

John M. Bauer
5321 Honda Ave
Atascadero, Ca.

FIA #1637

4/15/74
Bm

Bob Swain
American Motors

FIA #1637

3/20/75
Bm

David Howes
Howes Motors
Bedfordshire England

FIA #1637
1586

3/22/73
Bm

Roger Wright
Joeko's Racing Eqmt Inc
Poughkeepsie, N.Y. 12607

FIA #1637

7/30/73
Bm

Mark Larsen
6232 Bryant Ave S
Richfield, Minn. 55423

FIA #1637

10/1/73

Harvey Stenberg
I M S A

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Cable Address: "ACCUSFIA" Hauppauge, L.I., N.Y.

AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES, FIA, INC.

330 VANDERBILT MOTOR PARKWAY, HAUPPAUGE, L.I., N.Y. 11787

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

PRODUCTION CERTIFICATE

Date February 29, 1972

MANUFACTURER AMERICAN MOTORS CORPORATION

MODEL DESIGNATION 1969-70 Javelin - 390

TYPE DESIGNATION 2-Door Hardtop

PRODUCTION PERIOD: From February, 1968
To July, 1970

Monthly Production

I hereby certify that the production mentioned hereabove concerns cars which are entirely completed and in conformity with the specifications of the recognition form submitted for the said model and type.

Signed for Manufacturer: R. J. Swain

Title: Manager of Performance Activities

Production Verification Date _____

By _____

Title _____

Month/Year	Number
2/68-7/68	785
8/68-7/69	3,721
8/69-7/70	2,462
TOTAL	6,968
REMARKS:	



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

FIA NO. 1637
 GROUP II

FEDERATION INTERNATIONALE DE L'AUTOMOBILE
 FORM OF RECOGNITION

In accordance with Appendix "J" of the International Sporting Code

Cylinder Capacity 6390.9 cm³ 390 in³

Manufacturer American Motors Corp.

Model Javelin 2-dr. htdp.

Serial # Chassis H 1000 . 001 & Up

Manufacturer American Motors Corp.

Serial # Engine _____

Manufacturer American Motors Corp.

Recognition valid from _____

List _____

The manufacturing of the model described in this recognition form was started on February, 1968 and the minimum production of 1,000 identical cars, in accordance with the specifications of this form, was reached on _____

A 3/4 Front View Car *



The following amendments apply to the vehicle identified above:

Variants
 on 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

John H. O'Keefe

Stamp/Signature
 F.I.A.



[Signature]

(1)

FEDERATION INTERNATIONALE
 DE L'AUTOMOBILE
 8, Place de la Concorde, PARIS-8

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: 2768.6 mm 109 inches
- * 2. Front track: 1516.4 mm 59.7 inches (1)
- * 3. Rear track: 1447.8 mm 57.0 inches (1)
- 4. Overall length of car 458.1 cm 191.0 inches
- 5. Overall width of car (at widest point) 182.6 cm 71.9 inches
- 5a Overall width of car (at vertical plane through front wheels) _____ cm _____ in
- 5b Overall width of car (at vertical plane through rear wheels) _____ cm _____ in
- 6. Overall height of car 130.8 cm 51.5 inches
- * 7. Capacity of fuel tank (reserve included) 71.0 Litres 19 U.S.Gals.
- 8. Seating capacity: 2front/2rear
- * 9. Weight - Total weight of vehicle with normal equipment described on homologation sheet, all required lubricants and coolants and one spare wheel and tire, but without fuel or repair tools
1462 kg 3224 lbs

(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.

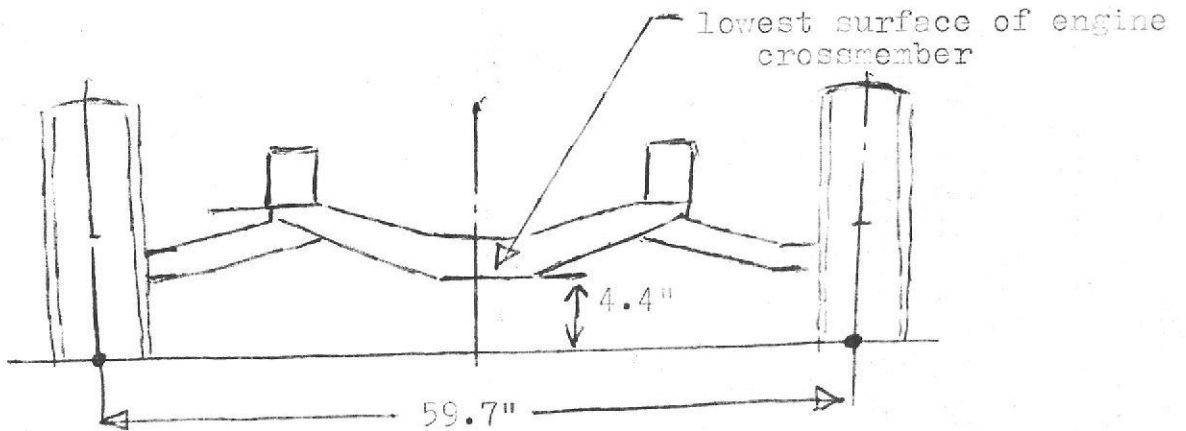


TABLE OF CONVERSIONS

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



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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 steel
 * 23. Material of body: steel
 * 24. Number of doors: two Material: steel
 * 25. Material of hood: steel
 * 26. Material of trunk lid: steel
 27. Material of rear window: tempered safety plate glass
 28. Material of windshield: laminated safety plate glass
 29. Material of front door windows: tempered safety glass
 30. Material of rear door windows: none
 31. Windows, actuating system: hand crank
 32. Material of rear quarter window: tempered safety glass

ACCESSORIES AND UPHOLSTERY

38. Heating, interior: (yes) (no) (optional)
 39. Air conditioning: (yes) (no) (optional)
 40. Ventilation: (yes) (no)
 (SP) 41. Seats, front: Type of seat and upholstery bucket, vinyl and or fabric
 42. Seats, front: Weight (complete with supports and rails out of car) 18.6 kg 40.9 lbs
 Check: Bench _____ Bucket X Console included _____
 43. Seats, rear: Type of seat and upholstery bench, vinyl and or fabric.
 44. Bumper, front: Material: steel Weight: 10.0 kg 22.0 lbs
 45. Bumper, rear: Material: steel Weight: 6.6 kg 14.5 lbs

WHEELS

50. Type: pressed steel (optional magnesium, aluminum, steel or combination)
 51. Weight: (per wheel, without tire) 8.5 kg 18.7 lbs
 52. Method of attachment: five nuts
 53. Rim diameter: 355.6 mm 14.0 inches
 54. Rim width: 152.4 mm 6.0 inches

STEERING

60. Type: manual (saginaw recirculating ball)
 61. Servo-assistance: (yes) (no) (optional)
 62. Number of turns of steering wheel from lock to lock: 3 1/2 approx.
 63. In case of servo-assistance: 3 1/4 approx.

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SUSPENSION

- * 70. Front suspension (Photo D) type: independant
- * 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: live axle, Hotchkiss
- * 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: vacuum diaphragm (optional)
- 92. Number of master cylinders: one, duplex type

	<u>Front</u>		<u>Rear</u>	
93. Number of cylinders per wheel:	4-disc		1-drum	
94. Bore of wheel cylinder:	<u>49.28</u> mm	<u>1.94</u> in	<u>41.40</u> mm	<u>1.63</u> in
(SP) <u>Drum Brakes:</u>				
95. Inside diameter:	_____ mm	_____ in	<u>254.0</u> mm	<u>10.0</u> in
96. Length of brake linings:	_____ mm	_____ in	<u>495.3</u> mm	<u>19.5</u> in
97. Width of brake linings:	_____ mm	_____ in	<u>63.5</u> mm	<u>2.5</u> in
98. Number of shoes per brake:				
99. Total area per brake:	_____ mm ²	_____ in ²	<u>31,451.6</u> mm ²	<u>48.75</u> in ²
(SP) <u>Disc Brakes:</u>				
100. Outside diameter	<u>302.3</u> mm	<u>11.9</u> in	_____ mm	_____ in
101. Thickness of disc:	<u>31.8</u> mm	<u>1.25</u> in	_____ mm	_____ in
102. Length of brake linings:	<u>132.1</u> mm	<u>5.2</u> in	_____ mm	_____ in
103. Width of brake linings:	<u>48.3</u> mm	<u>1.9</u> in	_____ mm	_____ in
104. Number of pads per brake:				
105. Total area per brake:	<u>63,80.4</u> mm ²	<u>19.8</u> in ²	_____ mm ²	_____ in ²

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ENGINE (Photos J and K)

- * 130. Cycle: four
- * 131. Number of cylinders: eight (8)
- * 132. Cylinder arrangement: 90° V Wankel: # of elements & basic dimensions-
- * 133. Bore: 105.79 mm 4.165 inches
- * 134. Stroke: 90.78 mm 3.574 inches
- * 135. Capacity per cylinder: 798.86 cm³ 48.75 cu in
- * 136. Total cylinder capacity: 6390.9 cm³ 390.00 cu in

- * 137. Material of cylinder block: cast iron
- * 138. Material of sleeves (if fitted): none
- * 139. Cylinder head material: cast iron Number fitted: two/engine
- * 140. Number of inlet ports: 8 (one per cylinder)
- * 141. Number of exhaust ports: 8 (one per cylinder)
- (SP) 142. Compression ratio: 10.0
- (SP) 143. Volume of combustion chamber: 88.82 cm³ 5.42 cu in
- (SP) 144. Piston, material: aluminum
- (SP) 145. Number of rings: two compression, one oil
- (SP) 146. Distance from gudgeon pin centre line to highest point of piston crown: 39.65 mm 5.42 inches

- * 147. Crankshaft: (~~cast~~) (forged)
- * 148. Crankshaft, type: (integral) (~~sectioned~~)
- * 149. Crankshaft, number of main bearings: five (5)
- * 150. Material of bearing cap: cast iron
- 151. System of lubrication: (~~dry sump~~) (oil in sump)
- 152. Lubricant capacity: 4.73 litres 10 pints 5 quarts U.S.
- (SP) 153. Oil cooler: (~~yes~~) (no)
- * 154. Method of engine cooling: water
- 155. Capacity of cooling system: 13.25 litres 28 pints 14 quarts U.S.
- (SP) 156. Cooling fan (if fitted) diameter: 35.56 cm 14 inches
- (SP) 157. Number of blades of cooling fan: six (6)

BEARINGS

- * 158. Crankshaft, main, type: alloy Diameter: 69.85 mm 2.75 inches
- * 159. Connecting rod, big end, type: alloy Diameter: 57.15 mm 2.25 inches

WEIGHTS

- (SP) 160. Flywheel (clean): 14.1 kg 31.0 lbs
- (SP) 161. Flywheel with clutch (all rotating parts): 24.1 kg 53.1 lbs
- (SP) 162. Crankshaft: 27.8 kg 61.3 lbs
- (SP) 163. Connecting Rod: .8 kg 1.7 lbs
- (SP) 164. Piston with rings and pin: .7 kg 1.6 lbs

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FOUR CYCLE ENGINES

- * 170. Number of camshafts: one (1)
- * 171. Location of camshaft: in block, center of V
- * 172. Type of camshaft drive: chain
- * 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: 11.607 mm .457 inches
- 183. Number of valve springs: eight (one per valve)
- 184. Type of spring: coil
- * 185. Number of valves per cylinder: one inlet
- (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): 52° (BTC)
- (SP) 188. Valves close at (with tolerance for tappet clearance indicated): 122° (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: 41.28 mm 1.625 inches
- (SP) 197. Maximum valve lift: 11.607 mm .457 inches
- 198. Number of valve springs: eight (one per valve)
- 199. Type of spring: coil
- * 200. Number of valves per cylinder: one exhaust
- (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): 108° (BBC)
- (SP) 203. Valves close at (with tolerance for tappet clearance indicated): 74° (ATC)
- (SP) 204. Inside diameter of exhaust manifold outlet: 2.5 in.

CARBURETION (see Photo N)

- 210. Number of carburetors fitted: one (1)
- (SP) 211. Type: four barrel downdraft
- (SP) 212. Make: American Motors
- (SP) 213. Model: AM 4300
- 214. Number of mixture passages per carburetor: four (4)
- (SP) 215. Flange hole diameter of exit port of carburetor: 42.92 mm 1.69 inches
- (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): 37.75 mm 1.25 inches

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



INJECTION (if fitted)

- 220. Make of pump: none
- (SP) 222. Model or type of pump: none
- 224. Location of injectors: none
- (SP) 225. Minimum diameter of inlet pipe: _____ mm _____ inches
- 221. Number of plungers: none
- 223. Total number of injectors: none

ENGINE ACCESSORIES

- (SP) 230. Fuel pump: mechanical and/or electrical
- 231. Number fitted: one (1)
- 232. Type of ignition system: battery/coil (transistor optional)
- 233. Number of distributors: one (1)
- 234. Number of ignition coils: one (1)
- 235. Number of spark plugs per cylinder: one (1)
- (SP) 236. Generator type: ~~(dynamo)~~ (alternator) Number: one (1)
- 237. Method of drive: V belt
- 238. Voltage of generator: 12
- 239. Battery, number: one (1)
- 240. Location of battery: right front, engine compartment
- 241. Voltage of battery: 12 volts

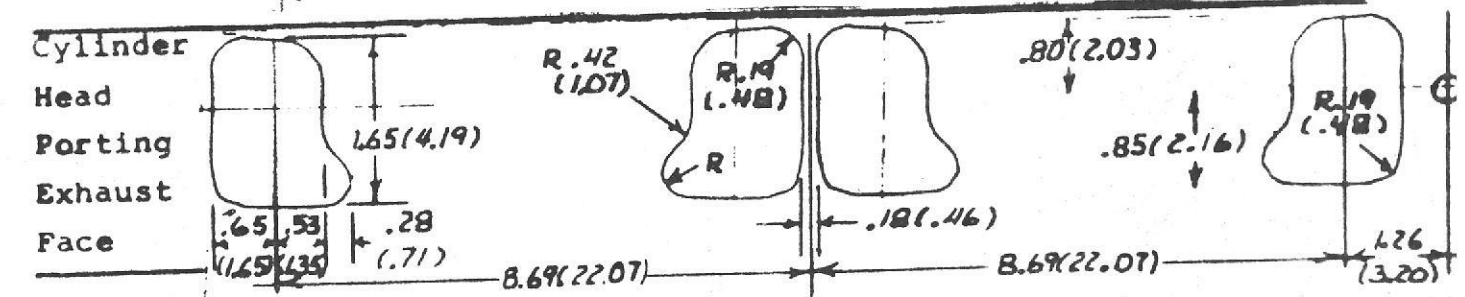
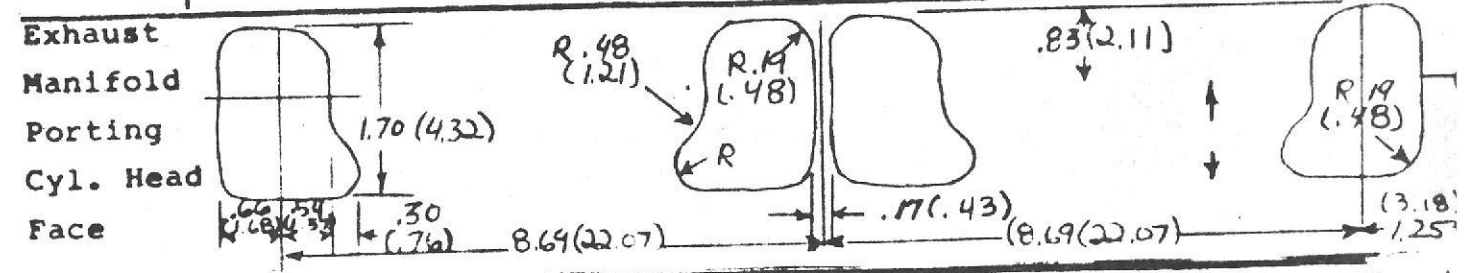
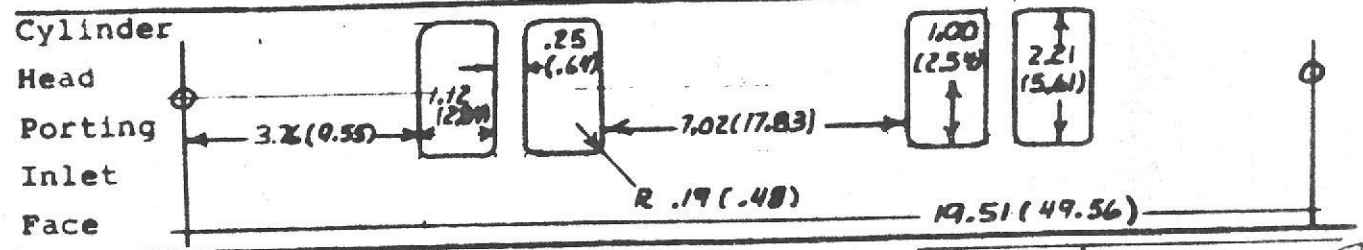
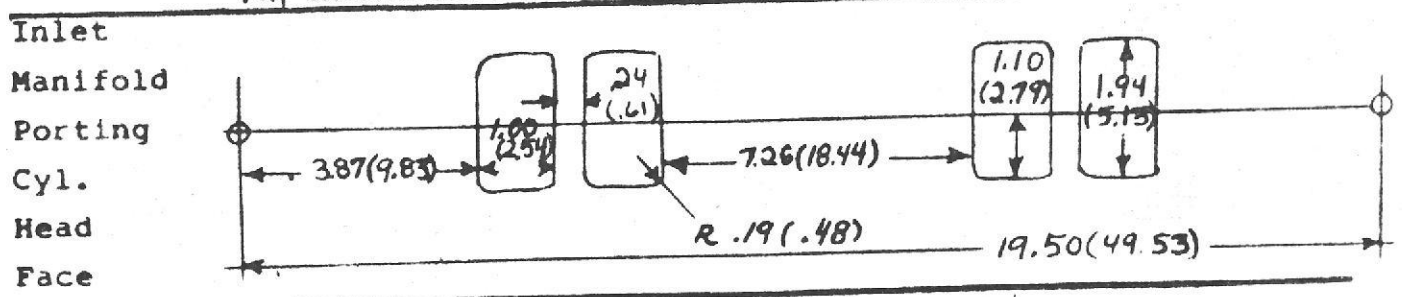
ENGINE & CAR PERFORMANCE (as declared by manufacturer in catalog)

- (SP) 250. Horsepower, maximum engine output: 325 at: 5000 rpm
(indicate SAE or DIN)
- (SP) 251. Maximum rpm: 5000 (SP) Output at that figure: 325
- (SP) 252. Maximum torque: 420 at: 3200 rpm
- (SP) 253. Maximum speed: NA km/hour NA miles/hour

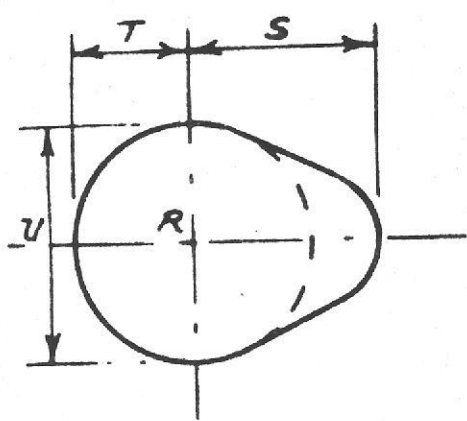
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ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES. All dimensions - inches (cm) All tolerances - ± inch, 0.03cm



CAM



Inlet cam			
S =	25.4	mm	1.0 in
T =	20.3	mm	.8 in
U =	38.1	mm	1.5 in
Exhaust cam			
S =	25.4	mm	1.0 in
T =	20.3	mm	.8 in
U =	38.1	mm	1.5 in

STAMP

STAMP

John B. Clavian



DRIVE TRAIN

Clutch

- 260. Type of clutch: dry plate
- 261. Number of plates: one (1)
- 262. Diameter of clutch plates: 266.7 mm 10.5 inches
- 263. Inside diameter of lining: 165.10 mm 6.5 inches
- Outside diameter of lining: 266.7 mm 10.5 inches
- 264. Method of operation: manual link

Gear Box (Photo H)

- * 270. Manual type, make: Warner Gear Method of operation: manual link
- * 271. Number of gear box forward ratios: four (4)
- 272. Synchronized forward ratios: four (4)
- 273. Location of gear-shift: floor
- * 274. Automatic, make: Borg-Warner Type: torque converter and planetary gear
- * 275. Number of forward ratios: three (3)
- 276. Location of gear-shift: floor

277.	Manual		Automatic		Alternative Manual/Automatic			
	Ratio	No. Teeth	Ratio	No. Teeth	Ratio	No. Teeth	Ratio	No. Teeth
1	2.43	21-27 18-34	2.40		2.23	22-26 18-34	2.64	20-28 18-34
2	1.61	21-27 20-25	1.47		1.77	22-26 18-27	2.10	20-28 18-27
3	1.23	21-27 22-23	1.00		1.35	22-26 22-23	1.46	20-28 22-23
4	1.00	direct			1.00	direct	1.00	direct
5								
6								
Reverse	2.35	21-27 18-16 19-39	2.00		2.16	22-26 16-18 19-39	2.55	20-28 16-18 19-39

- 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
- * 292. Type of limited slip differential (if fitted): friction or positive locking
- 293. Final drive ratio: 2.87:1, 3.15:1, 3.54:1, 3.73:1, 3.91:1, 4.10:1, 4.44:1
~~Number of teeth:~~ 5.00:1
 Number of teeth: 43/15, 41/13, 39/11, 41/11, 43/11, 41/10, 40/9, 45/9

John L. Clonan



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.

ITEM 100

PART NO.

DESCRIPTION

AM 4485734R

Rear Disc Brake Assembly Right

AM 4485735L

Rear Disc Brake Assembly Left

AM 4485743

Oil Cooler, Engine

AM 4485744

Oil Cooler, Differential and Transmission

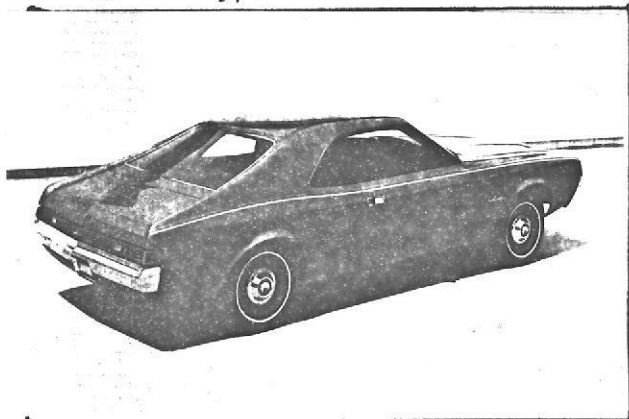
Dry Sump Lubrication System

John L. Chocan

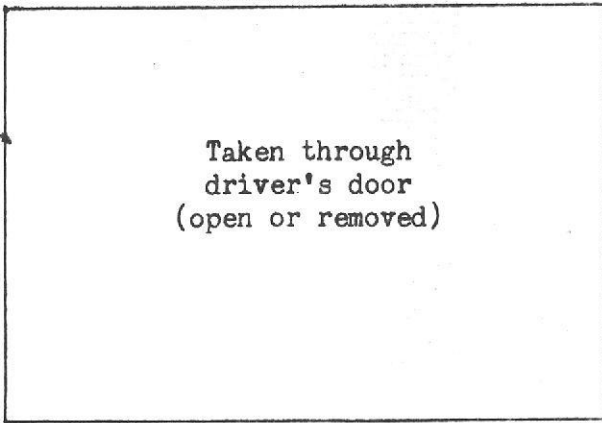


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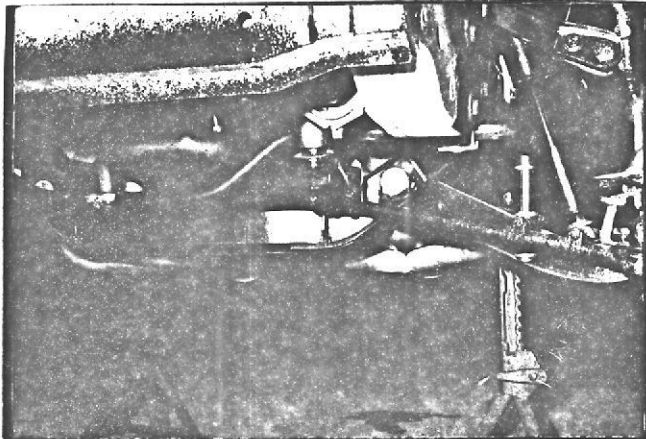
B 3/4 REAR CAR *



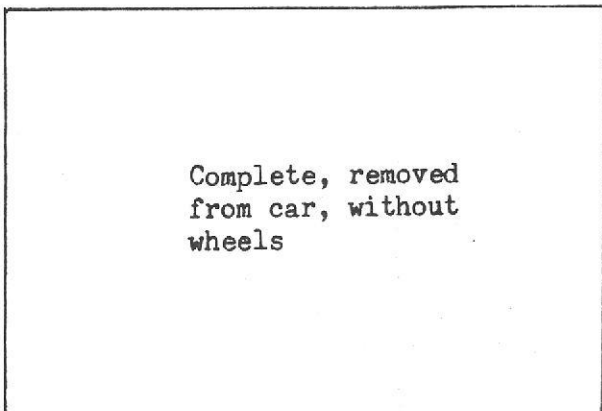
C INTERIOR CAR



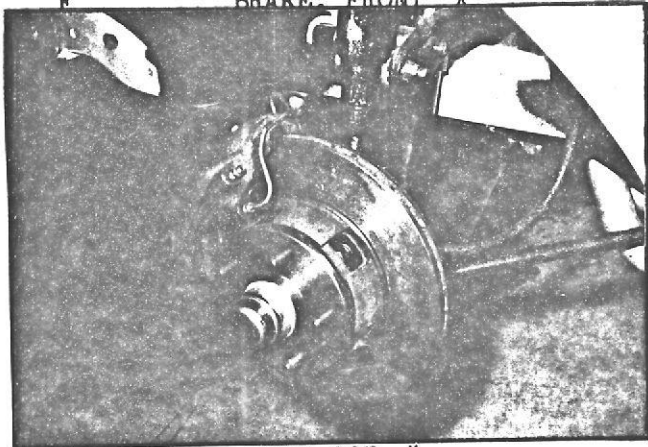
D FRONT AXLE *



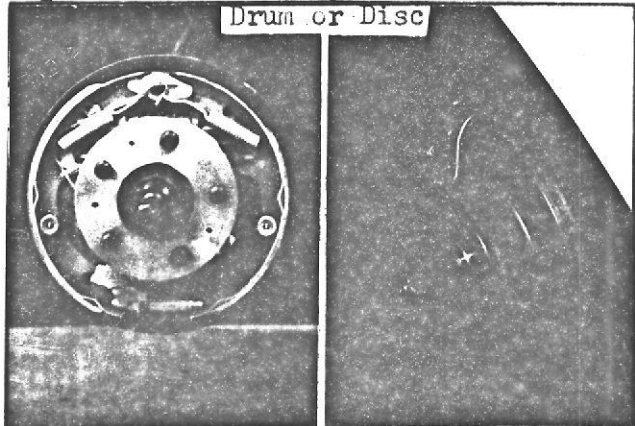
E REAR AXLE *



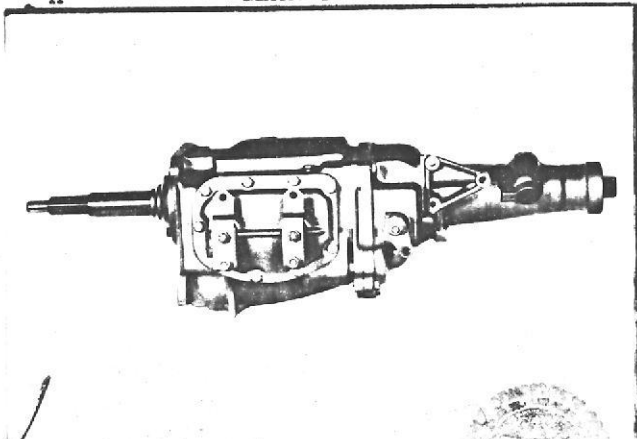
F BRAKE, FRONT *



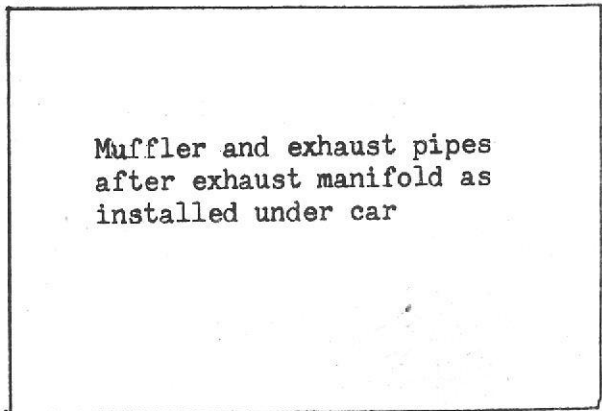
G BRAKE, REAR *
Drum or Disc



H GEAR BOX *



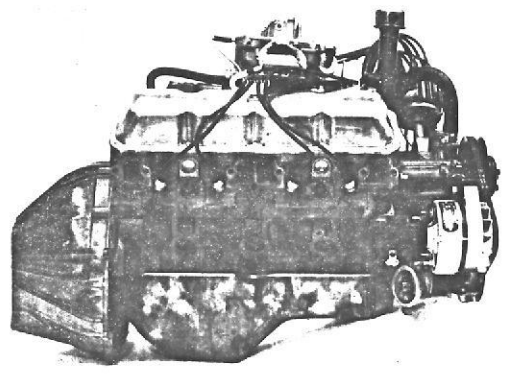
I EXHAUST SYSTEM



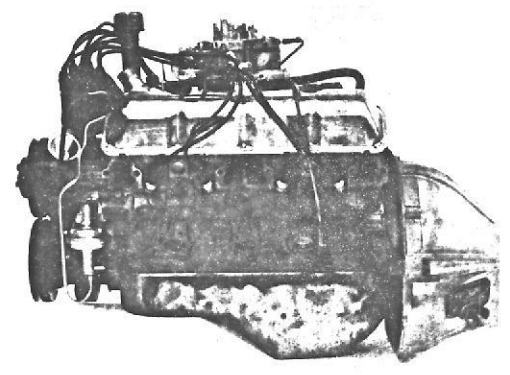
John V. Cowan



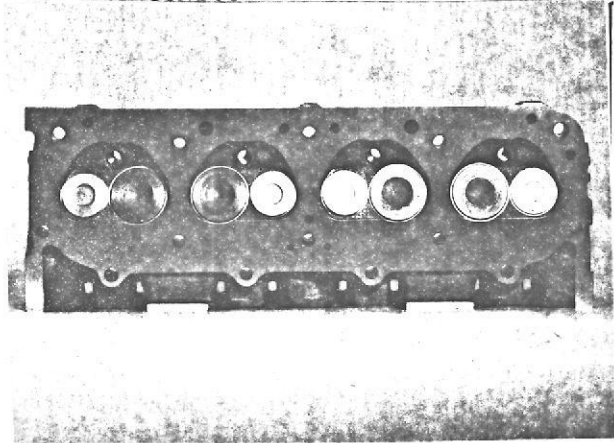
J ENGINE RIGHT *



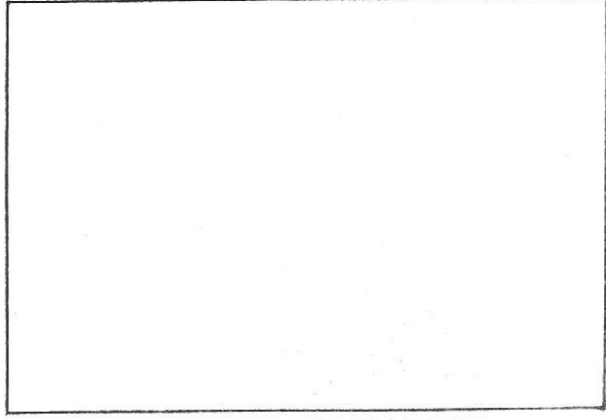
K ENGINE LEFT *



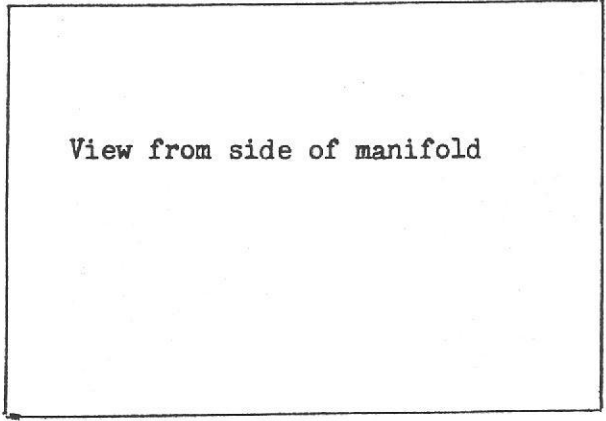
L COMBUSTION CHAMBER



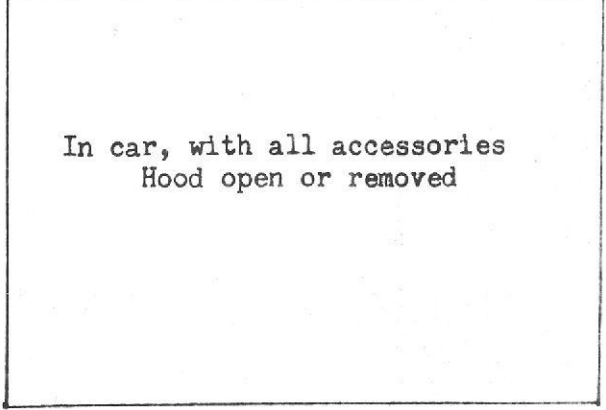
M PISTON TOP



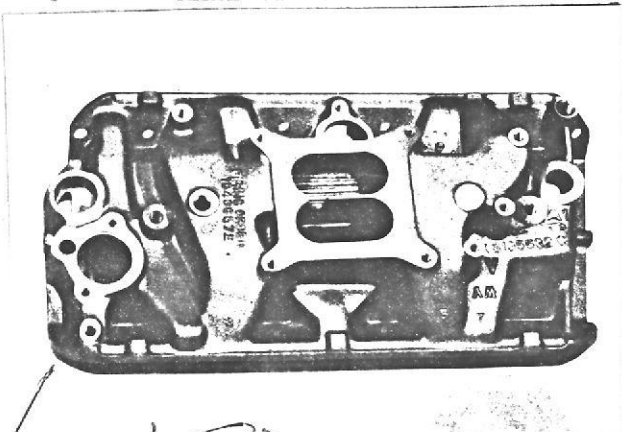
N CARBURETOR



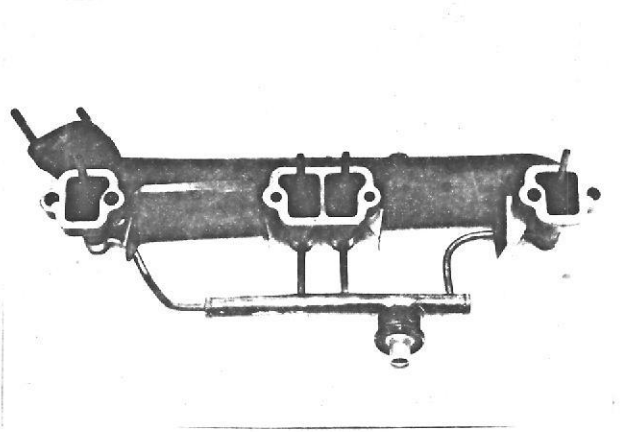
O ENGINE IN PLACE *



P MANIFOLD INLET



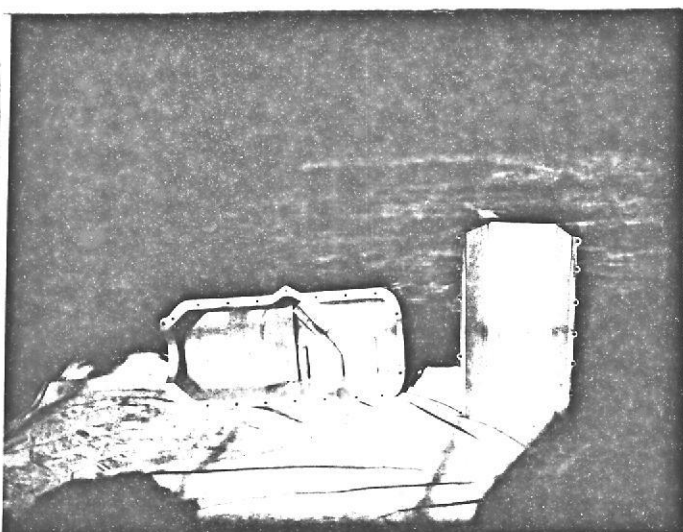
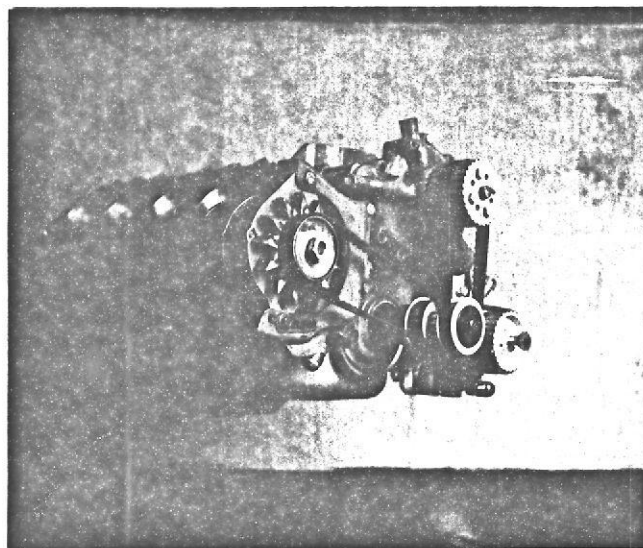
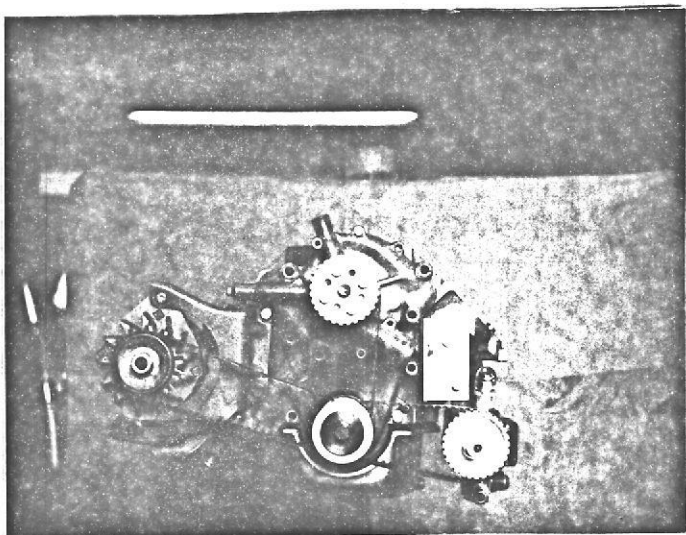
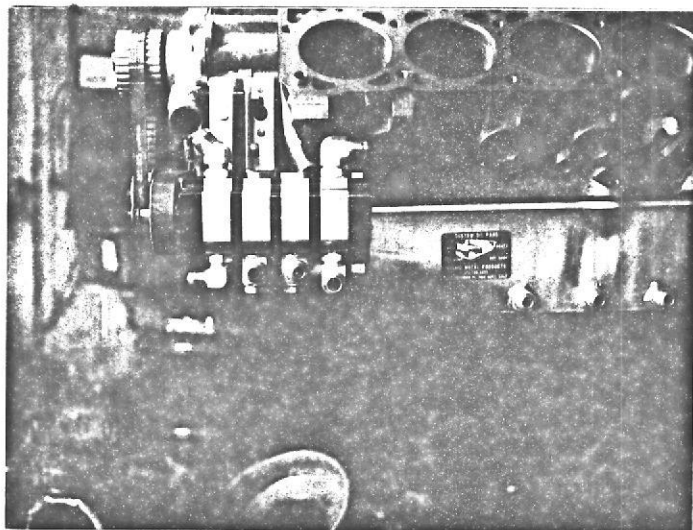
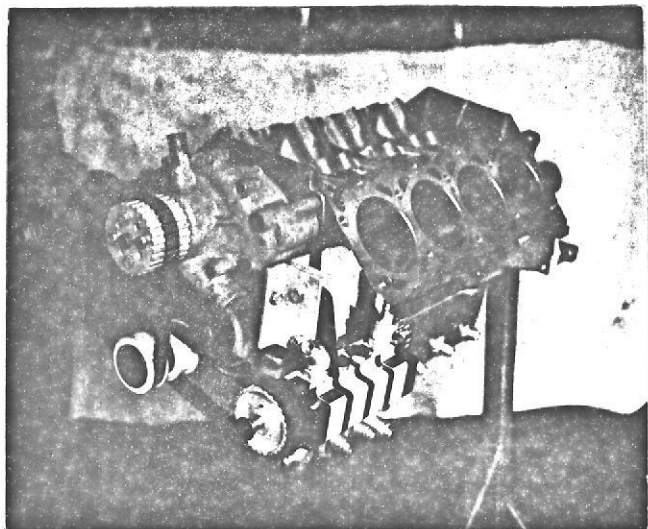
Q MANIFOLD EXHAUST



John V. Cowan



Dry Sump Lubrication System



John L. Ocean



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.

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

SUPPLEMENTARY INFORMATION OF ITEM 93:

BRAKES

93. Optional rear disc brake: 4 cylinders (Photo 1)

DISC BRAKES

	<u>Rear</u>	
100. Diameter, outside	289.6 mm	11.4 in
101. Thickness of disc	20.6 mm	.81 in
102. Lining - Length	121.9 mm	4.8 in
103. Lining - Width	45.7 mm	1.8 in
105. Area, total - per brake	5570.83mm ²	17.73 in ²

John L. Clavan

