift Opt. (Std. AMX & "Machine")
HORNET	128 H.P. - 199 CID, 1-Bbl. Standard on Basic	3.08 Std. 3.31 Opt.		N.A.	
	145 H.P. - 232 CID, 1-Bbl. Std. on SST, Opt. on Basic	3.08 Std. 3.31 Opt.	** 2.37 Std. **2.73 Opt.		
	155 H.P. - 232 CID, 2-Bbl. Optional on Basic & SST	N.A.	3.08 Std. 3.31 Opt.		
	210 H.P. - 304 CID, 2-Bbl. Standard V-8 on SST		2.87 Std. 3.15 Opt.		
GREMLIN	128 H.P. - 199 CID, 1-Bbl. Standard	2.73 Std. 3.08 Opt.		N.A.	
	145 H.P. - 232 CID, 1-Bbl. Optional	3.08 Std. 3.31 Opt.	** 2.37 Std. ** 2.73 Opt.		
AMX	290 H.P. - 360 CID, 4-Bbl. Standard	N.A.		*2.87 Std. 3.15 Opt. 3.54 Opt.	3.54 Std. 3.15 Opt. @3.91 Opt.
	325 H.P. - 390 CID, 4-Bbl. Optional				
JAVELIN	145 H.P. - 232 CID, 1-Bbl. Standard 6	3.08 Std. 3.31 Opt.		N.A.	
	210 H.P. - 304 CID, 2-Bbl. Standard V-8	3.15 Std. 3.54 Opt.	2.87 Std. 3.15 Opt.		N.A.
	245 H.P. - 360 CID, 2-Bbl. Optional	N.A.			
	290 H.P. - 360 CID, 4-Bbl. Optional			*2.87 Std. 3.15 Opt. 3.54 Opt.	3.54 Std. 3.15 Opt. @3.91 Opt.
	325 H.P. - 390 CID, 4-Bbl. Optional		N.A.		
REBEL	145 H.P. - 232 CID, 1-Bbl. Standard 6	3.15 Std. 3.54 Opt.	3.15 Std.	N.A.	N.A.
	155 H.P. - 232 CID, 2-Bbl. Optional 6	N.A.			
	210 H.P. - 304 CID, 2-Bbl. Standard V-8		2.87 Std. 3.15 Opt.		
	245 H.P. - 360 CID, 2-Bbl. Optional				
	290 H.P. - 360 CID, 4-Bbl. Optional		2.87 Std. 3.15 Opt. 3.54 Opt.		
	325 H.P. - 390 CID, 4-Bbl. Optional on SST				
	340 H.P. - 390 CID, 4-Bbl. Standard on "Machine"	N.A.		3.54 Std. 3.15 Opt.	3.54 Std. @ 3.91 Opt.
AMBASSADOR	155 H.P. - CID, 2-Bbl. Standard on Basic	3.15 Std. 3.54 Opt.	3.15 Std.	N.A.	N.A.
	210 H.P. - 304 CID, 2-Bbl. Std. on DPL & SST, Opt. on Basic	N.A.	2.87 Std. 3.15 Opt.		
	245 H.P. - 360 CID, 2-Bbl. Optional				
	290 H.P. - 360 CID, 4-Bbl. Optional				
	325 H.P. - 390 CID, 4-Bbl. Opt. on DPL & SST				

ENGINE

Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM
199 Six	1-Barrel (Regular Fuel)	8.5	128@ 4400	182@ 1600
232 Six	1-Barrel (Regular Fuel)	8.5	145@ 4300	215@ 1600
232 Six	2-Barrel (Regular Fuel)	8.5	155@ 4400	222@ 1600
304 V-8	2-Barrel (Regular Fuel)	9.0	210@ 4400	305@ 2800
360 V-8	2-Barrel (Regular Fuel)	9.0	245@ 4400	365@ 2400
360 V-8	4-Barrel (Premium Fuel)	10.0	290@ 4800	395@ 3200
390 V-8	4-Barrel (Premium Fuel)	10.0	325@ 5000	420@ 3200
390 V-8	4-Barrel (Premium Fuel)	10.0	340@ 5100	430@ 3600

Optional Axle Ratios listed are available at extra cost. Less or with Twin-Grip &/or AC (except noted).

* For Javelin & AMX: with 360 or 390 opt. "Go Package" & Shift-Command; 3.15 Std., 2.87 & 3.15 Opt.

(●) ** With Air Conditioning: 2.73 Standard, 3.08 Optional

@ 3.91 available only with Twin-Grip Differential

Dealer Kit Extra-Cost Ratios: 3.73, 3.91 (& factory), 4.10, 4.44 & 5.00

Form Rev. 3-67

AMA Specifications—Passenger Car

Page 4

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•)

MODEL	Availability On Page 3	199 CID SIX 1-B. Carb.	232 CID SIX 1 & 2-B. Carb.	304 CID V-8 2-B. Carb.	360 CID V-8 2 & 4-B. Carb.	390 CID V-8 4-B. Carb.
ENGINE – GENERAL						
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 3.44	4.08 x 3.44	4.165 x 3.574
Piston displacement, cu. in.		199	232	304	360	390
Bore spacing (℄ to ℄)		4.38		4.75		
No. system (front to rear)	L. Bank	1-2-3-4-5-6		1-3-5-7		
	R. Bank	- - -		2-4-6-8		
Firing order		1-5-3-6-2-4		1-8-4-3-6-5-7-2		
Compres. ratio (nominal)		8.5		9.0	9.0 (10.0 4-B.)	10.0
Cylinder Head Material		Cast Iron				
Cylinder Block Material		Cast Iron				
Cyl. Sleeve-Wet, dry, none		None				
Number of mtg. points	Front	Two				
	Rear	One				
Engine installation angle		Vertical				
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		33.75		45.00	53.27	55.51
Publishing max. bhp* @ eng. RPM		128 @4400	1-B.,145@4300 2-B.,155@4400	210 @4400	2-B.,245 @4400 4-B.,290 @4800	4-B.,325 @5000 4-B.,340 @5100(1)
Publishing max. torque * (lb. ft. @ RPM)		182 @1600	1-B.,215@1600 2-B.,222@1600	305 @2800	2-B.,365 @2400 4-B.,395 @3200	4-B.,420 @3200 4-B.,430 @3600(1)
Recommended fuel regular – premium		Regular		Regular	2-B., Regular 4-B., Premium	Premium
ENGINE – PISTONS						
Material		Aluminum Alloy with Steel Insert				
Description and finish		"Conformatic", 199=Flat-Top, 232=Flat with Dished Top, Solid Skirt Tin Plate, Steel-Ring Insert		"Autothermic", Flat-Top with Valve Pockets, Slipper Skirt, Tin Plate, Steel-Strut Inserts.		
Weight (piston only) oz.		18.30	17.53	17.92	21.27	21.94
Clearance (limits)	Skirt	- - - .0005 - .0013 (2) - - -		- - - .0010 - .0018 (2) - - -	- - - .0012 - .0020 (2) - - -	- - - .0010 - .0018 (2) - - -
Ring groove Diameter	No. 1 ring	3.328 - 3.333		3.328 - 3.333	3.624 - 3.629	3.723 - 3.733
	No. 2 ring	3.328 - 3.333		3.328 - 3.333	3.624 - 3.629	3.705 - 3.715
	No. 3 ring	3.329 - 3.339		3.329 - 3.339	3.625 - 3.635	3.710 - 3.720
	No. 4 ring	None				

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

(1) Rebel "Machine" version uses Modified Intake & Exhaust Manifolds.

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.

(2) Clearance measured at 2.31" below top of block at centerline of piston pin.

AMA Specifications—Passenger Car

Page 5

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (e)

MODEL	Availability on Page 3	199 & 232 CID SIXES	304, 360 & 390 CID V-8's
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 #1 & #2	Description - material, coating etc.	Cast-Iron Alloy Phosphate-Coated, Parco Lubrite, or Granoseal Molybdenum-Filled Face for #1 Ring	
	Width	.0775	
	Gap	.010 - .020	
Oil #3	Description - material, coating etc.	Three Piece, Steel Rail Type Rail Faces Chrome Plated	
	Width	.0245 Each Rail (.1880 with Expander)	
	Gap	.015 - .055	
Expanders		Combination Expander - Spacer Located Between Oil Ring Rails.	
ENGINE – PISTON PINS			
Material		SAE #1016 Steel	
Length		3.187	304 & 360; 3.187 (390; 2.94)
Diameter		.93	304 & 360; .931 (390; 1.00)
Type	Locked in rod, in piston, floating, etc.	Locked-In-Rod (Press Fit)	
	Bushing: In rod or piston	None	
	Bushing: Material	None	
Clearance	In piston	.0003 - .0005	
	In rod	Press Fit (Locked)	
Direction & amount offset in piston		.0625 Toward Major Thrust Side	
ENGINE – CONNECTING RODS			
Material		Cast Nodular Iron	304 & 360, Cast Nodular Iron (1) 390; SAE 1042 Mod., Forged Steel
Weight (oz.)		199;22.96 (232; 24.65)	304 & 360; 24.16 (390; 28.15)
Length (center to center)		199;6.125 (232; 5.875)	304 & 360; 5.875 (390; 5.858)
Bearing	Material & Type	Det. Alum./Brass D52 or Fed. Mogul H-35LT	304 & 360; Clevite F-77 or Federaloy H-24 390; Clevite F-77
	Overall length	.860	304 & 360; .832 (390; .800)
	Clearance (limits)	.001 - .002	.001 - .002
	End play	.008 - .010	.009 - .015 (Two Rods)

Steel-Backed, Alloy Lining Removable

(1) Special Service Rods for 304 & 360; SAE 4340 Forged Steel (Dealer Kit).

AMA Specifications—Passenger Car

Page 6

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•)

MODEL	Availability On Page 3		199 & 232 CID SIXES	304, 360 & 390 CID V-8's
ENGINE – CRANKSHAFT				
Material			Cast Nodular Iron (SAE 1046 Forged Steel in 390 V-8) (1)	
Vibration damper type			Dynamic-Tuned, Rubber-Suspended, Inertia Member	
End thrust taken by bearing (No.)			#3	
Crankshaft end play			.0015 - .007	.003 - .008
Main bearing	Material & type		SAE-15 Micro-Babbitt (Clevite or McQuay Norris)	304&360; Clevite F-500 or Federaloy H-35LT 390; Clevite F-77
	Clearance		.001 - .002	.001 - .002 (.002 - .003 Rear Main)
	Journal dia. and bearing overall length	No. 1	2.4986 - 2.5001 x .981	2.7474 - 2.7489 x .923 (x .9385 in 390 V-8)
		No. 2	2.4986 - 2.5001 x .981	2.7474 - 2.7489 x .923 (x .9385 in 390 V-8)
		No. 3	2.4986 - 2.5001 x 1.2685	2.7474 - 2.7489 x 1.2685
		No. 4	2.4986 - 2.5001 x .981	2.7474 - 2.7489 x .923 (x .9385 in 390 V-8)
		No. 5	2.4986 - 2.5001 x .981	2.7464 - 2.7479 x .923 (x .9385 in 390 V-8)
		No. 6	2.4986 - 2.5001 x .981	- - -
		No. 7	2.4986 - 2.5001 x .981	- - -
	Dir. & amt. cyl. offset		None	
Crankpin journal diameter			2.0934 - 2.0955	2.0934 - 2.0955 (2.2471 - 2.2492 in 390 V-8)
ENGINE – CAMSHAFT				
Location			Right Side	Center Between Cylinder Banks
Material			Special Cast-Iron Alloy	
Bearings	Material		Steel-Backed, Micro-Babbitt Alloy, SAE-15 (Clevite or Fed. Mogul)	
	Number		Four	Five
Type of Drive	Gear or chain		Chain	
	Crankshaft gear or sprocket material		Sintered Iron	SAE 1117 Steel (Sintered Iron, Opt.)
	Camshaft gear or sprocket material		Die-Cast Aluminum with Molded Nylon Teeth	
	Timing chain	No. of links	48	62
		Width	.69	.875
		Pitch	.50	.375
ENGINE – VALVE SYSTEM				
Hydraulic lifters (Std., opt., NA)			Yes	
Valve rotator, type (intake, exhaust)			Yes, Free Valve Type	
Rocker ratio			1.5	1.6
Operating tappet clearance (indicate hot or cold)	Intake		Zero Lash	
	Exhaust		Zero Lash	

(Continued)

(1) Special Service Crankshaft for 304 & 360; SAE 1046 Forged Steel (Dealer Kit).

AMA Specifications—Passenger Car

Page 7

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•)

MODEL	Availability On Page 3		199 & 232 CID SIXES	304 CID V-8	360 CID V-8	390 CID V-8	ALL V-8'S
ENGINE – VALVE SYSTEM (cont.)							Dealer Hi-Perf. Cam Kit
Timing (based on top of ramp points)	Intake	Opens (°BTC)	12° - 30'	18°30'		18°	46°
		Closes (°ABC)	51° - 30'	67°30'		68°	76°
		Duration - deg.	244°	266°		266°	302°
	Exhaust	Opens (°BBC)	53° - 30'	60°30'		66°	70°
		Closes (°ATC)	10° - 30'	25°30'		20°	52°
		Duration - deg.	244°	266°		266°	302°
	Valve opening overlap		23°	44°		38°	98°
Intake	Material		Silichrome #1 or XB				
	Overall length		4.899				
	Actual overall head dia.		1.787	1.787	2.025	2.025	
	Angle of seat & face		Head 30°, Valve 29°				
	Seat insert material		None				
	Stem diameter		.3715 - .3725				
	Stem to guide clearance		.0010 - .0030				
	Lift (@ zero lash)		.381	.425		.457	.477
	Outer spring press. & length	Valve closed (lb.@in.)	95 to 105 @1.812	85 to 93 @1.812		90 to 98 @1.812	95 to 103 @1.812
		Valve open (lb.@in.)	188 to 202 @1.437	193 to 207 @1.387		183 to 195 @1.365	240 to 260 @1.329
	Inner spring press. & length	Valve closed (lb.@in.)	None				- - -
		Valve open (lb.@in.)	None				TOTAL 265 to 285 @1.329
Exhaust	Material		SAE 21-4N				
	Overall length		4.892	4.892	4.907	4.907	
	Actual overall head dia.		1.406	1.406	1.625	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			
	Lift (@ zero lash)		.381	.425		.457	.477
	Outer spring press. & length	Valve closed (lb.@in.)	95 to 105 @1.812	85 to 93 @1.812		90 to 98 @1.812	95 to 103 @1.812
		Valve open (lb.@in.)	188 to 202 @1.437	193 to 207@1.387		183 to 195 @1.365	240 to 260 @1.329
	Inner spring press. & length	Valve closed (lb.@in.)	None				- - -
		Valve open (lb.@in.)	None				TOTAL 265 to 285 @1.329

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

Page 8

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	Availability On Page 3	199 & 232 CID SIXES	304, 360 & 390 CID V-8's

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	13#min.@600rpm,21min.@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 c/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 or 10W-40) Above 0°F. . .SAE 10W (or SAE 10W-30 or 10W-40) Below 0°F. . .SAE 10W (or SAE 5W-20 or 5W-30)
Engine Service Reqmt. (MM, MS, etc.)	MS (Certified Sequence Tested)

(•) ENGINE – EXHAUST SYSTEM

	GREMLIN & HORNET 6	HORNET V-8	REBEL & AMB. 6	REBEL & AMB. V-8	JAVELIN 6	JAV.&AMX V-8
Type (single, single with cross-over, dual, other)	Single	Single w/Y-Pipe	Single	S. w/Y-Pipe or Dual	Single	S. w/Y-Pipe or Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, Reverse Flow		One, Reverse Flow	One, RevFlo or Two	One, Reverse Flow	One, RevFlo or Two
Exhaust pipe dia. (O.D., wall thick.) Front	1.88x.083	1.88x.083	1.88x.083	1.88x.083	1.88x.083	1.88x.083
Exhaust pipe dia. (O.D., wall thick.) Rear	1.88x.075	2.25x.083	1.88x.075	2.25x.083	1.88x.075	2.25x.083
Tail pipe dia. (O.D. & wall thickness)	1.75x.048	2.00x.048	1.75x.048 (1)	2.00x.060 (2)	1.75x.060	2.00x.074 (3)

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 .060 Tailpipe for Rebel-6 Wagon

(2) Dual Exhausts Opt. With 360 4-B V-8.
Dual Exhausts Std. With 390 V-8.
Exh. Front.....2.00 x .083
Exh. Rear.....2.00 x .083
Tailpipe.....2.00 x .060
2.25 O.D. for Rebel "Machine"

(3) Javelin; Dual Exhausts Opt. With 360 4-B V-8.
Javelin; Dual Exhausts Std. With 390 V-8.
AMX; Dual Exhausts Std. With 360 & 390 V-8's.
Exh. Front.....2.00 x .083
Exh. Rear.....2.00 x .083
Tailpipe.....2.00 x .074

AMA Specifications—Passenger Car

Page 9

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	Availability On Page 3	ALL 6's. V-8's W/AUTO. TRANS.	V-8's EQUIPPED WITH MANUAL TRANSMISSION
ENGINE – EXHAUST EMISSION CONTROL			
Type (Air injection, engine modifications, other)		"Engine-Mod" System	Air Injection ("Air-Guard" System)
Air Injection Pump	Type	- - -	Eccentric Vane (Saginaw Steering Gear)
	Displacement	- - -	19.3 cu.in./rev.
	Drive ratio	- - -	1.25:1
	Drive type	- - -	Belt
	Relief valve (type)	- - -	Integral
	Filter (describe)	- - -	Centrifugal Separator (non-replaceable)
Air Injection System	Air distribution (head, manifold, etc.)	- - -	Separate Header Manifold
	Point of entry	- - -	Thru Exhaust Port
	Injection tube I.D.	- - -	.285
	Check valve type	- - -	Spring-Loaded Steel Plunger w/Asbestos Seat
	Backfire protection (type)	- - -	Diverter Type (Rochester)
Carburetor	Make		
	Model		
	Barrel size		
	Idle speed – Drive		See Page 10
	Idle speed – Neutral		
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)		
	Make		
	Model		
	Cent'fgal adv. in crank degrees @ eng. rpm – Start (rpm)		
	Cent'fgal adv. in crank degrees @ eng. rpm – Intermed. points deg. @ rpm		
	Cent'fgal adv. in crank degrees @ eng. rpm – Max. deg. @ rpm		See Page 13
	Vacuum adv. in crank degrees @ eng. rpm – Start (in Hg) Intermed. points deg. @ in. Hg Max. deg. @ in.		
	Vacuum Source		Manifold Vacuum (Ported Above Throttle Plate)
Timing - Crank degrees @ rpm			See Page 13
Cooling System			None
Exhaust System			None
Fuel Tank Vapor Emission Control System			For All California Vehicles
Storage Reservoir			Engine Crankcase
Restriction Size & Location			.040" Dia. @ Crankcase
(•) Fuel Expansion Protection			Expansion Tank within Fuel Tank (except Gremlin)
(•) Liquid Fuel Transfer Protection			Check Valve Located @ Rear Axle Kick-Up Area (except Gremlin)
Fuel Tank Cap			Non-Vented with Relief Protection for Pressure & Vacuum

AMA Specifications—Passenger Car

Page 10

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	Availability On Page 3	199 & 232 CID SIXES	304, 360 & 390 CID V-8's

ENGINE – FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.			Gremlin 21 Carburetor (Downdraft)	
(•) Fuel Tank	Refill capacity (U.S. gals.)		Hornet/Jav/AMX 19; Rebel 21.5 (3-seat wag 19); Amb. 21.5 (wag 19)	
	Filler location (1)		Cal. Gals, Hornet/Jav/AMX 16; Rebel 19.5 (3-seat wag 17); Amb. 19.5 (wag 17)	
Fuel Pump	Type (elec. or mech.)		Gremlin 21 Mechanical	
	Locations		Right Side, Center	Left Side, Front
	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	
	Locations		A. Gas Tank Pick-Up Tube B. Carburetor Inlet Side	
Carburetor	Choke type		Automatic	
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air cleaner type	Standard	Cellulose Fiber Element	
		Optional	None	
	Idle speed (spec. neutral or drive)	Manual	600 RPM	650 RPM
		Automatic	550 RPM	600 RPM
		Idle A/F mix.	14.0:1 ± .2A.F.R. 50 RPM Lean Drop Off	14.0:1 ± .2A.F.R. ("Air-Guard", 13.0:1)

CARBURETOR SUPPLEMENTARY INFORMATION

	Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
	199 CID SIX	199	Manual	Carter YF	4768S	1,1-BBL.	1.69
(•)	128 HP, HORNET & GREMLIN		Automatic	Carter YF	4767S	1,1-BBL.	1.69
(•)	232 CID SIX	232	Manual	Carter YF	4768S	1,1-BBL.	1.69•
	145 HP, HORNET & GREMLIN		Automatic	Carter YF	4767S (2)	1,1-BBL.	1.69
	232 CID SIX	232	Manual	Carter YF	4770S	1,1-BBL.	1.69
	145 HP, REB.&JAV.		Automatic	Carter YF	4769S	1,1-BBL.	1.69
	232 CID SIX	232	Manual	Carter WCD	4817S	1,2-BBL.	1.44
	155 HP		Automatic	Carter WCD	4816S	1,2-BBL.	1.44
	304 CID V-8	304	Manual	AM(FAL)2100D	ODM2	1,2-BBL.	1.56
	210 HP		Automatic	AM(FAL)2100D	ODA2	1,2-BBL.	1.56
	360 CID V-8	360	Automatic	AM(FAL)2100D	ORA2	1,2-BBL.	1.69
	245 HP						
	360 CID V-8	360	Manual	AM(FAL)4300	OWM4	1,4-BBL.	1.56 pri.
	290 HP		Automatic	AM(FAL)4300	OWA4	1,4-BBL.	1.69 sec.
	390 CID V-8	390	Manual	AM(FAL)4300	OWM4	1,4-BBL.	1.56 pri.
	325 & 340 HP		Automatic	AM(FAL)4300	OWA4	1,4-BBL.	1.69 sec.

(•) (1) Hornet & Gremlin: Center Rear Panel.
Rebel & Ambassador: Left Rear Fender
Javelin & AMX: Center Rear Bumper.

(•) (2) 4978S used from mid-Sept. to mid-Dec. 1969.

AMA Specifications—Passenger Car

Page 11

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	Availability On Page 3	199 & 232 CID SIXES	304, 360 & 390 CID V-8's
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)	205 (202 to 209)	195 (192 to 199)
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	304;14 (360 & 390;13)
	Without heater (qt.)	9.5	304;13 (360 & 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	
	Lower – Inside diameter	1.50 Body & Rad. End 1.78 Water Pump End	1.50 Body & Rad. End 1.70 Water Pump End
	Upper – Number and type (molded, straight)	One, Molded, Curved	
	Upper – Inside diameter	1.50 Body & Rad. End 1.75 Thermostat End	1.50 Both Ends
	By-pass – Number and type (molded, straight)	None	One, Molded, Curved
	By-pass – Inside diameter	- - -	.75
Fan	Number of blades & spacing	4 Std. (5 AC & HD)	6 Std. (7 AC & HD)
	Diameter	15.62 (17.25 AC & HD)	17 (18.38 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
	[redacted] 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		

AMA Specifications—Passenger Car

Page 12

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•)4-1-70

MODEL	Availability On Page 3			199 & 232 CID SIXES & 304 CID V-8	360 & 390 CID V-8's
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	
				199 & 232 CID SIXES	304, 360 & 390 CID V-8's
	Terminal grounded			Negative	
Generator or Alternator	Make			Motorola	American Motors
	Model			35 Amp:A12NAM456(7)..(2)	35 Amp:3195534(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	304, 360 & 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	164
			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., "Command-Air" High-Level Vent or Rear Window Defogger)
...A12NAM606(2).

AMA Specifications—Passenger Car

Page 13

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	Availability On Page 3		199 & 232 CID SIXES		304, 360 & 390 CID 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)		N.A.		"Mallory" High-Perf. (Dealer Kit)			
Coil	Make		Delco-Remy or American Motors					
	Model		D-R:1115294 (AM:3191922)		D-R:1115266 (AM:3182864)			
	Amps	Engine stopped/idling	3.5/1.6					
		Dist. Diaphragm	Dual	Single	Dual	Dual	Dual	Single
Distributor	Make		Delco-Remy					
	Model		1110481	1110444	1112018	1111988	1111987	1111473(4)
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	500-800	600-800	800-1000	800-1000	700-900	800-900
		Intermediate points deg. @ rpm	14°-18°@2100	16°-20°@2000	10°-14°@1650	10°-14°@1650	12°-16°@1600	16.5°-21°@1600
		Max. deg. @ rpm	22°-26°@4500	24°-28°@4000	24°-28°@4200	24°-28°@4200	22°-26°@4000	28°-32°@4400
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	5" to 7"	5" to 7"	- - - -	5" to 7"	5" to 7"	8" to 10"
		Intermediate points, deg. @ in. Hg.	9° @ 9"	11°@ 10"	- - - -	9°@ 9.5"	9°@ 9.5"	12°@ 14"
		Max. deg. in. Hg.	18° @ 14"	22°@ 16.5"	- - - -	18°@ 14.5"	18°@ 14.5"	24°@ 19.5"
	Breaker gap (in.)		.016					
	Cam angle (deg.)		31 to 34		29 to 31			
	Breaker arm tension (oz.)		17 to 21					
Timing	Crankshaft deg. @ rpm		3°BTDC (± 1°)		5° BTDC(± 1°)			TDC (± 1°)
	Mark location		Vibration Dampener					
Spark Plug	Make		Champion					
	Model		N-14Y		N-12Y			N-12Y(5)
	Thread (mm)		14					
	Tightening torque (lb. ft.)		25 to 30					
	Gap		.033 to .037					
Cable	Conductor type		Carbon Core Wire					
	Insulation type		Neoprene					
	Spark plug protector		Hypalon					

ELECTRICAL – SUPPRESSION

Locations & type	Carbon Core Ignition Wires

(•)(1) For Hornet & Gremlin 145 HP/232 CID with Automatic Transmission.
(2) For 304-2B. V-8 with Automatic Transmission (no vacuum advance).
(3) For 304-2B. V-8 with Manual Trans., 360-2B. V-8 with Automatic Transmission.
(4) Replaced by 1111948 as Early-Production Running Change.
Vacuum Start. . . 4" to 6"
Inter. . . . . .12° @ 11"
Max. . . . . .24° @ 18.5"
(5) N-10Y for 340 HP/390 CID Rebel "Machine" Engine.

AMA Specifications—Passenger Car

Page 14

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•)4-1-70

MODEL	Availability On Page 3	199 & 232 CID SIXES	304, 360 & 390 CID V-8's
ELECTRICAL – INSTRUMENTS AND EQUIPMENT			
(•) Speedometer	Type	King-Seeley (Stewart-Warner for Hornet & Gremlin)	
	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 (plus Optional Low-Fuel-Warning Light)	
Other		Dual Hydraulic Brake System Warning Light Parking Brake Warning Light	
(•) Windshield wiper	Type – Standard	Vacuum, Variable-Speed	
	Type – Optional	Electric, Variable-Speed, Hornet, Gremlin, Jav.&AMX (3-Speed Rebel & Amb.)	
Windshield washer	Type – Standard	Manual Pump (Panel Switch)	
	Type – Optional	Electric Powered Pump (Panel Switch)	
(•) Horn	Type	Vibrator	
	Number used	2(1 for all Hornets, all Gremlins & Rebel Base, 2nd. Horn Dealer Accessory)	
	Amp draw (each)	8.5	

(•) DRIVE UNITS – CLUTCH (Manual Transmission)		199 CID Hornet & Gremlin	232 CID Hornet, Gremlin & Javelin 232 CID Rebel & Ambassador
6-CYL. ENGINES Make & type		Borg & Beck, Dry Type	
Type pressure plate springs		9 Coils	
Total spring load (lb.)		1176	1627(1730 for Rebel & Amb.)
No. of clutch driven discs		One	
Clutch facing	Material	AMCO 157-80 Front, US 5935 Rear	US 6384 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)		304 CID 3-Speed	360 CID 4-Speed	390 CID 4-Speed
V-8 ENGINES Make & type		Borg & Beck, Dry Type	Borg & Beck, Semi-Centrifugal, Dry Type	
Type pressure plate springs		9 Coils	12 Coils & 3 Rollers	12 Coils & 6 Rollers
Total spring load (lb.)		2028	2187	2133
No. of clutch driven discs		One		
Clutch facing	Material	AMCO 3271F	JM5003-8DL	
	Outside & inside dia.	10 x 6.5	10.5 x 6.5	
	Total eff. area (sq.in.)	90.72	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		

AMA Specifications—Passenger Car

Page 15

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	Availability On Page 3	199 & 232 CID SIXES	304, 360 & 390 CID V-8's
DRIVE UNITS – TRANSMISSIONS			
Manual 3-speed (std. or opt.)		Standard	Std. for 304 V-8, Javelin only
Manual 4-speed (std. or opt.)		NA	Opt. (NA 304 & 360 2-Bbl.) Std. on AMX & Machine
Manual with overdrive (std. or opt.)		NA	NA
Automatic (std. or opt.)	Column Shift	Optional	Optional (NA AMX)
	Console Shift	NA	Optional (NA Hornet & Gremlin)

DRIVE UNITS – MANUAL TRANS. (•)			199 SIX 232 SIX (Hornet & Gremlin)	232 SIX (Javelin, Rebel & Ambassador)	304 V-8 (Javelin)	360 V-8 390 V-8 (Javelin, AMX & Rebel Machine)
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 (Floor for 232 Gremlin)	Column (Floor for Javelin)	Floor	Floor
Lubricant	Capacity (pt.)		4.5		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)			
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	- - -

AMA Specifications—Passenger Car

Page 16

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	Availability On Page 3	199 & 232 CID SIXES	304, 360 & 390 CID V-8's

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Shift-Command				
Type describe		Borg & Beck/Long Torque Converter with Planetary Gears				
Selector location		Column			Column or Console	
	Operation	6&V-8 Col.	V-8 Con.		6 & 304 V-8	360 & 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	2.00:1
	Neutral	N	NTL		- - -	- - -
	1,2&3 Gears	D	DRV		1.00:1	1.00:1
	2 Gear	2	2ND		1.45:1	1.47:1
	1 Gear	1	1ST		2.39:1	2.40:1
(•) Max. upshift speed–drive range	55 to 72 mph (65-87 Hornet & Gremlin 232				60 to 75 mph	
(•) Max. kickdown speed–drive range	50 to 65 mph (50-70 Hornet & Gremlin 232				55 to 70 mph	
(•) Torque convertor: Number of elements	Three					
Max. ratio at stall	2.00				304=2.00. 360 & 390 = 2.18 (1)	
Type of cooling (air, liquid)	Air (Water, Opt.)				Air & Water (Auxiliary Cooler, Opt.)	
Nominal diameter	11				304-11". 360 & 390 = 12" (1)	
Lubricant: Capacity–refill ~~xx~~Qts.Dry	9.5				(2)	
Type recommended	"DEXRON" Auto. Trans. Fluid (Type A, AQ-ATF, Suffix "A")					
Special transmission features	Vacuum-Modulated Control Between Trans. & Engine. Electric "Kick-Down" Solenoid System					

DRIVE UNITS – PROPELLER SHAFT

		HORNET		GREMLIN	REBEL	AMBASSADOR	JAVELIN		AMX
		SIX	V-8	SIX	SIX & V-8	SIX & V-8	SIX	V-8	V-8
Number used		(•) One							
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.	52.500 2.500 .065	- - -	40.720 2.000 .083	54.940 2.750 .083 SIX	58.900 3.000 .083 SIX	51.690 2.500 .065	47.220 2.500 .083	- - -
	Manual 4-speed trans.	- - -	- - -	- - -	54.940 3.000 .083 V-8	- - -	- - -	50.170 2.500 .083	38.180 2.500 .083
	Overdrive transmission	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	Automatic transmission	47.940 2.500 .065	46.830 2.500 .065	36.150 2.000 .083	50.340(3) 2.500 .065	54.370(4) 3.000 .083	47.220 2.500 .083	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) Early-Production Running Change for 390 V-8 to 2.00 Ratio with 11" Convertor.
(2) 304 V-8 ... 9.5 Qts.
360 & 390 V-8 ... 10 Qts.
(3) 304 V-8 ... 51.970 x 3.000 x .083
360 & 390 V-8 ... 54.940 x 3.000 x .083
(4) 304 V-8 ... 55.940 x 2.750 x .083
360 V-8 ... 58.900 x 3.250 x .065
390 V-8 ... 58.900 x 3.250 x .065
(5) 360 & 390 V-8 ... 50.170 x 2.500 x .083

AMA Specifications—Passenger Car

Page 17

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL			HORNET, GREMLIN, 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		Six & 304 V-8: 16	360 V-8: 28	390 V-8 Auto. Trans.: 16 Auto. (28 4-Speed)
	Spline O.D.		1.170	1.207	1.375 Auto. Trans. 1.207 4-Speed Trans.
Universal joints	Make and Mfg. No.		#1280	#1280	#1310 Auto. & 4-Speed
			DANA		
	Number used		Two		
	Type (ball and trunnion, cross)		Single-Pivot, Cross		
	Rear attach. (u-bolt, clamp, etc.)		U-Bolt		
	Bearing	Type (plain, anti-friction)	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, Hornet-6, Gremlin-6 & Javelin-6) (2)		
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, API, GL-5 (3)		
	SAE viscosity number	Summer	80		
		Winter	80		
		Extreme cold	80		

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		Factory Installed							Both	Dealer Kits			
		2.37	2.73	2.87	3.08	3.15	3.31	3.54	3.91	3.73	4.10	4.44	5.00
No. of teeth	Pinion	19	15	15	13	13	13	11	11	11	10	9	9
	Ring gear	45	41	43	40	41	43	39	43	41	41	40	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).
(2) Positive-Locking Type available as Dealer Kit ("Detroit Locker" by Det. Auto. Products).
(3) Special lube for opt. "Twin-Grip" differential (API, GL-5 Quality).

AMA Specifications—Passenger Car

Page 18

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL			HORNET		GREMLIN (•)	REBEL			AMBASSADOR		AMX	JAVELIN	
			SIX	V-8	SIX	SIX & V-8		V-8	SIX & V-8		V-8	SIX	V-8
DRIVE UNITS – WHEELS			All	All	All	Except Wagon	Wagon	Machine	Except Wagon	Wagon	All	All	All
Type & material			Pressed Steel Disc & Safety Rim										
Rim (size & flange type)		Std.	See "TIRES" Below										
		Opt.	See "TIRES" Below										
Attachment	Type (bolt or stud)		STUD										
	Circle diameter		4.50										
	Number and size		FIVE, 1/2 x 20, 3/4 HEX										
DRIVE UNITS – TIRES (1)							8.25x14 6JK(Base)						
Standard	Size, ply rating, & ply Rim Size		6.45x14 4½J	C78x14 5J(2)	6.00x13 4½J	E78x14 5½J	G78x14 6JK(SST)	E60x15 7JJ	F78x14 5½JK	H78x14 6JK	E78x14 6JK	C78x14 5J	D78x14 5J(2)
	Type (bias, radial, etc.)		Bias, 4-Ply Rating, 2-Ply Polyester plus 2-Ply Fiberglass-Belted Tread (6.00, 6.45&8.25 less Fiberglass-Belt)										
	Full rated Inflation Press.	Front	28		28	24(28 V-8)	20	24	24	20	24	24	
		Rear	28		28	28	28	28	28	28	24	24	
	Rev./Mile at 50 MPH (3)		835	812	874	798	764	807	784	749	798	812	811
Optional	See "Type" Above		B78x14 4½J (4)	D78x14 5J(2)	6.45x14 4½J	F78x14 5½JK	G78x14 6JK(Base)	- - -	G78x14 6JK	- - -	E70x14 6JK	D78x14 5J	E78x14 5½JK
	Size, ply rating, & ply Rim Size (plus special fleet options on certain models)		C78x14 5J	D70x14 6JK	B78x14 4½J (4)	- - -	H78x14 6JK(Base & SST)	- - -	- - -	- - -	F70x14 6JK	E78x14 5½J	E70x14 6JK
			- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	E60x15 7JJ	E70x14 6JK	F70x14 6JK
BRAKES – PARKING													E60x15 7JJ
Type of control			Foot Pedal, Hand Release										
Location of control			Left Side, Under Instrument Panel										
Operates on			Rear Service Brakes										
If separate from service brakes	Type (internal or external)		- - -										
	Drum diameter		- - -										
	Lining size (length x width x thickness)		- - -										

(1) "Space-Saver" Spare Tire (7.35x14 mounted on 14x5½ JK wheel) Standard on AMX & Rebel "Machine". Optional on Gremlin & Javelin, & included with set of 4 Styled-Steel Wheels.

(2) C78 & D78 use 5½JK Rim Wheels with Disc Brake Option.

(3) B78x14= 838 Rev./Mile. D70x14= 819. E70x14= 813. F70x14= 790. (4) Included with Air Conditioning.

AMA Specifications—Passenger Car

Page 19

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL				Hornet 6 Gremlin 6 (•) Javelin 6	Hornet V8, Javelin V8, AMX V8, Rebel 6, Ambassador 6, Rebel 304 V8 Sed & HT	Rebel 360 & 390 V8 Sedan & Hardtop, Rebel V8 Wagon, Ambassador V8		Opt. on all V-8's (Std. on "Machine") Opt. on 6's for Export & Fleet Sales Only
BRAKES – SERVICE								
Type (drum) or (disc & no. of pistons)				Drum	Drum			Disc/Drum (Power) (1)
Self adjusting (std., opt., N.A.) Std.				Bendix	Bendix (or Wagner)			Bendix (1)
Special Valving	Type (proportion, delay, metering, other)			None	None			Proportioning Valve
Power brake make & type (remote, int., etc.)	Std. Size			7.75 Dia.	9.50 Dia. Rebel & Ambassador			7.75 Dia. Tandem
	Opt. Bendix			Integral, Vacuum-Suspended, Single Diaphragm				Diaphragm (Single Hornet)
Effective area (sq. in.) *				153.49	167.54			F37.2+R67.7=104.9
Gross lining area (sq. in.) **				153.49	167.54			F37.2+R67.7=104.9
Swept area (sq. in.) ***				254.47	267.04			F261+R110=371
Front to Rear Effectiveness Relationship		Front		62.2%	64.6%	57.3%	61.6%	Variable
		Rear		37.8%	35.4%	42.7%	38.4%	
Drum	Diameter (nominal)	Front		9.00	10.00			- - -
		Rear		9.00	10.00			10.00
	Type and material			Cast Iron Plain, Steel Center	Cast-Iron, Steel Flare & Center	Cast-Iron w/Cross Ribs, Steel Flare & Center		Cast-Iron, Steel Flare & Center
Rotor	Outer working diameter			- - -				11.14 (11.19 Rotor)
	Inner working diameter			- - -				6.30
	Working width				Hornet V8	Rebel & Ambassador		2.42
	Material & type (vented/solid)				Jav & AMX V8	6-Cyl.	V-8	Cast-Iron/Solid
Wheel cylinder bore	Front			1.13	1.19	1.09	1.19	2.00
	Rear			.88	.88	.94	.94	(2)
Master Cylinder	Bore			1.00				
	displacement distribution	Front	%	60.4% (.487 Cu.In. Primary Section)				68% (.673 Cu.In.)
		Rear	%	39.6% (.319 Cu.In. Secondary Section)				32% (.317 Cu.In.)
Pedal arc ratio				5.61 to 1				
Line pressure at 100 lb. pedal load				640 psi min. with Manual Brakes (3)				1400 psi approx.
Shoe Clearance	Front			.004 to .010 @ high point on horizontal axis				0 Front Disc
	Rear			.004 to .010 @ high point on horizontal axis				
Brake lining	Bonded or riveted			Bonded				Bonded (4)
	Front Wheel	Material		Molded Asbestos Compound, Marshall-Eclipse				Mintex M-33
		Size (length x width x thickness)	Prim. or outboard	7.66x2.25x.19	8.91x2.50x.19			4.89x2.31x.44
				- - -	- - -			(.38 usable thick.)
			Second. or inboard	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 outboard	7.66x2.00x.19	8.46x1.75x.19			8.46x1.75x.19
				- - -	- - -			- - -
			Second. or inboard	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) Four-Wheel, Ventilated-Rotor Disc Brakes (Kelsey-Hayes) available as Dealer Kit.
(2) Hornet, Javelin & AMX = .88" Dia.
Rebel & Ambassador Sedan = .94" Dia.
Rebel & Ambassador Wagon = 1.00" Dia.
(3) Power Brakes Rebel & Amb. = 1100 psi approx. Power Brakes Hornet, Javelin & AMX = 800 psi approx.
(4) Hornet, Javelin & AMX use Riveted Rear-Brake Linings (with Front Disc Brakes).

AMA Specifications—Passenger Car

Page 20

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

STEERING

MODEL				HORNET	(•) GREMLIN	REBEL	AMBASSADOR	JAVELIN	AMX
Manual (std., opt., NA)				Standard					
Power (std., opt., NA)				Optional					
Adjustable steering wheel (tilt, swing, other)		Type and description		N.A.		7-Position, Vertical-Arc Adjustment for Steering Column ("Adjust-O-Tilt")			
		(std., opt., NA)		- - -		Opt.(N.A. with column-shift 3-speed manual)			
Wheel diameter		Manual		16"					
		Power		16"					
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		38'	34'8"	39'9"	42'5"	38'3"	34'10"
		Curb to curb (l. & r.)		36'	32'8"	37'9"	40'5"	36'3"	32'10"
	Inside rear	Wall to wall (l. & r.)		19'11"	- -	20'3"	22'4"	20'4"	18'3"
		Curb to curb (l. & r.)		20'4"	- -	21'	23'2"	20'7"	18'8"
Manual	Gear	Type		Recirculating Ball					
		Make		Saginaw					
		Ratios	Gear	24.0:1		24.0:1		20.0:1 (1)	
			Overall	31.8:1		32.6:1		27.1:1 (1)	
	No. wheel turns (stop to stop)			5.9		6.0		5.1 (1)	
Power	Type (coaxial, linkage, etc.)			Integral Rotary Valve with Variable-Ratio Gear Box					
	Make			Saginaw Box, Thompson Pump					
	Gear	Type		Recirculating Ball					
		Ratios	Gear	16.0:1 to 12.2:1					
			Overall	21.7:1 to 16.5:1					
	Pump driven by			Belt to Crankshaft Pulley					
	No. wheel turns (stop to stop)			3.2					
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.)			7°45' @30'					
	Bearings (type)	Upper		Ball Joint					
		Lower		Ball Joint					
		Thrust		Ball Joint					
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			+½° to +1½° (+1° Desired)					
	Camber (deg.)			-3/8° to +3/8° (0° Desired)					
	Toe-in (outside track inches)			1/16" to 3/16" (1/8" Desired)					
Steering spindle & joint type				Integral Knuckle-Pin with Upper & Lower Ball Joints					
Wheel Spindle	Diameter	Inner bearing		1.25					
		Outer bearing		.75					
	Thread size			.75 x 16					
	Bearing type			Tapered Roller					

(1) Optional Quick-Ratio Manual Steering for Javelin & AMX ... Gear Box ... 16.0:1
Overall 21.7:1
Turns 4.0

AMA Specifications—Passenger Car

Page 21

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (e) 4-1-70

MODEL	HORNET	JAVELIN	AMX	REBEL	AMBASSADOR	GREMLIN
SUSPENSION – GENERAL						
Provision for car leveling	None					
Provision for brake dip control	Front Susp. plus Asymmetrical Rear Springs			Front Susp. plus 4-Link Rear Geometry		same as Hornet
Provision for acc. squat control	Asymmetrical Rear Springs			4-Link Rear Geometry		same as Hornet
Special provisions for car jacking	Side Scissors Jack			Bumper Jack		Side Scissors Jack
Shock absorber front & rear — Type	Direct-Acting, Telescopic					
Shock absorber front & rear — Make	Gabriel & Monroe					
Shock absorber front & rear — Piston dia.	1.00 (1.19 Heavy Duty)					
Other special features	- - -					

SUSPENSION – FRONT	HORNET			JAVELIN			AMX			REBEL SEDAN & HT			REBEL WAGON			AMBASSADOR SEDAN & HT			AMBASSADOR WAGON			GREMLIN		
Type and description	6 & V-8			6 & V-8			V-8			6 & V-8			6 & V-8			6 & V-8			V-8			6		
INDEPENDENT, TWIN BALL JOINT, COIL SPRINGS	STD	AC	HD	STD	AC	HD	STD	AC	HD	STD	AC	HD (& Machine)	STD	AC	HD	STD	AC	HD	STD	AC	HD	STD	AC	HD
Spring — Type	Coil																							
Spring — Material	SAE 5160																							
Spring — Size (coil design height & I.D., bar length x dia.)	9.75 x 5.05																							
Spring — Spring rate (lb. per in.) STK	218	233	285	233	248	285	- -	- -	- -	240	257	304	233	248	295	213	227	304	- -	- -	- -	211	225	285
Spring — Rate at wheel (lb. per in.) STK	97	103	122	103	109	122	- -	- -	- -	105	111	129	103	109	125	95	100	129	- -	- -	- -	94	100	122
Spring Rate (lb./in.) V-8	248	265	314	265	285	314	276	294	322	235	251	335	220	235	335	235	251	335	235	251	335	- -	- -	- -
Rate @ WH (lb./in.) V-8	108	115	133	115	121	133	119	125	136	103	109	141	98	103	141	103	109	141	103	109	141	- -	- -	- -
Stabilizer — Type (link, linkless, frameless) Link Sway Bar	Standard for V-8 In Opt. Handling Pkg. for 6						Standard			Standard			Standard			Standard			Standard			In Optional Handling Package		
Stabilizer — Material & bar diameter	SAE 1090, .94 Dia.																							

SUSPENSION – REAR	HORNET				JAVELIN				AMX		REBEL & AMBASSADOR SEDAN & HARDTOP (less "Machine")		REBEL & AMBASSADOR STATION WAGON (& "MACHINE")		GREMLIN	
Type and description	Hotchkiss										4-Link with Coil Springs				Hotchkiss	
Drive and torque taken through	Rear Spring				Rear Spring (1)				Rear Spring (1)		4-Link Trailing Arms				Rear-Spring	
Spring — Type	Leaf										Coil				Leaf	
Spring — Material	SAE 5155										SAE 5160				SAE 5155	
Spring — Size (length x width, coil design height & I.D.; bar length & dia.)	52.0 x 2.5				53.0 x 2.5				53.0 x 2.5		10.5 x 5.25		10.0 x 5.25		46.0 x 2.5	
Spring — Spring rate (lb. per in.)	ST 6	ST 8	HD 6	HD 8	ST 6	ST 8	HD 6	HD 8	STD	HD	STANDARD	HEAVY-DUTY	STD. (& "MACHINE")	HEAVY-DUTY	STD	HD
	82	87	95	100	86	87	106	102	102	120	115	135	160	200	87	105
Spring — Rate at wheel (lb. per in.)	100	105	115	120	104	105	130	125	135	155	106	125	145	180	105	125
Spring — Mounting insulation type	Rubber Bushing, "Silentbloc" Front, CP Rear										Rubber, "Silentbloc"				Same as Hornet	
Spring — If leaf — No. of leaves	4	4½	4	4½	4	4½	4	4½	4½	4½	- - -				3½	4½
Spring — If leaf — Shackle (comp. or tens.)	Compression										- - -				Compression	
Stabilizer — Type (link, linkless, frameless)	None										In Opt. Handling Package, Frameless				None	
Stabilizer — Material	- - -										SAE 1090, .95 Dia.				- - -	
Track bar type	None										None				None	

"HANDLING PACKAGE" OPTIONS: Gremlin, Hornet-6 & Javelin-6: Front Sway Bar; Heavy-Duty Springs & Shocks. Hornet V-8, Javelin V-8 & AMX; Heavy-Duty Springs & Shocks. Rebel & Ambassador (Std. on Rebel "Machine"); Heavy-Duty Springs & Shocks; Rear Sway Bar. Note: Rebel "Machine" Hardtop uses Std. Wagon Rear Springs

(1) Rear Torque Links Standard on AMX, Dealer Kit for Javelin.

AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	HORNET & GREMLIN (•)		HORNET	REBEL & AMBASSADOR			JAVELIN	AMX
	2-Door Sedan		4-Dr Sed.	Sedan	Wagon	Hardtop	Hardtop	Coupe
FRAME	BASE	SST	BASE & SST	ALL	ALL	ALL	ALL	ALL
Type and description (Separate frame, unitized frame, partially - unitized frame)	Single-Unit, Body-And-Frame. One-Piece Uniside, Inner & Outer (Rebel & Amb. 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 Indent. No. location		Plate on Left Door. Plate on Top Surface, Left-Side of Instrument Panel at Base of Windshield.						
Engine No. location		6-Cyl. . .Block, Upper Right Center V-8. . . .Front of Right-Hand Valve Cover						
Theft protection - type		Key Lock on Steering Column Locks Ignition, Transmission & Steering Wheel. Warning Buzzer Included.						
Vent window control method (crank, friction pivot)	Front	None			Friction Pivot		None	
	Rear	None					None	
Seat cushion type	Front	Formed Wire			Coil(Formed Wire,Buckets		Form.Wire	
	Rear	Formed Wire			Coil		Form.Wire	None
	3rd seat	Solid Polyurethane Foam for Rebel & Ambassador 3-Seat Wagon						
Seat back type	Front	Formed Wire			Coil(Formed Wire,Buckets)		Form.Wire	
	Rear	Formed Wire			Coil		Form.Wire	None
	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 ("Chemcor" type for Javelin & AMX)						
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		1264	1264	1264	1313	1313	1313	1235	1235
Side glass exposed surface area		1416	1362	1328	1416	2496	1332	1321	1112
Backlight glass exposed surface area		787	787	787	1006	776	1215	1225	1225
Total glass exposed surface area		3467	3413	3379	3735	4585	3860	3781	3572
		(1)	(1)						

(•) GREMLIN:

Windshield Glass Area	1264
Side Glass Area	1186
Backlight Glass Area	889
Total Glass Area	3339

(1) Difference in 2-door sedan side-glass area (and total) due to fixed rear window on Hornet Base model vs flip-open window on Hornet SST model.

AMA Specifications—Passenger Car

Page 23

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•) 4-1-70

MODEL	(•) HORNET & GREMLIN	REBEL & AMBASSADOR	JAVELIN & AMX
CONVENIENCE EQUIPMENT	(Indicate whether standard, optional or NA on each series)		
Power windows — Side windows	N.A.	Opt. AMB. DPL & SST	N.A.
Power windows — Vent windows	N.A.		
Power windows — ~~Rear window~~ or tailgate	- - -	Opt. (Std. on 3-Seat)	- - -
Power seats (specify type as well as availability)	N.A.		
Reclining front seat back (R-L ~~or both~~)	Opt. on Hornet SST	Opt.(Std. on Amb.SST)	N.A.
Front seat head restrainer (R-L ~~or both~~)	Standard		
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 (1)	Optional (1)
Power antenna	N.A.		
Clock	Opt. on Hornet	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.		
Dome lamp Standard	Ceiling type for Sedans & Wagons (2)		Rear Pillars (NA AMX)
Glove compartment lamp	Optional	Opt. (Std. Amb. SST)	Optional
Luggage compartment lamp	Opt. on Hornet	Opt. (Std. Amb. SST)	Optional
Underhood lamp	N.A.		
Courtesy lamp	Optional	Opt. (Std. Amb. SST)	Opt. (Std. AMX)
Map lamp	N.A.	N.A.	Optional
Auto. trans. quad. lamp	Standard		
Cornering light lamp	N.A.		
Emergency flasher lamp	Standard (4-Way Hazard Warning Signal)		
Back-up lamp	Standard		
Tachometer	N.A.	Std. on Rebel "Machine"	Optional (Std. AMX)
Wagon Roof Rack	Opt. on Gremlin	Std., N.A. Base Rebel	Opt. Trunk Lid Rack
"Command-Air" High-Level Vent	Std. on Hornet	Opt. on cars less Air Cond.	

LAMP HEIGHT AND SPACING 2 & 4			HORNET 4 Dr.Sed	GREMLIN 2dr.Sed	REBEL Sed & HT	REBEL Wagon	AMBASSADOR Sed & HT	AMBASSADOR Wagon	JAVELIN Hardtop	AMX Coupe
Height above ground to center of bulb or marker	Headlamp	Highest *	25.62	25.02	27.11	27.16	27.35	27.68	26.26	26.05
		Lowest	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	Tail	Highest	24.67	23.62	23.33	30.55	23.40	30.43	24.31	24.74
		Lowest	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	Sidemarker	Front	24.52	23.92	30.90	31.10	23.00	23.34	24.15	23.95
		Rear	24.67	23.60	20.55	30.55	20.69	30.43	21.70	22.07
Distance from C/L of car to center of bulb	Headlamp	Inside	- - -	- - -	20.70	20.70	22.56	22.56	- - -	- - -
		Outside *	24.70	24.70	29.42	29.42	29.20	29.20	27.25	27.25
	Tail	Inside	- - -	- - -	16.66	- - -	7.32	- - -	12.51	12.51
		Outside	26.80	24.00	28.34	34.24	26.22	34.24	24.76	24.76
	Directional	Front	17.15	15.00	24.56	24.56	25.68	25.68	26.85	18.00
		Rear	26.80	24.00	28.34	34.24	26.22	34.24	24.76	24.76

* If single headlamps are used enter here.

1. Included with 8-Track Stereo Tape Player for Ambassadors (except wagon), Javelin & AMX.
2. Rear Side Pillars (both) on Hardtops (except Rebel Base).

AMA Specifications—Passenger Car

Page 24

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1970 DATE ISSUED 9-25-69 REVISED (•)4-1-70

WEIGHTS

BASE ENGINE	MODEL	CURB WEIGHT * POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	LIQUID WEIGHT Fuel	Coolant	OFFICIAL SHIPPING WEIGHTS FILED W/STATE LICENSE BUREAUS
	HORNET:										
199 Six	4-Dr. Sedan 7005-0 Base	1597	1217	2814	49	51	19	81			2748
232 Six	4-Dr. Sedan 7005-7 SST	1601	1230	2831	49	51	19	81			2765
199 Six	2-Dr. Sedan 7006-0 Base	1566	1177	2743	49	51	19	81			2677
232 Six	2-Dr. Sedan 7006-7 SST	1580	1191	2771	49	51	19	81			2705
(•)	GREMLIN:										
199 Six	2-Dr. Sedan 7046-0 2-Pass	1506	1069	2575	43	57	--	--			2497
199 Six	2-Dr. Sedan 7046-5 4-Pass	1515	1120	2635	43	57	17	83			2557
	REBEL:										
232 Six	4-Dr. Sedan 7015-0 Base	1686	1524	3210	49	51	19	81			3129
232 Six	4-Dr. Sedan 7015-7 SST	1697	1539	3236	↑	↑	19	81			3155
232 Six	4-Dr. Wagon 7018-0 Base	1605	1832	3437			19	81			3356
232 Six	4-Dr. Wagon 7018-7 SST	1617	1839	3456			19	81			3375
232 Six	2-Dr. Hardtop 7019-0 Base	1690	1539	3229			21	79			3148
232 Six	2-Dr. Hardtop 7019-7 SST	1726	1561	3287	↓	↓	21	79			3206
390 V-8	2-Dr. Hardtop 7019-0 Machine	2064	1667	3731	49	51	21	79			3650
	AMBASSADOR:										
232 Six	4-Dr. Sedan 7085-2 Base	1822	1587	3409	47	53	18	82			3328
304 V-8	4-Dr. Sedan 7085-5 DPL	1975	1629	3604	↑	↑	18	82			3523
304 V-8	4-Dr. Sedan 7085-7 SST	1994	1644	3638			18	82			3557
304 V-8	4-Dr. Wagon 7088-5 DPL	1932	1951	3883			18	82			3817
304 V-8	4-Dr. Wagon 7088-7 SST	1962	1956	3918			18	82			3852
304 V-8	2-Dr. Hardtop 7089-5 DPL	1986	1650	3636	↓	↓	20	80			3555
304 V-8	2-Dr. Hardtop 7089-7 SST	2019	1668	3687	47	53	20	80			3606
	JAVELIN:										
232 Six	2-Dr. Hardtop 7079-5 Base	1625	1286	2911	46	54	20	80			2845
232 Six	2-Dr. Hardtop 7079-7 SST	1630	1299	2929	46	54	20	80			2863
	AMX:										
360 V-8	2-Dr. HT Coupe 7039-7 Base	1808	1384	3192	39	61	--	--			3126

Accessories & Equipment Differential	Front	Rear	Total
Twin-Grip Differential	0	9	9
Dual Exhaust, Javelin (Std. AMX)	5	25	30
(Std.w/390V8), Reb. & Amb. 360 V8	5	23	28
Power Steering	35	-4	31
Power Brakes	9	1	10
Power Disc Brakes, Hornet,Jav.&AMX	25	2	27
, Ambassador	7	-7	0
, Reb,Sed&HT 304	26	1	27
,Reb Wag 304 & all 360/390	8	-8	0
Air Cond., Hornet 6/V8	73/65	-7/-5	66/60
(•) , Gremlin 6	78	-5	73
, Rebel 6/V8	78/73	-3/-2	75/71
, Javelin 6/Jav-AMX V8	68/75	-3/-4	65/71
A.C. Delete, Ambassador 6/V8	-66/-64	2/2	-64/-62
Command-Air Vent, Rebel & Amb.	9	2	11
(incl. in AC) , Javelin & AMX	6	1	7
(•) Radio, Hornet,Gremlin,Javelin&AMX	5	1	6
, Rebel & Ambassador	5	2	7
Radio & Rear Speaker(except Hornet	5	3	8
Stereo Tape, Ambassador & Gremlin)	6	5	11
Stereo Tape & Radio, Javelin & AMX	7	5	12
Power Side Windows, Ambassador	7	7	14
Power Tailgate Window, Reb. & Amb.	-2	8	6
3rd. Seat Wag. & Pow. Tgt. Reb./Amb.	-4/-4	35/25	31/21
(•) Spoiler, Javelin (Roof or Rear)	2	8	10
Auto. Speed Control, Rebel & Amb.	7	0	7
Ind.Adj.Recl.Seats, Hornet 2Dr/4Dr	8/12	9/12	17/24
, Rebel 2Dr/4Dr	10/13	11/13	21/26
(in SST Weight) , Amb. 2Dr/4Dr	9/12	12/14	21/26
Buckets,W/Cushion, Rebel(Std Machine)	12	13	25
,W/Console, Rebel	16	17	33
,W/Cushion, Ambassador	2	3	5
,W/Console, Ambassador	6	6	12
(•) ,Gremlin	11	14	25
(•) Interior Trim Package, Gremlin	4	2	6

	Front	Rear	Total
Cent.Cush.&Armrest,AMX,Jav(Std SST)	5	6	11
Console (no shift lever), Javelin	5	4	9
Vinyl Covered Roof, Hornet/Javelin	2/1	4/4	6/5
, Rebel & Amb.	3	4	7
Bumper Guards, Front & Rear	4	4	8
, Front Wagon	4	0	4
, Rear Javelin & AMX	0	4	4
Wire Wheel Covers, 4	8	8	16
Turbo-Cast Wheel Covers, 4	10	10	20
Handling Pkg., Hornet 6/V8	17/1	2/9	19/10
(•) , Gremlin 6	18	6	24
, Rebel (Std. Machine)	2	14	16
, Ambassador	2	14	16
, Javelin 6/V8 & AMX	17/1	4/4	21/5
Heavy-Duty Cooling (Std w/AC)	8	-1	7
70-Amp. Battery	8	-1	7
Undercoat & Hood Insulation	10	10	20
Undercoat only	9	10	19
Hornet, 6.45x14 to B78x14 Tires	7	11	18
, 6.45x14 to C78(6½ to 5 rim)	11	17	28
, C78x14 to D78 (5 to 5½ rim)	5	8	13
, C78x14 to D70 (5 to 6 rim)	15	23	38
Rebel, E78x14 to F78x14	3	5	8
, G78x14 to H78x14	3	5	8
Amb., F78x14 to G78 (5½ to 6 rim)	8	11	19
, H78 "B" to H78 "D" Rating	8	12	20
Javelin, C78x14 to D78x14	5	8	13
, C78x14 to E70 (5 to 6 rim)	16	25	41
, D78x14 to E70 (5 to 6 rim)	12	17	29
, D78x14 to F70 (5 to 6 rim)	22	13	35
AMX, E78x14 to E70x14	4	4	8
, E78x14 to F70x14	8	8	16
Gremlin, 6.00x13 to 6.45x14	7	11	18
, 6.00x13 to B78x14	13	20	33
Styled Wheels w/Space-Saver Spare	7	-5	2

*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d). (Std. on AMX & Machine)

OFFICIAL SHIPPING WEIGHT includes heater (plus air conditioning on Ambassador), two head-restraints, spare wheel & tire, tire jack with wrench, oil, coolant, plus 8 gallons fuel.
CURB WEIGHT equals shipping weight plus fuel to fill tank (see chart below).

FUEL TO FILL TO CURB WEIGHT:	FRONT	REAR	TOTAL
Hornet ..... 8 to 19 gal.	-11	77	66
Javelin..... 8 to 19 gal.	-11	77	66
AMX ..... 8 to 19 gal.	-12	78	66
Rebel..... 8 to 21.5 gal.	-16	97	81
Ambassador ..... 8 to 21.5 gal.	-15	96	81
All 3-Seat Wagons .. 8 to 19 gal.	- 8	74	66
(•)Gremlin..... 8 to 21 gal.	-11	89	78

	HORNET ENGINE/TRANS. COMBINATIONS:			
Base	199-1B 3-Speed to 199-1B Auto	13	5	18
Base	199-1B 3-Speed to 232-1B 3-Speed	4	0	4
Base	199-1B 3-Speed to 232-1B Auto	17	5	22
Base	199-1B 3-Speed to 232-2B Auto	21	5	26
SST	232-1B 3-Speed to 232-1B Auto	13	5	18
SST	232-1B 3-Speed to 232-2B Auto	17	5	22
SST	232-1B 3-Speed to 304-2B Auto	170	67	237

	REBEL ENGINE/TRANS. COMBINATIONS:			
	232-1B 3-Speed to 232-1B Auto	7	3	10
	232-1B 3-Speed to 232-2B Auto	11	3	14
	232-1B 3-Speed to 304-2B Auto, Sed&HT	153	8	161
	232-1B 3-Speed to 304-2B Auto, Wagon	169	20	189
	232-1B 3-Speed to 360-2B Auto	224	25	249
	232-1B 3-Speed to 360-4B Auto	231	25	256
	232-1B 3-Speed to 390-4B Auto	260	52	312

	AMBASSADOR ENGINE/TRANS. COMBINATIONS:			
	232-2B 3-Speed to 232-2B Auto	7	3	10
Base	232-2B 3-Speed to 304-2B Auto	149	30	179
Base	232-2B 3-Speed to 360-2B Auto	200	39	239
Base	232-2B 3-Speed to 360-4B Auto	207	39	246
SST & DPL	304-2B Auto. to 360-2B Auto	51	9	60
SST & DPL	304-2B Auto. to 360-4B Auto	58	9	67
SST & DPL	304-2B Auto. to 390-4B Auto	88	35	123

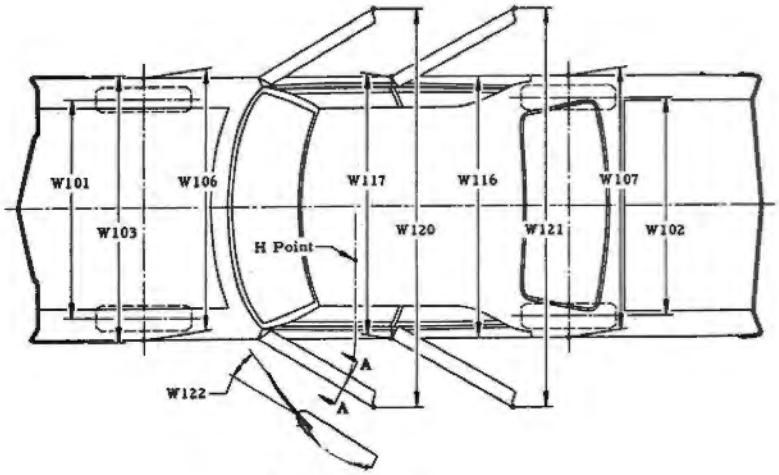
	JAVELIN ENGINE/TRANS. COMBINATIONS:			
	232-1B 3-Speed to 232-1B Auto	6	2	8
	232-1B 3-Speed to 304-2B 3-Speed	199	68	267
	232-1B 3-Speed to 304-2B Auto Column	171	64	235
Base	232-1B 3-Speed to 304-2B Auto Console	176	68	244
SST	232-1B 3-Speed to 304-2B Auto Console	171	62	233
	232-1B 3-Speed to 360-2B Auto Column	229	78	307
Base	232-1B 3-Speed to 360-2B Auto Console	234	82	316
SST	232-1B 3-Speed to 360-2B Auto Console	229	66	295
	232-1B 3-Speed to 360-4B Auto Column	236	78	314
Base	232-1B 3-Speed to 360-4B Auto Console	241	82	323
SST	232-1B 3-Speed to 360-4B Auto Console	236	66	302
	232-1B 3-Speed to 360-4B 4-Speed	230	71	301
Base	232-1B 3-Speed to 390-4B Auto Console	274	109	383
SST	232-1B 3-Speed to 390-4B Auto Console	269	103	372
	232-1B 3-Speed to 390-4B 4-Speed	256	91	347

	AMX ENGINE/TRANS. COMBINATIONS:			
	360-4B 4-Speed to 390-4B 4-Speed	24	0	24
	360-4B 4-Speed to 360-4B Auto Console	11	11	22
	360-4B 4-Speed to 390-4B Auto Console	13	12	25

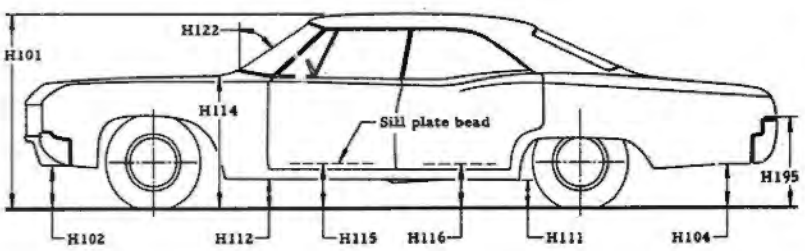
(•)	GREMLIN ENGINE/TRANS. COMBINATIONS:			
	199-1B 3-Speed to 199-1B Auto	13	6	19
	199-1B 3-Speed to 232-1B 3-Speed Floor	6	1	7
	199-1B 3-Speed to 232-1B Auto	17	6	23

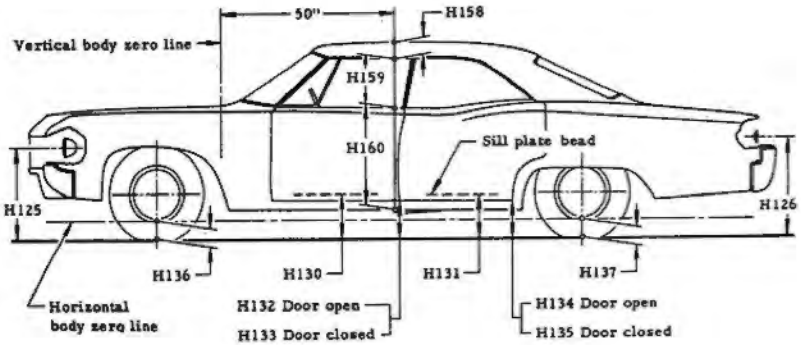
	Front	Rear	Total
(•) Deck Luggage Rack, Gremlin	3	6	9
(•) Roof Luggage Rack, Javelin & AMX	-1	8	7

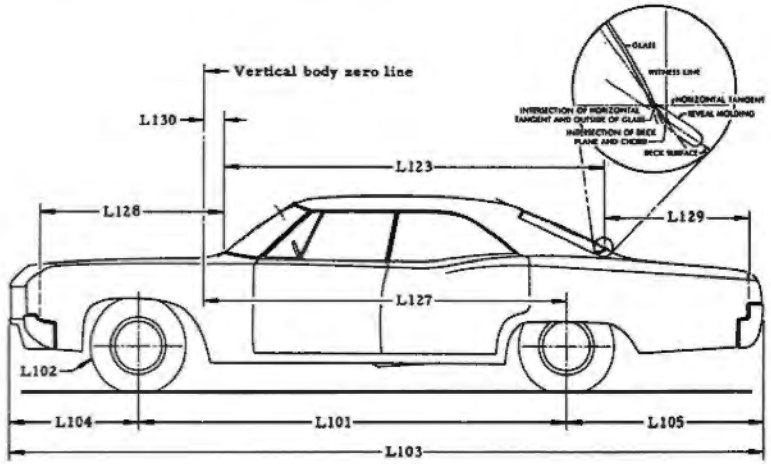
KEY to EXTERIOR CAR and BODY DIMENSIONS

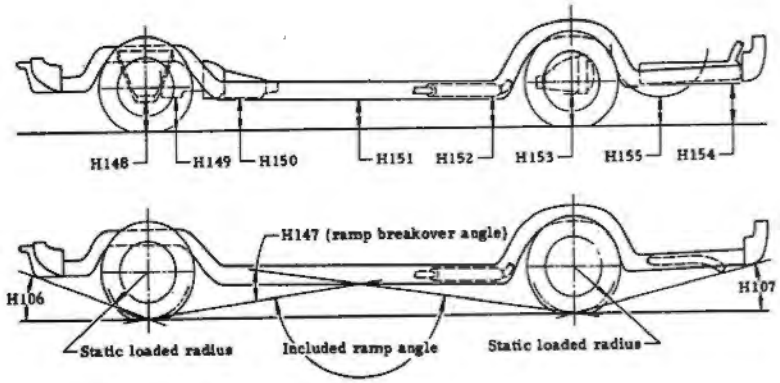


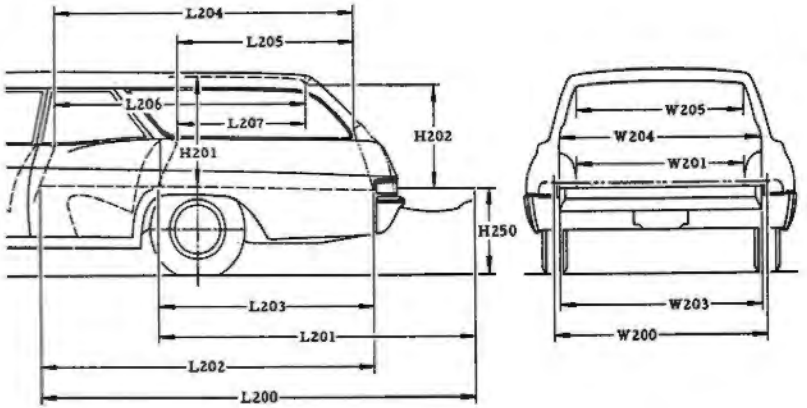
SECTION A-A











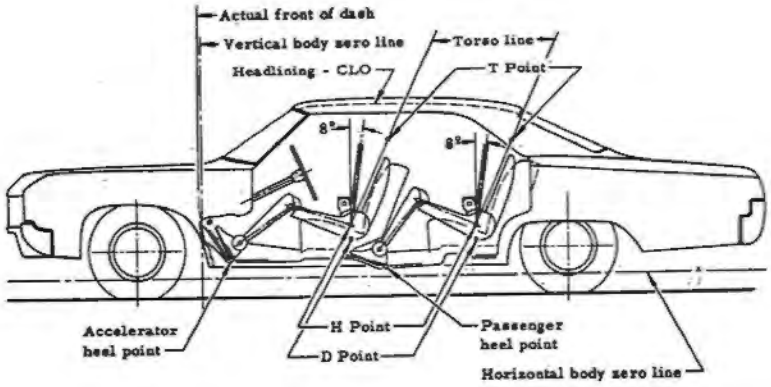
(•)

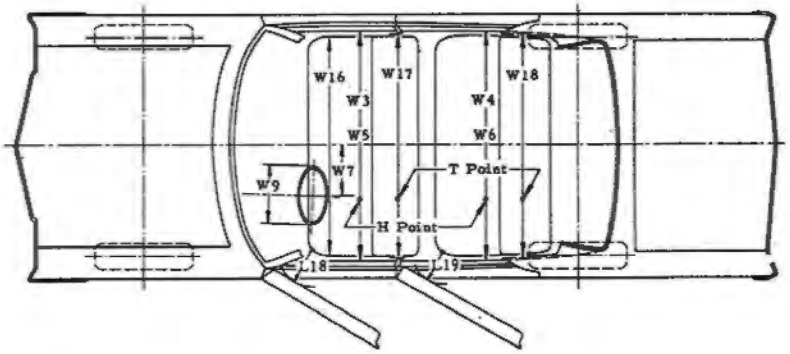
CAR AND BODY DIMENSIONS *
AMA SPECIFICATIONS SUPPLEMENT

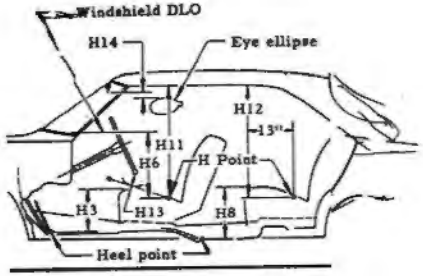
EXTERIOR CODE NO	DESCRIPTION	HORNET 2-Door Sedan 7006-0 7006-7	HORNET 4-Door Sedan 7005-0 7005-7	GREMLIN 2-Door Sedan 7046-0 2-Pass.	GREMLIN 2-Door Sedan 7046-5 4-Pass.	REBEL 4-Door Sedan 7015-0 7015-7	REBEL 2-Door Hardtop 7019-0 7019-7	REBEL 4-Door Wagon 7018-0 7018-7	AMBASSADOR 4-Door Sedan 7085-2 7085-5 7085-7	AMBASSADOR 2-Door Hardtop 7089-5 7089-7	AMBASSADOR 4-Door Wagon 7088-5 7088-7	JAVELIN 2-Door Hardtop 7079-5 7079-7	AMX 2-Door Sports Coupe 7039-7
WIDTH													
W101	TREAD - FRONT	57.46	57.46	57.46	57.46	60.00	60.00	60.00	60.00	60.00	60.00	59.30	59.70
W102	TREAD - REAR	57.00	57.00	57.00	57.00	60.00	60.00	60.00	60.00	60.00	60.00	57.00	57.00
W103	MAXIMUM OVERALL WIDTH OF CAR	70.58	70.58	70.58	70.58	77.24	77.24	77.24	77.24	77.24	77.24	71.89	71.57
W116	MAXIMUM OVERALL WIDTH OF BODY	70.58	70.58	70.58	70.58	77.24	77.24	77.24	77.24	77.24	77.24	71.89	71.57
W117	MAXIMUM BODY WIDTH AT #2 PILLAR	67.88	67.88	67.88	67.88	75.46	75.46	75.46	75.46	75.46	75.46	69.71	69.71
W106	FRONT FENDER OVERALL WIDTH	69.08	69.08	69.08	69.08	77.24	77.24	77.24	77.24	77.24	77.24	70.69	70.69
W107	REAR FENDER OVERALL WIDTH	70.58	70.58	70.58	70.58	76.76	76.76	76.76	76.76	76.76	76.76	71.89	71.57
W120	MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN	156.40	141.72	156.40	156.40	143.14	166.86	143.14	143.14	166.86	143.14	152.90	152.90
W121	MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN	- - -	122.62	- - -	- - -	140.60	- - -	140.60	140.60	- - -	140.60	- - -	- - -
LENGTH													
L30	BODY ZERO LINE TO ACTUAL FRONT OF DASH	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
L101	WHEELBASE	108.00	108.00	96.00	96.00	114.00	114.00	114.00	122.00	122.00	122.00	109.00	97.00
L104	OVERHANG, FRONT	33.25	33.25	33.25	33.25	31.90	31.90	31.90	32.90	32.90	32.90	41.52	41.52
L105	OVERHANG, REAR	38.01	38.01	32.00	32.00	53.10	53.10	52.10	53.10	53.10	52.10	40.52	40.52
L103	OVERALL LENGTH	179.26	179.26	161.25	161.25	199.00	199.00	198.00	208.00	208.00	207.00	191.04	179.04
L128	HOOD LENGTH AT CENTERLINE	52.93	52.93	52.93	52.93	52.07	52.07	52.07	61.75	61.75	61.75	61.31	61.31
L123	BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE	96.10	96.10	94.37	94.37	104.70	109.64	135.86	104.37	110.23	135.86	102.03	90.03
L129	DECK LENGTH AT CENTERLINE	27.22	27.22	- - -	- - -	39.86	36.26	- - -	39.86	36.26	- - -	23.30	23.30
L127	BODY ZERO LINE TO CENTERLINE OF REAR WHEELS	96.00	96.00	84.00	84.00	100.00	100.00	100.00	100.00	100.00	100.00	95.00	83.00
L130	BODY ZERO LINE TO WINDSHIELD COWL POINT	9.12	9.12	9.12	9.12	7.50	7.50	7.50	7.23	7.23	7.23	7.95	7.95
L102	TIRE SIZE	6.45x14	6.45x14	6.00x13	6.00x13	E78x14	E78x14	G78x14	F78x14	F78x14	H78x14	C78x14	E78x14
HEIGHT													
	DESIGN LOAD (PASS. DISTR.)	3 - 2	3 - 2	2 - 0	2 - 2	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 2	2 - 0
H101	OVERALL HEIGHT	52.25	52.25	51.80	51.80	55.03	54.41	56.69	55.21	54.61	56.88	51.53	51.40
H114	COWL TO GROUND	36.54	36.54	35.83	35.83	38.47	38.47	39.21	38.71	38.71	39.56	36.57	36.50
H112	ROCKER PANEL TO GROUND - FRONT	8.20	8.20	7.60	7.60	9.10	9.10	10.00	9.32	9.32	10.31	8.90	8.66
H111	ROCKER PANEL TO GROUND - REAR	6.90	6.90	6.41	6.41	8.16	8.16	9.86	8.33	8.33	9.97	8.27	8.15
H132	BOTTOM OF DOOR TO GROUND, OPEN - FRONT	11.90	11.95	11.28	11.28	12.75	12.84	13.86	12.96	13.05	14.12	12.86	12.88
H134	BOTTOM OF DOOR TO GROUND, OPEN - REAR	- - -	10.45	- - -	- - -	11.98	- - -	13.52	12.10	- - -	13.68	- - -	- - -
H122	WINDSHIELD SLOPE ANGLE	57°30'	57°30'	57°30'	57°30'	54°06'	54°06'	54°06'	54°06'	54°06'	54°06'	59°07'	59°07'
H125	HEADLAMP TO GROUND	25.74	25.74	25.20	25.20	27.11	27.11	27.16	27.35	27.35	27.68	26.26	26.05
H126	TAILLAMP TO GROUND	23.53	23.53	23.62	23.62	23.33	23.33	30.55	23.40	23.40	30.43	24.31	24.74
H136	BODY ZERO TO GROUND - FRONT	7.48	7.48	6.78	6.78	7.76	7.76	8.28	8.10	8.10	8.68	7.81	7.69
H137	BODY ZERO TO GROUND - REAR	6.10	6.10	5.64	5.64	6.63	6.63	8.65	6.77	6.77	8.68	6.37	6.65
H133	BOTTOM OF DOOR TO GROUND, CLOSED - FRONT	10.55	10.65	9.94	9.94	11.67	11.58	13.05	11.85	11.74	13.24	11.62	11.72
H135	BOTTOM OF DOOR TO GROUND, CLOSED - REAR	- - -	10.40	- - -	- - -	11.42	- - -	13.19	11.59	- - -	13.29	- - -	- - -
H158	ROOF THICKNESS	4.15	4.15	4.15	4.15	4.46	3.84	4.72	4.46	3.84	4.72	5.20	4.93
H159	DLO HEIGHT	13.90	13.90	13.90	13.90	14.10	14.06	14.10	14.10	14.06	14.10	12.25	12.08
H160	BODY THICKNESS	27.20	27.20	27.20	27.29	28.10	28.10	28.10	28.10	28.10	28.10	27.02	27.02
H195	LIFTOVER HEIGHT	28.75	28.75	- - -	33.90	28.91	28.91	- - -	29.00	29.00	- - -	27.39	27.82
GROUND CLEARANCE													
HEIGHT													
H102	FRONT BUMPER TO GROUND	17.35	17.35	16.70	16.70	12.67	12.67	12.84	12.86	12.86	13.33	12.72	12.51
H104	REAR BUMPER TO GROUND	15.30	15.30	14.70	14.70	15.60	15.60	12.79	15.70	15.70	12.71	15.22	15.55
H106	ANGLE OF APPROACH	26°56'	26°56'	27°04'	27°04'	27°46'	27°37'	28°33'	25°27'	25°21'	26°34'	24°45'	23°51'
H107	ANGLE OF DEPARTURE	19°01'	19°01'	23°01'	23°01'	13°59'	14°05'	14°28'	14°14'	14°13'	14°47'	23°48'	25°
H147	RAMP BREAKOVER ANGLE	16°20'	16°20'	17°01'	17°01'	16°59'	17°01'	18°48'	14°35'	15°49'	16°54'	16°55'	19°24'
H148	FRONT SUSPENSION TO GROUND	6.08	6.08	5.32	5.32	6.08	6.08	6.60	9.78	9.78	7.00	6.25	6.13
H149	OIL PAN TO GROUND	5.96	5.96	5.17	5.17	6.27	6.27	6.95	6.53	6.53	7.31	6.28	6.14
H150	FLYWHEEL HOUSING/TRANS. ASSY. TO GROUND	5.92	5.92	5.12	5.12	6.21	6.21	6.95	6.49	6.49	7.30	6.21	6.22
H151	FRAME TO GROUND	6.95	6.95	6.04	6.04	7.88	7.88	9.14	8.07	8.07	9.36	6.18	6.23
H152	EXHAUST SYSTEM TO GROUND	5.21	5.21	7.53	7.53	6.30	6.30	7.88	6.47	6.47	8.02	5.11	5.30
H153	REAR AXLE DIFFERENTIAL SYSTEM TO GROUND	7.11	7.11	5.01	5.01	6.31	6.31	8.33	6.45	6.45	8.36	6.19	5.62
H154	FUEL TANK TO GROUND	7.68	7.68	5.12	5.12	7.23	7.23	9.48	7.44	7.44	9.48	7.15	7.44
H155	TIRE WELL TO GROUND	12.22	12.22	11.17	11.17	- - -	- - -	10.97	- - -	- - -	10.93	- - -	- - -
H156	MINIMUM RUNNING GROUND CLEARANCE	5.21	5.21	5.01	5.01	6.08	6.08	6.60	6.45	6.45	7.00	5.11	5.30
	POSITION ON CAR	H 152	H 152	H 153	H 153	H 148	H 148	H 148	H 153	H 153	H 148	H 152	H 152

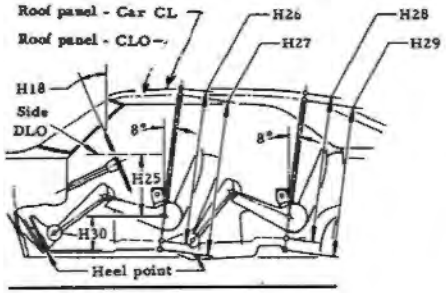
* For Dimension Definitions See Section E1, SAE Aerospace - Automotive Drawing Standards

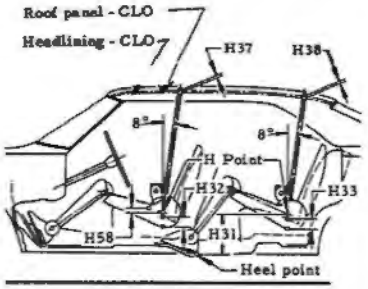
KEY to INTERIOR CAR and BODY DIMENSIONS

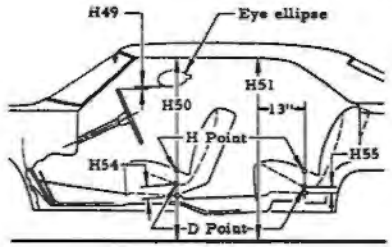


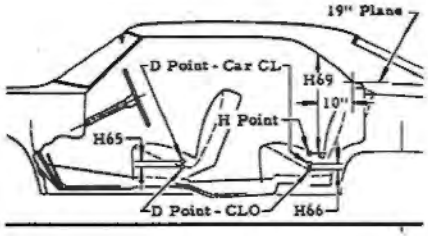


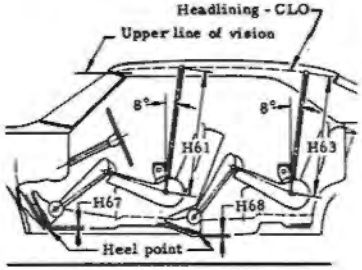


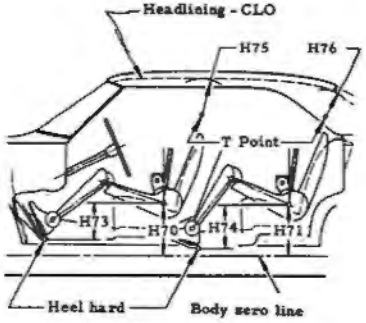


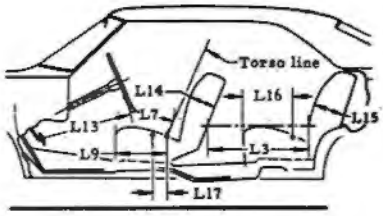


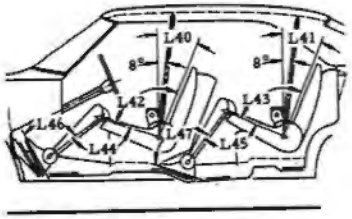


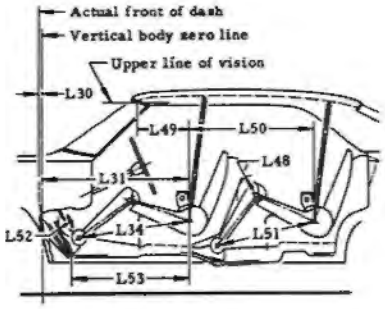


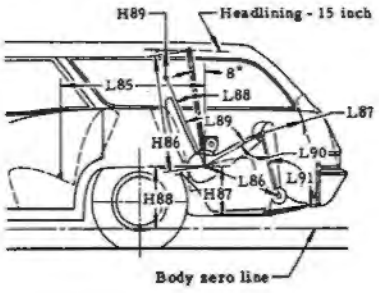


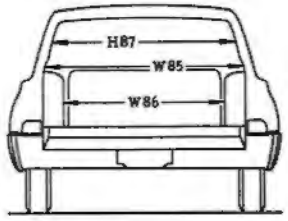












CAR AND BODY DIMENSIONS *
AMA SPECIFICATIONS SUPPLEMENT

(•)

INTERIOR CODE NO		HORNET		GREMLIN		REBEL			AMBASSADOR			JAVELIN	AMX
	DESCRIPTION	2-Door Sedan 7006-0 7006-7	4-Door Sedan 7005-0 7005-7	2-Door Sedan 7046-0 2-Pass.	2-Door Sedan 7046-5 4-Pass.	4-Door Sedan 7015-0 7015-7	2-Door Hardtop 7019-0 7019-7	4-Door Wagon 7018-0 7018-7	4-Door Sedan 7085-2 7085-5 7085-7	2-Door Hardtop 7089-5 7089-7	4-Door Wagon 7088-5 7088-7	2-Door Hardtop 7079-5 7079-7	2-Door Sports Coupe 7039-7
FRONT COMPARTMENT													
L31	BODY ZERO LINE TO H POINT	43.44	43.44	42.44	42.44	43.97	43.97	43.97	43.97	43.97	43.97	45.00	45.00
H70	H POINT TO BODY ZERO	10.85	10.85	10.98	10.98	11.84	11.84	11.84	11.84	11.84	11.84	10.20	10.20
H61	EFFECTIVE HEAD ROOM	38.00	38.00	37.90	37.90	39.60	38.95	39.88	39.60	38.95	39.88	37.50	37.20
H37	HEADLINING TO ROOF HEIGHT	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.59	.59
L34	MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR	41.05	41.05	40.05	40.05	42.45	42.45	42.45	42.45	42.45	42.45	43.05	43.05
H30	H POINT TO HEEL POINT	8.72	8.72	8.82	8.82	9.64	9.64	9.64	9.64	9.64	9.64	8.07	8.07
H67	DEPRESSED FLOOR COVERING THICKNESS	.35	.35	.35	.35	.45	.45	.45	.45	.45	.45	.45	.45
L40	BACK ANGLE	24°	24°	24°	24°	24°	24°	24°	24°	24°	24°	24°	24°
L42	HIP ANGLE	94°	94°	93°	93°	100°20'	100°20'	100°20'	100°20'	100°20'	100°20'	102°	102°
L44	KNEE ANGLE	123°	123°	116°	116°	134°10'	134°10'	134°10'	134°10'	134°10'	134°10'	143°50'	143°50'
L46	FOOT ANGLE	70°	70°	74°	74°	84°	84°	84°	84°	84°	84°	93°30	93°30
H65	D POINT DIFFERENTIAL, SIDE TO CENTER	.30	.30	.30	.30	0	0	0	0	0	0	0	0
H54	D POINT TO TUNNEL	.50	.50	.65	.65	1.42	1.42	1.42	1.42	1.42	1.42	.36	.36
L53	H POINT TO ACCELERATOR FLOOR POINT	33.62	33.62	32.62	32.62	35.12	35.12	35.12	35.12	35.12	35.12	36.23	36.23
L17	H POINT TRAVEL	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	H POINT RISE	.81	.81	.81	.81	.86	.86	.86	.86	.86	.86	.86	.86
H75	EFFECTIVE T POINT HEADROOM - FRONT	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
REAR COMPARTMENT													
L50	H POINT COUPLE DISTANCE	32.20	32.20	- - -	25.60	34.77	31.69	34.77	34.77	31.69	34.77	27.75	- - -
H71	H POINT TO BODY ZERO	10.85	10.85	- - -	11.95	12.54	11.84	12.54	12.54	11.84	12.54	10.00	- - -
H63	EFFECTIVE HEAD ROOM	37.00	37.00	- - -	36.40	37.47	36.60	38.71	37.47	36.60	38.71	36.00	- - -
H38	HEADLINING TO ROOF HEIGHT	.50	.50	- - -	.50	.50	.50	.50	.50	.50	.50	.50	- - -
L51	MINIMUM EFFECTIVE LEG ROOM	36.75	36.75	- - -	29.45	38.60	35.50	38.60	38.60	35.50	38.60	30.80	- - -
H31	H POINT TO HEEL POINT	11.05	11.05	- - -	12.15	10.82	10.10	10.82	10.82	10.10	10.82	10.25	- - -
H68	DEPRESSED FLOOR COVERING THICKNESS	.35	.35	- - -	.35	.45	.45	.45	.45	.45	.45	.45	- - -
L48	KNEE CLEARANCE	3.65	3.65	- - -	1.50	5.70	3.30	5.70	5.70	3.30	5.70	1.25	- - -
L3	REAR COMPARTMENT ROOM	26.07	26.07	- - -	20.90	29.60	26.26	29.60	29.60	26.26	29.60	21.90	- - -
L41	BACK ANGLE	21°	21°	- - -	21°	18°	18°	18°	18°	18°	18°	20°	- - -
L43	HIP ANGLE	85°	85°	- - -	85°	85°40'	78°	85°40'	85°40'	78°	85°40'	75°30'	- - -
L45	KNEE ANGLE	99°	99°	- - -	67°	108°	92°	108°	108°	92°	108°	79°	- - -
L47	FOOT ANGLE	108°	108°	- - -	83°	134°	126°	134°	134°	126°	134°	114°	- - -
H66	D POINT DIFFERENTIAL, SIDE TO CENTER	- - -	- - -	- - -	- - -	0	0	0	0	0	0	0	- - -
H55	D POINT TO TUNNEL	1.66	1.66	- - -	.35	1.01	.60	1.01	1.01	.60	1.01	- - -	- - -
H76	EFFECTIVE T POINT HEADROOM - REAR	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
SEAT & ENTRANCE-FRONT													
W3	SHOULDER ROOM	54.88	54.88	54.88	54.88	60.00	60.00	60.00	60.00	60.00	60.00	55.00	55.00
W5	HIP ROOM	54.88	54.88	54.88	54.88	60.30	60.30	60.30	60.30	60.30	60.30	57.60	57.60
W16	SEAT WIDTH	47.34	47.34	47.34	47.34	53.60	53.60	53.60	53.60	53.60	53.60	54.00	54.00
H50	UPPER BODY OPENING TO GROUND	48.45	48.45	47.40	47.40	50.13	49.66	50.95	49.86	50.33	51.16	47.13	47.16
H11	ENTRANCE HEIGHT	30.33	30.33	30.18	30.18	30.80	31.30	30.80	30.80	31.30	30.80	29.89	29.82
H115	STEP HEIGHT - FRONT (DESIGN LOAD)	14.06	14.06	13.18	13.18	13.79	13.72	14.89	14.00	13.93	15.15	13.51	13.49
H130	STEP HEIGHT - FRONT (CURB LOAD)	14.90	14.90	14.84	14.84	15.45	15.44	16.85	15.66	15.65	N/A	14.81	14.12
L18	ENTRANCE - FOOT CLEARANCE	17.65	17.65	16.60	16.60	15.33	15.33	15.33	15.33	15.33	15.33	16.60	16.60
H32	SEAT CUSHION DEFLECTION	4.34	4.34	4.34	4.34	3.77	3.77	3.77	3.77	3.77	3.77	3.60	3.60
L14	THICKEST POINT OF SEAT BACK, AT C/L O	5.50	5.50	4.50	4.50	5.45	5.45	5.45	5.45	5.45	5.45	5.10	5.10
W17	HAT ROOM	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
H3	SEAT CHAIR HEIGHT	11.00	11.00	11.00	11.00	12.00	12.00	12.00	12.00	12.00	12.00	10.10	10.10
H73	H POINT TO HEEL HARD - FRONT	8.72	8.72	8.82	8.82	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
L9	SEAT DEPTH - FRONT	20.36	20.36	20.36	20.36	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
H26	INTERIOR BODY HEIGHT - METAL TO METAL AT CAR C/L	39.00	39.00	38.75	38.75	42.00	41.30	42.20	42.00	41.30	42.20	38.89	37.86
H27	INTERIOR BODY HEIGHT - METAL TO METAL AT C/L O	44.50	44.50	44.00	44.00	46.00	45.30	46.25	46.00	45.30	46.25	44.39	43.92
SEAT & ENTRANCE-REAR													
W4	SHOULDER ROOM	53.32	54.40	- - -	52.96	60.00	59.00	60.00	60.00	59.00	60.00	53.20	- - -
W6	HIP ROOM	53.32	54.40	- - -	52.96	60.40	59.50	60.40	60.40	59.50	60.40	56.38	- - -
H51	UPPER BODY OPENING TO GROUND	- - -	48.12	- - -	- - -	49.06	- - -	50.64	49.24	- - -	50.78	- - -	- - -
H12	ENTRANCE HEIGHT	- - -	30.27	- - -	- - -	29.60	- - -	29.60	29.60	- - -	29.60	- - -	- - -
H116	STEP HEIGHT - REAR (DESIGN LOAD)	- - -	13.27	- -	- - -	13.30	- - -	14.88	13.47	- - -	15.02	- - -	- - -
H131	STEP HEIGHT - REAR (CURB LOAD)	- - -	14.90	- - -	- - -	15.32	- - -	16.94	15.53	- - -	N/A	- - -	- - -
H69	EXIT HEIGHT	- - -	28.82	- - -	- - -	29.26	- - -	29.26	29.26	- - -	29.26	- - -	- - -
L19	ENTRANCE - FOOT CLEARANCE	- - -	10.60	- - -	- - -	13.04	- - -	13.04	13.04	- - -	13.04	- - -	- - -
H33	SEAT CUSHION DEFLECTION	4.80	4.80	- - -	5.20	4.00	3.82	3.70	4.00	3.82	3.70	4.75	- - -
L15	THICKEST POINT OF SEAT BACK, AT C/L O	6.80	6.80	- - -	2.75	6.45	7.40	6.24	7.50	7.40	6.24	6.20	- - -
W18	HAT ROOM	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
H8	SEAT CHAIR HEIGHT	11.04	11.04	- - -	11.16	12.50	12.31	12.50	12.50	12.31	12.50	12.50	- - -
H74	H POINT TO HEEL HARD - REAR	11.03	11.03	- - -	12.34	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
L16	SEAT DEPTH - REAR	19.50	19.50	- - -	17.00	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
H28	INTERIOR BODY HEIGHT - METAL TO METAL AT CAR C/L	36.90	36.90	- - -	37.80	39.75	38.20	40.80	39.75	38.20	40.80	35.16	- - -
H29	INTERIOR BODY HEIGHT - METAL TO METAL AT C/L O	40.50	40.50	- - -	41.00	41.50	40.10	42.75	41.50	40.10	41.50	38.79	- - -
VISION & CONTROL													
H6	H POINT TO WINDSHIELD BOTTOM DLO	19.09	19.09	18.96	18.96	19.29	19.29	19.29	19.29	19.29	19.29	19.76	19.76
H64	H POINT TO WINDSHIELD UPPER DLO	32.12	32.12	32.00	32.00	32.23	32.23	32.23	32.23	32.23	32.23	31.03	31.03
L49	H POINT TO WINDSHIELD UPPER DLO	11.38	11.38	10.38	10.38	15.00	15.00	15.00	15.00	15.00	15.00	13.78	13.78
H25	BELT HEIGHT - FRONT	17.02	17.02	16.89	16.89	17.52	17.52	17.52	17.52	17.52	17.52	17.10	17.10
W7	STEERING WHEEL CENTER TO CENTERLINE OF CAR	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	STEERING WHEEL OUTSIDE DIAMETER	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	STEERING WHEEL ANGLE - VERTICAL	19°23'	19°23'	19°23'	19°23'	20°4'	20°4'	20°4'	20°4'	20°4'	20°4'	17°50'	17°50'
H49	H POINT TO TOP OF STEERING WHEEL	22.81	22.81	22.68	22.68	22.95	22.95	22.95	22.95	22.95	22.95	22.82	22.82
L7	STEERING WHEEL TORSO CLEARANCE	12.25	12.25	11.25	11.25	12.64	12.64	12.64	12.64	12.64	12.64	11.86	11.86
H13	STEERING WHEEL THIGH CLEARANCE	3.32	3.32	2.98	2.98	5.20	5.20	5.20	5.20	5.20	5.20	4.91	4.91
L13	BRAKE PEDAL KNEE CLEARANCE	23.38 Manual, 26.10 Power					24.50 Manual,		26.88 Power			23.60 a	23.60 a
L52	BRAKE PEDAL TO ACCELERATOR	3.65 Manual, .95 Power					4.38 Manual,		1.96 Power			3.70 b	3.70 b
W122	TUMBLE-HOME	25°	25°			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 26.32 (b) Power 1.00

1970 AMERICAN MOTORS CORP.

STATION WAGON THIRD SEAT DIMENSIONS *
AMA SPECIFICATIONS SUPPLEMENT

CODE NO	DESCRIPTION	REBEL 4-Door Wagon 7018-7	AMBASSADOR 4-Door Wagon 7088-5 7088-7	
	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 *
(FOR 2- & 3-SEAT MODELS)

		REBEL 4-Door Wagon 7018-0 7018-7	AMBASSADOR 4-Door Wagon 7088-5 7088-7	
L200	MAXIMUM CARGO LENGTH - FRONT SEAT	114.90	114.90	
L201	MAXIMUM CARGO LENGTH - SECOND SEAT	78.83	78.83	
L202	CARGO LENGTH AT FLOOR - FRONT SEAT	92.63	92.63	
L203	CARGO LENGTH AT FLOOR - SECOND SEAT	56.53	56.53	
L204	CARGO LENGTH AT BELT - FRONT SEAT	82.73	82.73	
L205	CARGO LENGTH AT BELT - SECOND SEAT	46.74	46.74	
L206	CARGO LENGTH AT ROOF - FRONT SEAT	75.33	75.33	
L207	CARGO LENGTH AT ROOF - SECOND SEAT	39.36	39.36	
W200	CARGO WIDTH - FRONT	(1)	(1)	
W201	CARGO WIDTH - WHEELHOUSE	45.08	45.08	
W203	REAR OPENING WIDTH AT FLOOR	53.66	53.66	
W204	OPENING WIDTH AT BELT	53.60	53.60	
W205	MAXIMUM REAR OPENING WIDTH ABOVE BELT	45.60	45.60	
H201	MAXIMUM CARGO HEIGHT	31.72	31.72	
H202	REAR OPENING HEIGHT	27.84	27.84	
H250	TAILGATE TO GROUND HEIGHT	25.58	25.48	
V2	CARGO VOLUME	91.12(2)	91.12(2)	

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

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

(2) 99.12 including under-floor storage 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.

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

AMA Specifications—Passenger Car

INDEX

SUBJECT	PAGE NO.
Automatic Transmission	16
Axis, Steering	20
Axle, Rear	17
Battery	12
Bearings, Engine	5, 6, 7
Belts – Fan, Generator, Water Pump	11
Brakes – Parking, Service Power	18, 19
Camber	20
Camshaft	6
Capacities	
Cooling System	11
Fuel Tank	10
Lubricants	
Engine Crankcase	8
Transmission and Overdrive	15, 16
Rear Axle	17
Car and Body Dimensions	
Width	1
Length	1
Height	1
Ground Clearance	1
Front Compartment	2
Rear Compartment	2
Luggage Compartment	2
Station Wagon – Third Seat	2
Station Wagon – Cargo Space	2
Carburetor	3, 9, 10
Caster	20
Choke, Automatic	10
Clutch – Pedal Operated	14
Coil, Ignition	13
Connecting Rods	5
Convenience Equipment	23
Cooling System	11
Crankcase Ventilation System	8
Crankshaft	6
Cylinders and Cylinder Head	4
Dimension Definitions	
Key Sheet	25, 27
Exterior & Interior	30
Distributor – Ignition	13
Electrical System	12, 13, 14
Engine	
Bore, Stroke, Displacement, Type	4
Compression Ratio	4
Firing Order, Cylinder Numbering	4
General Information, H.P. & Torque	4
Lubrication	7, 8
Power Teams	3
Exhaust Emission Control	9
Exhaust System	8
Equipment Availability	22
Fan, Cooling	11
Filters – Engine Oil, Fuel System	8, 10
Frame	22
Front Suspension	21
Fuel, Fuel Pump, Fuel System	4, 10
Fuel Injection	10
Generator and Regulator	12
Glass	22
Height (Lamps)	14
Headroom – Body	2
Heights – Car and Body	1
Horns	14
Horsepower – Brake	3, 4
Ignition System	13
Inflation – Tires	18
Instruments	14

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