

5273
5273
M
Boss
302
G1



AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, F.I.A., INC.
433 MAIN ST.
STAMFORD, CONN. 06901
(203) 348-6233

Federation Internationale de l'Automobile
FORM OF RECOGNITION

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

Cylinder capacity 4948.9 cm3 302 in3

Manufacturer Ford Motor Company Model 1969 Mustang Boss 302

Serial # Chassis 9_02_100001 Manufacturer Ford

Serial # Engine None Manufacturer Ford

Recognition valid from APR 1 1969 List 69/2

The manufacturing of the model described in this recognition form was started on November 4, 1968 and the minimum production of 10,000 identical cars, in accordance with the specifications of this form, was reached on January 17, 1969.

- (*) 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 A. Clonan



Stamp/Signature
F.I.A.

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MODEL '69 Mustang Boss 302 FIA REC # 5273

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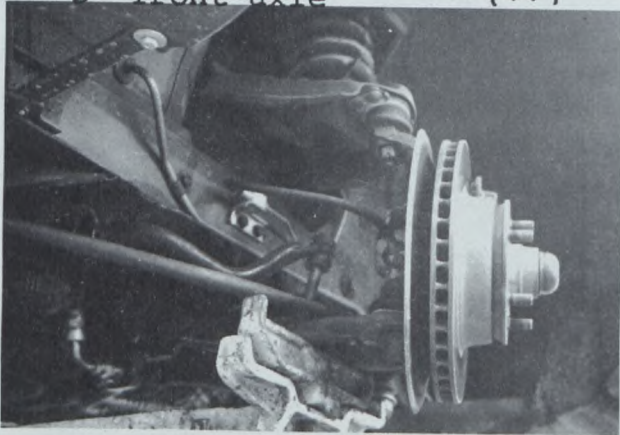
B 3/4 rear car (**)



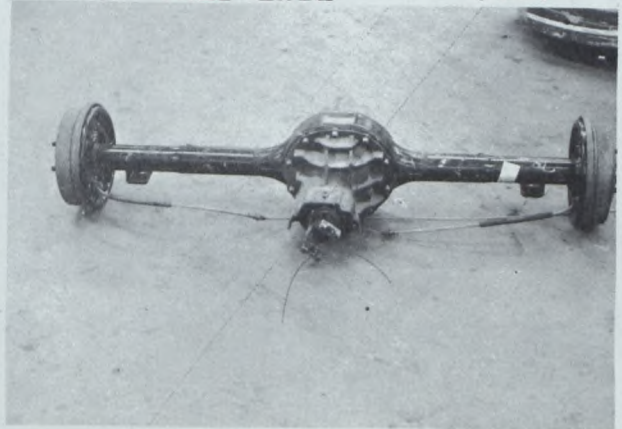
C interior-car (**)



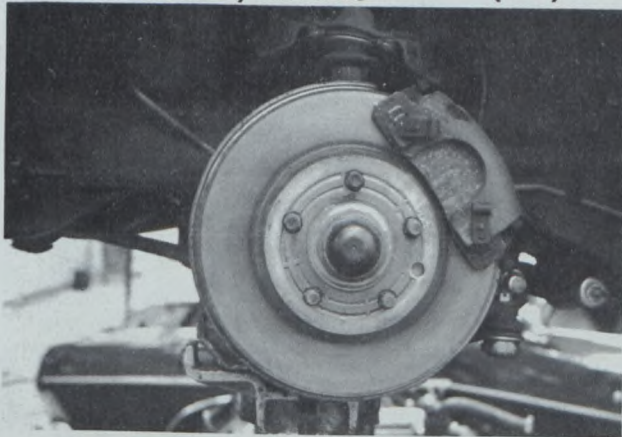
D front axle (**)



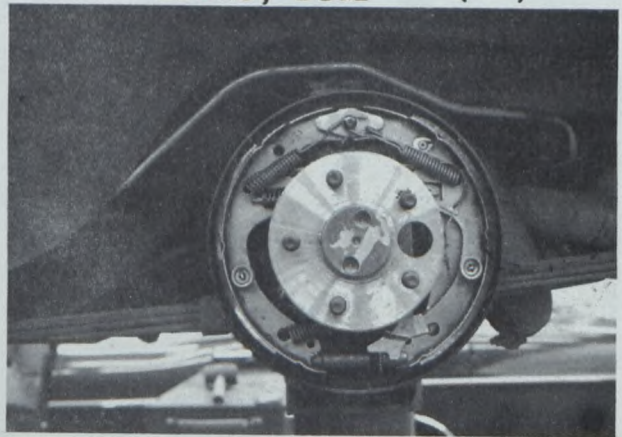
E rear axle (**)



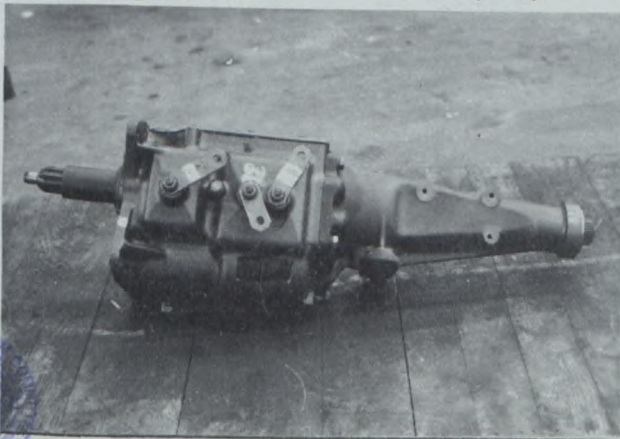
F brake, front (**)



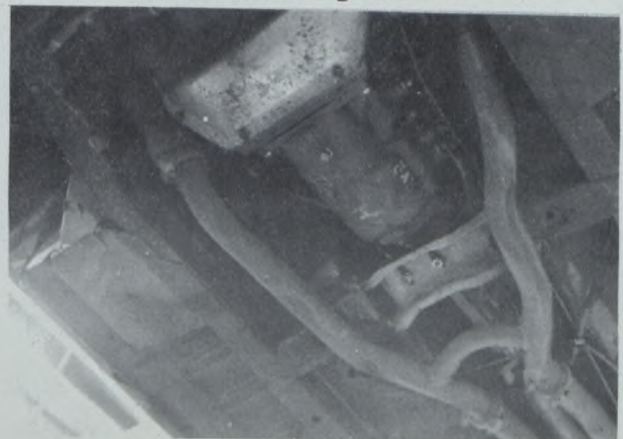
G brake, rear (**)



H gear box (**)



I exhaust system (*)



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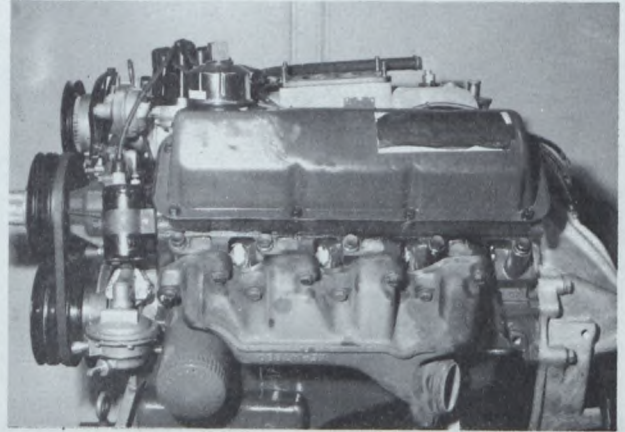
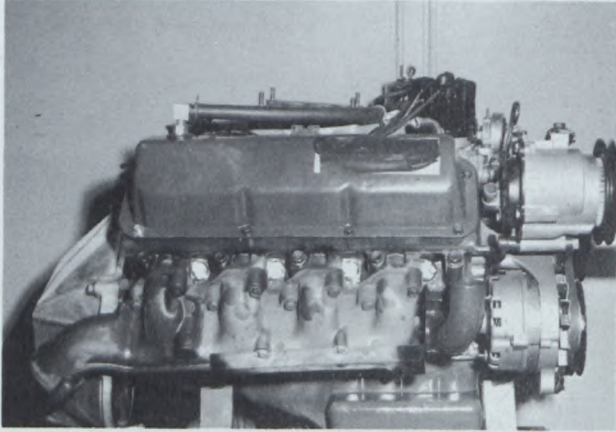
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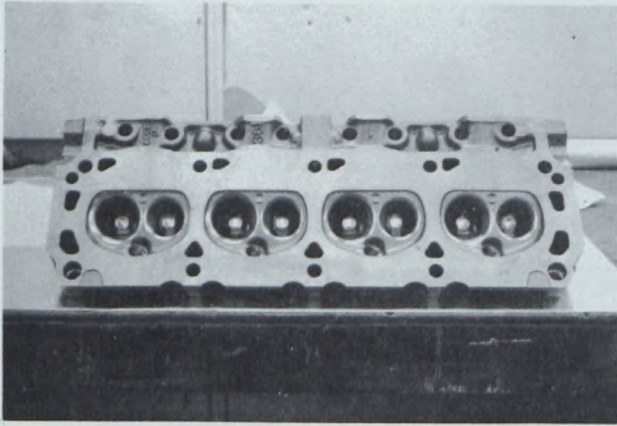
J ENGINE RIGHT (**)

K ENGINE LEFT (**)



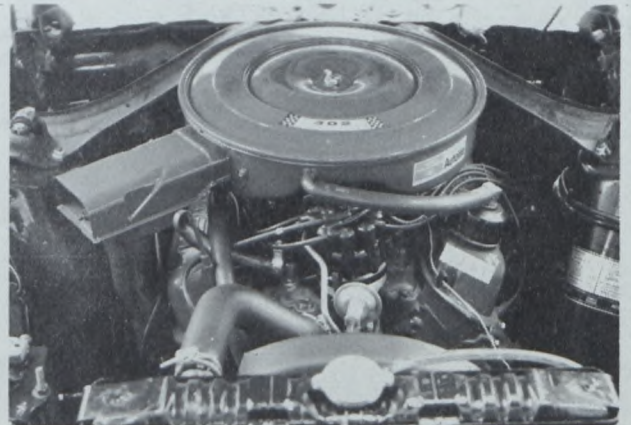
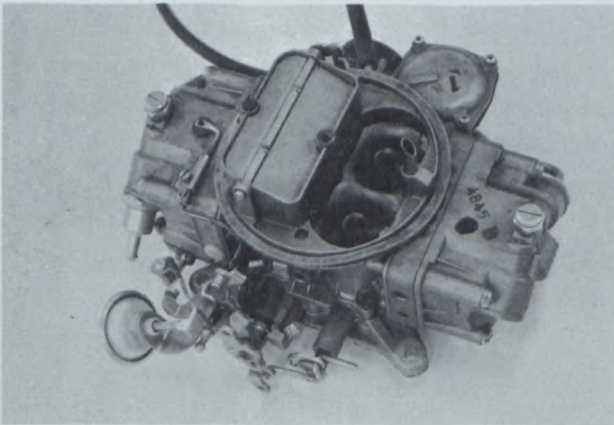
L COMBUSTION CHAMBER

M PISTON TOP (*)



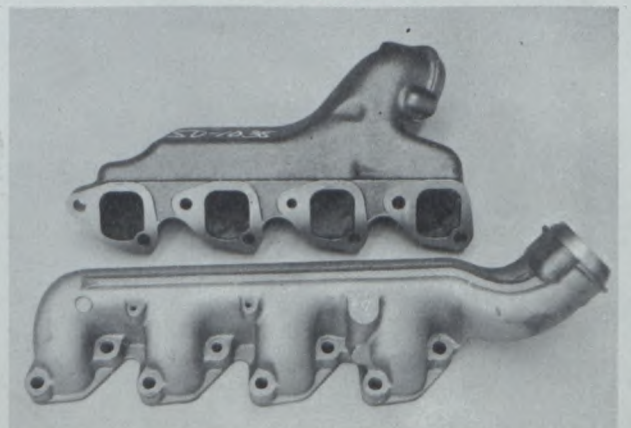
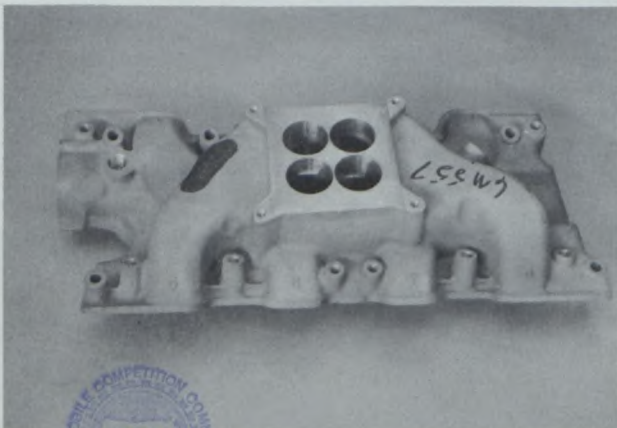
N CARBURETOR (*)

O ENGINE IN PLACE (**)



P MANIFOLD INLET

Q MANIFOLD EXHAUST



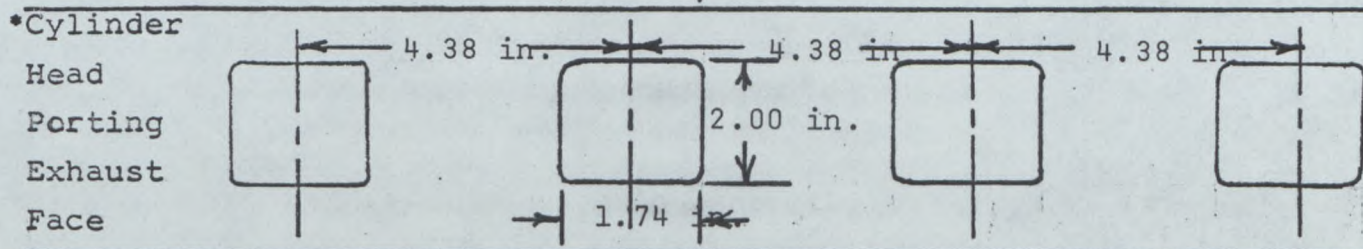
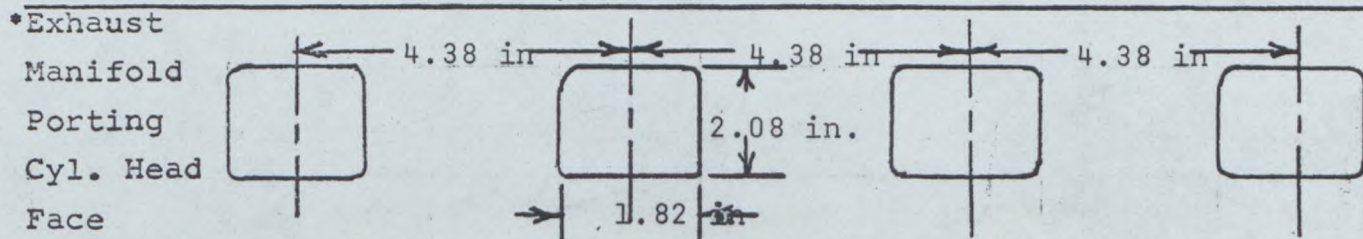
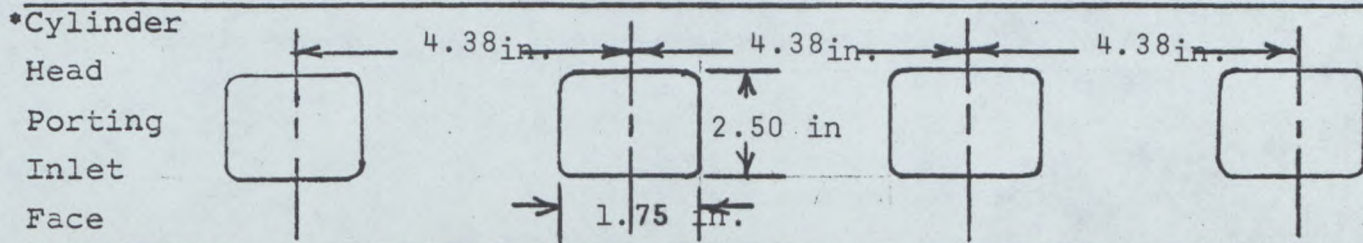
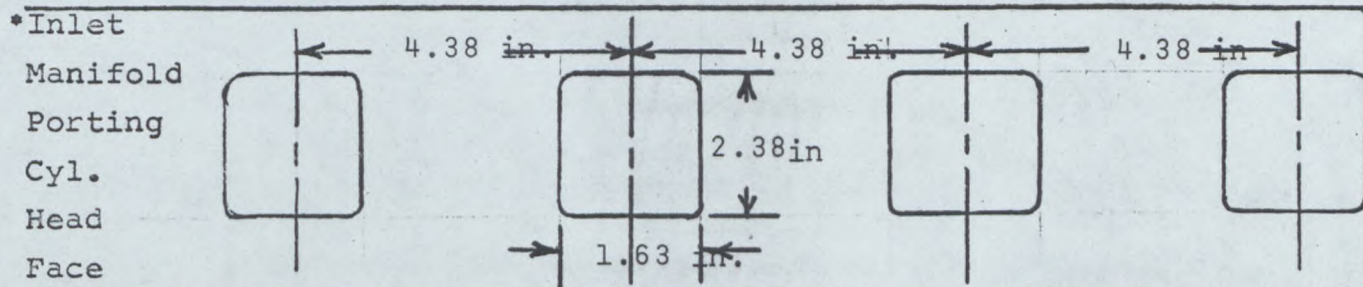
1.0.
2.32"



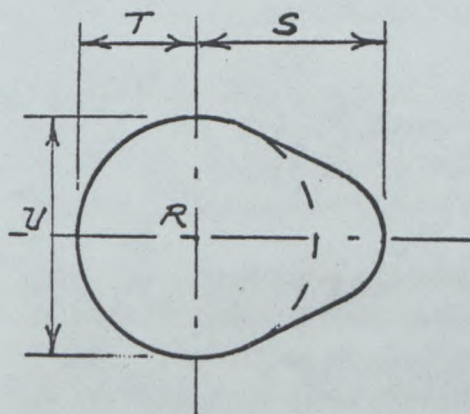
Strip out: ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.

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ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES. +/- .04 in. or +/- 1 mm



CAM



Inlet cam

S=	25.35	mm	.998	in
T=	17.73	mm	.698	in
U=	35.46	mm	1.396	in

Exhaust cam

S=	25.35	mm	.998	in
T=	17.73	mm	.698	in
U=	35.46	mm	1.396	in

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MAKE Ford MODEL '69 Mustang Boss 302 FIA REC # 5273

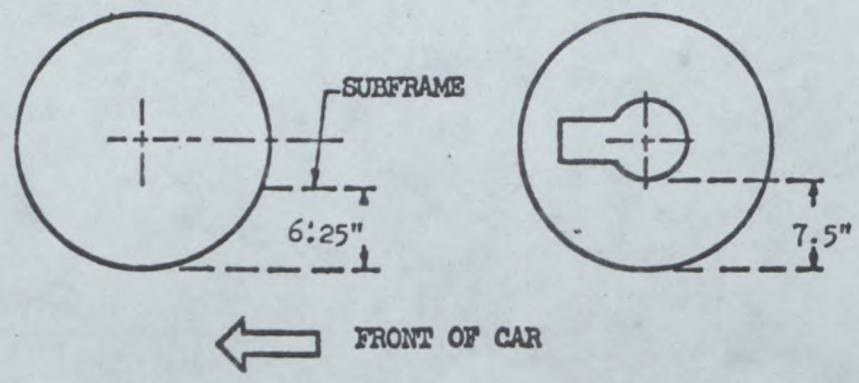
IMPORTANT: Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.
See conversion table at index.

CAPACITIES & DIMENSIONS

- (**) 1. Wheelbase 2743.2 mm 108.0 in At 0° Camber
 - (**) 2. Front track 1506.2 mm 59.3 in + 0" Toe-In
 - (**) 3. Rear track 1485.9 mm 58.5 in +
- + Differences in track resulting from use of optional wheel and rim sizes must be stipulated on recognition application forms. *See Note Below

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"



Note: * Geometry changes in front suspension will alter track.

- 4. Overall length of car 477 cm 187.4 in
- 5. Overall width of car 182.1 cm 71.7 in
- 6. Overall height of car 128 cm 50.4 in
- 7. Capacity of fuel tank (reserve included) 75.70 ltrs.
20 gallons US 16.66 gallons, Imp.
- 8. Seating capacity Four (4)
- (**) 9. Weight - total weight of car with normal equipment, water, oil and spare wheel but without fuel or repair tools. 1238 kg 2764 lbs



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CHASSIS & BODYWORK - Photos A, B, C

- (**) 20. Chassis/body construction - separate/unit construction Sheet Steel
- (**) 21. Unit construction - material/s Steel
- (**) 22. Chassis - material/s Steel separate construction
- (**) 23. Body - material/s Steel separate construction
- (**) 24. Doors - number Two (2) material/s Steel
- (**) 25. Hood - material/s Steel
- (**) 26. Trunk Lid - material/s Steel
- 27. Window, Rear - material/s Glass
- 28. Windshield - material/s Glass
- 29. Windows, front door - material/s Glass
- 30. Windows, rear door - material/s None
- 31. Windows - actuating system Regulator
- 32. Window, rear quarter - material/s Glass/Hinged

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior - yes no Optional
- 39. Air conditioning - yes no Optional
- 40. Ventilation - yes no
- (*) 41. Seats, front - type of seat and upholstery Bucket/Vinyl
- 42. Seats, front - weight
(complete with supports & rails out of car) 14 kg 35.2 lbs ea.
CHECK: BENCH _____ BUCKET X CONSOLE INCLUDED _____ Optional
- 43. Seats, rear - type of seat and upholstery Bench/Vinyl
- 44. Bumper, front - material/s Steel kg 5.13 lbs 11.3 Weight
- 45. Bumper, rear - material/s Steel kg 5.76 lbs 12.7 Weight

WHEELS

- 50. Type Steel
- 51. Weight (per wheel, without tire) 8.9 kg 19.5 lbs
- 52. Method of attachment Stud and Nut (5)
- 53. Rim, diameter 381 mm 15 in
- 54. Rim, width 170.8 mm 7 in

STEERING

- 60. Type Recirculating ball and nut
- 61. Servo assistance Optional
- 62. Number of turns of steering wheel from lock to lock 3.74/4.64
- 63. In case of servo assistance 3.74



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SUSPENSION

- (**) 70. Suspension, front (photo D) - type Independent
- (**) 71. Spring - type Coil
- (*) 72. Stabilizer - if fitted Yes
- 73. Shock absorbers - number Two (2)
- 74. Type Tubular-Adjustable
- (**) 78. Suspension, rear (photo E) - type Live Axle
- (**) 79. Spring - type Leaf
- (*) 80. Stabilizer - if fitted No
- 81. Shock absorbers - number Two (2)
- 82. Type Tubular-Adjustable

BRAKES (Photos E and F)

- (**) 90. Method of operation Hydraulic
- (*) 91. Power assisted (if fitted) - type Pedal Boost
- 92. Master Cylinders - number and type One (1) Dual
(indicate if duplex master cylinder) Front Rear
- 93. Cylinders - number per wheel One (1) One (1)
- 94. Cylinders - wheel bore 60.2 mm 2.375 in 22.2 mm .875 in
(indicate stepped bore dimensions if applicable)

Drum Brakes

- | | <u>Front</u> | <u>Rear</u> |
|------------------------------|--|--|
| 95. Diameter, inside | mm in 254 | mm 10.0 in |
| 96. Linings, length | mm in 91.2 | mm 19.34 in |
| 97. Linings, width | mm in 44 | mm 1.75 in |
| 98. Shoes - number per brake | Two (2) | |
| 99. Area, total - per brake | mm ² in ² 21,840 | mm ² 233.85 in ² |

Disc Brakes

- | | | | | |
|------------------------------|--------------------------|----------------------|-----------------|-----------------|
| 100. Diameter, outside | 287.0 mm | 11.3 in | mm | in |
| 101. Thickness of disc | 23.81 mm | .937 in | mm | in |
| 102. Lining - length | 124.5 mm | 4.9 in | mm | in |
| 103. Lining - width | 52.6 mm | 2.07 in | mm | in |
| 104. Pads - number per brake | Two (2) | | | |
| 105. Area, total - per brake | 13,097.5 mm ² | 20.3 in ² | mm ² | in ² |



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ENGINE (Photos J and K)

- (**) 130. Cycle two four Wankel
- (**) 131. Cylinders - number Eight (8)
- (**) 132. Cylinders - arrangement Vee Wankel - # of elements and basic dimensions
- (**) 133. Bore 101.6 mm 4.0 in
- (**) 134. Stroke 76.2 mm 3.0 in
- (**) 135. Cylinders - capacity 619.4 cm3 37.8 in3
- (**) 136. Cylinders, total capacity 4948.9 cm3 302 in3
- (**) 137. Cylinder Block - material/s Cast Iron
- (**) 138. Sleeves - material/s (if fitted) None
- (**) 139. Head, cylinder - material/s Cast Iron number fitted Two (2)
- (**) 140. Port, inlet - number Eight (8)
- (**) 141. Port, exhaust - number Eight (8)
- (*) 142. Compression - ratio 10.5:1
- (*) 143. Combustion chamber - volume 62.77cm3 3.826 in3
- (*) 144. Piston - material/s Aluminum Alloy With Steel Struts
- (*) 145. Rings - number Three (3)
- (*) 146. Distance from gudgeon pin centre line to highest point of piston crown 45.72 mm 1.80 in
- (**) 147. Crankshaft - cast-forged-mach from solid
- (**) 148. Crankshaft - type - integral - sectioned - # of sections
- (**) 149. Crankshaft, main bearings - number Five (5)
- (**) 150. Bearing cap - material/s Cast Iron
- 151. Lubrication - system - dry sump/oil in sump
- 152. Lubricant - capacity 7.568 ltrs pts 8 qts US
- (*) 153. Cooler, oil - yes no
- 154. Cooling - method Water Radiator
- 155. Cooling - capacity of system 14.76 ltrs pts 16.1 qts US



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- (*) 156. Fan, cooling (if fitted) - diameter 44.6/43.6 cm 17.56/17.18 in
- (*) 157. Fan, cooling - number of blades 5/4 material/s Aluminum/Steel

BEARINGS

- (**) 158. Crankshaft, main - type Insert diameter 57.11 mm 2.24 9 in
- (**) 159. Connecting rod, big end - type Insert diameter 53.9 mm 2.1230 in

WEIGHTS

- (*) 160. Flywheel (clean) 9.07 kg 20.0 lbs ± 5%
- (*) 161. Flywheel with clutch (all rotating parts) 30.30 kg 66.8 lbs ± 5%
- (*) 162. Crankshaft 21.32 kg 47 lbs ± 5%
- 163. Connecting Rod .748 kg 1.65 lbs ± 5%
- (*) 164. Piston with rings & pin .552 kg 1.216 lbs ± 5%

FOUR CYCLE ENGINES

- (**) 170. Camshafts - number One (1) material/s Alloy Iron
- (**) 171. Camshaft - location Cylinder Block
- (**) 172. Camshaft Drive, type Chain
- (**) 173. Valve operation - type Tappet, Pushrod, Rocker

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

- 180. Inlet manifold - materials Aluminum
- 181. Valves (overall) - diameter 56.642 mm 2.23 in
- (*) 182. Valve lift - maximum 12.70 mm .50 in
- 183. Springs, valve - number Two (2)
- 184. Spring - type Coil and Flat
- (**) 185. Valves, per cylinder - number One (1)
- (*) 186. Tappet - clearance for checking timing (cold) .635 mm .025 in
- (*) 187. Valves - open at (with tolerance for tappet clearance indicated) 41° BTC
- (*) 188. Valves - close at (with tolerance for tappet clearance indicated) 79° ABC
- (*) 189. Air filter - type Dry Element

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EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s Cast Iron
196. Valves (overall) - diameter 43.43 mm 1.71 in
197. Valve, lift - maximum 12.70 mm .50 in
198. Valve Springs/valve - number Two (2)
199. Springs - type Coil and Flat
- (**) 200. Valves - number per cylinder One (1)
- (*) 201. Tappet - clearance for checking timing (cold)
.635 mm .025 in
- (*) 202. Valves - open at (with tolerance for tappet clearance indicated) 85° BBC
- (*) 203. Valves - close at (with tolerance for tappet clearance indicated) 35° ATC

CARBURETION (See Photo N)

210. Carburetors, fitted - number One (1)
211. Type Downflow
- (*) 212. Make Holley
- (*) 213. Model 9510
214. Carburetors - number of mixture passages Four (4)
- (*) 215. Carburetor - flange hole diameter of exit port
42.875 mm 1.688 in
216. Venturi - throat diameter+ 33.35 mm 1.313 in

INJECTION

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

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

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ENGINE ACCESSORIES

- (*) 230. Pump, fuel - mechanical and/or electrical
231. Number fitted One (1) Each Two (2) Total
232. Ignition system - type Battery and Coil
233. Distributors - number One (1)
234. Coils, ignition - number One (1)
235. Spark plugs - number per cylinder One (1)
236. Generator (or Alternator) - number fitted One (1)
237. Drive - method Belt
238. Voltage, generator - volts 12.8
239. Battery - number One (1)
240. Location Engine Compartment or Trunk
241. Voltage - volts 12 amp hrs 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- (*) 250. Horsepower - maximum engine output 290 at 6000 rpm SAE
(indicate SAE or DIN)
(*) 251. RPM - maximum 6000 output at that figure 290
(*) 252. Torque - maximum 345 at 3200 rpm
(*) 253. Speed - maximum km/hour miles/hour

DRIVE TRAIN

Clutch

260. Type Dry Plate
261. Plates - number of driven One (1)
262. Plates - diameter 26.7 cm 10.5 in
263. Linings - diameter - inside 16.5 cm 6.5 in
 Linings - diameter - outside 26.7 cm 10.5 in
264. Method of operation Mechanical

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Gear Box (Photo H)

- (**) 270. Manual type - make Ford
- (**) 271. Ratios, forward - number Four (4)
- 272. Ratios, forward - number synchronized Four (4)
- 273. Gear-Shift - location Floor optional
- (**) 274. Automatic - make Ford type Hydraulic with Planetary Gears and Torque Converter.
- (**) 275. Ratios, forward - number Three (3)
- 276. Gear-Shift - location Floor

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth
1	2.78	$\frac{23}{30} \quad \frac{32}{15}$	2.46	Torque Converter Maximum Ratio at Stall 2.02:1	2.32	$\frac{23}{25} \quad \frac{32}{15}$		
2	1.93	$\frac{23}{30} \quad \frac{31}{21}$	1.46		1.69	$\frac{23}{25} \quad \frac{28}{18}$		
3	1.36	$\frac{23}{30} \quad \frac{25}{24}$	1.00		1.29	$\frac{23}{25} \quad \frac{25}{21}$		
4	1.0	Direct			1.0	Direct		
5								
6								
reverse	2.78		2.20		2.32			

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

FINAL DRIVE

- (**) 290. Type Hypoid, Semi-Floating, Straddle, Mounted Pinion
- (**) 291. Differential - type Locking-By Ratchet or Friction
- (**) 292. Limited Slip Differential (if fitted) - type \neq Positive locking by Ratchet or Friction.
- 293. Ratio 3.25 3.50 3.70 3.91 4.11 4.30
- Teeth - number $\frac{39}{12} \quad \frac{35}{10} \quad \frac{37}{10} \quad \frac{43}{11} \quad \frac{37}{9} \quad \frac{43}{10}$
- (\neq) Specify friction or positive locking type



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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.

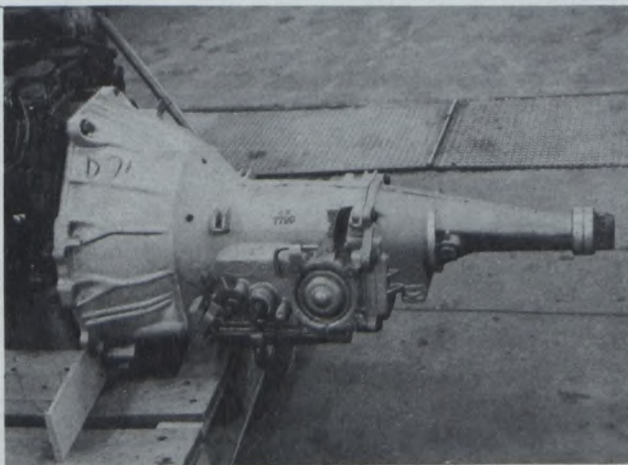
During the technical inspection of cars entered in Group IV (Sports Cars) only the following items of the present recognition form are to be taken into consideration:

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.

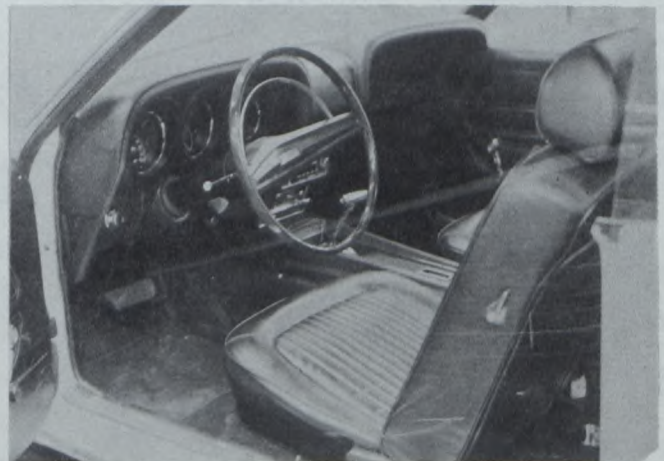
Optional equipment affecting preceding information:

CATALOGUE PART NUMBER MUST BE GIVEN

S7MS-6675-B Sump Guard.



Automatic Transmission Photo H



Interior with Automatic Transmission



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