



AUTOMOBILE COMPETITION COMMITTEE  
FOR THE UNITED STATES, F.I.A., INC.

433 MAIN ST.  
STAMFORD, CONN. 06901  
(203) 348-6233

# 603  
Group IV

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 1968-'69 AMX -2-Door Hardtop

Serial # Chassis 1968..A8M397X100001 & Up Manufacturer American Motors Corp.

Serial # Engine (Date Built Code Only) 1969..A9M397X100001 & Up Manufacturer American Motors Corp.

Recognition valid from January 1, 1969 List \_\_\_\_\_

The manufacturing of the model described in this recognition form was started on January 2, 1968 and the minimum production of 1000 identical cars, in accordance with the specifications of this form, was reached on November 1, 19 68.

- (\*) need not be answered for Group II and III cars.
- (\*\*) only need to be answered for Group IV cars.

A      3/4 Front View Car      \*\*



The vehicle described in this form has been subject to the following amendments:

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 K. Clonan*

Stamp/Signature  
F.I.A.

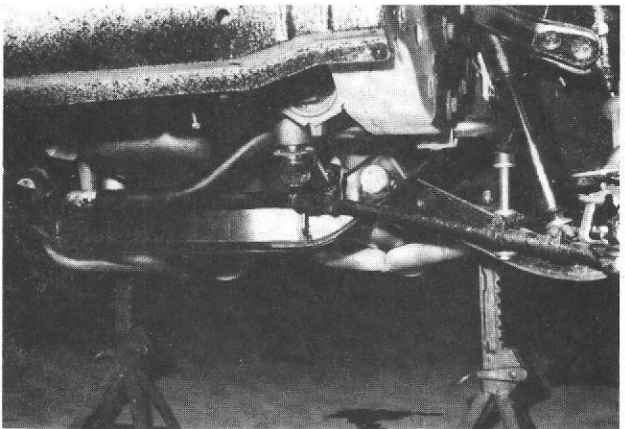
B 3/4 rear car (\*\*)



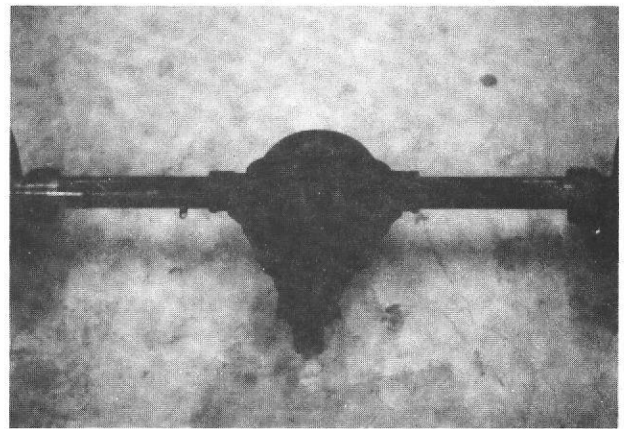
C interior-car (\*\*)



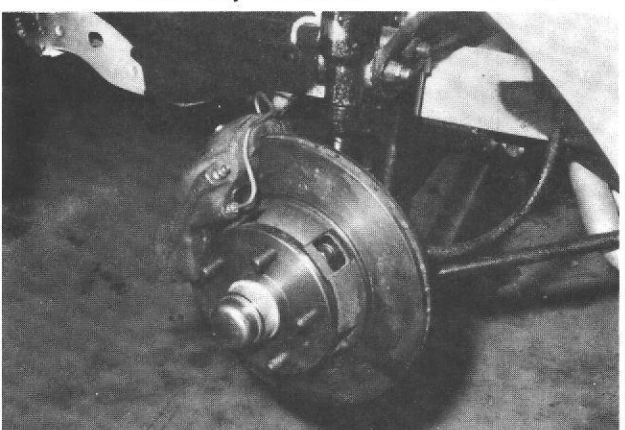
D front axle (\*\*)



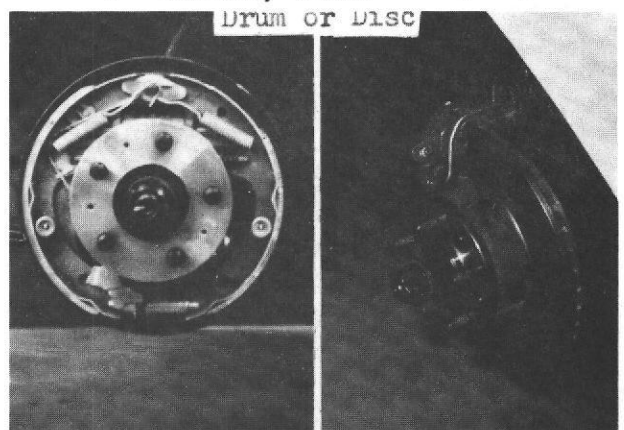
E rear axle (\*\*)



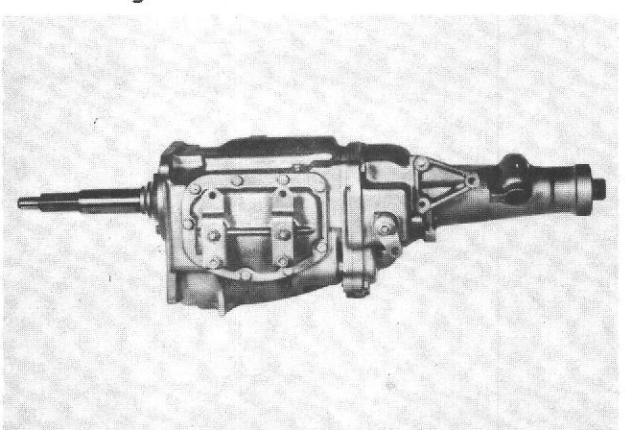
F brake, front (\*\*)



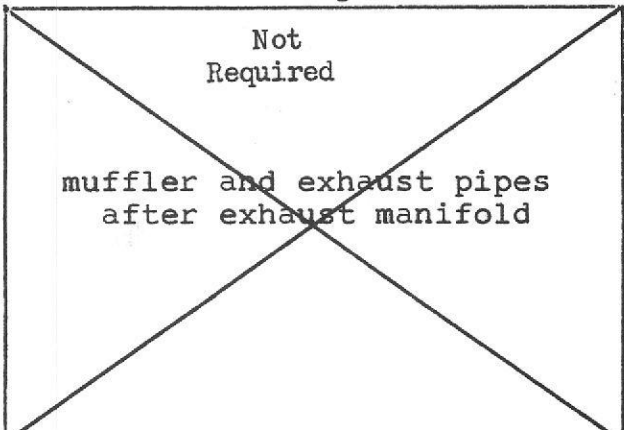
G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system (\*)

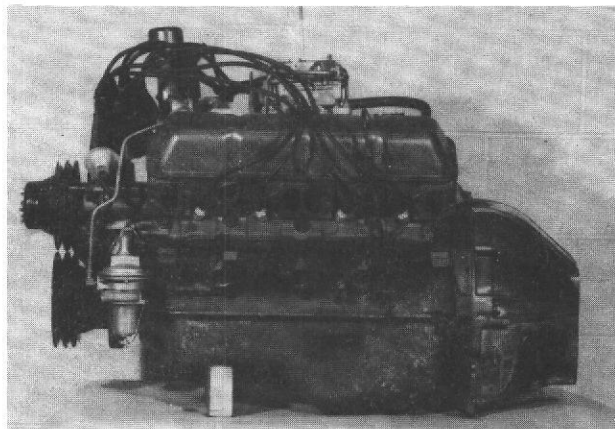
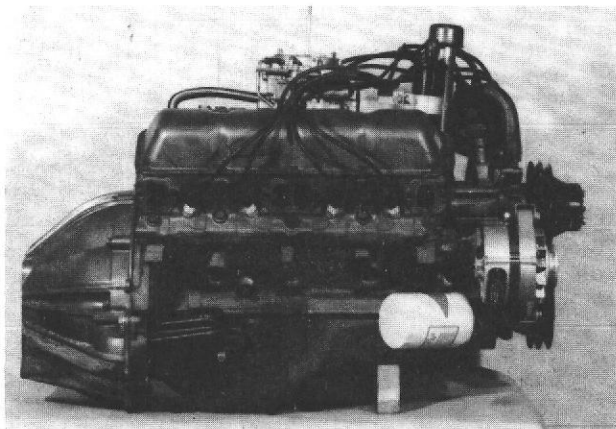


STAMP

STAMP

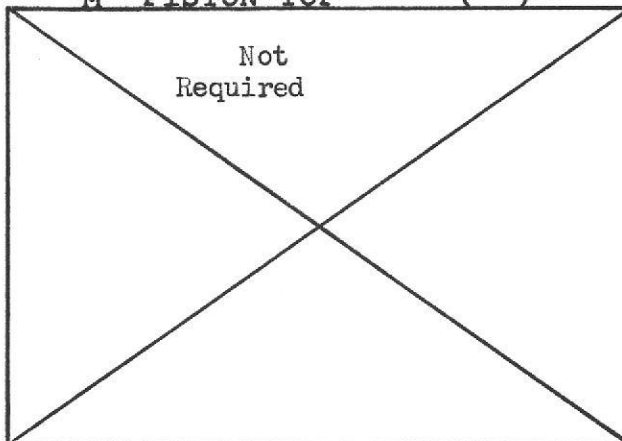
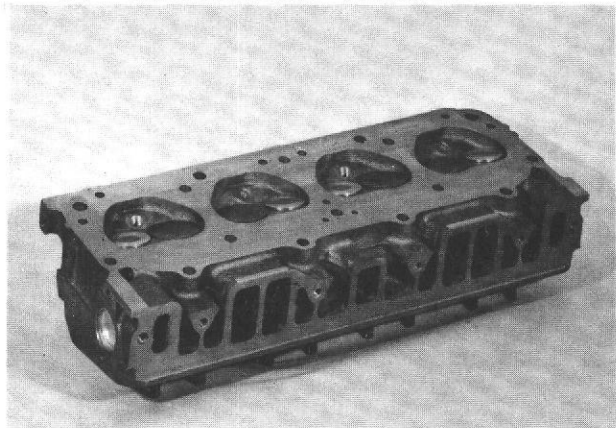
J ENGINE RIGHT (\*\*)

K ENGINE LEFT (\*\*)



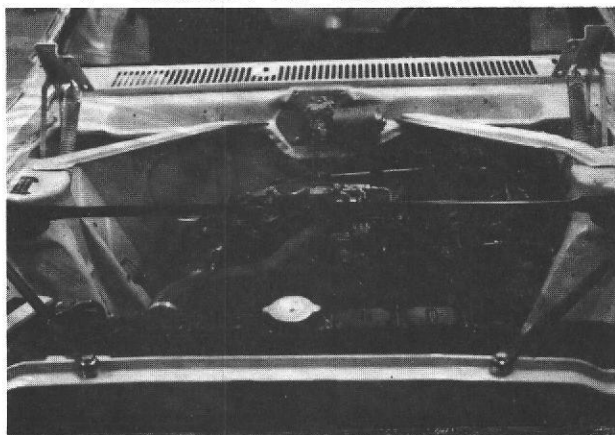
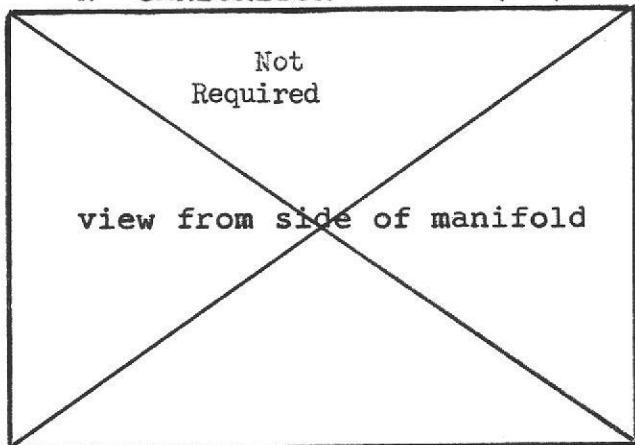
L COMBUSTION CHAMBER

M PISTON TOP (\*)



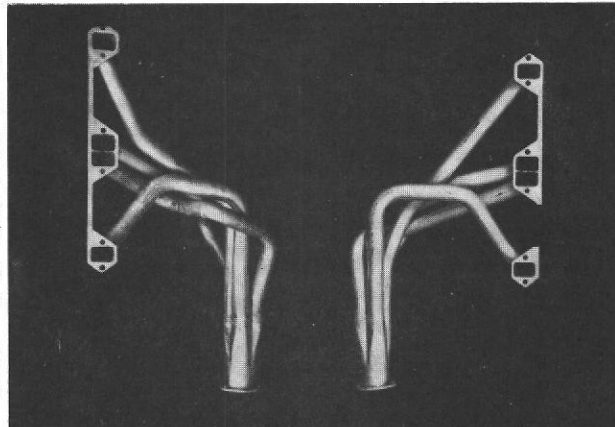
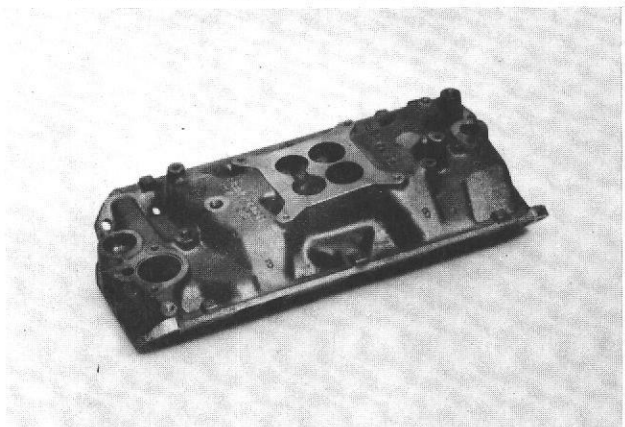
N CARBURETOR (\*)

O ENGINE IN PLACE (\*\*)



P MANIFOLD INLET

Q MANIFOLD EXHAUST



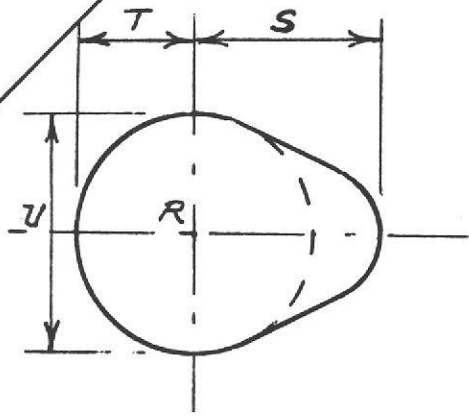
Strip out: ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES. STAMP STAMP

ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.

- ~~• Inlet~~
- ~~Manifold~~
- ~~Porting~~
- ~~Cyl.~~
- ~~Head~~
- ~~Face~~
- ~~• Cylinder~~
- ~~Head~~
- ~~Porting~~
- ~~Inlet~~
- ~~Face~~
- ~~• Exhaust~~
- ~~Manifold~~
- ~~Porting~~
- ~~Cyl. Head~~
- ~~Face~~
- ~~• Cylinder~~
- ~~Head~~
- ~~Porting~~
- ~~Exhaust~~
- ~~Face~~

INFORMATION NOT REQUIRED

CAM



Inlet cam

S=            mm            in  
 T=            mm            in  
 U=            mm            in

Exhaust cam

S=            mm            in  
 T=            mm            in  
 U=            mm            in

STAMP

STAMP

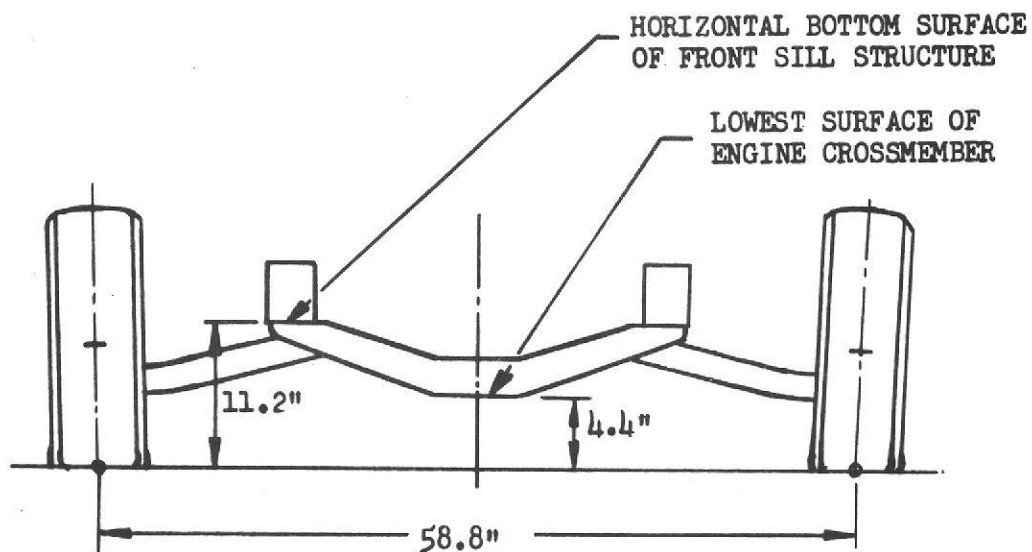
**IMPORTANT:** Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.  
See conversion table at index.

**CAPACITIES & DIMENSIONS**

- (\*\*) 1. Wheelbase 2463.8 mm 97.0 in  
 (\*\*) 2. Front track 1493.5 mm 58.8 in +  
 (\*\*) 3. Rear track 1447.8 mm 57.0 in +  
 + Differences in track resulting from use of optional wheel and rim sizes must be stipulated on recognition application forms. ... SEE PAGE 14

Dimensional relationship between track (front and/or rear) and ground clearance resulting from use of optional wheel sizes shall also be stipulated and a sketch illustrating suspension reference points shall be shown below to establish the "reference chassis height." The reference chassis height dimension is to be used only when checking track and shall not affect eligibility of car in any manner.

Sketch, Ground Clearance: Dimensional Suspension & Chassis Reference Points"



4. Overall length of car 450.09 cm 177.2 in  
 5. Overall width of car 181.86 cm 71.6 in  
 6. Overall height of car 131.32 cm 51.7 in  
 7. Capacity of fuel tank (reserve included) 71.9 or 83.3 or 140 ltrs.  
 19 or 22 or 37 gallons US 15.8 or 18.3 or 30.8 gallons, Imp.  
 8. Seating capacity ... 2  
 (\*\*) 9. Weight - total weight of car with normal equipment, water,  
 oil and spare wheel but without fuel or repair  
 tools. 1270 kg 2800 lbs

STAMP

STAMP









(XX)XXX...  
(XX)XXX...

BEARINGS

- (\*\*) 158. Crankshaft, main - type ALLOY diameter 69.85 mm 2.75 in
- (\*\*) 159. Connecting rod, big end - type ALLOY diameter 57.15 mm 2.25 in

WEIGHTS

(XX)XXX...  
 (XX)XXX...  
 (XX)XXX...  
 (XX)XXX...  
 (XX)XXX...

FOUR CYCLE ENGINES

- (\*\*) 170. Camshafts - number...1 material/s...CAST IRON
- (\*\*) 171. Camshaft - location...IN BLOCK, CENTER OF V
- (\*\*) 172. Camshaft Drive, type...CHAIN
- (\*\*) 173. Valve operation - type...PUSH - ROD

INLET (See Photo P) (for addtl info re 2 stroke engines and super charged, see page 15)

- 180. Inlet manifold - materials...CAST IRON (ALUMINUM OPT.)
- 181. Valves (overall) - diameter 51.44 mm 2.025 in

(XX)XXX...

- 183. Springs, valve - number...8 + 8 DAMPERS
- 184. Spring - type...COIL

- (\*\*) 185. Valves, per cylinder - number...1-INLET

(XX)XXX...

(XX)XXX...  
clearance indicated

(XX)XXX...  
clearance indicated

(XX)XXX...

STAMP

STAMP

EXHAUST (See Photo Q )

195. Manifold, exhaust - material/s ...STEEL TUBE

196. Valves (overall) - diameter 41.28 mm 1.625 in

197. Valve, inlet - diameter 41.28 mm 1.625 in

198. Valve Springs/valve - number...8 + 8 DAMPERS

199. Springs - type...COIL

(\*\*) 200. Valves - number per cylinder...1-EXHAUST

201. Tappet - clearance for checking

202. Valve - diameter

203. Valve - diameter

CARBURETION (See Photo N)

210. Carburetors, fitted - number...1

211. Type...4-BARREL DOWNDRAFT (SEE PAGE 15)

212. Make

213. Model

214. Carburetors - number of mixture passages...4 (SEE PAGE 15)

215. Carburetor - flange hole diameter

216. Venturi - throat diameter

INJECTION

220. Pump - make ...NONE

221. Plungers - number...NONE

222. Plunger - diameter

223. Injectors - location...NONE

224. Injectors - total number...NONE

225. Inlet pipe - diameter

+ For variable throat type carburetors, indicate minimum lift of shutter mechanism such as pistons in S.U.

STAMP

STAMP



Gear Box (Photo H)

- (\*\*) 270. Manual type - make...WARNER GEAR
- (\*\*) 271. Ratios, forward - number...4
- 272. Ratios, forward - number synchronized...4
- 273. Gear-Shift - location FLOOR ~~OPTIONAL~~
- (\*\*) 274. Automatic - make BORG-WARNER type...TORQUE CONVERTOR & PLANETARY GEARS
- (\*\*) 275. Ratios, forward - number...THREE
- 276. Gear-Shift - location...FLOOR (VIA CONSOLE)

277.	Manual		Automatic		Alternative Manual					
	Ratio	Teeth	Ratio	Teeth	Ratio	Teeth	Ratio	Teeth	Ratio	Teeth
1	2.23	22-26 18-34	2.40		2.43	21-27 18-34	2.64	20-28 18-34	2.36	26-29 17-36
2	1.77	22-26 18-27	1.47	Torque convertor Maximum Ratio at Stall 2.00:1 (11" and 12" Convertors)	1.76	21-27 19-26	2.10	20-28 18-27	1.62	26-29 20-29
3	1.35	22-26 22-23	1.00		1.47	21-27 21-24	1.46	20-28 22-23	1.20	26-29 25-27
4	1.00	Direct	—		1.00	Direct	1.00	Direct	1.00	Direct
5	—	—	—		—	—	—	—	—	—
6	—	—	—		—	—	—	—	—	—
Rev.	2.16	22-26 16-18 19-39	2.00		2.49	21-27 17-18 19-39	2.55	20-28 16-18 19-39	2.42	26-29 16-17 19-39

- 278. Overdrive - type ... NONE
- 279. Forward gears on which overdrive can be selected ... NONE
- 280. Overdrive - ratio ... NONE

FINAL DRIVE

- (\*\*) 290. Type ... HOTCHKISS, LIVE AXLE
- (\*\*) 291. Differential - type ... HYPOID RING GEAR & PINION  
AM-4485531 AM-4486997
- (\*\*) 292. Limited Slip Differential (if fitted) - type ~~+~~ FRICION or POSITIVE-LOCKING
- 293. Ratio                    2.87:1   3.15:1   3.54:1   3.73:1   3.91:1   4.10:1   4.44:1   5.00:1  
Teeth - No.   43/15   41/13   39/11   41/11   43/11   41/10   40/9   45/9  
AM PART NO.   3209610   3209609   3209608   4485749   4485750   3208546   3209854   4486587
- ( / ) Specify friction or positive locking type

STAMP

STAMP

IMPORTANT

The conformity of the car with the following items of the present recognition form is to be disregarded during the technical inspection when the vehicle has been entered in Group II (Touring Cars) or III (Grand Touring Cars):

- 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, 255, photos I, M, N & items on page 5 as indicated.

During the technical inspection of cars entered in Group IV (Sports Cars) only the following items of the present recognition form are to be taken into consideration:

- 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 & photos A, B, D, E, F, G, H, J, K, O.

Optional equipment affecting preceding information:

CATALOGUE PART NUMBER MUST BE GIVEN

<u>Equipment</u> <u>Order</u> <u>Code No.</u>		<u>Weight,</u> <u>Pounds</u>
6839-7 or 6939-7 . . . . .	AMX 2-Door Hardtop, 390 CID V-8 . . . . .	3131
Std. . . . .	4-Speed Floor Shift Transmission . . . . .	Incl.
49-2 . . . . .	Disc Brakes . . . . .	27
45-1 . . . . .	Twin-Grip Differential . . . . .	8
70-1 . . . . .	V-8 Suspension Handling Package . . . . .	5
66-1 . . . . .	Heavy-Duty Engine Cooling System . . . . .	7
68-5 . . . . .	Heavy-Duty Electrical System . . . . .	7
		<u>3185</u>
	Less 8-Gallons Fuel (included in 3131 shipping wt.)	<u>-48</u>
		<u>3137</u>
	Less allowance for elimination of undercoating, insulation, body sealers, sound deadener, floor covering mats, trunk mat, heater and blower, windshield washers, back-up lights, front passenger seat belt, headrests, tire repair tools, hub caps, "Air-Guard" exhaust emission air pump system, mufflers, etc.	<u>-337</u> 2800

STAMP

STAMP

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

Item 50-54:

<u>WHEEL SIZE</u>	<u>PART NO.</u>	<u>TREAD (Items 2 &amp; 3)</u>		<u>WEIGHT</u>
		<u>FRONT</u>	<u>REAR</u>	
14" x 6.0" (Standard).....	AM-3192216 .....	58.80"	57.00"	8.5 kg, 18.70 lbs
14" x 6.0" (Optional).....	AM-3193814 .....	58.80"	57.00"	9.2 kg, 20.30 lbs
15" x 5.5" (Optional).....	AM-3157895 .....	58.80"	57.00"	8.8 kg, 19.40 lbs
15" x 7.0" (Optional).....	AM-3193084 .....	59.88"	58.06"	10.4 kg, 23.00 lbs
15" x 8.0" (Optional).....	AM-4485738 .....	61.44"	59.62"	6.2 kg, 13.75 lbs

<u>PART NO.</u>	<u>DESCRIPTION</u>
AM-4485726R .....	Exhaust Header, Right (see Photo Q, & Item 195)
AM-4485727L .....	Exhaust Header, Left (see Photo Q, & Item 195)
AM-4485732R .....	Front Disc Brake Assembly, Right (see Photo F, & Items 93-105)
AM-4485733L .....	Front Disc Brake Assembly, Left (see Photo F, & Items 93-105)
AM-4485734R .....	Rear Disc Brake Assembly, Right (see Photo G, & Items 93-105)
AM-4485735L .....	Rear Disc Brake Assembly, Left (see Photo G, & Items 93-105)
AM-4485736R .....	Rear Drum Brake Assembly, Right (see Photo G, & Items 93-105)
AM-4485737L .....	Rear Drum Brake Assembly, Left (see Photo G, & Items 93-105)
AM-4485741 .....	8.5 Quart Engine Oil Pan (see Item 155)
AM-4485742 .....	Capacitor-Discharge Ignition System, Transistorized (see Items 232-234)
AM-4485932 .....	Electric Fuel Pump, Two (Stewart-Warner #D-240-A) (see Item 231) Option in place of or supplement to one mechanical fuel pump.
AM-4485931 .....	Stub-Shaft Valve Rocker Arms

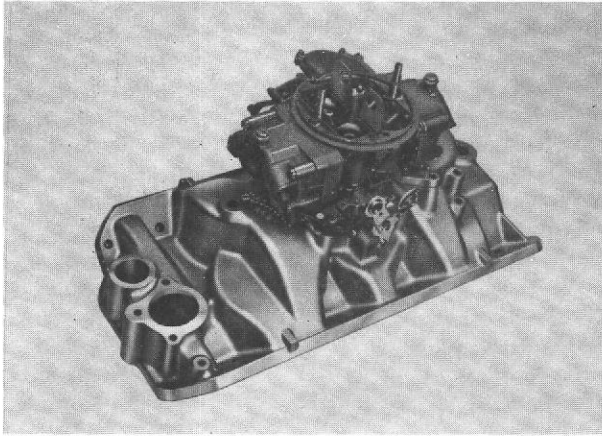
Supplementary Information for Item 7:

Goodyear	2F1-4-36442 (22 Gallon Fuel Cell)
Goodyear	2F1-4-36443 (37 Gallon Fuel Cell)
Firestone	NASCAR 22 Gallon Fuel Cell
Firestone	NASCAR 37 Gallon Fuel Cell

STAMP

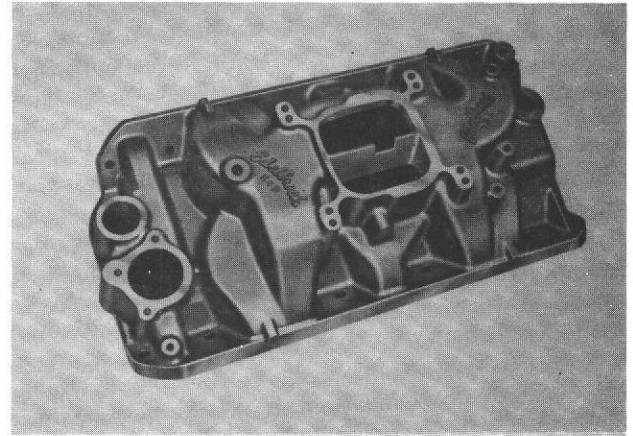
STAMP

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

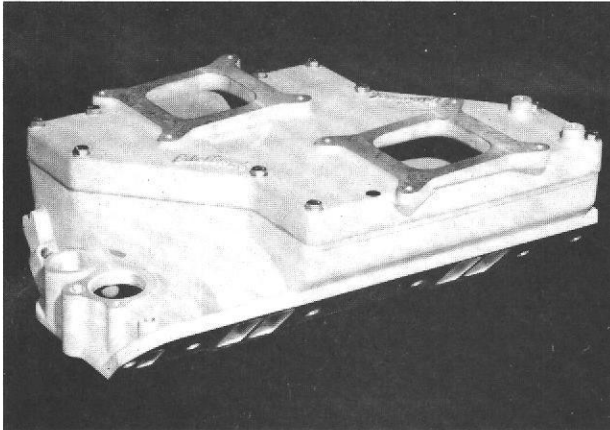


AM-4485731 ... Intake Manifold and Carburetor Kit. Includes AM-4485730 ... "Holley" Carburetor.

The above optional induction system replaces the standard cast-iron manifold numbered either AM-3187000 or AM-3191737 (shown on page 3 photo P, & mentioned in Items 180, 210, 211 & 214), & also replaces standard Carter AFB 4-barrel carb.



AM-4485729 ... Intake Manifold (Aluminum High-Riser by "Edelbrock")



AM-4486228 Dual-Carburetor Aluminum Intake Manifold (for two Holley 4-Barrel Carburetors)  
This option for use in place of single carburetor manifolds listed on ... Photo P, Items 180, 210, 211 & 214.

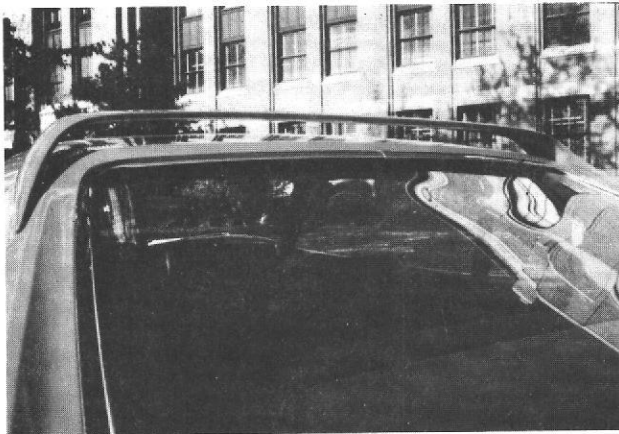
STAMP

STAMP

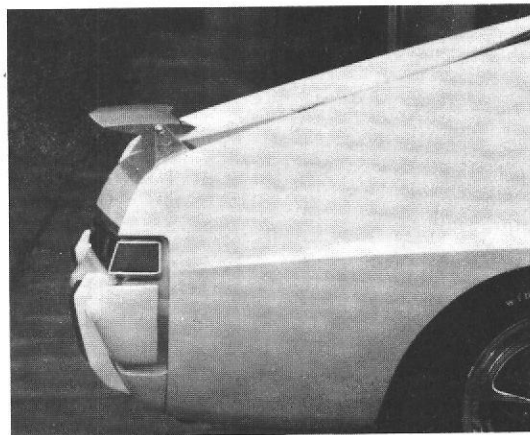
MAKE 1968-'69 AMX

MODEL 2-Door Hardtop FIA REC # 603

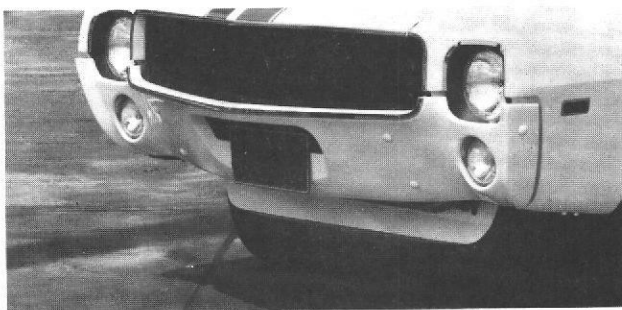
Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN



AM-3631490 ... Rear-Roof Spoiler



AM-8992357 ... Rear-Deck Spoiler



AM-8992553 ... Front Spoiler

STAMP

STAMP





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

433 MAIN ST.  
STAMFORD, CONN. 06901  
(203) 348-6233

JAN 1 1970

FIA NO. 603/1/1E

GROUP IM

Evolution of type

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 1970 AMX 2-Dr. HT

Serial # Chassis A0M397X100001 & Up Manufacturer American Motors Corp.

Serial # Engine --- Manufacturer American Motors Corp.

Recognition valid from January 2, 1970 List 1970/1

The manufacturing of the model described in this recognition form was started on Aug. 11, 1969 and the minimum production of 1,000 identical cars, in accordance with the specifications of this form, was reached on Nov. 15, 1969.

(\*\*) only need to be answered for Group IV cars.

A 3/4 Front View Car \*\*



The vehicle described in this form has been subject to the following amendments:

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



Stamp/Signature  
F.I.A.

MAKE 1970 AMX

MODEL 2-Dr. HT - 390

FIA REC # 603/111E

GROUP IM

JAN 1 1970

1970 Appearance Changes Evident in Photo A:

1. Horizontal Rib Grill.
2. Front Bumper.
3. Location of Parking/Turn Signal Lamps.
4. Semi Rectangular Bumper Located Air Scoops for Brake Cooling.
5. Air Scoop Hood.
6. Front Fender End Caps.

1970 Appearance Changes Evident in Photo B:

1. Five Sectioned Taillight Lens.
2. Rear Fender End Caps.

1970 Appearance Change Evident in Photo C:

Instrument Panel with Round Recessed Instruments.



MAKE 1970 AMX

MODEL 2-Dr. HT - 390

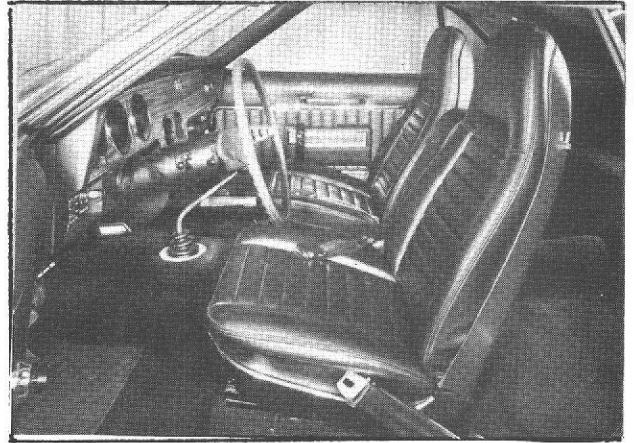
FIA REC #

JAN 1 1970  
603 / ME

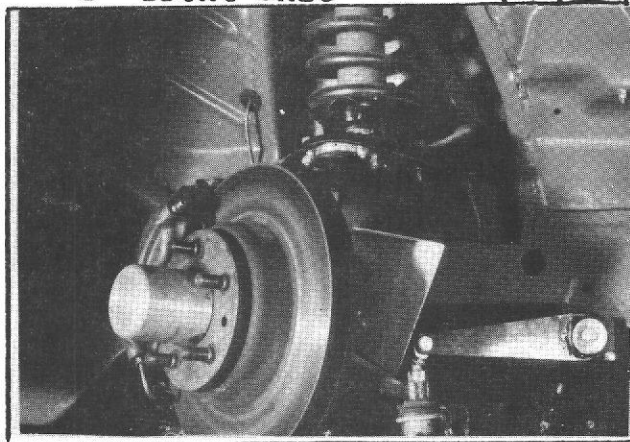
B 3/4 rear car (\*\*)



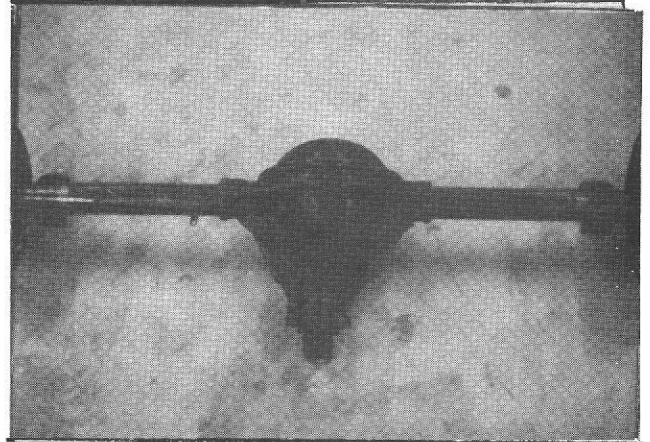
C interior-car (\*\*)



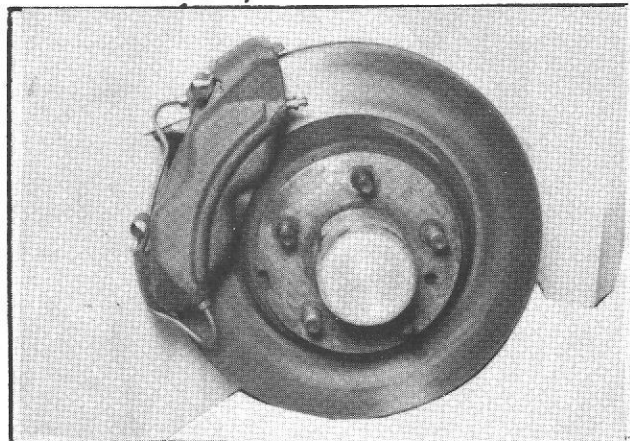
D front axle (\*\*)



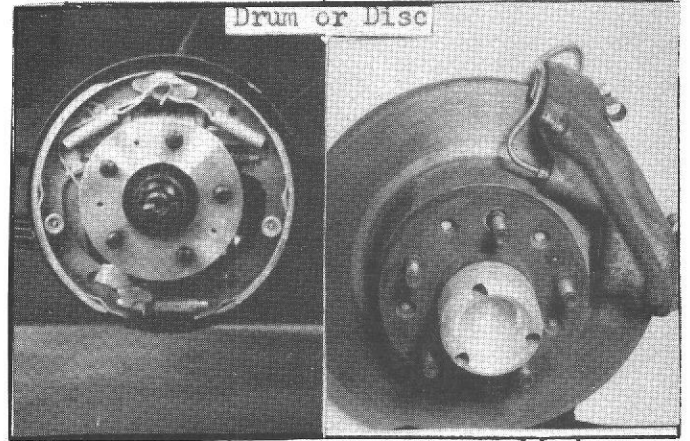
E rear axle (\*\*)



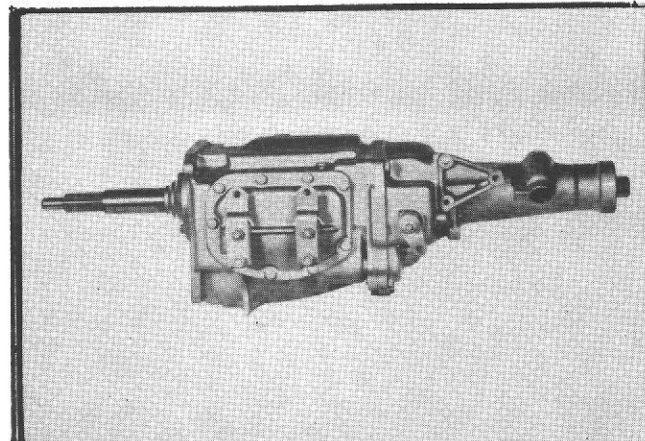
F brake, front (\*\*)



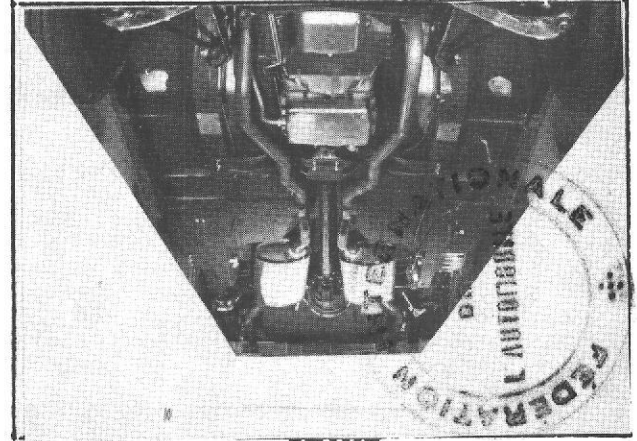
G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system ( )



STAMP

STAMP

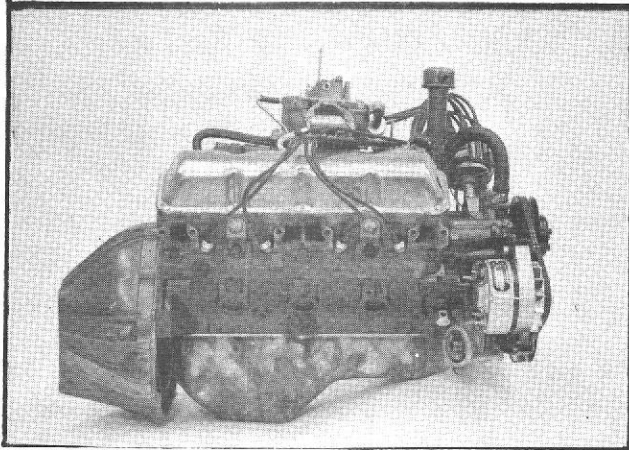
MAKE 1970 AMX

MODEL 2-Dr. HT

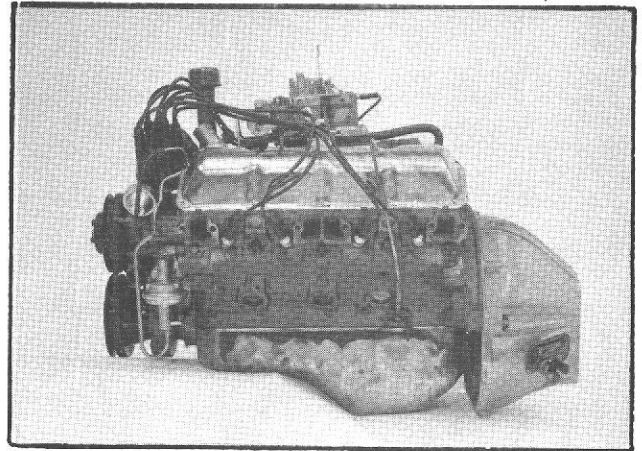
FIA REC #

JAN 1 1970  
603 / 11/12

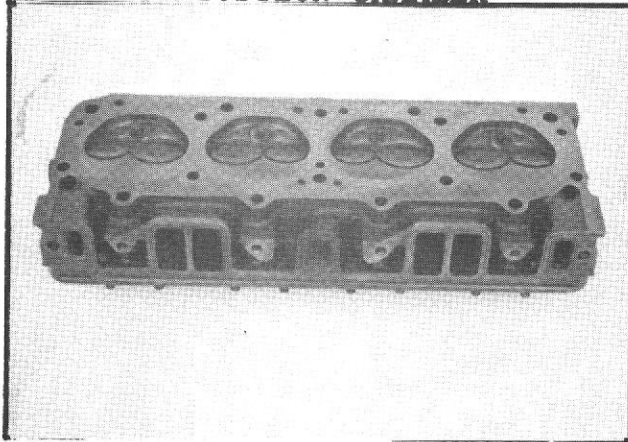
J ENGINE RIGHT (\*\*)



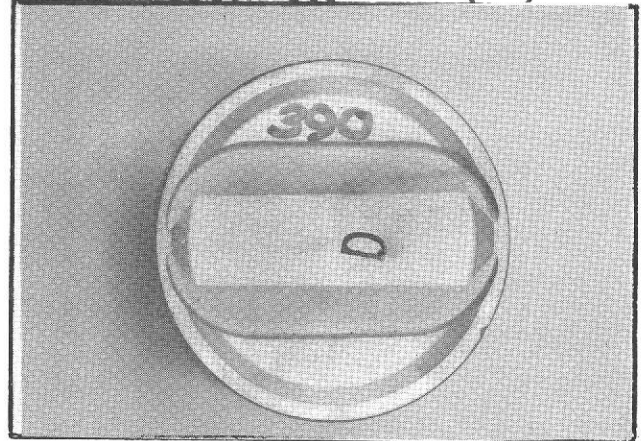
K ENGINE LEFT (\*\*)



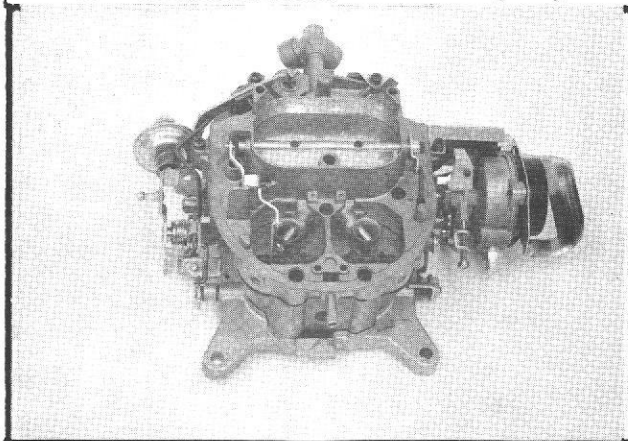
L COMBUSTION CHAMBER



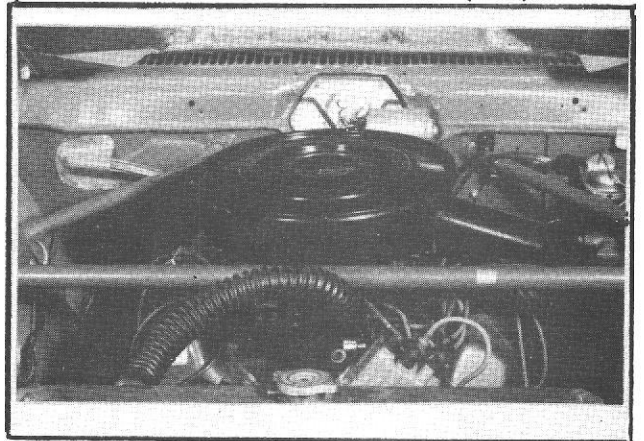
M PISTON TOP ( )



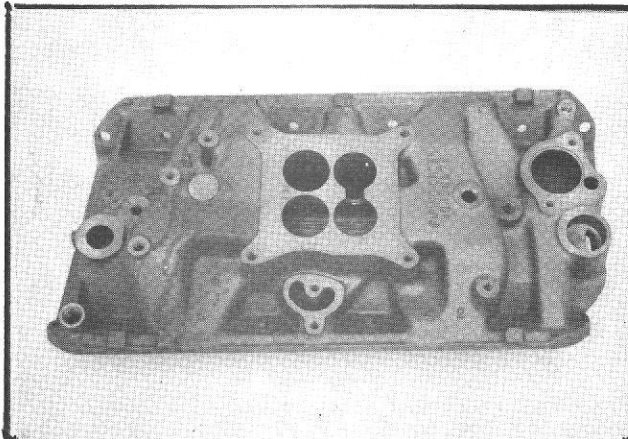
N CARBURETOR ( )



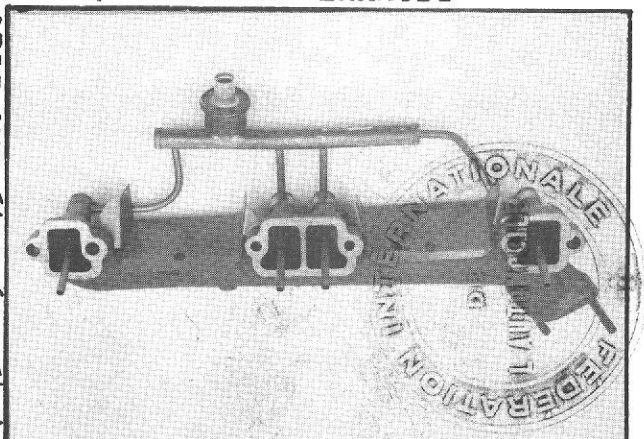
O ENGINE IN PLACE (\*\*)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



4.45 mm, 1.75 in. Dia.

STAMP

STAMP

MAKE

1970 AMX

MODEL 2-Dr. HT- 390

FIA REC # 603

*MAE*

JAN 1 1970

All specifications in this completed form either were not required last year or differ from the 1969 Homologation FIA Rec #603. Please find reference to homologation page number and item number listed with specifications.



ENGINE (Photos J and K)

- ( ) 156. Fan, cooling (if fitted) - diameter 35.56 cm 14 in
- ( ) 157. Fan, cooling - number of blades 6 material/s Steel

BEARINGS

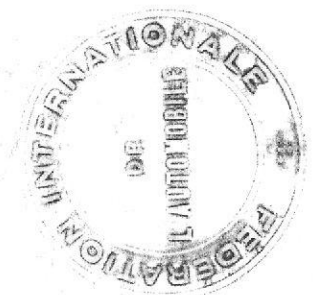
- (\*\*) 159. Connecting rod, big end - type Alloy diameter 53.09 mm 2.09 in

WEIGHTS

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

INLET (See Photo P)

- ( ) 182. Valve lift - maximum 11.607 mm .457 in
- ( ) 186. Tappet - clearance for checking timing (cold) mm 0.0 in Hydraulic
- ( ) 187. Valves - open at (with tolerance for tappet clearance indicated) 52° (BTC)
- ( ) 188. Valves - close at (with tolerance for tappet clearance indicated) 122° (ABC)
- ( ) 189. Air filter - type ... Paper



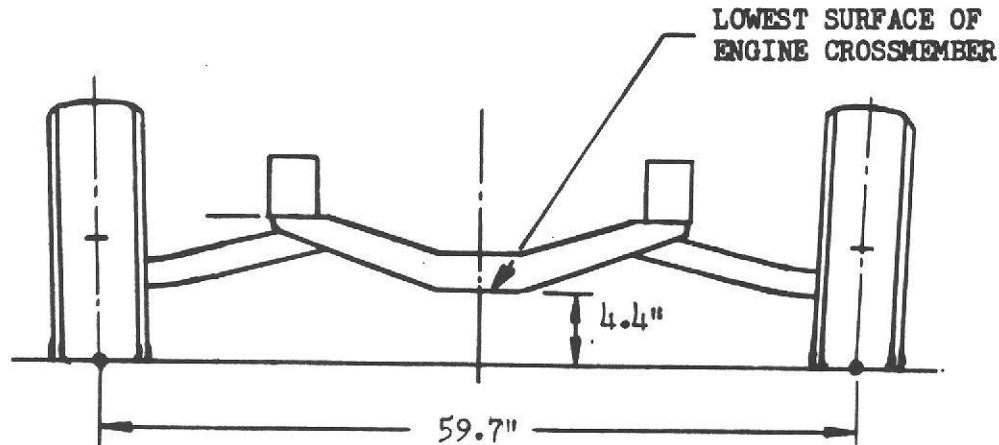
JAN 1 1970

PAGE 5

CAPACITIES & DIMENSIONS

(\*\*\*) 2. Front track 1516.4 mm 59.7 in +

Sketch, Ground Clearance: Dimensional Suspension & Chassis Reference Points"



4. Overall length of car 454.7 cm 179.04 in  
 6. Overall height of car 130.6 cm 51.4 in  
 7. Capacity of fuel tank (reserve included) 119.9 ltrs.  
 31.7 gallons US 26.4 gallons, Imp.

(\*\*\*) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools.  
 1279.1 kg 2820 lbs

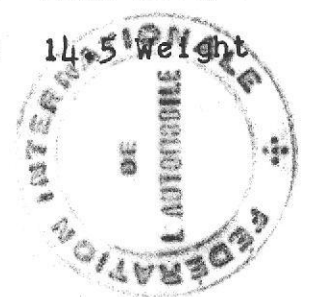
PAGE 6

ACCESSORIES AND UPHOLSTERY

42. Seats, front - weight  
 (complete with supports & rails out of car) 18.6 kg 40.9 lbs  
 44. Bumper, front - material/s Steel kg 10.0 lbs 22.0 Weight  
 45. Bumper, rear - material/s Steel kg 6.6 lbs 14.5 Weight

STEERING

63. In case of servo assistance 3-1/4 approx.



MAKE 1970 AMX

MODEL 2-Dr. HT - 390

FIA REC #

603 / 1/12

JAN 1 1970

PAGE 7

SUSPENSION

( ) 80. Stabilizer - if fitted ... Yes

	<u>Front</u>		<u>Rear</u>	
94. Cylinders - wheel bore	49.27 mm	1.94 in	41.40 mm	1.63 in

DISC BRAKES

	<u>Front</u>		<u>Rear</u>	
100. Diameter, outside	302.3 mm	11.9 in	289.6 mm	11.4 in
101. Thickness of disc	31.8 mm	1.25 in	20.6 mm	.81 in
102. Lining - length	132.1 mm	5.2 in	121.9 mm	4.8 in
103. Lining - width	48.3 mm	1.9 in	45.7 mm	1.8 in
105. Area, total - per brake	6380.43 mm <sup>2</sup>	19.8 in <sup>2</sup>	5570.83 mm <sup>2</sup>	17.73 in <sup>2</sup>

PAGE 8

ENGINE (Photos J and K)

( ) 142. Compression - ratio ... 10.0

( ) 143. Combustion chamber - volume 88.82 cm<sup>3</sup> 5.42 in<sup>3</sup>

( ) 144. Piston - material/s ... Aluminum

( ) 145. Rings - number ... 2 Compression, 1 Oil

( ) 146. Distance from gudgeon pin centre line to highest point of piston crown

39.65 mm 1.56 in

155. Cooling - capacity of system 12.3 ltrs 26 pts 13 qts US





MAKE

1970 AMX

MODEL

2-Dr. HT - 390

FIA REC #

603 / 1/1E

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

JAN 1 1970

Inlet

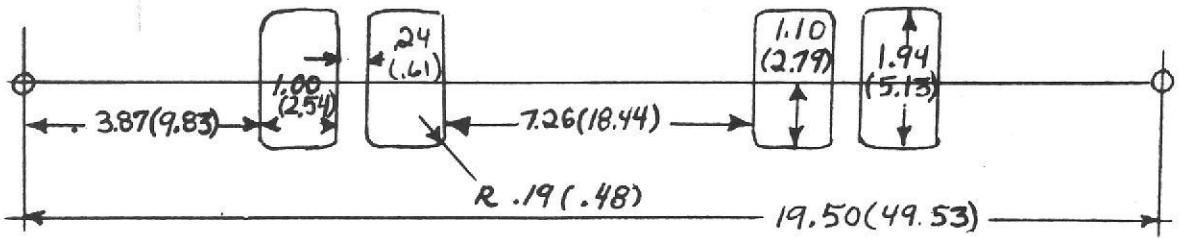
Manifold

Porting

Cyl.

Head

Face



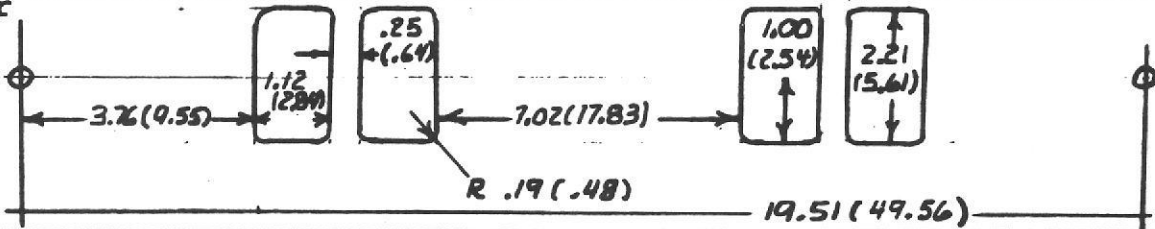
Cylinder

Head

Porting

Inlet

Face



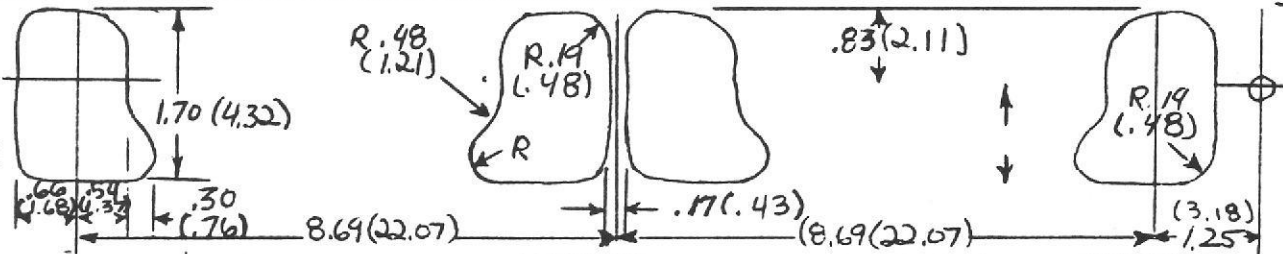
Exhaust

Manifold

Porting

Cyl. Head

Face



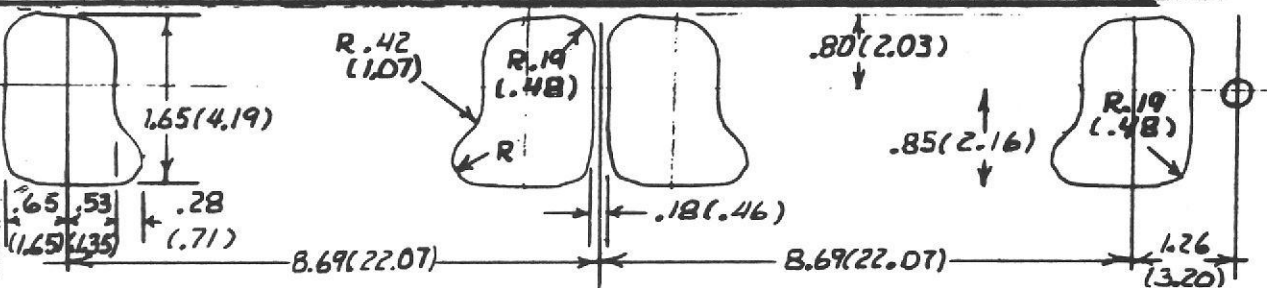
Cylinder

Head

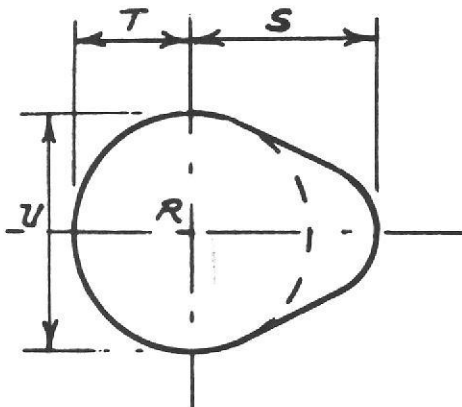
Porting

Exhaust

Face



CAM



Inlet cam

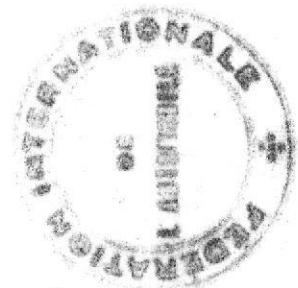
S=	25.4	mm	1.0	in
T=	20.3	mm	.8	in
U=	38.1	mm	1.5	in

Exhaust cam

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

STAMP

STAMP



JAN 1 1970

PAGE 10  
EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s ... Cast Iron
- ( ) 201. Tappet - clearance for checking timing (cold)  
mm 0.0 in  
Hydraulic
- ( ) 202. Valves - open at (with tolerance for tappet  
clearance indicated) 108° (BBC)
- ( ) 203. Valves - close at (with tolerance for tappet  
clearance indicated) 74° (ATC)

CARBURETION (See Photo N)

- ( ) 213. Model ... AM 4300
- ( ) 215. Carburetor - flange hole diameter of exit port  
Prim 39.62 mm Prim. 1.56 in  
Sec. 42.92 Sec. 1.69
216. Venturi - throat diameter + Prim. 31.75 mm 1.25 in

PAGE 11  
ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- ( ) 250. Horsepower - maximum engine output 325 at 5000 rpm  
(Indicate SAE)
- ( ) 251. RPM - maximum output at that figure 325 at 5000 rpm
- ( ) 252. Torque - maximum 420 at 3200 rpm
- ( ) 253. Speed - maximum NA km/hour NA miles/hour



*1/1/AE*

JAN 1 1970

PAGE 12

GEAR BOX (Photo H)

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.43	21-27 18-34	2.40		2.23	22-26 18-34	<del>2.64</del>	<del>20-28 18-34</del>
2	1.61	21-27 20-25	1.47		1.77	22-26 18-27	<del>2.10</del>	<del>20-28 18-27</del>
3	1.23	21-27 22-23	1.00		1.35	22-26 22-23	<del>1.46</del>	<del>20-28 22-23</del>
4	1.00	Direct			1.00	Direct	<del>1.00</del>	<del>Direct</del>
5								
6								
reverse	2.35	21-27 18-16 19-39	2.00		2.16	22-26 16-18 19-39	<del>2.55</del>	<del>20-28 16-18 19-39</del>

Torque Converter Maximum Ratio at 2.00:1 11" and 12" Convertors



MAKE 1970 AMX

MODEL 2-Dr. HT - 390

FIA REC # 003/1/1E

JAN 1 1970

IMPORTANT

The conformity of the car with the following items of the present recognition form is to be disregarded during the technical inspection when the vehicle has been entered in Group II (Touring Cars) or III (Grand Touring Cars):

- 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, 255, photos I, M, N & items on page 5 as indicated.

During the technical inspection of cars entered in Group IV (Sports Cars) only the following items of the present recognition form are to be taken into consideration:

- 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 & photos A, B, D, E, F, G, H, J, K, O.

Optional equipment affecting preceding information:

CATALOGUE PART NUMBER MUST BE GIVEN

AMX, 2-Door HT, 390 CID V-8 w/4-Speed Transmission, Disc Brakes, Twin-Grip Differential, V-8 Suspension Handling Package, Heavy-Duty Engine Cooling System, Heavy-Duty Electrical System.

3205

Less 8-Gallon Fuel (included in Shipping Wt.)

-148  
3157

Less allowance for elimination of undercoating, insulation, body sealers, sound deadener, floor covering mats, trunk mat, heater and blower, windshield washers, back-up lights, front passenger seat belt, headrests, tire repair tools, hub caps, "Air-Guard" exhaust emission air pump system, mufflers, etc.

+337

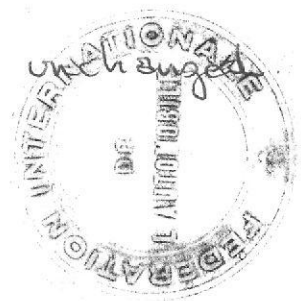
TOTAL

2820

Total weight remains

STAMP

STAMP



MAKE 1970 AMX MODEL 2-Dr. HT FIA REC # 603 <sup>390</sup> *h/ve*

JAN 1 1970

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

ITEM 50-54

<u>WHEEL SIZE</u>	<u>PART NO.</u>	<u>FRONT</u>	<u>TREAD REAR</u>	<u>WEIGHT</u>	<u>MATERIAL</u>
14" x 6.0" Standard	AM 3192216	59.7	57.0	8.5kg 18.70lbs	Steel
15" x 7" Optional	AM 4488604	60.0	58.1	10.4kg 23.0lbs	Steel
15" x 8" Optional	AM 4485738	61.6	62.5	6.2kg 13.7 lbs	Mag.

<u>PART NO.</u>	<u>DESCRIPTION</u>
AM 4485732R	Front Disc Brake Assembly Right
AM 4485733L	Front Disc Brake Assembly Left
AM 4485734R	Rear Disc Brake Assembly Right
AM 4485735L	Rear Disc Brake Assembly Left
AM 4487900	Mallory Ignition System, less tach drive (4487901 w/tach drive)
AM 4487989	Valve Rocker Arms, Heavy-Duty
AM 8992357	Spoiler, Rear Deck
AM 3641522	Spoiler, Front
AM 4485743	Oil Cooler, Engine
AM 4485744	Oil Cooler, Differential & Transmission
AM 4485747	Aluminum Flywheel
AM 4488608	Aluminum Main Case and Extension Housing, Transmission

STAMP

STAMP



MAKE 1970 AMX MODEL 2-Dr. HT - 390 FIA REC # 603 / 1/12

JAN 1 1970

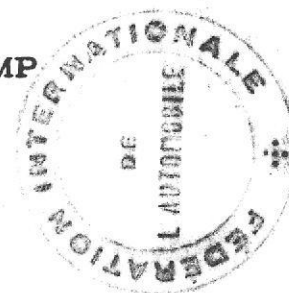
Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

SUPPLEMENTARY INFORMATION OF ITEM 7:

2F1-4-36442 (22 Gallon Fuel Cell)	AM 4488610
22 Gallon Fuel Cell	AM 4488609
31.8 Gallon Fuel Cell	AM 4488611

STAMP

STAMP



MAKE 1970 AMX

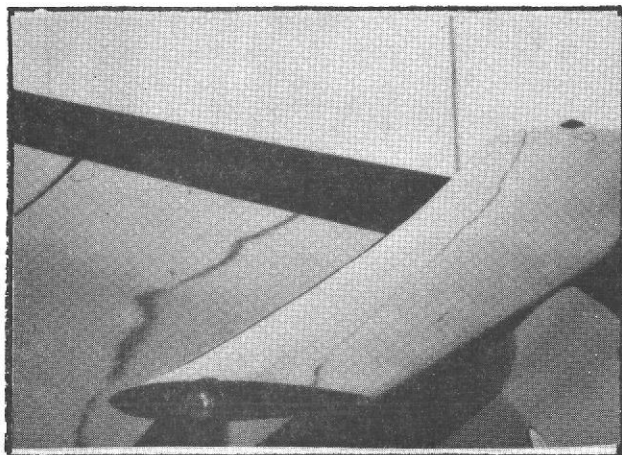
MODEL 2-Dr. HT - 390

FIA REC #

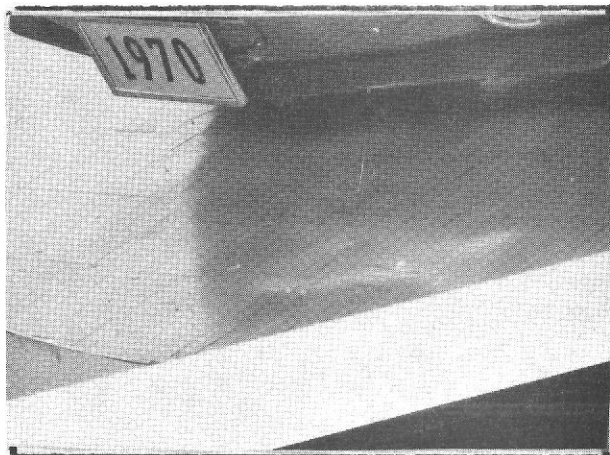
603 / 1/1E

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

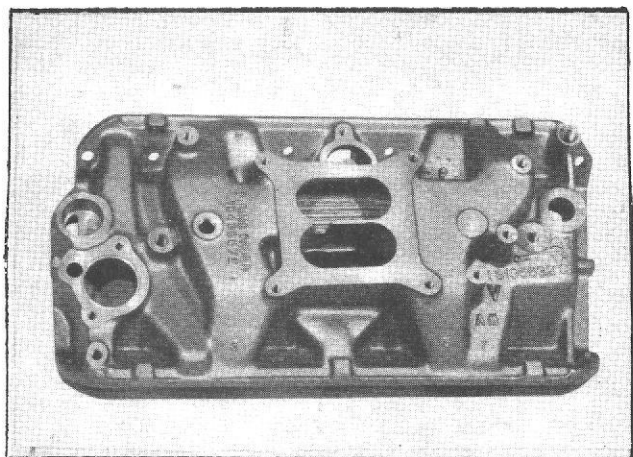
JAN 1 1970



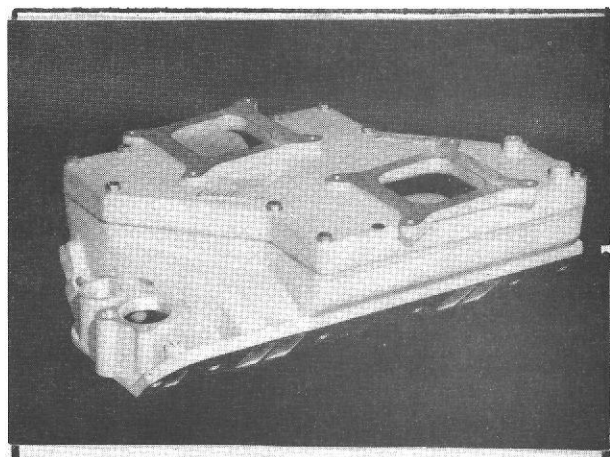
AM -8992357...Adjustable Rear Deck Spoiler



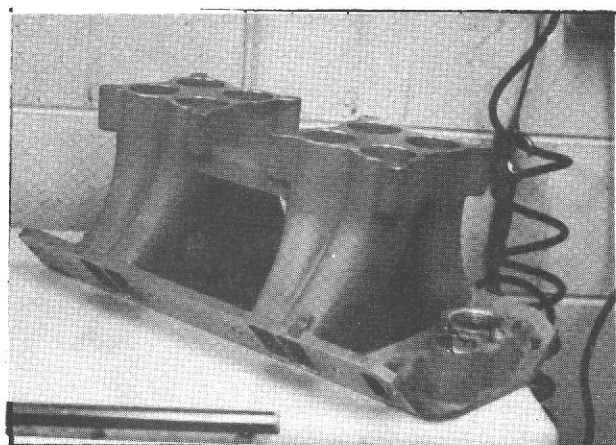
AM-3641522...Front Spoiler



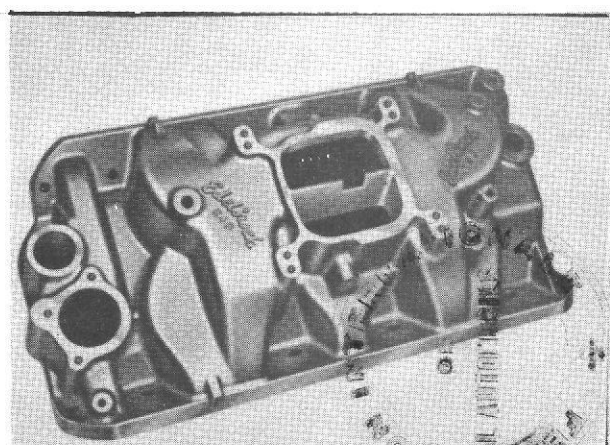
AM-3195533...4-Bbl. Intake Manifold



AM-4486228...Intake Manifold



AM-4488023...Intake Manifold



AM-4485729...Intake Manifold

360 cu in

MAKE 1970 AMX MODEL 2-Dr. HT FIA REC NO 8603 v 1

2/1V

JAN 1 1970



Telephone: (203) 348-6233

Cable Address: "ACCUSFIA" Stamford, Conn.

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

433 MAIN STREET, STAMFORD, CONN. 06901

**VARIANT FORM - In accordance with Appendix "J" of the International Sporting Code**

A variant is one or several changes which noticeably modify either the performance or main characteristics of the car, but concerns only a part of the production run.

Recognition is granted a variant only after it has met the same production requirements as the FIA Group in which the original model was recognized (I-5000; II-1000; III-500; IV-50)

In filing this form, each change must be fully documented as required in the original recognition form, using the same item numbering keys and including sketches or photos as and if required in the original form.

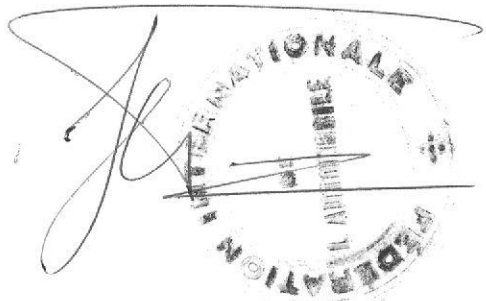
This Variant Form (V-1) applies to the evolution of type 1970 AMX 2-Door Hardtop as filed with ACCUS FIA on Nov. 15, 1969 and covers the optional 360 cubic inch displacement engine. All items listed on the following pages apply to this engine. As similarities exist within the V-8 engines produced by American Motors Corporation, some items on the following page are identical to those listed in the original homologation form.

All other items as listed in the original homologation form are identical for a 1970 AMX 2-Door Hardtop equipped with the 360 CID engine.

*John K. Clivian*



STAMP



STAMP



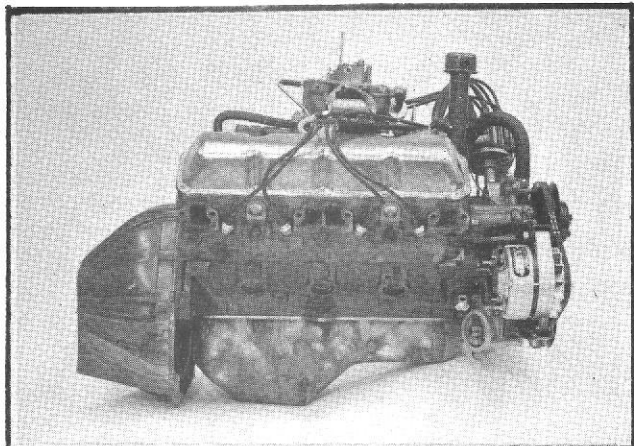
MAKE 1970 AMX

MODEL 2-DOOR HT - 360 FIA REC # 603/2/11V

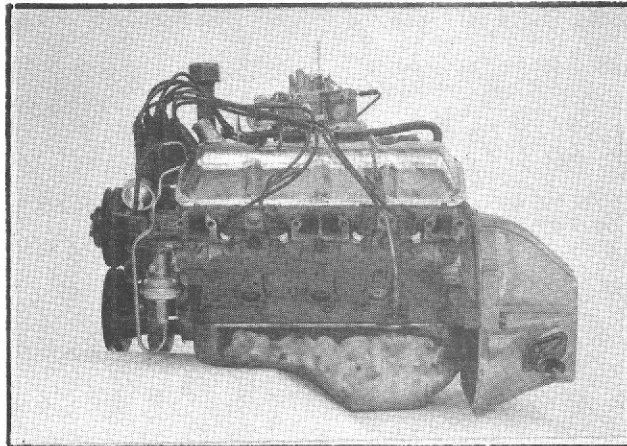
V 1 JAN

1 1971

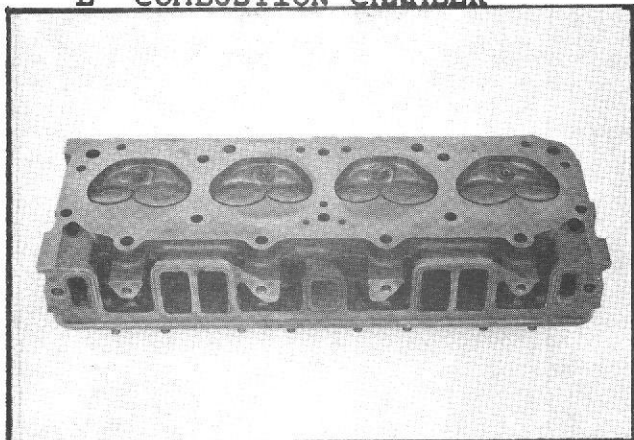
J ENGINE RIGHT (\*\*)



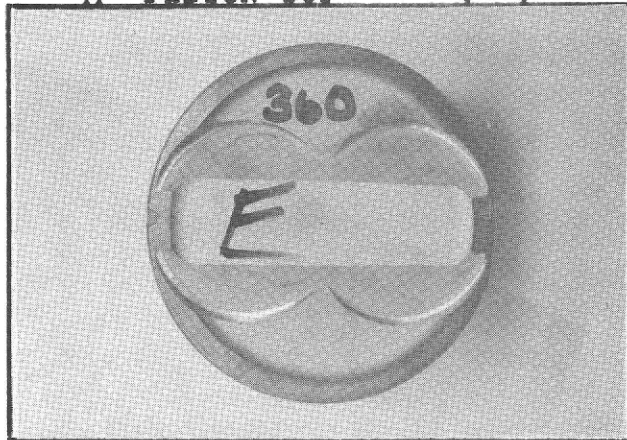
K ENGINE LEFT (\*\*)



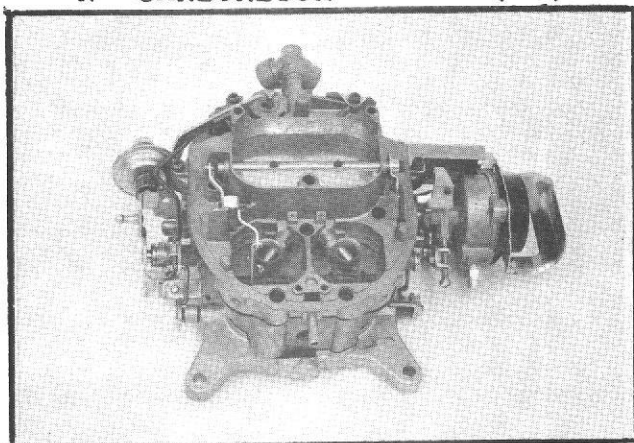
L COMBUSTION CHAMBER



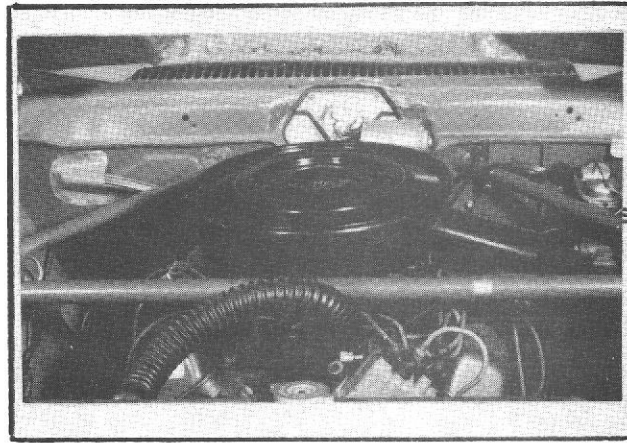
M PISTON TOP ( )



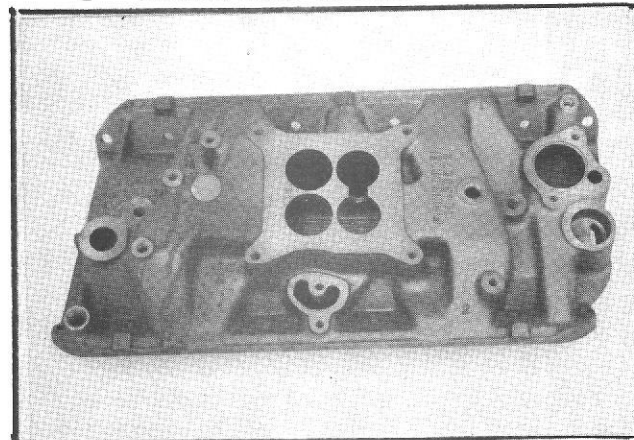
N CARBURETOR ( )



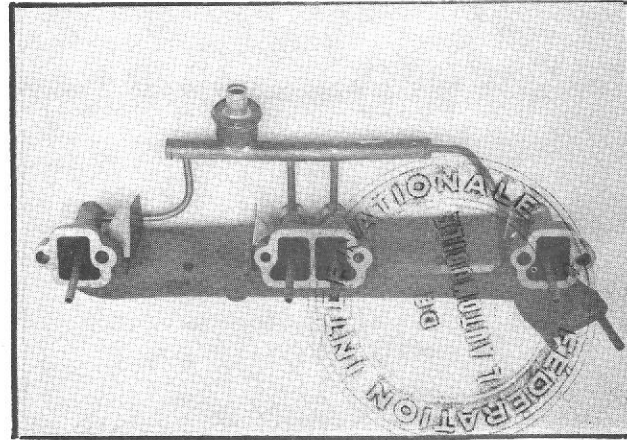
O ENGINE IN PLACE (\*\*)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



4.45 mm, 1.75 in. Dia.

STAMP

STAMP

(3)

MAKE 1970 AMXMODEL 2-Dr. HTFIA REC # 603/2/10ENGINE (Photos J and K)

- (\*\*) 130. Cycle two four ~~Wankel~~
- (\*\*) 131. Cylinders - number... 8
- (\*\*) 132. Cylinders - arrangement 90°V Wankel - # of elements and basic dimensions
- (\*\*) 133. Bore 103.63 mm 4.08 in
- (\*\*) 134. Stroke 87.37 mm 3.44 in
- (\*\*) 135. Cylinders - capacity 737.41 cm<sup>3</sup> 45 in<sup>3</sup>
- (\*\*) 136. Cylinders, total capacity 5899.3 cm<sup>3</sup> 360 in<sup>3</sup>
- (\*\*) 137. Cylinder Block - material/s... Cast Iron
- (\*\*) 138. Sleeves - material/s (if fitted) ... None
- (\*\*) 139. Head, cylinder - material/s ..Cast Iron number fitted 2/Engine
- (\*\*) 140. Port, inlet - number ... 8 4/Head
- (\*\*) 141. Port, exhaust - number... 8 4/Head
- ( ) 142. Compression - ratio... 10.0
- ( ) 143. Combustion chamber - volume 81.93 cm<sup>3</sup> 5.00 in<sup>3</sup>
- ( ) 144. Piston - material/s ... Aluminum
- ( ) 145. Rings - number ... 2 Compression, 1 Oil
- ( ) 146. Distance from gudgeon pin centre line to highest point of piston crown  
Std. 40.67 mm 1.60 in  
Opt.
- (\*\*) 147. Crankshaft - cast-forged ~~machined from solid~~
- (\*\*) 148. Crankshaft - type - integral - ~~sectional~~ - ~~# of sections~~
- (\*\*) 149. Crankshaft, main bearings - number... 5
- (\*\*) 150. Bearing cap - material/s ... Cast Iron
151. Lubrication - system - ~~dry sump~~ oil in sump
152. Lubricant - capacity 4.7 ltrs 10 pts 5 qts US
- ( ) 153. Cooler, oil - yes no
154. Cooling - method... Water
155. Cooling - capacity of system 12.3 ltrs 26 pts 13 qts US

STAMP

STAMP



MAKE 1970 AMX MODEL 2-Dr. HT FIA REC # 603/2/105

- ( ) 156. Fan, cooling (if fitted) - diameter 35.56 cm 14 in
- ( ) 157. Fan, cooling - number of blades 6 material/s.. Steel

BEARINGS

- (\*\*) 158. Crankshaft, main - type Alloy diameter 69.85 mm 2.75 in
- (\*\*) 159. Connecting rod, big end - type Alloy diameter 53.09mm 2.09 in

WEIGHTS

- ( ) 160. Flywheel (clean) 14.1 kg 31.0 lbs
- ( ) 161. Flywheel with clutch (all rotating parts) 24.1 kg 53.1 lbs
- ( ) 162. Crankshaft 26.3 kg 58.2 lbs
- 163. Connecting Rod .7 kg 1.5 lbs
- ( ) 164. Piston with rings & pin .7 kg 1.6 lbs

FOUR CYCLE ENGINES

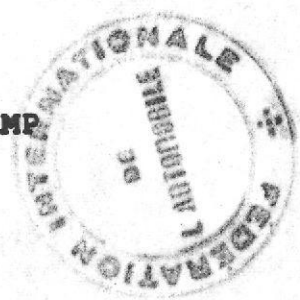
- (\*\*) 170. Camshafts - number 1 material/s ... Cast Iron
- (\*\*) 171. Camshaft - location ... In Block, Center of V
- (\*\*) 172. Camshaft Drive, type ... Chain
- (\*\*) 173. Valve operation - type ... Push Rod

INLET (See Photo P ) (for addtl info re 2 stroke engines and super charged, see page 15)

- 180. Inlet manifold - materials ... Cast Iron (Aluminum Opt.)
- 181. Valves (overall) - diameter 51.43 mm 2.025 in
- ( ) 182. Valve lift - maximum 10.79 mm .425 in
- 183. Springs, valve - number ... 8 + 8 Dampers
- 184. Spring - type ... Coil
- (\*\*) 185. Valves, per cylinder - number ... 1 - Inlet
- ( ) 186. Tappet - clearance for checking timing (cold) mm 0.0 in
- ( ) 187. Valves - open at (with tolerance for tappet 32.50° (BTC) Hydraulic clearance indicated)
- ( ) 188. Valves - close at (with tolerance for tappet 90.50° (ABC) clearance indicated)
- ( ) 189. Air filter - type ... Paper

STAMP

STAMP



MAKE 1970 AMX MODEL 2-Dr. HT RIA REC # 603/2/10

EXHAUST (See Photo Q )

- 195. Manifold, exhaust - material/s ... Cast Iron
- 196. Valves (overall) - diameter 41.27 mm 1.625 in
- 197. Valve, lift - maximum 10.79 mm .425 in
- 198. Valve Springs/valve - number ... 8 + 8 Dampers
- 199. Springs - type ... Coil
- (\*\*) 200. Valves - number per cylinder ... 1 - Exhaust
- ( ) 201. Tappet - clearance for checking timing (cold)
  - mm 0.0 in
  - Hydraulic
- ( ) 202. Valves - open at (with tolerance for tappet 71.50° (BBC)
  - clearance indicated)
- ( ) 203. Valves - close at (with tolerance for tappet 45.5° (ATC)
  - clearance indicated)

CARBURETION (See Photo N)

- 210. Carburetors, fitted - number ... 1
- 211. Type ... 4 BBL Downdraft
- ( ) 212. Make ... American Motors
- ( ) 213. Model ... AM 4300
- 214. Carburetors - number of mixture passages ... 4
- ( ) 215. Carburetor - flange hole diameter of exit port
  - Prim. 39.62 mm Prim. 1.56 in
  - Sec. 42.92 mm Sec. 1.69 in
- 216. Venturi - throat diameter+ Prim. 31.75 mm 1.25 in

INJECTION

- 220. Pump - make ... None
- 221. Plungers - number ... None
- ( ) 222. Pump - model ... None
- 223. Injectors - location ... None
- 224. Injectors - total number ... None
- ( ) 225. Inlet pipe - minimum diameter mm None in

+ For variable throat type carburetors, indicate minimum lift of shutter mechanism such as pistons in S.U.

STAMP

STAMP



503/2/105

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- ( ) 250. Horsepower - maximum engine output 290 at 4800 rpm (indicate SAE)
- ( ) 251. RPM - maximum output at that figure 290 at 4800 rpm
- ( ) 252. Torque - maximum 395 at 3200 rpm
- ( ) 253. Speed - maximum NA km/hour N/A miles/hour

WEIGHT

AMX 2-Door HT, 360 CID V-8 w/4-Speed Transmission  
 Disc Brakes, Twin-grip Differential, V-8 Suspension Handling  
 Package, Heavy Duty Engine Cooling System, Heavy Duty  
 Electrical System.

3181

Less 8-Gallon Fuel (included in Shipping Wt.)

~~148~~  
3133

Less allowance for elimination of undercoating, insulation,  
 body sealers, sound deadener, floor covering mats, trunk  
 mat, heater and blower, windshield washers, back-up  
 lights, front passenger seat belt, headrests, tire repair  
 tools, hub caps, "Air-Guard" exhaust emission air pump  
 system, mufflers, etc.

~~727~~

TOTAL

2196 lbs.

OPTIONAL EQUIPMENT

Total weight remains unchanged

<u>PART NO.</u>	<u>DESCRIPTION</u>
AM 4485728	Forged Steel Crankshaft
AM 4485725	Forged Steel Connecting Rod



MAKE 1968-'69 AMXMODEL 2-Door Hardtop

FIA REC # \_\_\_\_\_



Telephone: (203) 348-6233

Cable Address: "ACCUSFIA" Stamford, Conn.

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

433 MAIN STREET, STAMFORD, CONN. 06901

Federation Internationale de l'Automobile  
FORM OF RECOGNITION

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

I N D E X

<u>ITEM</u>	<u>NUMBERS</u>	<u>PAGES</u>
Basic Data & Photo		1
Photos		2-3
Sketches		4
Capacities & Dimensions	1-9	5
Chassis & Bodywork	20-32	6
Accessories & Upholstery	38-45	6
Wheels	50-54	6
Steering	70-82	6-7
Brakes	90-105	7
Engine	130-203	8-10
Carburetion	210-216	10
Injection	220-225	10
Engine Accessories	230-241	11
Engine & Car Performance	250-253	11
Drive Train	260-293	11-12
Optional Equipment		13-14
Variants & Evolutions, if any		

CONVERSION TABLE:

1 inch / pouce	2.54 cm	
1 foot / pied	30.479 cm	
1 square inch / pouce carre	6.452 cm <sup>2</sup>	
1 cubic inch / pouce cube	16.387 cm <sup>3</sup>	
1 pound (lb.) / livre	453.593 gr	
1 pint (U.S.)	.473 ltrs	.833 pt. Imp.
1 quart (U.S.)	.946 ltrs	.833 qt. Imp.
1 gallon (U.S.)	3.785 ltrs	.833 gal. Imp.
1 pint (Imp.)	.568 ltrs	1.20 pt. U.S.
1 quart (Imp.)	1.136 ltrs	1.20 qt. U.S.
1 gallon (Imp.)	4.546 ltrs	1.20 gal. U.S.

JAN 1 1970



Telephone: (203) 348-6233

Cable Address: "ACCUSFIA" Stamford, Conn.

AUTOMOBILE COMPETITION COMMITTEE FOR THE UNITED STATES, FIA, INC.  
433 MAIN STREET, STAMFORD, CONN. 06901

**Federation Internationale de l'Automobile**

**STANDARD CERTIFICATE OF PRODUCTION**

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

Name of Manufacturer American Motors Corporation

Make of Car 1970 AMX Model 2-Dr. Hardtop

We certify that 1,000 cars identical with the basic specification, as well as 227 cars as modified by the listed optional equipment (when required by Appendix "J"), were completed as of Nov. 15, 1969.

Cars conforming to this specification may be identified by chassis numbers AOM397X100001 & Up, and engine numbers ---.

Signed:



John W. Voelpel  
Manager, Performance Promotion

Certified:



ACCUS, FIA, Inc.



Telephone: (203) 348-6233



Cable Address: "ACCUSFIA" Stamford, Conn.

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

433 MAIN STREET, STAMFORD, CONN. 06901

**Federation Internationale de l'Automobile**

**STANDARD CERTIFICATE OF PRODUCTION**

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

Name of Manufacturer American Motors Corporation

Make of Car 1968-'69 AMX (390 V-8) Model 2-Door Hardtop

We certify that 6500 cars identical with the basic specification, as well as 1000 cars as modified by the listed optional equipment (when required by Appendix "J"), were completed as of November 1, 1968.

Cars conforming to this specification may be identified by chassis numbers 1968..A8M397X100001 & Up  
1969..A9M397X100001 & Up, and engine numbers (Date Built Code Only - See Chassis No.

Signed:

Carl Chakmakian  
Manager, Performance Activities Dept.

American Motors Corp.  
14250 Plymouth Road  
Detroit, Michigan 48232  
Phone - 493-2677 (A/C 313)

Certified:

ACCUS, FIA, Inc.