

AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES, FIA, INC. 330 Vanderbilt Motor Parkway Hauppauge, L.I., N.Y. 11787 (516) 582-4040

FIA NO. 1658

GROUP

FEDERATION INTERNATIONALE DE L'AUTOMOBILE FORM OF RECOGNITION

In accordance w	ith Appendix "J" of the International Sporting Code
	Cylinder Capacity 6568 cm ³ 401 in
Manufacturer American Motors Co	orporation Model Javelin AMX
Serial # Chassis A0M798Z000001	Manufacturer American Motors Corp.
Serial # Engine A0M798Z000001	Manufacturer American Motors Corp.
Recognition valid from	List
August 1, 1970 and t	model described in this recognition form was started on he minimum production of 1.000 identical cars ations of this form, was reached on June 15.1971
A	3/4 Front View Car *
	to the vehicle identified above:
Variants n 19 Rec # list on 19 Rec # list on 19 Rec # list	Normal Evolution of the Type on 19 Rec # list on 19 Rec # list on 19 Rec # list
Stamp/Signature of National Sporting Authority	Stamp/Signature F.I.A.

(1)

3015

IMPORTANT - Underlined items must be filled in, in both metric and English values.
See Conversion Table below. SEE PAGE 10 FOR EXPLANATION OF SYMBOLS.

CAPACITIES AND DIMENSIONS

* 1.	Wheelbase:	2787	mm	109.7	inches
* 2.	Front track:	1528	mm	60.48	inches (1)
* 3.	Rear track:	1529	mm	60,50	inches (1)
4.	Overall length of car	487	cm	191.77	inches
5a	Overall width of car (at wood overall width ov	vertical p	lane through	front wheels)	inches 189 23
6.	Overall height of car		124.46	cm 50.97	inches
* 7.	Capacity of fuel tank (res	serve incl	uded)4	2.6 Litres	16U.S.Gals.
8.	Seating capacity: four (two front	, two rear)		
* 9•	Weight - Total weight of weight of weight, all require				ped on homologation spare wheel and tire,

(1) Specify ground clearance Front and Rear corresponding to Front and Rear track measurements shown above. Indicate by sketch below reference points on chassis or suspension where these dimensions are checked. These specifications are for the purpose of checking the track with specified wheel rim size with the suspension at reference setting. Differences in track resulting from use of different rim widths must be shown with suspension at reference setting. A sketch showing the rim widths superimposed is desirable.

but without fuel or repair tools

1367.6

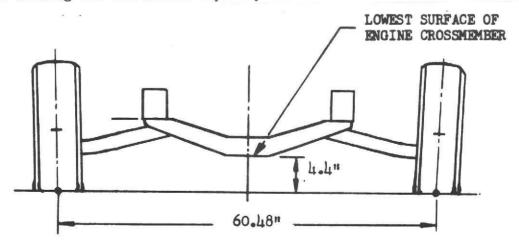


TABLE OF CONVERSIONS

1	inch	2.54 cm
1	foot	30.4794 cm
1	square inch	6.452 cm ²
1	cubic inch	16.387 cm ³

1	pound	453.593	gr
1	quart U.S	0.9464	ltrs
1	pint U.S	0.473	ltrs
1	gallon U.S	3.785	ltrs



CHASSIS AND BODYWORK (Photos A, B and C)

* 20. Chassis/body construction: (separate) (unit construction)

* 21. Unit construction: material Steel

* 22. Separate construction: material of chassis N.A.

* 23. Material of body: N.A.

* 24. Number of doors: Two Material: Steel

* 25. Material of hood: Fiberglass and Steel

- * 26. Material of trunk lid: Fiberglass and Steel
 - 27. Material of rear window: Tempered Safety Plate Glass28. Material of windshield: Laminated Safety Plate Glass
 - 29. Material of front door windows: Tempered Safety Plate Glass
 - 30. Material of rear door windows: N.A.
 - 31. Windows, actuating system: Crank
 - 32. Material of rear quarter window: Tempered Safety Plate Glass

ACCESSORIES AND UPHOLSTERY

38.	Heating, inter	cor: (yes)	s) (no)	
39.	Air conditioning	ng: (yes)		
40.	Ventilation:	(yes)		
(SP)41.	Seats, front:	Type of seat	t and upholstery Bucket, Vinyl and Fabric	o lhe
42.	Seats, front:	Weight (compl	plete with supports and rails out of car) 18.6 kg 40.	9_108
	Check:	Bench	Bucket A Console included	
43.	Seats, rear:	Type of seat	t and upholstery Bench, Vinyl and Fabric	
44.	Bumper, front:	Material:	Steel Weight: 5.3 kg 12.0 108	
45-	Bumper, rear:	Material:	Steel Weight: 6.6 kg 14.5 lbs	

WHEELS

50。 51。	Type: Pressed S Weight: (per whee	l, without	tire)	8_5kg	lbs
52. 53.	Method of attachme Rim diameter:	nt: 355.6	mm	14.0	inches
54.	Rim width:	152.4	mm	6.0	inches

STEERING

- 60. Type: Manual
 61. Servo-assistance: (yes) (no)
 62. Number of turns of steering wheel from lock to lock: 4.0
- 63. In case of servo-assistance: 3.2



SUSPENSION

* 70. Front suspension (Photo D) type: Independent

* 71. Type of spring: Coil

(SP)72. Stabilizer (if fitted): Yes

73. Number of shock absorbers: One per Wheel

74. Type: Telescopic

* 78. Rear suspension (Photo E) type: Solid Axle

* 79. Type of spring: Semi-Elliptic, Multi-Leaf

(SP)80. Stabilizer (if fitted): Yes

81. Number of shock absorbers: One per Wheel

82. Type: Telescopic

BRAKES (Photos F and G)

* 90. Method of operation: Hydraulic (SP)91. Power assisted (if fitted,) type: Vacume 92. Number of master cylinders: One (dual)

		From	<u>nt</u>	Rear	<u>r</u>
93. 94.	Number of cylinders per wheel: 0 Bore of wheel cylinder:	ne _48.8 _ mm	in	22.4 mm	<u>88</u> in
(SP)	Drum Brakes:				
95• 96• 97• 98• 99•	Inside diameter: Length of brake linings: Width of brake linings: Number of shoes per brake: Two Total area per brake:	mm mm mm mm ²	in in in2	254.0 mm 491.24 mm 44.75 mm 21,870 mm ²	10.0 in 19.34 in 1.75 in 33.9 in ²
(SP)	Disc Brakes:				
100. 101. 102. 103. 104.		279.4 mm 25.4 mm 152.6 mm 45.7 mm	11.0 in 1.0 in 6.01 in 1.80 in	mm mm mm mm	inininin
105.	Total area per brake:	14,39/,4 mm		Fifth	



ENGINE (Photos J and K)

* 130. * 131. * 132. * 133. * 134. * 135. * 136.	Number of cylinders: Eight Cylinder arrangement: 90° V Wankel: # of elements & basic dimensions- Bore: 105.79 mm 4.165 inches Stroke: 93.47 mm 3.68 inches
* 137. * 138. * 139. * 140. * 141. (SP)142.	Material of sleeves (if fitted): None Cylinder head material: Cast Iron Number of inlet ports: Eight (four per head) Number of exhaust ports: Eight (four per head)
(SP)143. (SP)144. (SP)145. (SP)146.	Volume of combustion chamber: 110.43 cm ³ 6.74 cu in Piston, material: Aluminum Number of rings: Three (two compression, one oil) Distance from gudgeon pin centre line to highest point of piston crown: 40.67 mm 1.60 inches
* 147. * 148. * 149. * 150. 151. 152. (SP)153.	Crankshaft, type: (integral) (sectioned) Crankshaft, number of main bearings: Five Material of bearing cap: Cast Iron System of lubrication: (dry sump) (oil in sump) Lubricant capacity: 4.73 litres
* 154. 155. (SP)156. (SP)157.	
* 158. * 159.	Connecting rod, big end, type: Alloy LinDiameter: 53.09 mm 2.0934095inches
(SP)160. (SP)161. (SP)162. (SP)163. (SP)164.	



FOUR CYCLE ENGINES

- * 170. Number of camshafts: One
- * 171. Location of camshaft: In Block, Center of Vee
- * 172. Type of camshaft drive: Chain and Sprocket
- * 173. Type of valve operation: Push Rod

INLET (see Photo P) +

- 180. Material of inlet manifold: Cast Iron
- 181. Overall diameter of valves:
 51.44 mm
 2.025 inches

 (SP)182. Maximum valve lift:
 11.6 mm
 .457 inches
 - 183. Number of valve springs: Eight
 - 184. Type of spring: Coil
 - * 185. Number of valves per cylinder: One
- (SP)186. Tappet clearance for checking timing (cold) 0.0 mm 0.0 inches
- (SP) 187. Valves open at (with tolerance for tappet clearance indicated): 25.57 BTC
- (SP) 188. Valves close at (with tolerance for tappet clearance indicated): 90.75° ABC
- (SP)189. Air filter: (wet) (dry) Cartridge type: (yes) (no)

EXHAUST (see Photo Q)

- 195. Material of exhaust manifold: Cast Iron
- 196. Overall diameter of valves:
 42.67 mm
 1.68 inches

 (SP)197. Maximum valve lift:
 11.6 mm
 .457 inches
 - 198. Number of valve springs: Eight
 - 199. Type of spring: Coil
 - * 200. Number of valves per cylinder: One
- (SP)201. Tappet clearance for checking timing (cold) 0.0 mm 0.0 inches
- (SP)202. Valves open at (with tolerance for tappet clearance indicated): 80.80° BBC
- (SP)203. Valves close at (with tolerance for tappet clearance indicated): 42.75° ATC
- (SP)204. Inside diameter of exhaust manifold outlet: 2.25 in.

CARBURETION (see Photo N)

- 210. Number of carburetors fitted: One
- (SP)211. Type: Four Barrel Down Draft
- (SP)212. Make: American Motors
- (SP)213. Model: AM 4300
- 214. Number of mixture passages per carburetor: Four 42.9 sec. 1.69 sec.
- SP)215. Flange hole diameter of exit port of carburetor: 29.6 primm 1.56 prinches
- (SP)216. Depending on type of carburetor, indicate: diameter at throat of venturi/s at the plane of maximum restriction. Dimension of mixture passage at the point of maximum restriction with the piston in its maximum open position (example SU type):

 31.6 mm 1.25 inches

⁺ For additional information concerning two-stroke engines and supercharged engines, add supplementary page

INJECTION (if fitted)

220. Make of pump: N.A. 221. Number of plungers: N.A.

(SP)222. Model or type of pump: N.A. 223. Total number of injectors: N.A.

224. Location of injectors: N.A.

(SP)225. Minimum diameter of inlet pipe: N.A. mm N.A. inches

ENGINE ACCESSORIES

(SP)230. Fuel pump: mechanical and/or electrical

Number fitted: One 231.

232. Type of ignition system: Transistorized

233. Number of distributors: One

234. Number of ignition coils: One

235. Number of spark plugs per cylinder: One

(SP)236. Generator type: (dynamo) (alternator) Number: One

237. Method of drive: Belt and Pulley

238. Voltage of generator: Twelve 239. Battery, number: One

240. Location of battery: Engine Compartment

241. Voltage of battery: 12

ENGINE & CAR PERFORMANCE (as declared by manufacturer in catalog)

(SP)250. Horsepower, maximum engine output: 255 (SAE) at: 4600 rpm (indicate SAE or DIN)

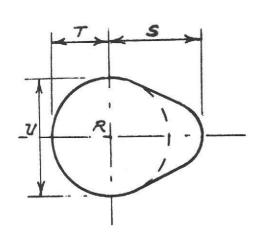
(SP)251。 Maximum rpm: 4600

(SP) Output at that figure: 255

at: 3300 rpm (SP)252. Maximum torque: 345

(SP)253. Maximum speed: N.A. km/hour N.A. miles/hour

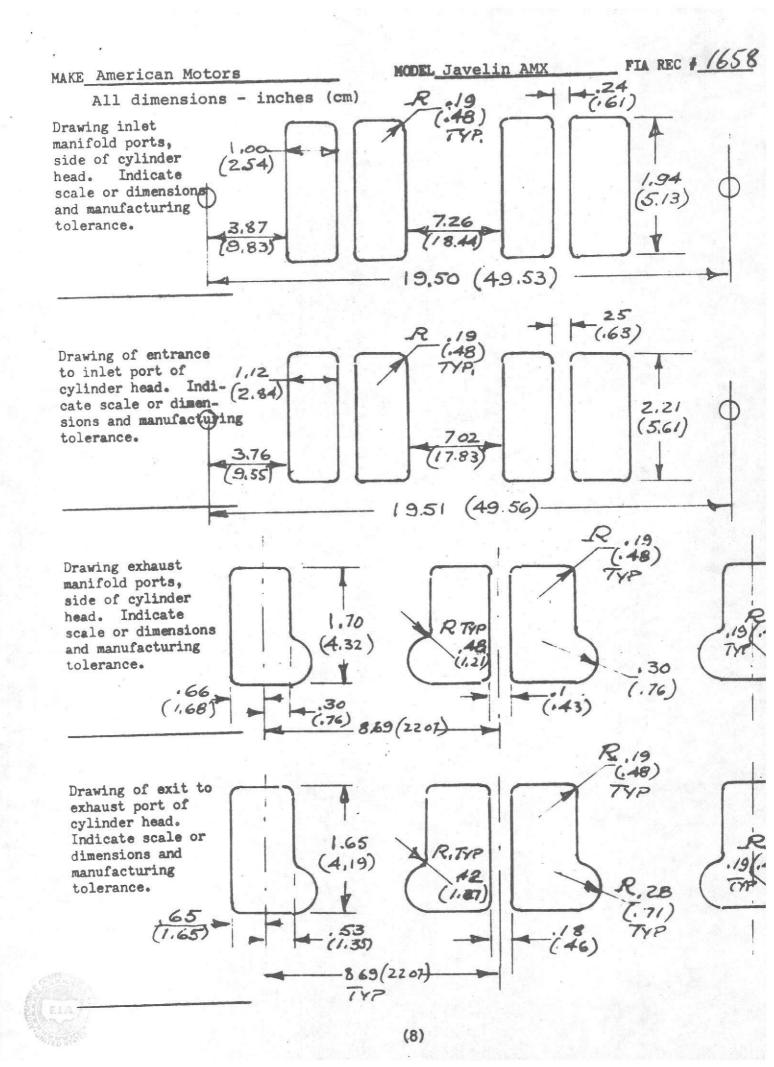
255. CAM



(SP)	Inlet	cam			
	S =	25.4	mm	1.0	inches
	T =	20.3	mm	.8	inches
	II =	20 1	177170	1 5	inches

(SP)	E	xhai	ust cam			
	S	=	25.4	mm	1.0	inches
	T	=	20.3	mm	.8	inches
	U	=	38.1	mm	1.5	inches





DRIVE TRAIN

264.

	Clutch			
260.	Type of clutch: Dry Plate	261. Number of plates:	$0_{ m ne}$	
	Diameter of clutch plates:	279.4 mm	11.00	inches
263.	Inside diameter of lining:	164.4 mm	6.5	inches
	Outside diameter of lining:	279.4 mm	11.00	inches

Manual Link

Gear Box (Photo H)

Method of operation:

* 270. Manual type, make: Warner Gear Method of operation: External Mech. Linkage

* 271. Number of gear box forward ratios: Four

272. Synchronized forward ratios: Four

273. Location of gear-shift: Floor

* 274. Automatic, make: Borg-Warner Type: Torque Converter and Planetary Gear

Number of forward ratios: Three * 275. Location of gear-shift: 276.

	Manual		Automatic			Alternative Manual/Automatic				ic
277.	Ratio	No. Teeth	Ratio	No. Te	eth Ratio	No.	Teeth	Ratio	No.	Teeth
1	2.23	22-26 18-34 22-26	2.40							
2	1.77	18-27	1.47							
3	1.35	22-26 22-23	1.00							
4	1.00	Direct								
5										
6		00.00								
Revers	2.16	16=18 16=38	2.00							

278. Overdrive, type: None

279. Forward gears on which overdrive can be selected: None

280. Overdrive ratio: None

FINAL DRIVE

290. Type of final drive: Hotchkiss, Live Axle

291.

Type of differential: Hypoid Ring Gear and Pinion
Type of limited slip differential (if fitted): Friction 292.

Final drive ratio: 293. 3.54 3.91 Number of teeth: 39/11 43/11



FIA REC. #/65

IMPORTANT - For cars engaged in Group 2 (Special Touring) and Group 4 (Special Grand Touring) conformity with characteristics identified by symbol (SP) and entire page 8 IS NOT REQUIRED.

For cars engaged in Group 5 (Sport) only the characteristics identified by asterisks (*) need be verified.

EQUIPMENT AND ACCESSORIES available as options or production installed must indicate the part number of the option and the item number affected.

	<u>Option</u>	Part Number
#151 #100-105 #100-105 #100-105	Dry Sump Oil System Girling Disc Brake Assembly (RF) Girling Disd Brake Assembly (LF) Girling Disc Brake Assembly (RR) Girling Disc Brake Assembly (LR)	8122286 4485732 4485733 448573 4 4485735



DRY SUMP OIL SYSTEM



DISC BRAKE ASSEMBLY





FIA REC # 1658

TABLE OF TOLERANCES

-Tolerances for all machining, except bore and stroke: +0.2%

(articles 156, 158, 159, 181, 196, 215, 216, 225, 262, 263, and also the orifices appearing on page 8 of the recognition form.)

-Article 146: telerance: + 0.5%

-Unfinished castings: -2%

-Cam-lift: +11%

(articles 132, 197, 255.)

-Weight (articles 160 to 164) : + 7% - 3%

-Width of the car at the front and rear axles: + 1% - 0.3%

-Track (article 1) : + 0.5%

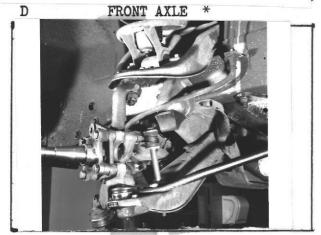
Combustion chamber.

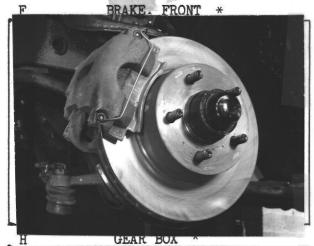
a) Volume of combustion chamber: 110.43 cc

b) Head gasket thickness (compressed): 1.118 mm .044 in -.005







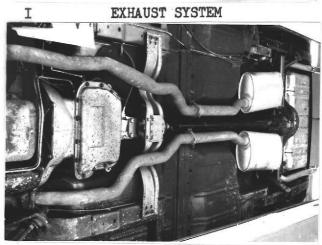


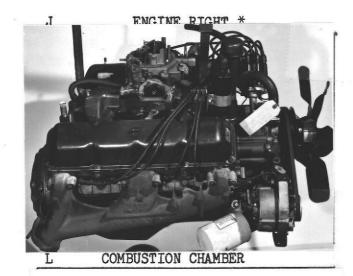


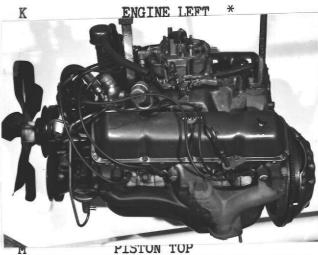


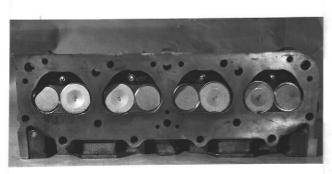




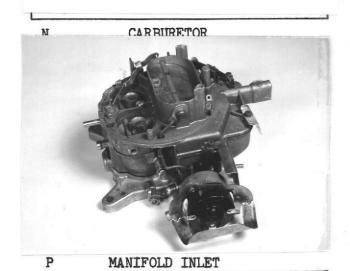


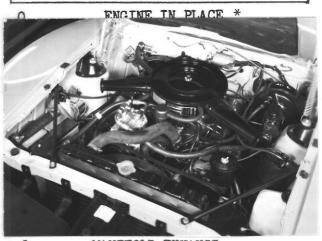


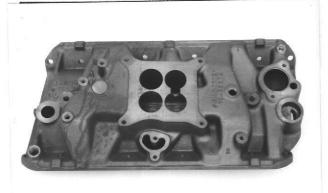






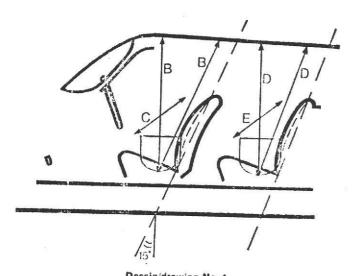


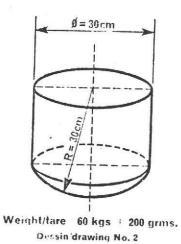






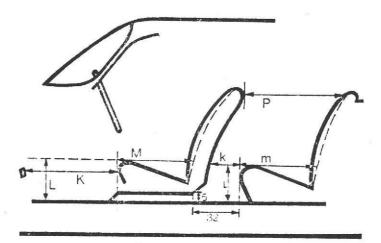






Cessin, drawing	NO.

Dimension		Inches	MM	
В	=	36.3	994.52	
С	=	57.10	1450.3	
D	=	32,4	887.76	
E	=	56.10	1424.94	
		1//		



Dessin/drawing No. 3

Dimens	ion	Inches	MM	Dimens	<u>ion</u>	Inches	MM
L	=	9.4	238.8	1	=	13.7	348.0
М	=	17.6	447.0	m	=	19.35	491.49
K	=	18.3	464.8	k	=	5.5	139.7
P	=	24.2	615.7				

