

## 1972 AMA SPECIFICATIONS FORM ... Passenger Car

<b>MANUFACTURER</b> AMERICAN MOTORS CORPORATION	<b>CAR NAME</b> . Gremlin . Matador . Javelin . Hornet . Ambassador	
<b>MAILING ADDRESS</b> 14250 Plymouth Road Detroit, Michigan 48232 Attn: Carl Chakmakian Product Information Dept., 493-2557 (313)	<b>MODEL YEAR</b> 1972	<b>ISSUED:</b> <u>September 21, 1971</u> <b>REVISED (●)</b>

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 above. This specification form was developed by automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

# AMA Specifications Form—Passenger Car

## TABLE OF CONTENTS

BODY MODEL .....	1
CAR AND BODY DIMENSIONS .....	2, 3
POWER TEAMS .....	4
ENGINE .....	5-9
EXHAUST SYSTEM .....	9
FUEL SYSTEM .....	10
COOLING SYSTEM .....	11
VEHICLE EMISSION CONTROL .....	12
ELECTRICAL .....	13-15
DRIVE UNITS .....	16-18
TIRES AND WHEELS .....	19
BRAKES .....	19-20
STEERING .....	21
SUSPENSION – FRONT AND REAR .....	22
FRAME .....	23
BODY – MISCELLANEOUS INFORMATION .....	23
CONVENIENCE EQUIPMENT .....	24
LAMP HEIGHT AND SPACING .....	24
VEHICLE WEIGHTS .....	25
OPTIONAL EQUIPMENT WEIGHTS .....	26
CAR AND BODY DIMENSION KEY SHEETS .....	27, 28, 29
INDEX .....	30

### NOTES:

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

## AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (e)

BODY MODEL	Body Series, Type and Number. (Use mfg'r's. code for identification)	Number of Passengers (Indicate Front/Rear)
<u>GREMLIN:</u>	2-Door Sedan 7246-5	2 Front/2 Rear
<u>HORNET:</u>	SST 2-Door Sedan 7206-7 with optional Bucket or Reclining Seats	3 Front/2 Rear 2 Front/2 Rear
	SST 4-Door Sedan 7205-7 with optional Reclining Seats	3 Front/2 Rear 2 Front/2 Rear
	Sportabout 4-Door Wagon 7208-7 with optional Reclining Seats	3 Front/2 Rear 2 Front/2 Rear
<u>JAVELIN:</u>	SST 2-Door Hardtop 7279-7	2 Front/2 Rear
	AMX 2-Door Hardtop 7279-8	2 Front/2 Rear
<u>MATADOR:</u>	4-Door Sedan 7215-7	3 Front/3 Rear
	2-Door Hardtop 7219-7 with optional Bucket Seats	3 Front/3 Rear 2 Front/3 Rear
	4-Door Wagon 7218-7 with optional 3rd Seat	3 Front/3 Rear 3 Front/3 Rear/2 Aft
<u>AMBASSADOR:</u>	SST 4-Door Sedan 7285-5	3 Front/3 Rear
	SST 2-Door Hardtop 7289-5	3 Front/3 Rear
	SST 4-Door Wagon 7288-5 with optional 3rd Seat	3 Front/3 Rear 3 Front/3 Rear/2 Aft
	Brougham 4-Door Sedan 7285-7	3 Front/3 Rear
	Brougham 2-Door Hardtop 7289-7 with optional Bucket Seats	3 Front/3 Rear 2 Front/3 Rear
	Brougham 4-Door Wagon 7288-7 with optional 3rd Seat	3 Front/3 Rear 3 Front/3 Rear/2 Aft

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (e)

**CAR AND BODY DIMENSIONS**

See Pages 27, 28 for SAE Dimension Definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:  
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	HORNET 7201		GREMLIN 7240	MATADOR 7210			AMBASSADOR 7280			JAVELIN 7270	
		2- & 4-Door Sedan	4-Door Wagon	2-Door Sedan	4-Door Sedan	2-Door Hardtop	4-Door Wagon	4-Door Sedan	2-Door Hardtop	4-Door Wagon	2-Door Hardtop	
<b>WIDTH</b>												
Track - Front	W101	57.46(57.24 V8)		59.94			59.94			59.30(59.70 V8)		
Track - Rear	W102	57.00(56.60 V8)		60.00			60.00			60.00		
Maximum overall car width	W103	70.58	70.58	77.24			77.24			75.20		
Body width at No. 2 pillar	W117	67.88	67.88	75.46			75.46			69.71		
Max. front doors open	W120	156.40(141.72, 4D.)		143.14	166.86	143.14	143.14	166.86	143.14	152.90		
Max. rear doors open	W121	122.62		- - -	140.60	- - -	140.60	140.60	- - -	140.60	- - -	
<b>LENGTH</b>												
Body "O" to front of dash	L 30	1.50		1.50			1.50			1.50		
Wheelbase	L101	108.00	96.00	118.00			122.00			110.00		
Overall car length	L103	179.26	161.25	206.05	206.05	205.00	211.14	211.14	209.73	191.77		
Overhang - front	L104	33.25	33.25	34.93			35.66			42.25		
Overhang - rear	L105	38.01	32.00	53.12	53.12	52.07	53.48	53.48	52.07	39.52		
Body upper structure length	L123	96.10	118.00	94.37	104.37	110.23	135.86	104.37	110.23	135.86	99.86	
Body "O" line to C of rear wheel	L127	96.00		84.00			100.00			96.00		
Body "O" line to w.s. cowl point	L130	9.12		9.12			7.50			7.55		
<b>HEIGHT</b>												
Passenger Distribution (front & rear)		3-2		2-2	2-3 (capacity 3-3)			2-3 (capacity 3-3)			2-2	
Trunk/Cargo load (lbs.)		175		175	200	200	300	200	200	300	200	
Overall height	H101	52.40	52.90	51.80	55.35	53.82	56.39	55.54	54.86	56.70	50.87	
Cowl height	H114	36.54	37.15	35.83	38.47	37.59	39.21	38.55	38.55	39.56	36.55	
Deck height	H138	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
Rocker panel - front	H112	To ground		8.20	8.92	7.60	9.10	8.22	10.00	9.16	10.31	9.02
		From front wheel C		- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Bottom of front door to ground	H133	10.65	11.55	9.94	11.67	10.70	13.05	11.69	11.69	13.24	11.62	
Rocker panel - rear	H111	To ground		6.90	7.82	6.41	8.16	7.28	9.86	8.17	9.97	8.23
		From rear wheel C		- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Bottom of rear door to ground	H135	10.40	11.32	- - -	11.42	- - -	13.19	11.43	- - -	13.29	- - -	
Windshield slope angle	H122	57°30'		57°30'	54°06'			54°06'			59°07'	
<b>GROUND CLEARANCE</b>												
Bumper to ground - front	H102	17.35	11.90	16.70	12.67	11.79	12.84	12.70	12.70	13.33	17.84	
Bumper to ground - rear	H104	15.30	11.90	14.70	15.60	14.72	12.79	15.54	15.54	12.71	15.98	
Angle of approach	H106	26°56'	28°0'	27°4'	27°46'	27°37'	28°33'	25°27'	25°21'	26°34'	23°35'	
Angle of departure	H107	19°0'	23°30'	23°0'	13°59'	14°5'	14°28'	14°14'	14°13'	14°47'	19°0'	
Ramp breakover angle	H147	16°20'	18°0'	17°0'	16°59'	17°1'	18°48'	14°35'	15°49'	16°54'	17°30'	
Rear axle differential to ground	H153	7.11	6.50	5.01	6.31	5.43	8.33	6.29	6.29	8.36	6.50	
Min. running clearance (Specify)	H156	5.21	5.65	5.01	6.08	5.20	6.60	6.29	6.29	7.00	5.48	
" " " Location		Exhaust		R. Axle	Front Suspension			Rear Axle Diff.	F. Susp.	Exhaust		

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (\*)

**CAR AND BODY DIMENSIONS**

See Pages 27, 29 for SAE Dimension Definitions

MODEL	SAE Ref. No.	HORNET 7201	GREMLIN 7240	MATADOR & AMBASSADOR 7210 & 7280			JAVELIN 7270	
FRONT COMPARTMENT		2- & 4-Door Sedan	4-Door Wagon	2-Door Sedan	4-Door Sedan	2-Door Hardtop	4-Door Wagon	2-Door Hardtop
H Point to body "O" line	L31	44.36	44.36	43.92			45.00	
Effective head room	H61	38.00	38.00	39.60	38.95	39.88	37.50	
Max. eff. leg room - accelerator	L34	41.05	41.05	41.80			42.45	
H Point to Heel point	H30	8.70	8.70	9.70			8.08	
H Point travel	L17	4.93	4.93	4.93			4.93	
Shoulder room	W 3	54.88	54.88	60.00			55.00	
Hip room	W 5	54.88	54.88	60.30			57.60	
Upper body opening to ground	H50	47.60	48.70	47.40	50.13M 49.86A	48.66M 50.33A	50.95Mat. 51.16Amb.	45.52
REAR COMPARTMENT								
H Point couple distance	L50	31.22	23.56	34.82	31.74	34.82	27.75	
Effective head room	H63	37.00	37.40	36.40	37.47	36.60	38.71	35.60
Min. effective leg room	L51	36.75	29.00	38.60	35.50	38.60	30.80	
H Point to Heel point	H31	10.91	12.30	11.10	11.10	11.10	10.28	
Min. knee room	L48	2.40	-3.25	5.70	2.95	5.70	-.08	
Rear Compartment room	L 3	25.20	24.90	20.00	29.60	24.70	28.12	21.40
Shoulder room	W 4	53.32	52.96	60.00	59.00	60.00	53.20	
Hip room	W 6	54.40	52.96	60.40	59.50	60.40	56.38	
Upper body opening to ground	H51	48.12	48.36	- - -	49.06M 49.24A	- - -	50.64Mat. 50.78Amb.	- - -
LUGGAGE COMPARTMENT								
Usable luggage capacity (cu. ft.)	V 1	11.20(1)	- - -	6.0(1)	18.20(1)	18.20(1)	- - -	10.20(1)
Liftover height	H195	28.75	- - -	33.90	28.91	28.03	- - -	31.60
Position of spare tire storage	Tilted, Center Frt.	- - -	(2)	Tilted, Center Front			(3)	
Method of holding lid open		Counterbalanced	C'balanced	Counterbalanced, Flat Wound Spring				
STATION WAGON - THIRD SEAT Optional		Torsion Bar	Two Spring Cylinders	One Spring Cylinder				
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	74.30	- - -	- - -	92.63		- - -	
Cargo length at belt - front seat	L204	70.58	- - -	- - -	82.73		- - -	
Cargo width - Wheelhouse	W201	41.50	- - -	- - -	45.08		- - -	
Opening width at belt	W204	52.00	- - -	- - -	53.60		- - -	
Maximum cargo height	H201	27.90	- - -	- - -	31.72		- - -	
Rear opening height	H202	25.78	- - -	- - -	27.84		- - -	
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	60.76 (+3.8 under floor)	- - -	- - -	91.12 (+8 under floor)		- - -	

- (1) Plus 2 Cu. Ft. with opt. "Space-Saver" Spare (Std. on Sportabout & AMX & all with opt. wheels).
- (2) Flat, Left Rear.
- (3) Tilted, Right Front Opt. "Space-Saver", Flat, Right Rear (Std. AMX).



# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (a)

## POWER TEAMS

(Indicate whether standard or optional)

Gross bhp (brake horsepower) and gross torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.  
 Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

MODEL AVAILABILITY	ENGINE								TRANSMISSION	AXLE RATIO Std. (Opt.)
	Displ. cu. in.	Carb.	Compr. Ratio	Single Exhaust		Dual Exhaust				
				Net @RPM BHP	Torque	Net @RPM BHP	Torque			
GREMLIN	232 Six	1-B.	8.0	100@ 3600	185@ 1800	- - -	- - -	3-S. Man. Col. or Fl.	2.73 (3.08 & 3.31)	
	258 Six	1-B.	8.0	110@ 3500	195@ 2000	- - -	- - -	3-S. Man. Floor 3-S. Auto. Column	2.37 (2.73 & 3.08) (1) 2.73 (3.08 & 3.31)	
	304 V-8	2-B.	8.4	150@ 4200	245@ 2500	- - -	- - -	3-S. Man. Floor 3-S. Auto. Column	3.54 (3.15) 2.87 (3.15)	
HORNET SST & Sportabout	232 Six	1-B.	8.0	100@ 3600	185@ 1800	- - -	- - -	3-S. Man. Col. or Fl. 3-S. Auto. Column	3.08 (3.31) 2.37 (2.73 & 3.08) (1)	
	258 Six	1-B.	8.0	110@ 3500	195@ 2000	- - -	- - -	3-S. Man. Floor 3-S. Auto. Column	3.08 (3.31) 2.73 (3.08 & 3.31)	
	304 V-8	2-B.	8.4	150@ 4200	245@ 2500	- - -	- - -	3-S. Man. Floor 3-S. Auto. Column	3.54 (3.15) 2.87 (3.15)	
	360 V-8	2-B.	8.5	175@ 4000	285@ 2400	- - -	- - -	3-S. Auto. Column	2.87 (3.15)	
JAVELIN SST	232 Six (\$SST only)	1-B.	8.0	100@ 3600	185@ 1800	- - -	- - -	3-S. Man. Floor 3-S. Auto. Column	3.08 (3.31 & 3.58) 3.08 (3.31)	
	258 Six (\$SST only)	1-B.	8.0	110@ 3500	195@ 2000	- - -	- - -	3-S. Auto. Column	3.08 (3.31)	
JAVELIN SST & AMX (column-shift NA on AMX)	304 V-8 (Std. on AMX)	2-B.	8.4	150@ 4200	245@ 2500	- - -	- - -	3-S. Man. Floor 3-S. Auto. Col. & Fl.	3.54 (3.15) 2.87 (3.15)	
	360 V-8	2-B.	8.5	175@ 4000	285@ 2400	- - -	- - -	3-S. Auto. Col. & Fl.	2.87 (3.15)	
	360 V-8	4-B.	8.5	195@ 4400	295@ 2900	220@ 4400	315@ 3100	4-S. Man. Floor 3-S. Auto. Col. & Fl.	3.54 (3.15 & 3.91) 2.87 (3.15) (2)	
	401 V-8	4-B.	8.5	- - -	- - -	255@ 4600	345@ 3300	4-S. Man. Floor 3-S. Auto. Floor	3.54 (3.15 & 3.91) 2.87 (3.15 & 3.54) (2)	
MATADOR	232 Six (Sedan & Hardtop)	1-B.	8.0	100@ 3600	185@ 1800	- - -	- - -	3-S. Man. Column 3-S. Auto. Column	3.15 (3.54) (3) 3.15 (3.54)	
	258 Six (Sedan & Hardtop)	1-B.	8.0	110@ 3500	195@ 2000	- - -	- - -	3-S. Auto. Column	3.15 (3.54)	
	258 Six (Wagon)	1-B.	8.0	110@ 3500	195@ 2000	- - -	- - -	3-S. Man. Col. 3-S. Auto. Column	3.54 (none) 3.15 (3.54)	
MATADOR plus AMBASSADOR SST & BROUGHAM	304 V-8	2-B.	8.4	150@ 4200	245@ 2500	- - -	- - -	3-S. Auto. Column	2.87 (3.15)	
	360 V-8	2-B.	8.5	175@ 4000	285@ 2400	- - -	- - -	3-S. Auto. Column	2.87 (3.15)	
	360 V-8	4-B.	8.5	195@ 4400	295@ 2900	220@ 4400	315@ 3100	3-S. Auto. Column	2.87 (3.15)	
	401 V-8	4-B.	8.5	- - -	- - -	255@ 4600	345@ 3300	3-S. Auto. Column	2.87 (3.15)	

(1) With A/C (& Hornet Sportabout, less or with A/C)... 2.73 (3.08 & 3.31 Opt.) Also all Calif.  
 (2) Javelin AMX with auto. trans. & Go Package: 360 4-B.. 3.15 (2.87 Opt.).  
 (3) 3.54 for Calif. cars (no option). 401 4-B.. 3.15 (2.87 & 3.54 Opt.)  
 All axle ratios available less or with "Twin-Grip" Differential (except 3.91 with "Twin-Grip" only).  
 Dealer Kit Axle Ratios; 3.73, 3.91 (& factory), 4.10 & 4.44 & 5.00.

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(\*)</sup>

Availability on Page 4	232 CID SIX 1-B. Carb.	258 CID SIX 1-B. Carb.	304 CID V-8 2-B. Carb.	360 CID V-8 2 & 4-B. Carb.	401 CID V-8 4-B. Carb.
<b>MODEL</b>					
<b>ENGINE—GENERAL</b>					
Type, no. cyls., valve arr.	In-Line 6 OHV			90° V-8 OHV	
Bore and stroke (nominal)	3.75 x 3.50	3.75 x 3.90	3.75 x 3.44	4.08 x 3.44	4.165 x 3.68
Piston displacement, cu. in.	232 (3802 cc)	258 (4229 cc)	304 (4983 cc)	360 (5900 cc)	401 (6572 cc)
Bore spacing (C to C)	4.38			4.75	
No. system (front to rear)	1-2-3-4-5-6			1-3-5-7	
Firing Order	1-5-3-6-2-4			1-8-4-3-6-5-7-2	
Cylinder Head Material	Cast Iron				
Cylinder Block Material	Cast Iron				
Cyl. Sleeve-Wet, dry, none	None				
Number of mtg. points	Two (On Block)				
Engine installation angle	Vertical				
One (On Transmission Case, Rear Extension)					
Taxable $\frac{Dio^2 \times No. Cyl.}{2.5}$ horsepower	33.75		45.00	53.27	55.51
Recommended fuel regular - premium	Regular, Low-Lead or No-Lead Fuels (min. 91 Research Octane Number) With No-Lead, use Regular at every 4th tank fill.				
Cylinder Head Volume (cc)	64.00 ± 1.5	64.00 ± 1.5	58.92 ± 1.5	57.92 ± 1.5	57.92 ± 1.5
Head Gasket Thickness (Compressed)	.024 ± .002	.024 ± .002	.028 ± .002	.044 ± .005	.044 ± .005
Head Gasket Volume (cc)	4.48	4.48	5.59	9.89	10.33
Deck Clearance (minimum) (above or below block)	.0550 ± .0095 Below (.0455 min)	.1075 ± .0095 Below (.0980 min)	.0120 ± .0085 Below (.0035 min)	.0120 ± .0085 Below (.0035 min)	.0020 ± .0085 Below (.0105)
Minimum Combustion Chamber Volume (cc)	91.83	101.34	85.23	99.32	Above (.0065) 110.43
<b>ENGINE—PISTONS</b>					
Material	Aluminum Alloy with Steel Insert				
Description and finish	"Autothermic", Flat Top with Top Cavity, Slipper Skirt, Tin Plate, Steel-Strut Inserts.				
Top Cavity Vol. (cc)	11.96 ± .50		17.18 ± .50	27.14 ± .50	40.00 ± .50
Weight (piston only) oz.	16.97		17.92	21.27	20.86
Clearance (limits)	Top land				
	Skirt	.0005 - .0013 (1)		.0010 - .0018 (1)	
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			

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

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.

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISSED (\*)

Availability on Page 4	232 & 258 CID SIXES	304, 360 & 401 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	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	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 (401; 2.94)
Diameter	.931	304 & 360; .931 (401; 1.00)
Type	Locked in rod, in piston, floating, etc.	Locked-In-Rod (Press Fit)
	Bush- ing	None
	In rod or piston 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 401; SAE 1042 Mos., Forged Steel
Weight (oz.)	232; 23.32 (258; 24.66)	304 & 360; 24.16 (401; 28.15)
Length (center to center)	232; 6.125 (258; 5.875)	304 & 360; 5.875 (401; 5.858)
Steel-Backed, Alloy Lining	Material & Type	304 & 360; Clevite F-77 or Federalloy H-24
	Removable	401; Clevite F-77
Bearing	Overall length	304 & 360; .832 (401; .800)
	Clearance (limits)	.001 - .002
	End play	.008 - .010
		.009 - .015 (Two Rods)



# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(\*)</sup>

<b>MODEL</b>	Availability on Page 4	232 & 258 CID SIXES	304, 360 & 401 CID V-8's		
<b>ENGINE - CRANKSHAFT</b>					
Material	Cast Nodular Iron (SAE 1046 Forged Steel in 401 V-8)				
Vibration damper type	Dynamic-Tuned, Rubber-Suspended, Inertia Member				
End thrust taken by bearing (No.)	#3				
Crankshaft end play	.0015 - .007		.003 - .008		
Steel-Backed, Alloy Lining	Material & type	SAE-15 Micro-Babbitt (Clevite or McQuay Norris)	304&360; Clevite F-500 or Federaloy H-35LT 401; Clevite F-77		
	Removable				
Main bearing	Clearance	.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 401)	
		No. 2	2.4986 - 2.5001 x .981	2.7474 - 2.7489 x .923 (x .9385 in 401)	
		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 401)	
		No. 5	2.4986 - 2.5001 x .981	2.7464 - 2.7479 x .923 (x .9385 in 401)	
		No. 6	2.4986 - 2.5001 x .981	- - -	
		No. 7	2.4986 - 2.5001 x .981	- - -	
Dir. & amt. cyl. offset	None				
No. bolts/main brg. cap	2	2 (with block provisions to modify for 4)			
Crankpin journal diameter	2.0934 - 2.0955	2.0934 - 2.0955 (2.2464 - 2.2485 in 401)			
<b>ENGINE - CAMSHAFT</b>					
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		

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (e)

Availability on Page 4		232 & 258 CID SIXES	304 CID V-8	360 CID V-8	401 CID V-8	ALL V-8's		
ENGINE - VALVE SYSTEM		Dealer Hi-Perf. Cam Kit						
Hydraulic lifters (Std., opt., NA)		Yes						
Valve rotator, type (intake, exhaust)		Yes, Free Valve Type						
Rocker ratio		1.6						
Operating tappet clearance (indicate hot or cold)	Intake	Zero Lash						
	Exhaust	Zero Lash						
Timing (based on top of ramp points)	Intake	Opens (BTC)	Regular	Calif.	Regular	Calif.	All Engines	After-Market
		Closes (-ABC)	12.12	12.12	14.75	14.74	25.57	38.38
		Duration (deg.)	64.80	64.80	68.75	68.75	90.75	73.07
	Exhaust	Opens (-BBC)	256.92	256.92	263.50	263.49	296.32	291.45
		Closes (-ATC)	53.12	53.12	56.75	56.77	80.80	62.38
		Duration (deg.)	23.80	52.00	26.75	56.75	42.75	49.07
	Valve open overlap (deg.)		256.92	285.12	263.50	293.52	303.55	291.45
Valve open overlap (deg.)		35.92	64.12	41.50	71.49	68.32	87.45	
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 (deg.)		Head 30°, Valve 29°						
Seat insert material		None						
Stem diameter		.3715 - .3725						
Stem to guide clearance		.0010 - .0030						
Intake	Lift (+ zero lash) (A)		.372	.425	.457	.477		
	Outer spring press. & length	Valve closed (lb. in.)	95 to 105 @1.812	80 to 88 @ 1.812	95 to 103 @1.812			
		Valve open (lb. in.)	188 to 202 @1.437	210 to 226 @ 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	
	Material		SAE 21-4N					
	Overall length		4.892	4.892	4.910	4.910		
Actual overall head dia.		1.406	1.406	1.680	1.680			
Angle of seat & face (deg.)		Head 45°, Valve 44°						
Seat insert material		None						
Stem diameter		.3718 - .3725	.3715 - .3725					
Stem to guide clearance		.0010 - .0027	.0010 - .0030					
Exhaust	Lift (+ zero lash) (A)		.372	.425	.457	.477		
	Outer spring press. & length	Valve closed (lb. in.)	95 to 105 @1.812	80 to 88 @ 1.812	95 to 103 @1.812			
		Valve open (lb. in.)	188 to 202 @1.437	210 to 226 @ 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	

(A) Valve Lift Shown = Cam Lift x Rocker Arm Ratio (1.6)

@1.329

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (\*)

Availability on Page 4	232 & 258 CID SIXES	304, 360 & 401 CID V-8's
------------------------	---------------------	--------------------------

## 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
Oil pump type		Gear
Normal oil pressure (lb. engine rpm)	13#min. @600rpm, 24min. @1100, 46min. @2050 & over (75#max. @all rpm)	
Oil press. sending unit (elect. or mech.)	Electric	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part., other)	Full-Flow, Standard	
Filter replacement (element, complete)	Complete	
Capacity of c/case, less filter-refill (qt.)	4 (5 with Filter)	
Oil grade recommended (SAE viscosity and temperature range)	<b>API Engine Oil Service Classification "SE"</b> Above 32°F. . . SAE 20W-20 (or SAE 10W-30 or 10W-40) Above 00°F. . . SAE 10W (or SAE 10W-30 or 10W-40) Below 00°F. . . SAE 10W (or SAE 5W-20 or 5W-30)	

Engine Service Reqmt. (MM, MS, etc.) "MS" or "SD"

## ENGINE - EXHAUST SYSTEM

	GREMLIN & HORNET		MATADOR & AMB.		JAVELIN	
	6	V-8	6	V-8	6	V-8
Type (single, single with cross-over, dual, other)	Single	Single w/Y-Pipe	Single	S. w/Y-Pipe or Dual (4B)	Single	S. w/Y-Pipe or Dual (4B)
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, Reverse Flow	One, Rev. Flo or Two	One, Reverse Flo	One, Rev. Flo or Two	One, Reverse Flow	One, Rev Flo or Two
Exhaust pipe dia. (O.D., wall thick.)	<del>1.88x.083</del> Front 1.88x.075 Rear	1.88x.083 2.25x.083	1.88x.083 1.88x.075	2.00x.083 2.25x.083	1.88x.083 1.88x.075	2.00x.083 2.25x.083
Tail pipe dia. (O.D. & wall thickness)	1.75x.048	2.00x.048	1.75x.048	2.00x.060	1.75x.060	2.00x.060

(1) (2) (3)

- (1) Matador-6 Wagon - - Tailpipe, 1.75x.060
- (2) Dual Exhausts Opt. With 360 4-B V-8 Front Exhaust Pipe, 2.25x.083  
Dual Exhausts Std. With 401 4-B V-8
- (3) Javelin; Dual Exhausts Opt. With 360 4-B V-8 Tailpipe, 2.00x.048  
Javelin; Dual Exhausts Std. With 401 4-B V-8

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISÉD (\*)

Availability on Page 4	232 & 258 CID SIXES	304, 360 & 401 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 gals.	Carburetor (Downdraft)	
Fuel Tank	Refill capacity (U.S. gals.)	Hornet & Jav. 16; Matador 19.5 (3-seat wag 20); Amb. 19.5		
	Filler location	(1)	Amb. Wag. 20	
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Locations	Right Side, Center	Left Side, Front	
	Pressure range	4 to 5.5 P. S. I.		
Vacuum booster (std., optional, none)		None (Electric Wipers Standard)		
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 (700 Calif.)	750 RPM	
	Automatic	550 RPM (600 Calif.)	650 RPM (700 for 360 & all Calif.)	
	Idle A/F mix.	14.3:1 ± .2	14.3:1 ± .2 (V-8 Man. Trans., 13.8:1)	

**CARBURETOR SUPPLEMENTARY INFORMATION**

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
232 CID SIX, 1-B. HORNET & GREMLIN	232	Manual	Carter YF	6199 (D. Pt)	1, 1-BBL.	1.69
		Automatic	Carter YF	6202	1, 1-BBL.	1.69
232 CID SIX, 1-B. JAVELIN & MATADOR	232	Manual	Carter YF	6199 (D. Pt)	1, 1-BBL.	1.69
		Automatic	Carter YF	6200	1, 1-BBL.	1.69
258 CID SIX, 1-B. ALL MODELS	258	Manual	Carter YF	6199 (D. Pt)	1, 1-BBL.	1.69
		Automatic	Carter YF	6200	1, 1-BBL.	1.69
304 CID V-8, 2-B. ALL MODELS	304	Manual	AM(FAL)2100D	2DM2 (D. Pt)	1, 2-BBL.	1.56
		Automatic	AM(FAL)2100D	2DA2 (D. Pt)	1, 2-BBL.	1.56
360 CID V-8, 2-B. HORNET, JAV., MAT., & AMB.	360	Automatic	AM(FAL)2100D	2RA2 (Sol.)	1, 2-BBL.	1.56
360 CID V-8, 4-B. JAVELIN, MAT. & AMB.	360	Manual	AM(FAL)4300	2TM4 (D. Pt)	1, 4-BBL.	1.56 pri.
		Automatic	AM(FAL)4300	2RA4 (Sol.)	1, 4-BBL.	1.69 sec.
401 CID V-8, 4-B. JAVELIN, MAT. & AMB.	401	Manual	AM(FAL)4300	2TM4 (D. Pt)	1, 4-BBL.	1.56 pri.
		Automatic	AM(FAL)4300	2TA4 (D. Pt)	1, 4-BBL.	1.69 sec.

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



# AMA Specifications Form—Passenger Car

<b>MAKE OF CAR</b> American Motors	<b>MODEL YEAR</b> 1972	<b>DATE ISSUED</b> 9-21-71 <b>REVISED</b> (*)
<b>Availability on Page 4</b>	232 & 258 CID SIXES	304, 360 & 401 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 & 401;13)	
	Without heater (qt.)	9.5	304;13 (360 & 401;12)	
	Opt. equipment-specify (qt.)	Same		
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower	Number and type (molded, straight)	One, Molded, Curved	
		Inside diameter	1.50 Body & Rad. End 1.78 Water Pump End	1.50 Body & Rad. End 1.70 Water Pump End
	Upper	Number and type (molded, straight)	One, Molded, Curved	
		Inside diameter	1.50 Body & Rad. End 1.75 Thermostat	1.50 Both Ends
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	.75	
	Fan	Number of blades & spacing	4 Std. (5AC & 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		
* Drive belts (indicate belt used by letter)	Fan	A	F	
	<del>526761625</del> alternator	A	F	
	Water Pump	A	F	
	Power Steering	B	G	
	Air Conditioning with PS	C & D	F & H	
" " " " less PS	D & E	F & I		

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

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (\*)

Availability on Page 4	ALL 6's & V-8's WITH AUTO. TRANS.	V-8's EQUIPPED WITH MANUAL TRANSMISSION
---------------------------	--------------------------------------	--

**VEHICLE EMISSION CONTROL**

Exhaust Emission Control	Type (Air injection, engine modifications, other)		"Engine-Mod" System	Air Injection ("Air-Guard")	
	Air Injection Pump	Type	- - -	Eccentric Vane (Saginaw Gear)	
		Displacement	- - -	19.3 cu. in./rev.	
		Drive ratio	- - -	1.25:1	
		Drive type	- - -	Belt	
		Relief valve (type)	- - -	Integral	
	Air Injection System	Filter (describe)	- - -	Centrifugal Separator	
		Air distribution (head, manifold, etc.)	- - -	Separate Header Manifold	
		Point of entry	- - -	Thru Exhaust Port	
		Injection tube i.d.	- - -	.285	
Check valve type		- - -	Spring-Loaded Plunger & Asbestos Seat		
Backfire protection (type)	- - -	Diverter Type (Rochester)			
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Closed Induction System		
	Control Unit	Standard	"Stanadyne" or "Novo"		
		Optional	- - -		
		Make and model	6=Valve Cover; V-8=Intake Manifold		
		Location	Manifold Vacuum		
	Complete system	Energy source (manifold vacuum, carburetor, other)	Variable Orifice		
		Control method (variable orifice, fixed orifice, other)	Intake Manifold (Carb. Base or Carb. Spacer Plate)		
		Discharges (to intake manifold, other)	Carb. Air Cleaner - Dirty Side		
		Air inlet (breather cap, other)	No Specific Part (System Arrests Flame)		
	Evaporative Emission Control	Fuel Tank	Flame arrestor (screen, other)	Gremlin 21, Hornet & Javelin 16. AMB. 19.5 (Wagon 20), Matador 19.5 (3-Seat Wagon 20).	
Refill Capacity (U.S. gallons)			2 Gallons, Min. (.321 Cu. Ft.)		
Thermal expansion volume (cu. ft.)			Filler Cap, 1/2 to 1 PSI		
Pressure relief location (lbs.)			Filler Cap, 1/4 to 1/2 PSI		
Vacuum relief location (lbs.)			Float (none for Gremlin)		
Vapor Storage		Vapor-liquid separator type	V-8 Manual Trans. & All 6's: Crankcase		
		Vapor vented to (crankcase, canister, other)	V-8 Automatic Transmission: Charcoal Canister		
		Carburetor	Vapor vented to (crankcase, canister, other)	No External Carburetor Venting	
				- - -	
Vapor Storage	Storage provision (crankcase, canister, other)	V-8 Manual Trans. & All 6's: Crankcase			
	Volume (cu. ft.) or capacity (grams)	V-8 Automatic Transmission: Charcoal Canister			
	Control valve type	650 Grams Charcoal (V-8 Auto. Trans.)			
		Fixed Orifice; .040" Dia.			

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISION (\*)

Availability on Page 4	232 & 258 CID SIXES & 304 CID V-8	360 & 401 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		
	Terminal grounded	Negative		
Generator or Alternator	Make	Motorola		
	Model	8AL2025F (2)	8AL2026F (2)	
	Type and rating	Alternator with Silicon Diodes & Isolation Diode (37 & 55 Amp.)		
	Output at engine idle (neutral)	N. A.		
Regulator	Ratio-Gen. to Cr's rev.	2.41:1		
	Make	Motorola		
	Model	8RB2005		
	Type	Solid State		
	Cutout relay	Closing voltage @ generator rpm	- - -	
		Reverse current to open	- - -	
	Regulated	Voltage	13.8 to 14.2 Volts @ 80°F (Ambient Temp.)	
		Current	- - -	
	Voltage test conditions	Temperature	80°F	
		Load	10 AMPS @ 3000 RPM (Alternator Speed)	
Other		- - -		

### ELECTRICAL – STARTING SYSTEM

			232 & 258 CID SIXES	304, 360 & 401 CID V-8's	
Starting Motor	Make	FOMOCO			
	Model	DOFF-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, 12V, 66 Plates, 70 A.H. @ 20 Hrs. All Batteries are identified: American Motors "Clear-Power".
- (2) 55 Amp. Alternator included With Air Conditioning or Rear Window Defogger: 6-Cylinder = 8AL2015K, V-8 = 8AL2016K

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(\*)</sup>

MODEL	Availability on Page 4	232 & 258 CID SIXES	304 & 360 CID V-8's	401 CID V-8
-------	------------------------	---------------------	---------------------	-------------

**ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR**

Breaker gap (in.)			.016	
Cam angle (deg.)	31 to 34		29 to 31	
Brkr. arm tension (oz.)	17 to 21			
Distributor	Manual	1110497	1112111	1112112
	Automatic	(same as above)		
Timing	Manual	232 = 5° BTDC 258 = 3° BTDC	5° BTDC	
	Automatic	232 = 5° BTDC 258 = 3° BTDC	5° BTDC	

Distributor Model Delco Remy	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1110497	0° @ 980 to 1220 RPM	13° to 17° @ 2000 RPM	26° to 30° @ 4400 RPM	0° @ 5" to 7"	12.5° to 17.5° @ 10" to 11" (to 17")
1112111	0° @ 860 to 1140 RPM	18° to 22° @ 2400 RPM	28° to 32° @ 4400 RPM	0° @ 5" to 7"	13.5° to 16.5° - 18° @ 11.2" to 12.7" (to 16")
1112112	0° @ 770 to 1000 RPM	15° to 19° @ 2000 RPM	24° to 28° @ 4000 RPM	0° @ 5" to 7"	13.5° to 16.5° - 18° @ 11.2" to 12.7" (to 16")



## AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(a)</sup>

MODEL	Availability on Page 4	232 & 258 CID SIXES	304, 360 & 401 CID V-8's
-------	---------------------------	------------------------	-----------------------------

## ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.	Standard (Dealer Kit)	
	Transistorized – Std., Opt., N.A.	N.A.	"Delcotronic" Capacitor Discharge
	Other (specify)	N.A.	"Mallory" High-Perf. (Dealer Kit)
Coil	Make	Delco-Remy or Prestolite	
	Model	DR:1115294 (PL:201691)	DR:1115266 (PL:201632)
	Amps	Engine stopped	3.5
	Engine idling	1.6	
Spark Plug	Make	Champion	
	Model	N-12Y	
	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
------------------	----------------------------

## ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	King-Seeley (Stewart-Warner for Hornet & Gremlin)	
	Trip odometer (std. opt., N.A.)	N.A.	
Charge indicator – type	Warning Light	Warning Light (Ammeter Gauge Opt. Jav. V-8)	
Temperature indicator – type	Electrical Gauge		
Oil pressure indicator – type	Warning Light	Warning Light (Pressure Gauge Opt. Jav. V-8)	
Fuel indicator – type	Electrical Gauge		
Wind-shield wiper	Type – Standard	Electric, 2-Speed	
	Type – Optional	Electric, Variable-Speed, Hornet & Gremlin (3-Speed Jav., Mat. & Amb.)	
Wind-shield washer	Type – Standard	Electric Powered Pump (Panel Switch)	
	Type – Optional	(none)	
Horn	Type	Vibrator	
	Number used	2 (1 for Hornets & Gremlins, 2nd. Horn Optional)	
	Amp draw (each)	8.5	
Other	Dual Hydraulic Brake System Warning Light & Parking Brake Warning Light combined		

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(\*)</sup>

Availability on Page 4	232 CID SIX Hornet Gremlin Javelin Matador	258 CID SIX Hornet Gremlin Matador	258 CID SIX Ambassador Fleet (plus Fleet & Export for 232 & 258 in other models)	304 CID V8 Javelin Hornet Gremlin	360 & 401 Javelin
<b>DRIVE UNITS - CLUTCH (Manual Transmission)</b>					
Make & type	Dana #100859	Dana #100859	Borg & Beck #106-10001	Borg & Beck #SK-40641	Borg & Beck #1828
Type pressure plate springs	3 Coils	3 Coils	9 Coils	9 Coils	12 Coils & 6 Rollers
Total spring load (lb.)	1500-1600	1500-1600	1644 Nom.	2028 Nom.	2386 Nom. (2212-2560)
No. of clutch driven discs	Dana 100900-1	Dana X100900-2	B&B 102-10002	B&BSK-40642	B&BX102-10217
Material	Woven Asbestos				
Clutch facing	Outside & inside dia.	6.00 x 9.25	6.00 x 9.25	6.75 x 10.00	6.50 x 11.00
	Total eff. area (sq.in.)	77.96	77.96	85.52	90.72
	Thickness	.125 F & R	.125 F & R	.125 F, .135 R	.125 F & R
Engagement cushioning method	Flat Spring Steel Between Facings				
Release bearing	Type & method of lubrication Ball Bearing, Permanently Lubricated				
Torsional damping	Methods: springs, friction material Coil Springs				

<b>DRIVE UNITS - TRANSMISSIONS</b>		232 & 258 CID SIXES	304, 360 & 401 CID V-8's
Manual 3-speed (std., opt. N.A.)		Standard	Std. for 304 V-8 (Gremlin, Hornet, Javelin)
Manual 4-speed (std., opt. N.A.)		N.A.	Opt. for 360-4B & 401 (Javelin)
Automatic (std., opt. N.A.)		Optional	Opt. (Std for Ambassador)

<b>DRIVE UNITS - MANUAL TRANS.</b>		232 SIX (Hornet & Gremlin)	304 V-8 232 & 258 SIX (Hornet, Gremlin, Javelin & Matador)	360 V-8 4-B. 401 V-8 4-B. (Javelin)
Warner-Gear Mfg. Co.		T-96J	T-14	T-10
Number of forward speeds		3	3	4
Transmission ratios	In first	2.605	2.636	2.23
	In second	1.630	1.605	1.77
	In third	1.000	1.000	1.35
	In fourth	- - -	- - -	1.00
	In reverse	3.536	2.636	2.16
Synchronous meshing, specify gears		2 & 3	1, 2 & 3	1, 2, 3 & 4
Shift lever location		Column (or Floor in Gremlin)	Floor (Column in Matador)	Floor
Capacity (pt.)		1.5	2.5	2.5
Lubricant	Type recommended	Mineral Gear Lubricant		
	SAE viscosity number	80		
	Summer	80		
	Winter	80		
Extreme cold		80		

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISSED <sup>(\*)</sup>

Availability MODEL on Page 4	232 & 258 CID SIXES	304, 360 & 401 CID V-8's
---------------------------------	------------------------	-----------------------------

**DRIVE UNITS – AUTOMATIC TRANSMISSION**

Trade name	"Torque-Command"			
Type describe	Torque Converter with Automatically-Operated Planetary-Gear Transmission (Chrysler)			
Selector location	Column	Column (or Console for Javelin V-8's)		
	Operation	6&V-8 Column	V-8 Console	6 & V-8 Gear Ratios
List gear ratios Selector Pattern and indicate which are used in each selector position	Park	P	PRK	---
	Reverse	R	REV	2.20:1
	Neutral	N	NTL	---
	1, 2&3 Gears	D	DRV	2.45:1, 1.45:1, 1.00:1
	1 & 2 Gears	2	2ND	2.45:1, 1.45:1
1 Gear	1	1ST	2.45:1	
Max. upshift speed—drive range	about 75 mph			
Max. kickdown speed—drive range	about 65 mph			
	Three			
Torque converter	Number of elements	2.10:1		2.00:1
	Max. ratio at stall	Air & Water		Air & Water (Auxiliary Cooler, Opt.)
	Type of cooling (air, liquid)	10.75"		304 = 10.75" .360 & 401=11.75"
Lubricant	Nominal diameter	17 pts.		304= 17 pts. 360 & 401=19 pts.
	Capacity—refill (pt.)	"DEXRON" Automatic Transmission Fluid		
Type recommended	Part-Throttle "Kick-Down" (3 to 2)			
Special transmission features				

**DRIVE UNITS – PROPELLER SHAFT**

		HORNET		GREMLIN		MAT. & AMB.	JAVELIN		
		SIX	V-8	SIX	V-8	SIX & V-8	SIX	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	51.220 2.500 .083	40.720 2.500 .065	39.190 2.500 .065	58.900 3.000 .065	SIX	52.500 2.500 .065	52.500 2.500 .065
	Manual 4-speed trans.	---	---	---	---	---		---	51.220 2.500 .083
	Overdrive transmission	---	---	---	---	---		---	---
	Automatic transmission	50.650 2.500 .065	49.500 2.500 (1).065	38.650 2.500 .065	37.470 2.500 .065	57.310 2.500 (2).065	SIX	50.650 2.500 .065	50.900 2.500 (3).065

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

- (1) Figures shown are for 304 V-8. For 360 V-8, 45.210 x 2.500 x .065
- (2) Figures shown are for Six Cyl. For 304 V-8, 58.900 x 3.000 x .065  
For 360 & 401 V-8, 54.570 x 3.250 x .065
- (3) Figures shown are for 304 V-8. For 360 & 401 V-8, 46.680 x 2.500 x .083

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (\*)

MODEL GREMLIN, HORNET & JAVELIN MATADOR & AMBASSADOR

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

Inter-mediate 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	401 4-8 16 Auto. (28 4-Speed)
	Spline O.D.	1.170 #1280	1.207 #1280	1.375 Auto. Trans. 1.207 4-Speed Trans. #1310 Auto. & 4-Speed
Universal joints	Make and Mfg. No.	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 (+Rear Torque Links on Gremlin V-8)	4-Link Trailing Arms	
Torque taken through (torque tube or arms, springs)		Rear Springs (+Rear Torque Links on Gremlin V-8)	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) (1)					
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 (2)			
	SAE viscosity number	Summer	80		
		Winter	80		
	Extreme cold	80			

**AXLE RATIO TOOTH COMBINATIONS**

(See page 4 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	3.58		3.91	3.73	4.10	4.44
No. of Pinion	19	15	15	13	13	13	11	12	11	11	10	9	9
teeth Ring gear	45	41	43	40	41	43	39	43	43	41	41	40	45
Ring Gear O.D.	7.56	7.55	8.88	7.55	8.88	7.63	8.88	7.54	8.92	8.91	8.91	8.91	8.90

- (1) Positive-Locking Type available as Dealer Kit ("Detroit Locker" by Det. Auto. Products).
- (2) Special lube for opt. "Twin-Grip" differential (API, GL-5 Quality).



MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(\*)</sup>

MODEL	GREMLIN		HORNET		MATADOR		AMBASSADOR			JAVELIN		
	SIX	V-8	SIX	V-8	SIX & V-8	SIX & V-8	304 & 401 V-8	V-8	Wagon	SST	SST	AMX
<b>DRIVE UNITS — TIRES AND WHEELS (STANDARD)</b>												
Size, load range, ply load range B												
Type (bias, radial, etc.)												
Normal max. load inflation pressure (cold)												
Rev./mile @ 45 mph												
Wheel type & material												
Rim (size & flange type)												
Attachment												
Spare wheel (same or other)												

<b>DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)</b>												
with "Space-Saver" spare. "Space-Saver" spare std. on Hornet Wagon, AMX, Gremlin X & Hornet X.												
(1) (3) (4) (7)												
Size, load range, ply load range B												
Type (bias, radial, etc.)												
Normal max. load inflation pressure (cold)												
Rev./mile @ 45 mph												
Wheel type & material												
Rim (size & flange type)												

<b>DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)</b>												
(3) H'top V-8												
Size, load range, ply load range B												
Type (bias, radial, etc.)												
Normal max. load inflation pressure (cold)												
Rev./mile @ 45 mph												
Wheel type & material												
Rim (size & flange type)												

<b>DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)</b>												
(2) (2)												
Size, load range, ply load range B												
Type (bias, radial, etc.)												
Normal max. load inflation pressure (cold)												
Rev./mile @ 45 mph												
Wheel type & material												
Rim (size & flange type)												

<b>BRAKES — PARKING</b>	
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) Included with Air Conditioning. (5) E78 & F78 are Non-Belted for Matador & Ambassador.  
 (2) Included with Gremlin X. (6) 5" Rim with Optional Disc Brakes.  
 (3) C78x14 included with Hornet X. (7) Also included in AMX "Go" Package.  
 (4) Load Range D

# AMA Specifications Form—Passenger Car

MAKE OF CAR		AMERICAN MOTORS		MODEL YEAR	1972	DATE ISSUED	9-21-71	REVISED (*)	Optional Front Disc Brakes				
MODEL		Gremlin 6 Hornet 6 Javelin 6		Hornet V8 Javelin V8 Matador Sed & HT 6 Mat Sed & HT 304 V8 Gremlin V8		Mat Sed & HT 360 & 401 V8 Amb Sed & HT All V8's		Matador Wagon 6 & V8 Ambassador Wagon V8		Hornet 6 & V8 Javelin 6 & V8 Gremlin 6 & V8		Matador 6 & V8 Ambassador V8	
BRAKES - SERVICE		Type (drum) or (disc & no. of pistons)		Drum, Front & Rear		Drum, Front & Rear		Drum, Front & Rear		Disc (Drum Rear)		Power Assist (also Manual on Mat. 6 Sed. & HT, less 7C) Disc (Drum Rear)	
Self adjusting (std., opt., N.A.)		Standard		Standard		Standard		Standard		Standard		Standard	
Special Valving		Type (proportion, delay, metering, other)		None		None		None		Proportion Valve		Proportion Valve	
Power brake make & type (remote, int., etc.)		Std. Bendix Opt. Bendix		Optional 1-Diaphragm, 7.75 D.		Optional 1-Diaphragm, 7.75 D.		Standard on Ambassador 1-Diaphragm, 9.50 D.		Standard on Ambassador 1-Diaphragm, 9.50 D.		1-Diaph., 7.75 D. Gr. & Hor. 2-Diaph., 7.75 D. Javelin	
Effective area (sq. in.) *		151.49		167.54		167.54		196.55		108.89 (41.20 F, 67.69 R)		137.90 (41.20 F, 96.70 R)	
Gross lining area (sq. in.) **		N.A.		N.A.		N.A.		N.A.		N.A.		N.A.	
Swept area (sq. in.) ***		254.47		267.04		267.04		314.16		328.20 (218.24 F, 109.96 R)		375.32 (216.24 F, 157.08 R)	
Effectiveness		Front Rear		64.6% (57.3 Matador) 35.4% (42.7 Matador)		61.6% 38.4%		57.3% (61.6% V8) 42.7% (38.4% V8)		60% Variable 40% Variable		60% Variable 40% Variable	
Drum		Diameter (nominal)		Front Rear		9.00 10.00		10.00 10.00		10.00 10.00		10.97 10.00	
Rotor		Type and material		Cast Iron Plain Drum, Steel Center		Cast Iron Drum, Steel Flare & Center		Cast Iron Ribbed Drum, Steel Flare & Center		Cast Iron Ribbed Drum, Steel Flare & Center		Cast Iron Ribbed Drum, Steel Flare & Center	
Outer working diameter		---		---		---		---		10.91 (min.)		10.91 (min.)	
Inner working diameter		---		---		---		---		7.04 (max.)		7.04 (max.)	
Thickness		---		---		---		---		1.00		1.00	
Material & type (vented/solid)		---		---		---		---		Cast Iron, Vented		Cast Iron, Vented	
Wheel cyl. under bore		Front Rear		1.13 .88 (.81 Gremlin)		1.19 (1.09 Matador-6) .88 (.94 Matador)		1.19 .94		1.09 (1.19 V8) .94		2.75 .88 (.81 Gremlin-6) .94	
Master Cylinder		Bore Stroke		1.00 1.102		1.00 1.102		1.00 1.102		1.063 Manual, 1.000 Power 1.185 Manual, 1.316 Power		1.063 Manual, 1.125 Power 1.185 Manual, 1.226 Power	
Pedal arc ratio		6.48 Man., 3.18 Power		6.48 Man., 3.18 Power		6.48 Manual, 3.18 Power		6.48 Manual, 3.18 Power		6.48 Manual, 3.18 Power		6.48 Manual, 3.18 Power	
Line pressure at 100 lb. pedal load		730 Man., 800 Power		730 Manual, 800 Power		730 Manual, 980 Power		730 Manual, 980 Power		(1)		640 Manual, 1040 Power	
Shoe Clearance		Front Rear		.004 to .010 @ High Point on Horizontal Axis		.004 to .010 @ High Point on Horizontal Axis		.004 to .010 @ High Point on Horizontal Axis		0, Static Condition		0, Static Condition	
Anti-skid device type (std., opt., N.A.)		Not Offered		Not Offered		Not Offered		Not Offered		Not Offered		Not Offered	
Bonded or riveted		Riveted		Riveted		Riveted		Riveted		Riveted		Riveted	
Material		Molded Asbestos		Molded Asbestos		Molded Asbestos		Molded Asbestos		Molded Asbestos Puck		Molded Asbestos Puck	
Size (length x width x thickness)		7.66 x 2.25 x .19		8.91 x 2.50 x .19		8.91 x 2.50 x .19		8.91 x 2.50 x .19		6.02 x 1.80 x .40		6.02 x 1.80 x .40	
Segments per shoe		One		One		One		One		One Ea. Side of Disc		One Ea. Side of Disc	
Material		Molded Asbestos		Molded Asbestos		Molded Asbestos		Molded Asbestos		Molded Asbestos Puck		Molded Asbestos Puck	
Size (length x width x thickness)		7.66 x 2.00 x .19		8.46 x 1.75 x .19		8.46 x 1.75 x .19		8.46 x 2.50 x .19		8.46 x 1.75 x .19 (V8)		8.46 x 2.50 x .19 Wagon	
Segments per shoe		One		One		One		One		7.66 x 2.00 x .19 (6)		8.46 x 1.75 x .19 S & HT	

\* 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) Hornet & Gremlin . . . 640 Manual, 800 Power  
 Javelin. . . 640 Manual, 1240 Power

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (e)

MODEL	GREMLIN	HORNET	MATADOR	AMBASSADOR	JAVELIN
-------	---------	--------	---------	------------	---------

**STEERING**

Manual (std., opt., NA)		Standard					
Power (std., opt., NA)		Optional					
Adjustable steering wheel (tilt, swing, other)	Type and description	7-Position, Vertical-Arc Adjustment for Steering Column ("Adjust-O-Tilt")					
	(std., opt., NA)	Opt. (N. A. with column-shift 3-speed)					
Wheel diameter	Manual	(1)	16" x 15.5"(2)	16" (Optional Sports 15", Std. AMX)			
	Power	(1)	16" x 15.5"(2)	16" (Optional Sports 15", Std. AMX)			
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	34'8"	38'	41'	42'5"	38'3"
		Curb to curb (l. & r.)	32'8"	36'	39'	40'5"	36'3"
	Inside rear	Wall to wall (l. & r.)	- - -	19'11"	21'2"	22'4"	20'4"
		Curb to curb (l. & r.)	- - -	20'4"	22'	23'2"	20'7"
Manual	Gear	Type	Recirculating Ball				
		Make	Saginaw				
	Ratios	Gear	24.0:1 (3)	24.0:1(3)	24.0:1	20.0:1 (4)	
		Overall	29.1:1 (3)	29.1:1(3)	29.1:1	24.1:1 (4)	
No. wheel turns (stop to stop)		6.0 (3)	6.0 (3)	6.0	5.1 (4)		
Power	Type (coaxial, linkage, etc.)		Integral Rotary Valve with Variable-Ratio Gear Box				
	Make		Saginaw				
	Gear	Type	Recirculating Ball				
		Ratios	16.0:1 to 12.0:1				
	Overall	Gear	19.4:1 to 15.7:1				
		Pump driven by		Belt to Crankshaft Pulley			
No. wheel turns (stop to stop)		3.3					
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 or 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.)		+1/2° to +1-1/2° (+1° Desired)				
	Camber (deg.)		Left: +1/8° to +5/8° (+3/8° Desired). Right: 0° to +1/2° (+1/8° 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) Standard 15.75" x 15.25". Optional Custom 16" x 15.5". Optional Sports 15".

(2) Optional Sports 15".

(3) Optional Quick-Ratio Manual Steering for Hornet & Gremlin . . . . . Gear Box . . . . . 20.0:1  
 Overall . . . . . 24.1:1  
 Turns . . . . . 5.1

(4) Optional Quick-Ratio Manual Steering for Javelin . . . . . Gear Box . . . . . 16.0:1  
 Overall . . . . . 19.4:1  
 Turns . . . . . 4.0

# AMA Specifications—Passenger Car

MAKE OF CAR AMERICAN MOTORS MODEL YEAR 1977 DATE ISSUED 9-21-71 REVISED (a)

MODEL		HORNET						JAVELIN						MATADOR						AMBASSADOR						GREMLIN					
<b>SUSPENSION - GENERAL</b>																															
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																													
	Make	Gabriel																													
	Piston dia.	1.00 (1.19 Heavy Duty)																													
Other special features		---												Adjustable Air-Shock Rear Suspension, Optional (Special Shock Absorbers by "Dalco")												Rear Axle Torque Links for V-8					
<b>SUSPENSION - FRONT</b>		HORNET 6 & V-8						JAVELIN 6 & V-8						MATADOR HARDTOP 6 & V-8			MATADOR SEDAN 6 & V-8			MATADOR WAGON 6 & V-8			AMBASSADOR SEDAN & HARDTOP V-8			AMBASSADOR WAGON V-8			GREMLIN 6 & V-8		
Type and description		INDEPENDENT, TWIN BALL JOINT, COIL SPRINGS																													
Spring Left & Right Average	Type	Coil																													
	Material	SAE 5160 or 9260																													
	Size (coil design height & I.D., bar length x dia.)	9.75 x 5.05																													
Spring rate (lb. per in.)	STX	218	232	276	218	232	268	233	240	282	240	257	304	233	240	295	--	--	--	--	--	--	--	211	225	276					
Rate at wheel (lb. per in.)	STY	97	103	119	97	103	116	102	105	122	105	111	129	102	105	126	--	--	--	--	--	--	94	100	119						
Spring Rate (lb./in.)	V-8	248*	265	314	248	248*	294	220	220*	314	235	235*	335	220*	235	335	235*	250	335	228*	243	335	248	248	314						
Rate @ WH (lb./in.)	V-8	108*	115	133	108	108*	125	98	98*	133	104	104*	141	98*	104	141	104*	109	141	101*	106	141	108	108	133						
Stabilizer	Type (link, linkless, frameless)	Link Sway Bar																													
	Material & bar diameter	Standard for V-8, Separate Option for 6, & in Opt. Handling Pkg																													
<b>SUSPENSION - REAR</b>		HORNET SEDANS						JAVELIN WAGON 6 & V8						MATADOR SEDAN AMB. SEDAN & HT			MATADOR HARDTOP			AMBASSADOR & MATADOR WAGON			GREMLIN								
Type and description		Hotchkiss Rear Spring												4-Link with Coil Springs 4-Link Trailing Arms												Hotchkiss					
Drive and torque taken through		Leaf												Coil												Leaf					
Spring	Type	Leaf																													
	Material	SAE 5155																													
	Size (length x width, coil design height & I.D., bar length & dia.)	52 x 2.5												53 x 2.5			10.5 x 5.25			9.75 x 5.25			10 x 5.25			46.0 x 2.5					
Spring rate (lb. per in.)	ST 6	ST 8	HD 6	HD 8	STD	HD	ST 6	ST 8	HD 6	HD 8	STD	HD	STD	HD	STD	HD	STD	HD	STD	HD	STD	HD	STD	HD	STD	HD					
Rate at wheel (lb. per in.)	100	105	115	120	106	128	104	104	126	125	106	125	106	125	106	125	115	135	115	135	--	--	160	200	95	110					
Mounting insulation type	Rubber Bushing, "Silentbloc" Front, GP Rear												Rubber, "Silentbloc"												Same as Hornet						
Stabilizer	No. of leaves	3												---												3					
	Check (comp. or tens.)	Compression												---												Compression					
Type (link, linkless, frameless)	None																														
	Material & bar diameter	None																													
Track bar type		None																													

"HANDLING PACKAGE" OPTIONS: Gremlin-6, Hornet-6 & Javelin-6: Heavy-Duty Springs & Shocks Front Sway Bar (also separate option)

Hornet V-8 & Javelin V-8: Heavy-Duty Springs & Shocks

Matador & Ambassador: Heavy-Duty Springs & Shocks Rear Sway Bar (also separate option) Note: Adjustable Air-Shock Rear Suspension, Optional



# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(\*)</sup>

	GREMLIN	HORNET	MATADOR & AMBASSADOR	JAVELIN
MODEL	2-Dr. Sed	2-Dr. Sed	4-Dr. Sed Wagon	Sedan Wagon Hardtop Hardtop

FRAME	Type and description (Separate frame, unitized frame, partially - unitized frame)	Unitized Body-&-Frame. Outer Front Fenders Bolted On. One-Piece Uniside, Inner & Outer (Matador & Ambassador Wagon). "Guard-Rail" Inner Door Structure for Javelin only.
-------	---	--

**BODY - MISCELLANEOUS INFORMATION**

Drs. hinged (front, rr.)	Front doors	Rear doors	Front	Front				
Type of finish (lacquer, enamel, other)	Acrylic Enamel							
Hood counterbalanced (yes, no)	Yes							
Hood release control (internal, external)	External (Internal Std. on Ambassador, Opt. on other models)							
Vehicle Ident. 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, Steering Wheel, & Trans. (Less Trans. Lock if floor shift). Warning Buzzer Std.							
Vent window control method (crank, friction pivot)	Front	None		Friction Pivot		None		
	Rear	None		Friction Pivot		None		
Seat cushion type	Front	Formed Wire		Coil (Formed Wire, Buckets)		Form. Wire		
	Rear	Formed Wire		Coil		Form. Wire		
	3rd seat	Solid Polyurethane Foam for Matador & Amb. 3-Seat Wagon						
Seat back type	Front	Formed Wire		Coil (Formed Wire, Buckets)		Form. Wire		
	Rear	Formed Wire		Coil		Form. Wire		
	3rd seat	Solid Polyurethane Foam for Matador & Amb. 3-Seat Wagon						
Windshield glass type (i.e., single curved - laminated plate)	Single, Curved Laminated Safety Plate							
Side glass type (i.e., curved - tempered plate)	Curved, Tempered Safety Glass							
Backlight glass type (i.e., compound curved - tempered plate, three piece)	One-Piece Curved, Tempered Safety Plate on all Sedans & Hardtops. Curved, Tempered Safety Glass on Wagons.							
Windshield glass exposed surface area	1214	1214	1214	1214	1313	1313	1313	1235
Side glass exposed surface area	1186	1354	1326	1894	1416	2496	1332	1258
Backlight glass exposed surface area	889	797	797	913	1006	776	1215	1001
Total glass exposed surface area	3289	3365	3337	4021	3735	4585	3860	3494

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED <sup>(\*)</sup>

<b>MODEL</b>	HORNET & GREMLIN	MATADOR & AMBASSADOR	JAVELIN
--------------	------------------	----------------------	---------

**CONVENIENCE EQUIPMENT**

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

Power windows	Side windows	N. A.	Opt. SST & Brougham	N. A.
	Vent windows	N. A.		
	Backlight 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)	(1)	Optional	N. A.	
Front seat head restrainer (R/L or both)	Standard			
Radios (specify type as well as availability) Opt. All-Transistor	Push-Button AM or AM/FM Monoral	Push-Button AM or AM/FM Stereo Multi-Plex	Push-Button AM or AM/FM Stereo Multi-Plex. Manual AM w/ Tape Player	
Rear seat speaker	N. A.	Optional Sedan & Hardtop (2)	Optional (3)	
Power antenna	N. A. (Manual Antenna on Right Front Fender)			
Clock	Opt. on Hornet	Optional	Opt. (Std. AMX)	
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 (4)		Ceiling Type	
Glove compartment lamp	Optional	Opt. (Std. Brougham)	Optional	
Luggage compartment lamp	Opt. on Hornet	Opt. (Std. Brougham)	Optional	
Underhood lamp	N. A.			
Courtesy lamp	Optional	Opt. (Std. Brougham)	Optional	
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			
Headlight-Off Delay System	N. A.	Optional	Optional	
Tachometer	N. A.	N. A.	Optional V-8	
Trunk Lid Rack	Opt. Hornet	N. A.	Opt. (N. A. AMX)	
Wagon Roof Rack	Opt. (Std. D/L)	Std. Amb., Opt. Mat.	N. A.	
Rear Window Electric Defogger	N. A.	Opt. (N. A. Wagon)	Optional	

**LAMP HEIGHT AND SPACING**

		HORNET		GREMLIN	MATADOR		AMBASSADOR		JAVELIN		
		2 & 4Dr. Sed	4Dr. Wag	2Dr. Sed	Sedan	Hardtop Wagon	Sed & Ht	Wagon	Hardtop		
Height above ground to center of bulb or marker	Headlamp (H125)	Highest	25.74	26.13	25.20	26.29	25.41	26.34	27.19	27.68	25.42
		Lowest	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	Tail (H126)	Highest	23.53	24.75	23.62	23.33	22.45	30.55	23.24	30.43	26.10
		Lowest	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Sidemarkers	Front	24.52	24.52	23.92	24.04	23.18	24.04	27.22	27.22	24.76	
	Rear	24.67	24.82	23.60	20.36	19.67	30.55	20.54	30.43	22.78	
Distance from C/L of car to center of bulb	Headlamp	Inside	- - -	- - -	- - -	23.06	23.06	23.06	23.50	23.50	- - -
		Outside *	24.70	24.70	24.70	29.70	29.70	29.70	30.08	30.08	26.87
	Tail	Inside	- - -	- - -	- - -	16.66	16.66	- - -	16.66	- - -	12.50
		Outside	26.80	26.80	24.00	28.34	28.34	34.24	28.34	34.24	20.92
	Directional	Front	17.15	17.15	15.00	26.65	26.65	26.65	34.52	34.52	24.22*
		Rear	26.80	26.80	24.00	28.34	28.34	34.24	28.34	34.24	20.92

\* If single headlamps are used enter here.

- (1) Optional on Hornet SST & Sportabout. Standard on Sportabout D/L or Gucci.
- (2) Included with AM/FM for Sedan & Hardtop. Also 2 door speakers for all models.
- (3) Included with 8-Track Stereo Tape Player or AM/FM Stereo radio.
- (4) Rear Side Pillars (both) on Matador & Ambassador Hardtops.

\* AMX 17.62

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (a)

\*\*SHIPPING WEIGHT includes heater (plus 304 CID V-8, automatic transmission, air conditioning, power drum brakes, bumper guards & wagon roof rack on Ambassador), 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).

Model	CURB WEIGHT* (Pounds)			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT** (Pounds)		
	Front	Rear	Total	Pass. In Front		Pass. In Rear		Front	Rear	Total
				Front	Rear	Front	Rear			
<b>GREMLIN:</b>										
2-Door Sedan										
232 Six, Model 7246-5	1495	1077	2572	43	57	17	83	1506	988	2494
<b>HORNET:</b>										
2-Door Sedan, SST										
232 Six, Model 7206-7	1552	1123	2675	49	51	19	81	1560	1067	2627
4-Door Sedan, SST										
232 Six, Model 7205-7	1574	1165	2739	49	51	19	81	1582	1109	2691
4-Door Wagon, Sportabout										
232 Six, Model 7208-7	1560	1257	2817	49	51	19	81	1568	1201	2769
<b>JAVELIN:</b>										
2-Door Hardtop, SST										
232 Six, Model 7279-7	1665	1259	2924	46	54	20	80	1673	1203	2876
2-Door Hardtop, AMX										
304 V-8, Model 7279-8	1862	1335	3197	46	54	20	80	1870	1279	3149
<b>MATADOR:</b>										
4-Door Sedan										
232 Six, Model 7215-7	1713	1527	3240	48	52	19	81	1726	1445	3171
2-Door Hardtop										
232 Six, Model 7219-7	1731	1548	3279	48	52	21	79	1744	1466	3210
4-Door Wagon										
258 Six, Model 7218-7	1696	1853	3549	48	52	19	81	1709	1771	3480
<b>AMBASSADOR:</b>										
4-Door Sedan, SST										
304 V-8, Model 7285-5	2001	1605	3606	47	53	18	82	2014	1523	3537
4-Door Sedan, Brougham										
304 V-8, Model 7285-7	2010	1610	3620	47	53	18	82	2023	1528	3551
2-Door Hardtop, SST										
304 V-8, Model 7289-5	2020	1628	3648	47	53	20	80	2033	1546	3579
2-Door Hardtop, Brougham										
304 V-8, Model 7289-7	2020	1630	3650	47	53	20	80	2033	1548	3581
4-Door Wagon, SST										
304 V-8, Model 7288-5	1961	1944	3905	47	53	18	82	1969	1864	3833
4-Door Wagon, Brougham										
304 V-8, Model 7288-7	1969	1960	3929	47	53	18	82	1977	1880	3857

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

**FUEL TO FILL TANK TO CURB WEIGHT:**

Gremlin.....	8 to 21.0 gal.
Hornet.....	8 to 16.0 gal.
Javelin.....	8 to 16.0 gal.
Matador Sedan, Hardtop & 2-Seat Wagon	8 to 19.5 gal.
Matador 3-Seat Wagon.....	8 to 20.0 gal.
Ambassador Sedan & Hardtop.....	8 to 19.5 gal.
All Ambassador Wagons.....	8 to 20.0 gal.

	FRONT	REAR	TOTAL
	-11	89	78
	- 8	56	48
	- 8	56	48
	-13	82	69
	- 8	80	72
	-13	82	69
	- 8	80	72

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (a)

OPTIONAL EQUIPMENT WEIGHTS

Equipment Differential Weights

WEIGHT (Pounds)

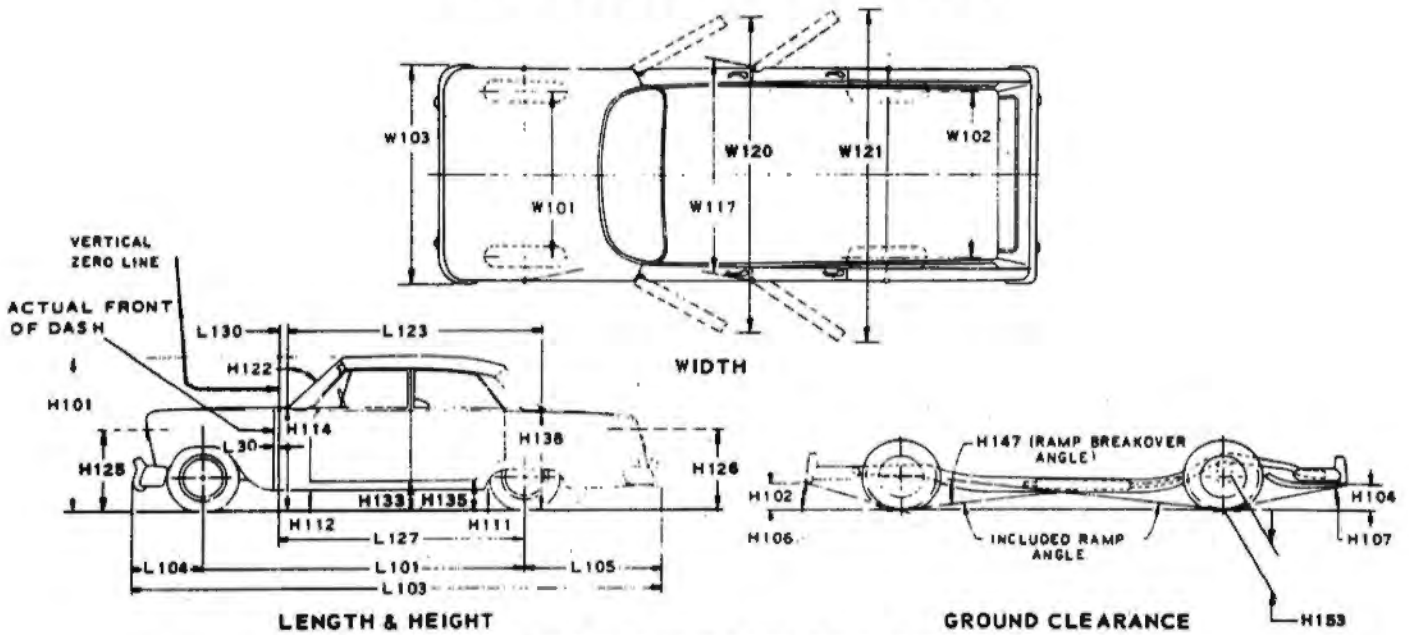
Front Rear Total

Model	Equipment Differential Weights	WEIGHT (Pounds)			Front	Rear	Total	
		Front	Rear	Total				
GREMLIN ALL	232-1B 3-Speed to 232-1B Auto	26	8	34	-4	25	21	
	232-1B 3-Speed to 258-1B 3-Speed	17	3	20	3	7	10	
	232-1B 3-Speed to 258-1B Auto	19	6	25	1	14	15	
HORNET ALL	232-1B 3-Speed to All-Syncro F.S.	6	3	9	0	15	15	
	232-1B 3-Speed to 304 2-B 3-Speed	179	73	252	-2	9	7	
	232-1B 3-Speed to 304 2-B Auto	180	74	254	-2	8	6	
	232-1B 3-Speed to 232-1B Auto	26	8	34	-1	6	5	
	232-1B 3-Speed to 258-1B 3-Speed	17	3	20	6	0	6	
	232-1B 3-Speed to 258-1B Auto	37	8	45	16/2	7/8	23/10	
	232-1B 3-Speed to 304-2B Auto, Sed	178	56	234	16/2	8/3	24/5	
	232-1B 3-Speed to 304-2B Auto, Wag	176	53	229	15/1	4/5	19/6	
	232-1B 3-Speed to 360-2B Auto, Sed	210	62	272	2	14	16	
	232-1B 3-Speed to 360-2B Auto, Wag	208	59	267	14	-1	13	
JAVELIN S&HT	232-1B 3-Speed to All-Syncro F.S.	6	3	9	0	12	12	
	232-1B 3-Speed to 232-1B Auto	179	73	252	8	-1	7	
	232-1B 3-Speed to 258-1B Auto	16	9	25	6	-1	5	
	232-1B 3-Speed to 258-1B 3-Speed	27	9	36	10/12	-2/-2	8/10	
	232-1B 3-Speed to 304-2B 3-Speed	171	71	242	7/10	-1/-1	6/9	
	232-1B 3-Speed to 304-2B Auto	172	72	244	11	-1	10	
	232-1B 3-Speed to 360-2B Auto	193	87	280	25/8	6/8	31/16	
	232-1B 3-Speed to 360-4B Auto	203	87	290	24/8	8/3	32/11	
	232-1B 3-Speed to 360-4B 4-Speed	215	81	296	25/13	3/4	28/17	
	232-1B 3-Speed to 401-4B Auto	231	111	342	12/9	14/14	26/23	
MATADOR Wagon	232-1B 3-Speed to 401-4B 4-Speed	243	105	348	2	15	17	
	304-2B 3-Speed to 304-2B Auto	1	1	2	20/14	15/15	35/29	
	304-2B 3-Speed to 360-2B Auto	22	16	38	Undercoating	8	11	19
	304-2B 3-Speed to 360-4B Auto	32	16	48	Undercoating & Hood Insulation	9	11	20
	304-2B 3-Speed to 360-4B 4-Speed	44	10	54	Vinyl Floor Mats, F & R	4	3	7
	304-2B 3-Speed to 401-4B Auto	60	40	100	Vinyl-Covered Roof, Hornet/Javelin	2/2	4/3	6/5
	304-2B 3-Speed to 401-4B 4-Speed	72	34	106	Mat & Amb	2	5	7
	232-1B 3-Speed to 232-1B Auto	14	6	20	Sun Roof, Gremlin & Hornet	3	8	11
	232-1B 3-Speed to 258-1B Auto	25	6	31	Bumper Guards, Front	4	0	4
	232-1B 3-Speed to 304-2B Auto	168	16	184	Front & Rear (Std. Amb)	4	4	8
AMB ALL	232-1B 3-Speed to 360-2B Auto	217	31	248	Wheel Covers (Std Jav SST, Amb Bro)	2	2	4
	232-1B 3-Speed to 360-4B Auto	227	31	258	Custom Wheel Covers	6	6	12
	232-1B 3-Speed to 401-4B Auto	262	61	323	Turbo-Disc Wheel Covers	7	7	14
	258-1B 3-Speed to 258-1B Auto	14	6	20	Wide Rocker Molding, Gr/Hr	3/4	4/4	7/8
	258-1B 3-Speed to 304-2B Auto	156	17	173	Ind. Recl. Seats, Hornet 2-Door	18	19	37
	258-1B 3-Speed to 360-2B Auto	186	23	209	Hornet 4-Door	14	15	29
	258-1B 3-Speed to 360-4B Auto	196	23	219	Mat&Amb 2-Dr	10	11	21
	258-1B 3-Speed to 401-4B Auto	228	46	274	Mat&Amb 4-Dr	11	13	24
	304-2B Auto to 360-2B Auto	30	6	36	Bucket Seats, Gr/Hor (Std Jav)	11/14	15/15	26/29
	304-2B Auto to 360-4B Auto	39	7	46	Mat & Amb (with cushion)	12	14	26
SST	304-2B Auto to 401-4B Auto, S & HT	75	36	111	Center Cushion & Armrest, Javelin	6	4	10
	304-2B Auto to 401-4B Auto, Wagon	72	29	101	Console, Javelin	6	5	11
	Dual Exhaust, Javelin (Std-401)	5	24	29	Custom Pkg, Bench/ Bucket, Gremlin	6/17	11/26	17/43
	Dual Exhaust, Mat. & Amb. (Std-401)	7	25	32	Interior Appointment Pkg, Gremlin	4	2	6
	Power Steering, Gremlin & Hor 6/V8	36/34	-4	32/30	D/L Pkg, Hornet Wagon	24	39	63
	Power Steering, Javelin 6/V8	39/37	-4	35/33	Front Lower Spoiler, AMX (rear std)	5	0	5
	Power Steering, Mat & Amb 6/V8	35/33	-3	32/30	Gremlin 6, 6.00 x 13 to 6.45 x 14	7	11	18
	Gremlin, Hornet & Jav; Power Brakes 6 & V8	8	1	9	6.00 x 13 to B78 x 14	13	20	33
	Power Disc Brakes 6/V8	37/34	1	38/35	6.00 x 13 to D70 x 14 *	40	47	87
	Manual Disc Brakes 6/V8	31/28	0	31/28	Gremlin V8, 6.95 x 14 to C78 x 14	10	15	25
AMX	Matador; Power Brakes 6 & V8	12	0	12	6.95 x 14 to D78 x 14	12	18	30
	Power Disc Brakes, 6 & 304V8, S&HT	39	2	41	6.95 x 14 to D70 x 14 *	31	33	64
	Power Disc Brakes, 360 & 401 V8, S&HT	23	-8	15	Hornet 6 Sedan, 6.45 x 14 to 6.95 x 14	2	3	5
	Power Disc Brakes, Wagons	23	1	24	6.45 x 14 to B78 x 14	6	9	15
	Manual Disc Brakes, 6 S & HT	29	0	29	6.45 x 14 to C78 x 14	12	18	30
	Ambassador; Power Disc Brakes, S & HT	12	-9	3	6.45 x 14 to D78 x 14	14	21	35
	Power Disc Brakes, Wagons	12	0	12	6.45 x 14 to C78 x 14	23	26	49
	Twin-Grip Differential	0	8	8	6.45 x 14 to D78 x 14 *	27	30	57
	Air Conditioning, Gremlin 6	78	-5	73	6.45 x 14 to D70 x 14 *	31	34	65
	Air Conditioning, Gremlin V8	71	-3	69	Ho. V8 Sed/Wag, 6.95 x 14 to C78 x 14	10/10	15/10	25/20
Wagon	Air Conditioning, Hornet 6	76	-5	71	6.95 x 14 to D78 x 14	12/12	18/11	30/23
	Air Conditioning, Hornet V8	69	-4	65	6.95 x 14 to C78 x 14 *	21/21	23/21	44/42
	Air Conditioning, Javelin 6 & V8	64	-4	60	6.95 x 14 to D78 x 14 *	25/25	27/25	52/50
	Air Conditioning, Matador 6	78	-3	75	6.95 x 14 to D70 x 14 *	29/29	31/29	60/58
	Air Conditioning, Matador V8	74	-3	71	Javelin SST 6, C78 x 14 to D78 x 14	2	3	5
	Delete Air Cond, Ambassador	-64	2	-62	C78 x 14 to E70 x 14	12	21	33
	Radio, Gremlin, Hornet, Javelin	5	1	6	C78 x 14 to E70 x 14 *	18	21	39
	Radio, Matador & Ambassador	5	2	7	C78 x 14 to E78 x 14 *	14	17	31
	Radio, with Stereo Tape, Javelin	4	4	8	Javelin SST V8, D78 x 14 to E78 x 14	4	6	10
	Radio, with Multi-Plex, Javelin	3	3	6	D78 x 14 to E70 x 14 *	10	18	28
Radio, with Multi-Plex, Mat & Amb	6	5	11	D78 x 14 to E70 x 14 *	12	14	26	
S&HT	Power Side Windows, Amb	7	8	15	D78 x 14 to E60 x 15 *	16	18	32
	Power Tailgate Window, Mat & Amb	-2	8	6	Javelin AMX, 370 x 14* to E60 x 15*	28	30	58
	Wagon 3rd Seat & P. T'gate Win, Mat	-4	35	31	Mat Sed & HT, E78 x 14 to F78 x 14	12	12	24
					E78 x 14 to E60 x 15	3	5	8
					Mat Wagons, G78 x 14 to H78 x 14	26	20	46
					Amb Sed & HT, E78 x 14 to F78 x 14	2	3	5
					E78 x 14 to G78 x 14	3	5	8
					Amb. Wagons, H78 x 14, 2 Ply to 4 Ply	11	17	28
					Blackwall to Whitewall Tires (all)	9	16	25
					Spoke-Style Wheels, 4	11	11	22

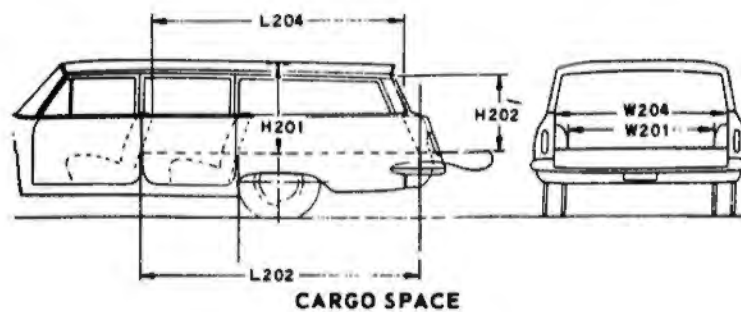
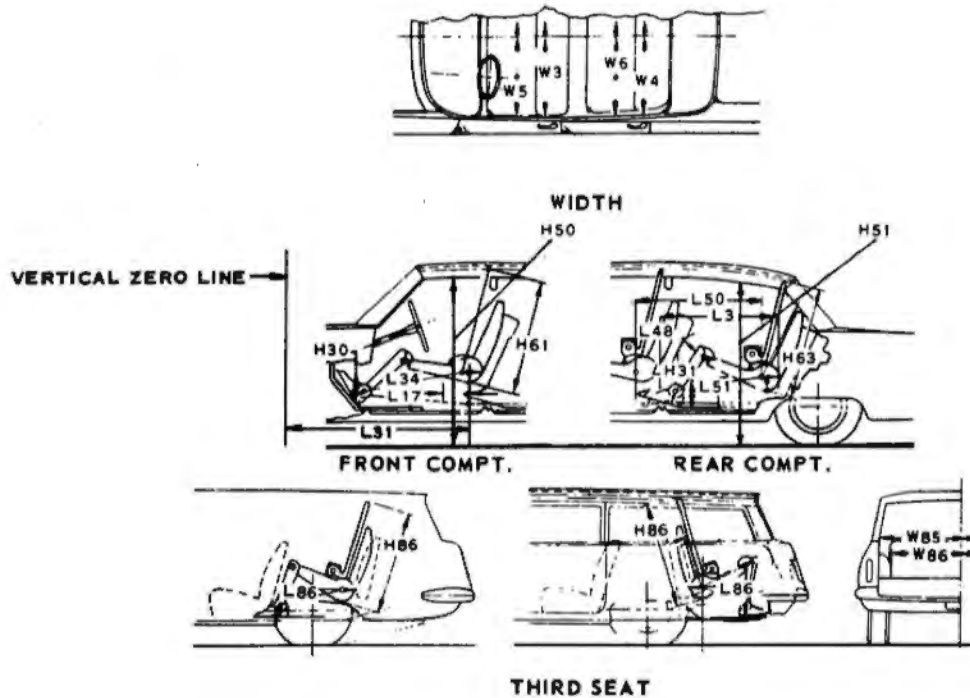
\*With mag-type styled wheels.



## CAR AND BODY DIMENSIONS KEY SHEET EXTERIOR CAR AND BODY DIMENSIONS



## INTERIOR CAR AND BODY DIMENSIONS





**EXTERIOR CAR AND BODY DIMENSIONS  
KEY SHEET  
DIMENSION DEFINITIONS**

**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.
- W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN is measured to outside of sheet metal with front doors in maximum hold-open position.
- W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN is measured in same manner as W120.

**LENGTH DIMENSIONS.**

- L30 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.

**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.

- H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT is the same point on the door as H132 dimension, with door closed.
- 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.
- H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR is measured in same manner as H133.
- 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.
- H125 HEADLAMP CENTERLINE TO GROUND is measured vertically to the center of the upper lamp.
- H126 TAILLAMP CENTERLINE is measured vertically from ground to the centerline of the upper bulb.

**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.
- H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND is a minimum clearance.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

INTERIOR CAR AND BODY DIMENSIONS  
KEY SHEET  
DIMENSION DEFINITIONS

**FRONT COMPARTMENT DIMENSIONS**

- L31** H POINT TO VERTICAL ZERO LINE - FRONT is a horizontal dimension.
- H61** EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.
- L34** 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.
- H30** H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.
- L17** H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.
- W3** SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.
- W5** 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.
- H50** UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.
- REAR COMPARTMENT DIMENSIONS**
- L50** H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.
- H63** 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.
- L51** 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.
- H31** H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.
- L48** MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.
- L3** 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.
- W4** SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W6** 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.
- H51** UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

**LUGGAGE COMPARTMENT DIMENSIONS**

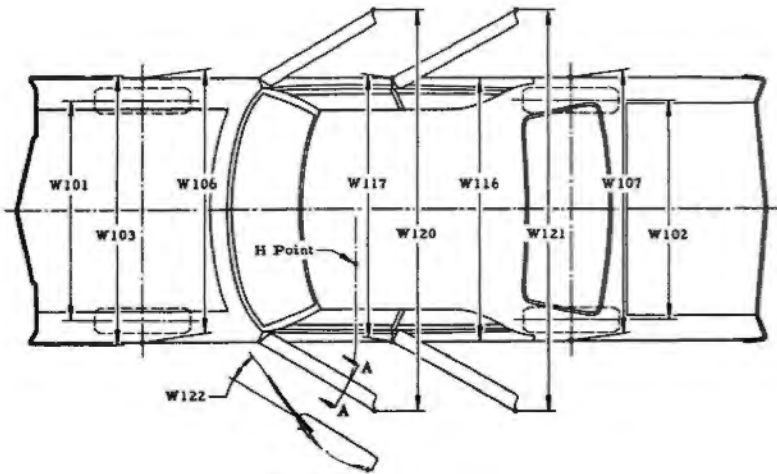
- V1** LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195** LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.
- STATION WAGON - THIRD SEAT DIMENSIONS**
- W85** SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W86** HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L86** 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.
- H86** 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**

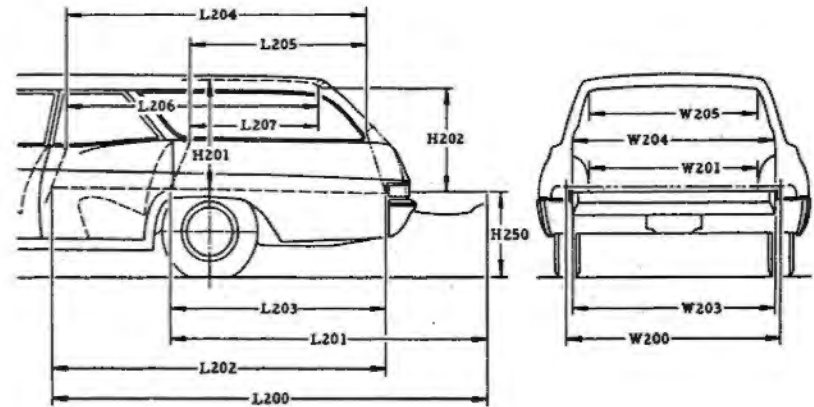
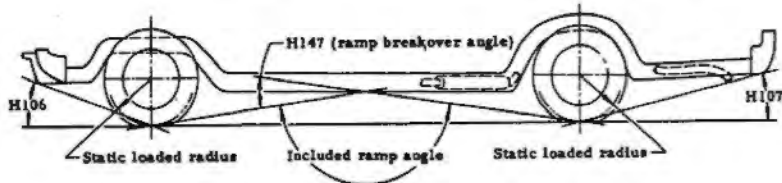
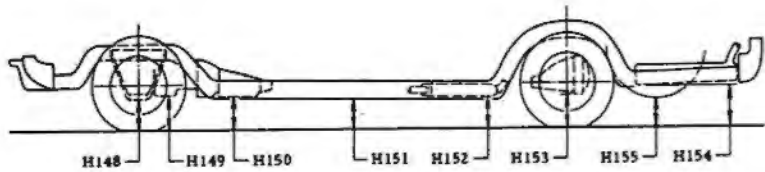
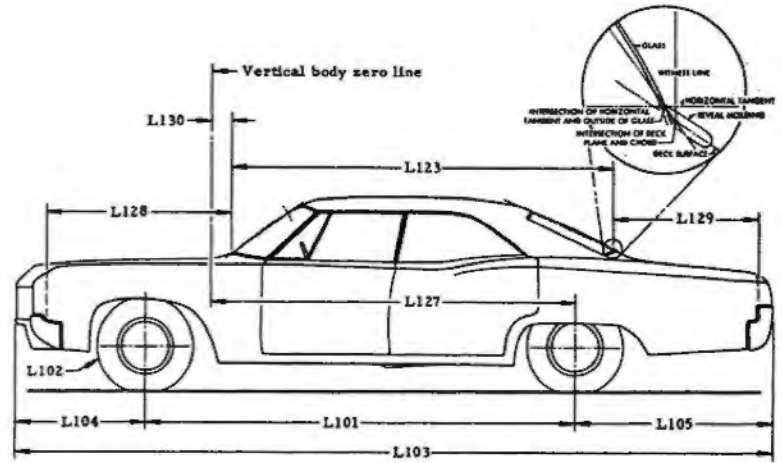
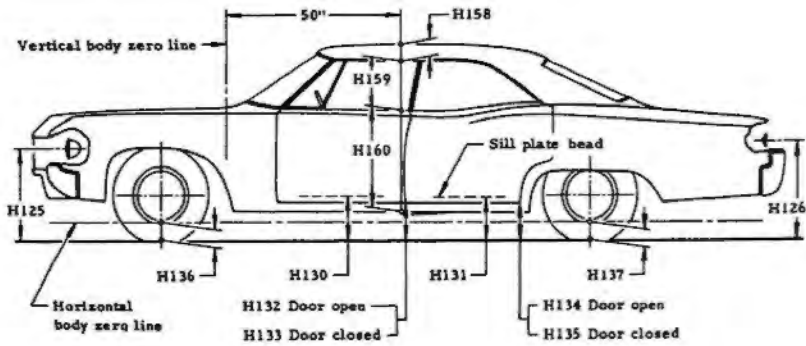
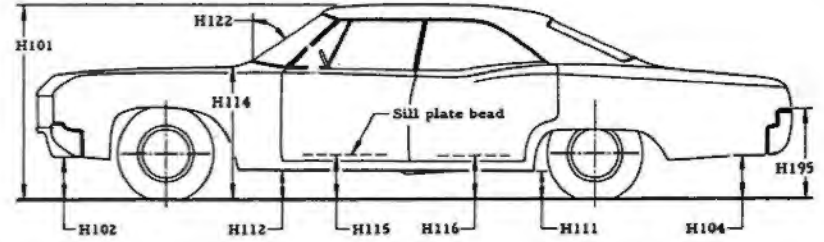
- L202** CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204** CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from 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.
- V2** CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

1728



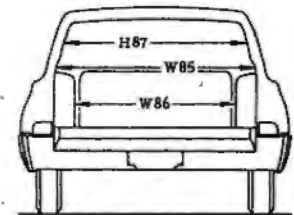
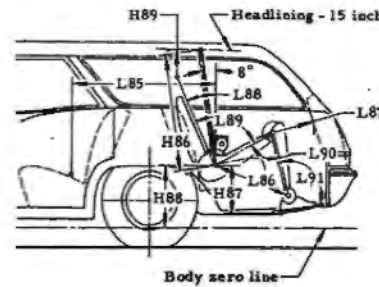
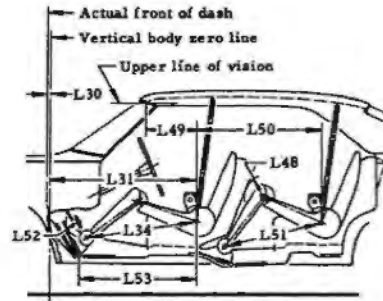
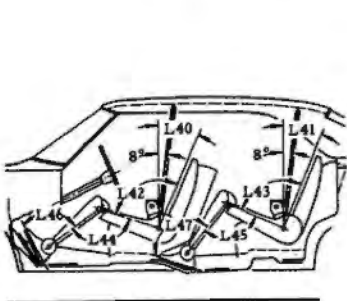
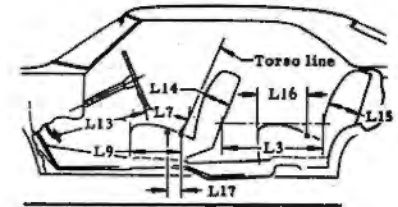
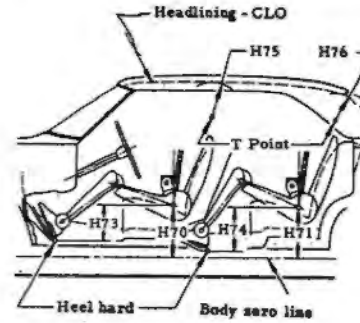
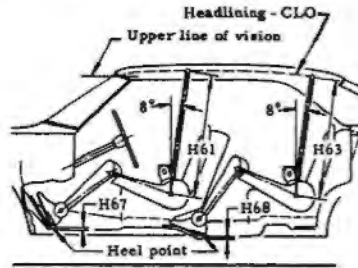
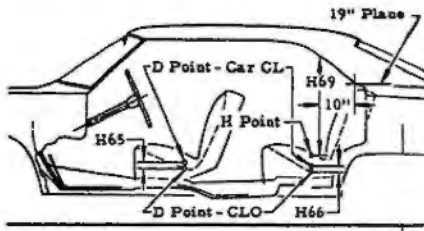
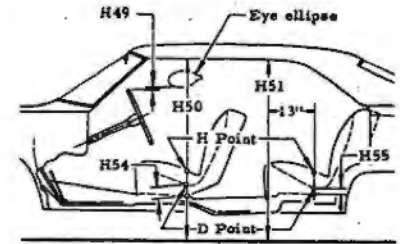
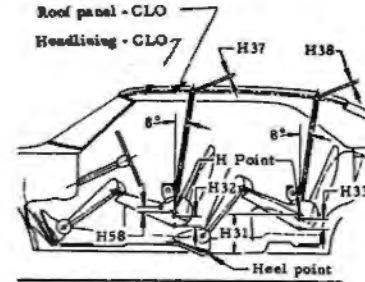
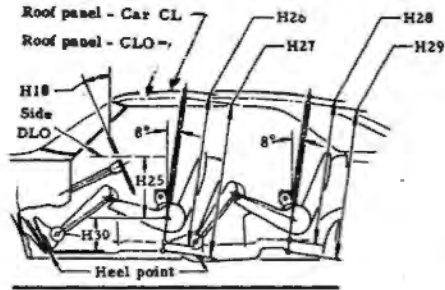
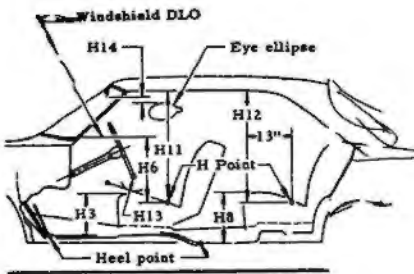
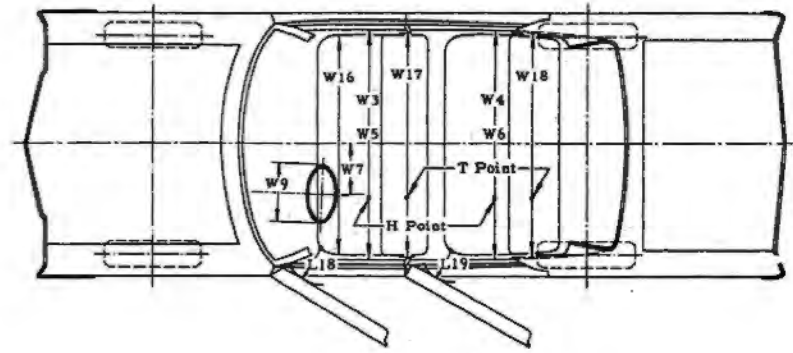
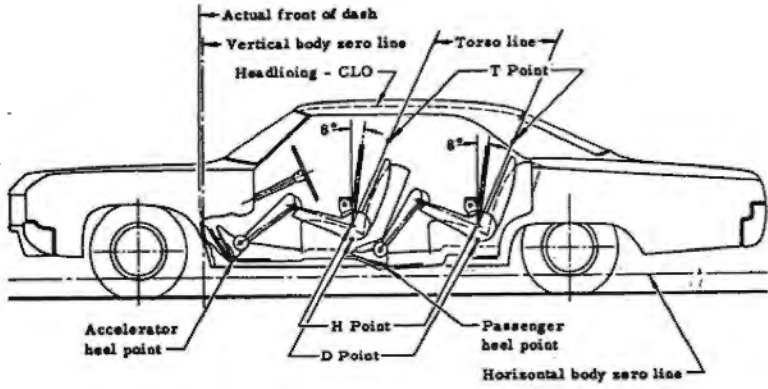
SECTION A-A



		HORNET			GRUNTIN			MATADOR			AMBASSADOR			JAVELIN
		2-Door Sedan 7206-7	4-Door Sedan 7205-7	4-Door Wagon 7208-7	2-Door Sedan 7246-5	4-Door Sedan 7215-7	2-Door Hardtop 7219-7	4-Door Wagon 7218-7	4-Door Sedan 7285-5	2-Door Hardtop 7289-5	4-Door Wagon 7288-7	2-Door Hardtop 7289-7	4-Door Wagon 7288-7	2-Door Hardtop 7279-7
<b>EXTERIOR</b>														
<b>CODE NO</b>	<b>DESCRIPTION</b>													
<b>WIDTH</b>	W101 TREAD - FRONT	57.46	57.46	57.46	57.46	59.94	59.94	59.94	59.94	59.94	59.94	59.94	59.94	59.94
	W102 TREAD - REAR	57.00	57.00	57.00	57.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
	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	77.24	77.24	75.20
	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	77.24	77.24	75.20
	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	75.46	75.46	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	77.24	77.24	74.66
	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	76.76	76.76	75.12
	W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN	156.40	141.72	141.72	156.40	143.14	166.86	143.14	143.14	166.86	143.14	166.86	143.14	152.90
	W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN	- - -	122.62	122.62	- - -	140.60	- - -	140.60	140.60	- - -	140.60	- - -	140.60	- - -
	L30 BODY ZERO LINE TO ACTUAL FRONT OF DASH	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
L101 WHEELBASE	108.00	108.00	108.00	96.00	118.00	118.00	118.00	122.00	122.00	122.00	122.00	122.00	110.00	
L104 OVERHANG, FRONT	33.25	33.25	33.25	33.25	34.93	34.93	34.93	35.66	35.66	35.66	35.66	35.66	47.25	
L105 OVERHANG, REAR	38.01	38.01	38.01	32.00	53.12	53.12	52.07	53.48	53.48	52.07	53.48	52.07	39.52	
L103 OVERALL LENGTH	179.26	179.26	179.26	161.25	206.05	206.05	205.00	211.14	211.14	211.14	209.73	211.14	191.77	
L128 HOOD LENGTH AT CENTERLINE	52.93	52.93	52.93	52.93	62.40	62.40	62.40	61.75	61.75	61.75	61.75	61.75	63.80	
L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE	96.10	96.10	118.00	94.37	104.37	110.23	135.86	104.37	110.23	135.86	104.37	110.23	99.86	
L129 DECK LENGTH AT CENTERLINE	27.22	27.22	- - -	- - -	39.86	36.26	- - -	39.86	36.26	- - -	39.86	36.26	- - -	
L127 BODY ZERO LINE TO CENTERLINE OF REAR WHEELS	96.00	96.00	96.00	84.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	96.00	
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	7.23	7.23	7.55	
L102 TIRE SIZE (STANDARD)	6.15x14	6.15x14	6.95x14	6.00x13	E78x14	E78x14	E78x14	E78x14	E78x14	E78x14	E78x14	E78x14	E78x14	
DESIGN LOAD (PASS. DISTR.)	3 - 2	3 - 2	3 - 2	2 - 2	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 3	2 - 2	
H101 OVERALL HEIGHT	52.40	52.40	52.90	51.80	55.35	53.82	56.39	55.54	54.86	56.70	50.87	56.70	50.87	
H114 COWL TO GROUND	36.54	36.54	37.15	35.83	38.17	37.59	39.21	38.55	38.55	39.56	36.55	39.56	36.55	
H112 ROCKER PANEL TO GROUND - FRONT	8.20	8.20	8.92	7.60	9.10	8.22	10.00	9.16	9.16	10.31	9.02	10.31	9.02	
H111 ROCKER PANEL TO GROUND - REAR	6.90	6.90	7.82	6.41	8.26	7.28	9.86	8.17	8.17	9.97	8.23	9.97	8.23	
H132 BOTTOM OF DOOR TO GROUND, OPEN - FRONT	11.90	11.95	12.68	11.28	12.75	11.96	13.86	12.90	12.80	14.12	12.86	14.12	12.86	
H134 BOTTOM OF DOOR TO GROUND, OPEN - REAR	- - -	10.45	11.42	- - -	11.98	- - -	13.52	11.94	- - -	13.68	- - -	13.68	- - -	
H122 WINDSHIELD SLOPE ANGLE	57°30'	57°30'	57°30'	57°30'	51°06'	51°06'	54°06'	51°06'	51°06'	51°06'	51°06'	51°06'	59°09'	
H125 HEADLAMP TO GROUND	25.74	25.74	26.13	25.20	20.29	25.11	20.34	27.19	27.19	27.68	25.12	27.68	25.12	
H126 TAILLAMP TO GROUND	23.53	23.53	24.75	23.62	23.33	22.45	30.55	23.24	23.24	30.13	26.10	30.13	26.10	
H136 BODY ZERO TO GROUND - FRONT	7.48	7.48	7.95	6.78	7.76	6.88	8.28	7.94	7.94	8.68	6.78	8.68	6.78	
H137 BODY ZERO TO GROUND - REAR	6.10	6.10	7.12	5.64	6.63	5.75	8.65	6.61	6.61	8.68	5.64	8.68	5.64	
H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT	10.55	10.65	11.55	9.94	11.67	10.70	13.05	11.69	11.69	13.24	11.62	13.24	11.62	
H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR	- - -	10.40	11.32	- - -	11.42	- - -	13.19	11.43	- - -	13.29	- - -	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	4.60	4.72	4.60	
H159 D/O HEIGHT	13.90	13.90	13.90	13.90	14.10	14.06	14.10	14.10	14.10	14.06	14.10	14.10	13.10	
H160 BODY THICKNESS	27.20	27.20	27.20	27.20	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	27.20	
H195 LIFTOVER HEIGHT	28.75	28.75	- - -	31.90	28.91	28.03	- - -	28.84	28.84	- - -	31.60	28.84	31.60	
<b>GROUND CLEARANCE</b>														
H102 FRONT BUMPER TO GROUND	17.35	17.35	11.90	16.70	12.67	11.79	12.84	12.70	12.70	13.33	17.84	13.33	17.84	
H104 REAR BUMPER TO GROUND	15.30	15.30	11.90	14.70	15.60	14.72	12.79	15.54	15.54	12.71	15.98	15.54	12.71	
H106 ANGLE OF APPROACH	26°56'	26°56'	28°01'	27°41'	27°46'	27°37'	28°33'	25°27'	25°21'	26°31'	23°35'	26°31'	23°35'	
H107 ANGLE OF DEPARTURE	19°00'	19°00'	23°30'	23°00'	13°59'	14°05'	14°28'	14°01'	14°13'	14°47'	19°00'	14°47'	19°00'	
H147 RAMP BREAKOVER ANGLE	16°20'	16°20'	18°01'	17°01'	16°59'	17°01'	18°18'	14°35'	15°19'	16°54'	17°30'	16°54'	17°30'	
H148 FRONT SUSPENSION TO GROUND	6.08	6.08	6.24	5.32	6.08	5.20	6.60	9.62	9.62	7.00	6.46	9.62	7.00	
H149 OIL PAN TO GROUND	5.96	5.96	5.85	5.17	6.27	5.39	6.95	6.37	6.37	7.31	6.28	7.31	6.28	
H150 FLYWHEEL HOUSING/TRANS. ASSY. TO GROUND	5.92	5.92	5.95	5.12	6.21	5.33	6.95	6.33	6.33	7.30	6.30	7.30	6.30	
H151 FRAME TO GROUND	6.25	6.25	6.84	6.04	7.80	7.00	9.14	7.91	7.91	9.36	8.20	9.36	8.20	
H152 EXHAUST SYSTEM TO GROUND	5.21	5.21	5.65	7.53	6.30	5.42	7.88	6.31	6.31	8.02	5.48	8.02	5.48	
H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND	7.11	7.11	6.50	5.01	6.31	5.43	8.33	6.29	6.29	8.36	6.50	8.36	6.50	
H154 FUEL TANK TO GROUND	7.68	7.68	8.25	5.12	7.23	6.35	9.48	7.28	7.28	9.48	7.70	9.48	7.70	
H155 TIRE WELL TO GROUND	12.22	12.22	- - -	11.17	- - -	- - -	10.97	- - -	- - -	10.93	- - -	10.93	- - -	
H156 MINIMUM RUNNING GROUND CLEARANCE POSITION ON CAR	5.21	5.21	5.65	5.01	6.08	5.20	6.60	6.29	6.29	7.00	5.48	7.00	5.48	

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







		CREMLIN				HORNET				JAVELIN		MATADOR			AMBASSADOR		
		2-Door Sedan 7246-5	2-Door Sedan 7206-7	4-Door Sedan 7205-7	4-Door Wagon 7208-7	2-Door Hardtop 7279-7	2-Door Hardtop 7279-7	4-Door Sedan 7215-7	2-Door Hardtop 7219-7	4-Door Wagon 7218-7	4-Door Sedan 7285-5	2-Door Hardtop 7289-5	4-Door Wagon 7288-7				
INTERIOR																	
CODE NO.	DESCRIPTION																
FRONT COMPARTMENT	L31 BODY ZERO LINE TO H POINT	44.36	44.36	44.36	44.36	45.00	43.92	43.92	43.92	43.92	43.92	43.92	43.92				
	H70 H POINT TO BODY ZERO	10.85	10.85	10.85	10.85	10.20	11.84	11.84	11.84	11.84	11.84	11.84	11.84				
	H61 EFFECTIVE HEAD ROOM	38.00	38.00	38.00	38.00	37.50	39.60	38.95	39.88	39.60	38.95	39.88	39.88				
	H37 HEADLINING TO ROOF HEIGHT	.53	.53	.53	.53	.50	.57	.57	.57	.57	.57	.57	.57				
	L34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR	41.05	41.05	41.05	41.05	42.45	41.80	41.80	41.80	41.80	41.80	41.80	41.80				
	H30 H POINT TO HEEL POINT	8.70	8.70	8.70	8.70	8.08	9.70	9.70	9.70	9.70	9.70	9.70	9.70				
	H67 DEPRESSED FLOOR COVERING THICKNESS	.35	.35	.35	.35	.41	.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	98°	98°	98°	98°	97°	97°40'	98°	97°40'	98°	97°40'	98°	97°40'				
	L44 KNEE ANGLE	130°	130°	130°	130°	133°	128°	128°	128°	128°	128°	128°	128°				
	L46 FOOT ANGLE	84°	84°30'	84°30'	84°30'	90°	82°	82°	82°	82°	82°	82°	82°				
	H65 D POINT DIFFERENTIAL, SIDE TO CENTER	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.				
	H54 D POINT TO TUNNEL	.34	.20	.20	.17	.44	1.34	1.34	1.34	1.34	1.34	1.34	1.34				
	L53 H POINT TO ACCELERATOR FLOOR POINT	34.55	34.55	34.55	34.55	34.80	32.89	32.89	32.89	32.89	32.89	32.89	32.89				
	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	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86					
H75 EFFECTIVE T POINT HEADROOM - FRONT	38.16	37.98	37.98	37.87	37.46	39.46	38.80	39.72	39.46	38.80	39.72	39.72					
REAR COMPARTMENT	L50 H POINT COUPLE DISTANCE	23.56	31.22	31.22	31.22	27.75	34.82	31.74	34.82	34.82	31.74	34.82					
	H71 H POINT TO BODY ZERO	11.95	10.85	10.85	10.85	10.00	12.54	11.84	12.54	12.54	11.84	12.54					
	H63 EFFECTIVE HEAD ROOM	36.40	37.00	37.00	37.40	35.60	37.47	36.60	38.71	37.47	36.60	38.71					
	H38 HEADLINING TO ROOF HEIGHT	.57	.57	.57	.57	.52	.52	.52	.52	.52	.52	.52	.52				
	L51 MINIMUM EFFECTIVE LEG ROOM	29.00	36.75	36.75	36.75	30.80	38.60	35.50	38.60	38.60	35.50	38.60					
	H31 H POINT TO HEEL POINT	12.30	10.91	10.91	10.91	10.28	11.10	11.10	11.10	11.10	11.10	11.10	11.10				
	H68 DEPRESSED FLOOR COVERING THICKNESS	.35	.35	.35	.35	.42	.35	.35	.35	.35	.35	.35	.35				
	L48 KNEE CLEARANCE	-3.25	2.40	2.40	2.40	-.08	5.70	2.95	5.70	5.70	2.95	5.70	5.70				
	L3 REAR COMPARTMENT ROOM	20.00	25.20	25.20	24.90	21.40	29.60	24.70	28.12	29.60	24.70	28.12	28.12				
	L41 BACK ANGLE	20°	21°	21°	21°	20°	18°	18°	18°	18°	18°	18°	18°				
	L43 HIP ANGLE	77°40'	82°	82°	82°	73°	86°	79°	86°	86°	79°	86°					
	L45 KNEE ANGLE	101°	92°20'	92°20'	92°20'	115°	108°10'	92°	108°10'	108°10'	92°	108°10'					
	L47 FOOT ANGLE	97°	122°	122°	122°50'	115°	134°	125°30'	134°	134°	125°30'	134°					
	H66 D POINT DIFFERENTIAL, SIDE TO CENTER	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.				
	H55 D POINT TO TUNNEL	.85	2.51	2.51	2.50	2.58	3.20	.18	1.00	3.20	.18	1.00	3.20				
H76 EFFECTIVE T POINT HEADROOM - REAR	36.14	36.75	36.75	37.10	35.54	37.42	37.16	38.38	37.42	37.16	38.38	38.38					
SEAT & ENTRANCE-FRONT	W3 SHOULDER ROOM	54.88	54.88	54.88	54.88	55.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00				
	W5 HIP ROOM	54.88	54.88	54.88	54.88	57.60	60.30	60.30	60.30	60.30	60.30	60.30	60.30				
	W16 SEAT WIDTH	48.40	47.34	47.34	47.34	54.00	53.60	53.60	53.60	53.60	53.60	53.60	53.60				
	H50 UPPER BODY OPENING TO GROUND	47.40	47.60	47.60	48.70	45.52	50.13	48.66	50.95	49.86	50.33	51.16	51.16				
	H11 ENTRANCE HEIGHT	30.33	30.33	30.33	30.33	29.89	30.68	31.30	30.68	30.68	31.30	30.68	30.68				
	H115 STEP HEIGHT - FRONT (DESIGN LOAD)	13.18	14.06	14.06	13.98	12.50	13.79	14.89	13.79	14.00	15.15	14.00	14.00				
	H130 STEP HEIGHT - FRONT (CURB LOAD)	14.84	14.84	14.90	14.50	13.50	15.45	16.85	15.45	15.66	17.06	15.66	15.66				
	L18 ENTRANCE - FOOT CLEARANCE	17.65	17.65	17.65	17.65	16.84	15.33	15.33	15.33	15.33	15.33	15.33	15.33				
	H32 SEAT CUSHION DEFLECTION	3.68	3.68	3.68	3.68	3.21	4.14	4.14	4.14	4.14	4.14	4.14	4.14				
	L14 THICKEST POINT OF SEAT BACK, AT C/L O	4.50	5.50	5.50	5.50	6.35	5.45	5.45	5.45	5.45	5.45	5.45	5.45				
	W17 HAT ROOM	53.14	52.96	52.96	52.86	52.52	58.46	57.96	58.46	58.46	57.96	58.46	58.46				
	H3 SEAT CHAIR HEIGHT	10.95	11.10	11.10	11.10	10.80	11.87	11.87	11.87	11.87	11.87	11.87	11.87				
	H73 H POINT TO HEEL HARD - FRONT	9.12	8.69	8.69	9.10	8.54	10.14	10.14	10.14	10.14	10.14	10.14	10.14				
	L9 SEAT DEPTH - FRONT	20.50	20.51	20.51	20.53	20.50	25.73	25.73	25.73	25.73	25.73	25.73	25.73				
	H26 INTERIOR BODY HEIGHT - METAL TO METAL AT CAR C/L	39.73	39.60	39.60	39.51	38.45	42.00	41.20	42.44	42.00	41.20	42.44	42.44				
H27 INTERIOR BODY HEIGHT - METAL TO METAL AT C/L O	45.05	45.10	45.10	44.97	44.86	46.38	45.50	46.38	46.38	45.50	46.38	46.38					
SEAT & ENTRANCE-REAR	W4 SHOULDER ROOM	52.96	53.32	53.32	53.32	53.20	60.00	59.00	60.00	60.00	59.00	60.00	60.00				
	W6 HIP ROOM	52.96	54.40	54.40	54.40	56.38	60.40	59.50	60.40	60.40	59.50	60.40	60.40				
	H51 UPPER BODY OPENING TO GROUND	---	---	48.12	48.36	---	49.06	---	50.64	49.24	---	50.78	50.78				
	H12 ENTRANCE HEIGHT	---	---	30.10	30.06	---	29.52	---	29.52	29.52	---	29.52	29.52				
	H116 STEP HEIGHT - REAR (DESIGN LOAD)	---	---	13.27	13.75	---	13.30	---	14.88	13.47	---	15.02	15.02				
	H131 STEP HEIGHT - REAR (CURB LOAD)	---	---	14.90	13.95	---	15.32	---	16.94	15.53	---	17.15	17.15				
	H69 EXIT HEIGHT	---	---	29.85	29.80	---	29.13	---	29.13	29.13	---	29.13	29.13				
	L19 ENTRANCE - FOOT CLEARANCE	---	---	10.60	10.60	---	13.04	---	13.04	13.04	---	13.04	13.04				
	H33 SEAT CUSHION DEFLECTION	4.50	4.20	4.20	4.20	4.98	3.95	3.88	4.32	3.95	3.88	4.32	4.32				
	L15 THICKEST POINT OF SEAT BACK, AT C/L O	2.75	6.80	6.80	6.80	6.66	7.50	7.35	7.50	7.50	7.35	7.50	7.50				
	W18 HAT ROOM	51.44	52.70	52.70	52.66	48.78	57.12	57.68	57.12	57.12	57.68	57.12	57.12				
	H8 SEAT CHAIR HEIGHT	10.95	12.95	12.95	12.95	12.60	12.85	12.70	12.85	12.85	12.70	12.85	12.85				
	H74 H POINT TO HEEL HARD - REAR	12.30	11.73	11.73	11.32	10.70	11.46	10.76	11.46	11.46	10.76	11.46	11.46				
	L16 SEAT DEPTH - REAR	17.07	19.50	19.50	19.50	14.36	20.14	19.90	20.14	20.14	19.90	20.14	20.14				
	H28 INTERIOR BODY HEIGHT - METAL TO METAL AT CAR C/L	37.42	36.92	36.92	37.24	34.62	39.78	38.20	40.90	39.78	38.20	40.90	40.90				
H29 INTERIOR BODY HEIGHT - METAL TO METAL AT C/L O	40.65	40.50	40.50	40.85	38.65	41.55	40.08	42.73	41.55	40.08	42.73	42.73					
VISION & CONTROL	H6 H POINT TO WINDSHIELD BOTTOM DLO	20.83	20.65	20.65	20.65	20.98	22.66	21.65	21.62	22.66	21.65	21.62	21.62				
	H64 H POINT TO WINDSHIELD UPPER DLO	32.10	31.55	31.55	31.55	30.22	32.26	31.52	32.26	32.26	31.52	32.26	32.26				
	L49 H POINT TO WINDSHIELD UPPER DLO	12.36	12.33	12.33	12.81	17.33	16.72	17.85	16.72	16.72	17.85	16.72	16.72				
	H25 BELT HEIGHT - FRONT	16.89	17.02	17.02	17.02	17.10	17.52	17.52	17.52	17.52	17.52	17.52	17.52				
	W7 STEERING WHEEL CENTER TO CENTERLINE OF CAR	13.67	13.67	13.67	13.67	13.67	15.05	15.05	15.05	15.05	15.05	15.05	15.05				
	W9 STEERING WHEEL OUTSIDE DIAMETER (1)	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°22'	19°22'	19°22'	19°22'	17°50'	19°21'	19°21'	19°21'	18°11'	18°11'	18°11'	18°11'				
	H49 H POINT TO TOP OF STEERING WHEEL	22.90	22.90	22.90	22.90	22.80	23.08	23.08	23.08	23.08	23.08	23.08	23.08				
	L7 STEERING WHEEL TORSO CLEARANCE	13.13	13.13	13.13	13.08	13.33	12.47	12.47	12.47	12.47	12.47	12.47	12.47				
	H13 STEERING WHEEL THIGH CLEARANCE	3.70	3.71	3.71	3.64	3.36	4.97	4.97	4.97	4.97	4.97	4.97	4.97				
	L13 BRAKE PEDAL KNEE CLEARANCE	23.38	Manual	26.10	Power	23.60(2)	24.50	Manual	26.88	Power	24.50	Manual	26.88				
	L52 BRAKE PEDAL TO ACCELERATOR	3.65	Manual	.95	Power	3.70(3)	4.38	Manual	1.96	Power	4.38	Manual	1.96				
	W122 TUMBLE-HOME	24°25'	24°31'	24°31'	24°31'	24°25'	21°10'	20°12'	21°10'	21°10'	20°12'	21°10'	21°10'				

\* For Dimension Definitions See Section E1, SAE Aerospace - Automotive Drawing Standards, or GM Engineering Staff Report No. 0-65-101, Car and Body Dimensions Procedure, dated (1) 15" for optional sports wheel (standard on Javelin AMX #7279-8) (2) Power 26, 32 (3) Power 1, 00

STATION WAGON THIRD SEAT DIMENSIONS \*  
AMA SPECIFICATIONS SUPPLEMENT

CODE NO	DESCRIPTION	Matador	Ambassador	
		4-Door Wagon 7218-7	4-Door Wagon 7288-5 7288-7	
	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	13.02	13.02	
H89	EFFECTIVE T POINT HEADROOM	N. A.	N. A.	
H90	H POINT TO HEEL HARD	12.91	12.91	

STATION WAGON CARGO SPACE DIMENSIONS \*  
2- & 3-SEAT MODELS FOR MATADOR & AMBASSADOR  
2-SEAT MODELS FOR HORNET SPORTABOUT

		Matador 4-Door Wagon 7218-7	Ambassador 4-Door Wagon 7288-7 7288-7	Hornet 4-Door Wagon (Sportabout) 7208-7
L200	MAXIMUM CARGO LENGTH - FRONT SEAT	114.90	114.90	74.30
L201	MAXIMUM CARGO LENGTH - SECOND SEAT	78.83	78.83	43.18
L202	CARGO LENGTH AT FLOOR - FRONT SEAT	92.63	92.63	74.30
L203	CARGO LENGTH AT FLOOR - SECOND SEAT	56.53	56.53	43.18
L204	CARGO LENGTH AT BELT - FRONT SEAT	82.73	82.73	70.58
L205	CARGO LENGTH AT BELT - SECOND SEAT	46.74	46.74	44.24
L206	CARGO LENGTH AT ROOF - FRONT SEAT	75.33	75.33	45.72
L207	CARGO LENGTH AT ROOF - SECOND SEAT	39.36	39.36	19.38
W200	CARGO WIDTH - FRONT	(1)	(1)	54.64
W201	CARGO WIDTH - WHEELHOUSE	45.08	45.08	41.50
W203	REAR OPENING WIDTH AT FLOOR	53.66	53.66	- - -
W204	OPENING WIDTH AT BELT	53.60	53.60	52.00
W205	MAXIMUM REAR OPENING WIDTH ABOVE BELT	45.60	45.60	40.76
H201	MAXIMUM CARGO HEIGHT	31.72	31.72	27.90
H202	REAR OPENING HEIGHT	27.84	27.84	25.78
H250	TAILGATE TO GROUND HEIGHT	25.58	25.48	30.06
V2	CARGO VOLUME	91.12(2)	91.12(2)	60.76(3)

\* 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) Plus 8.0 cu. ft. under-floor storage space.
- (3) Plus 3.8 cu. ft. under-floor storage space.

# AMA Specifications Form—Passenger Car

MAKE OF CAR American Motors MODEL YEAR 1972 DATE ISSUED 9-21-71 REVISED (\*)

MODEL \_\_\_\_\_

VEHICLE FIDUCIAL MARKS

Fiducial Mark Number *	Define Coordinate Location
1 & 2 Gremlin:	Forward upper corner of 1.51" notch in down flange under rocker section.
Hornet:	" " " " " " " " " " " " "
Javelin:	" " " " 1.50" " " " " " " " "
Mat. & Amb:	" " " " 1.82" depression in down flange under rocker section at front of rocker.
3 & 4 Gremlin:	Forward upper corner of 1.51" notch in down flange under rocker section.
Hornet: Rear	" " " 1.51" " " " " " " " "
Javelin: Forward	" " " 1.12" " " " " " " " "
Mat. & Amb:	" " " " 1.82" depression in down flange under rocker section at rear of rocker.

Fiducial Mark Number	Coordinate Location of Fiducial Mark					Fiducial Mark to Ground at Curb			
	X-Gremlin	X-Hornet	Y-Both	Z-Gremlin	Z-Hornet	Gremlin	Hornet Sedan	Hornet Wagon	
<b>Gremlin &amp; Hornet:</b>									
1 Front, Left Side	9.68	9.68	-1.51	.80	.80	7.42	7.65	8.56	
2 Front, Right Side	9.68	9.68	1.51	.80	.80	7.42	7.65	8.56	
3 Rear, Left Side	62.74	70.77	-1.51	-.10	-.08	6.00	6.06	7.28	
4 Rear, Right Side	62.74	70.77	1.51	-.10	-.08	6.00	6.06	7.28	
<b>Javelin:</b>									
	X	Y	Z	Hardtop					
1 Front, Left Side	14.69	-1.50	.90	7.69					
2 Front, Right Side	14.69	1.50	.90	7.69					
3 Rear, Left Side	74.44	-1.12	1.03	7.35					
4 Rear, Right Side	74.44	1.12	1.03	7.35					
<b>Matador &amp; Ambassador:</b>									
	X	Y	Z	Matador			Ambassador		
				Sedan	Wagon	Hardtop	Sedan	Wagon	Hardtop
1 Front, Left Side	14.40	-1.82	1.66	9.64	9.46	8.73	9.60	9.11	9.54
2 Front, Right Side	14.40	1.82	1.66	9.64	9.46	8.73	9.60	9.11	9.54
3 Rear, Left Side	76.31	-1.82	1.35	8.58	9.88	7.70	8.54	9.82	8.53
4 Rear, Right Side	76.31	1.82	1.35	8.58	9.88	7.70	8.54	9.82	8.53



