

FORD - MUSTANG HARD TOP (1967)

MARQUE ET MODELE

VALIDITE HOMOLOGATION

5129

FICHE NR.

1/6500

GROUPE / CLASSE

[illegible]

Autres homologations du modèle

Vérifiée le 26/10/95 par [Signature] visée ce jour le _____ par _____

MAKE FORD MODEL 1967 MUSTANG HARDTOP FIA REC # 5129
 1454



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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

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CONVERSION TABLE:

1 inch / pouce	2.54 cm	
1 foot / pied	30.479 cm	
1 square inch / pouce carre	6.452 cm ²	
1 cubic inch / pouce cube	16.387 cm ³	
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.



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Cylinder capacity 6393 cm3 390 in3

Manufacturer FORD MOTOR COMPANY Model 1967 MUSTANG HARDTOP

Serial # Chassis 7F0LS-100001 Manufacturer FORD

Serial # Engine Same Manufacturer FORD

Recognition valid from _____ List _____

The manufacturing of the model described in this recognition form was started on 9/6 and the minimum production of 10,000 identical cars, in accordance with the specifications of this form, was reached on 12/7, 1966.

(*) 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

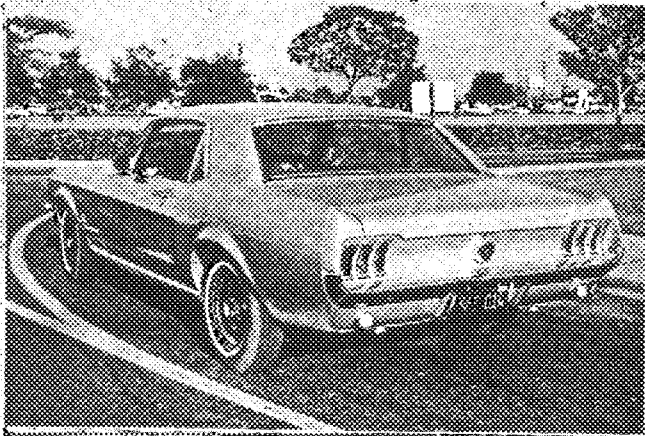
Stamp/Signature of
National Sporting Authority

Stamp/Signature
F.I.A.

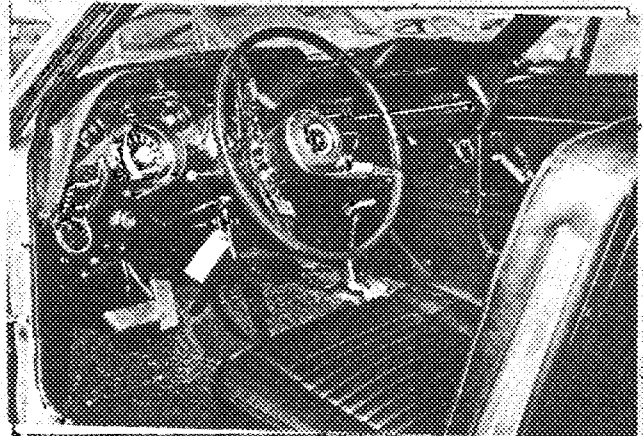
John L. Clivon



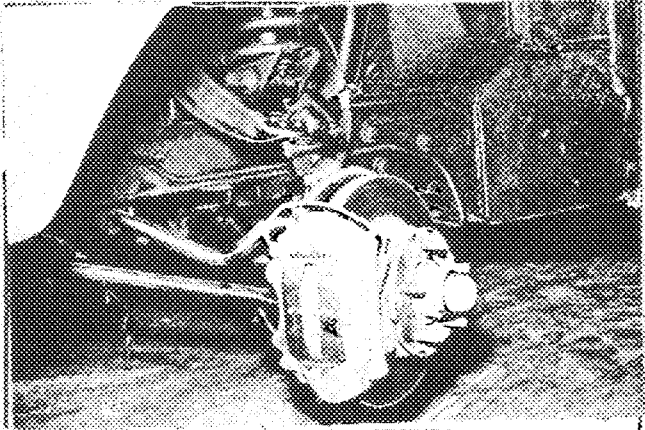
B 3/4 rear car (**)



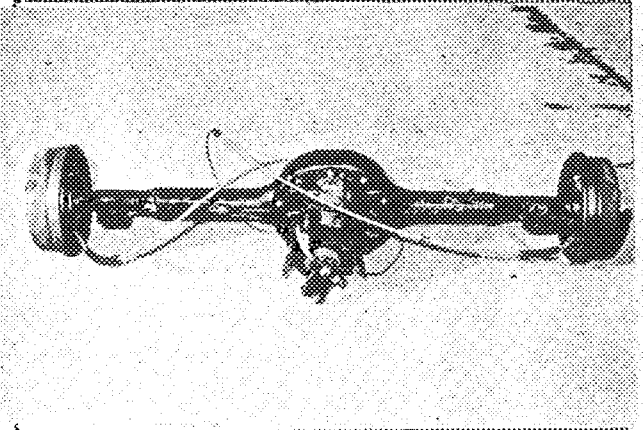
C interior-car (**)



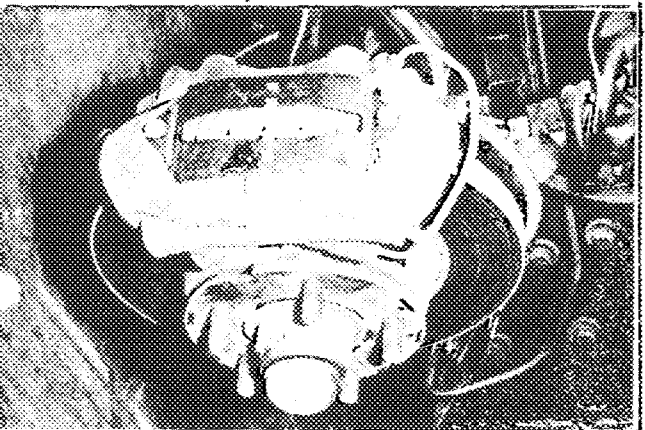
D front axle (**)



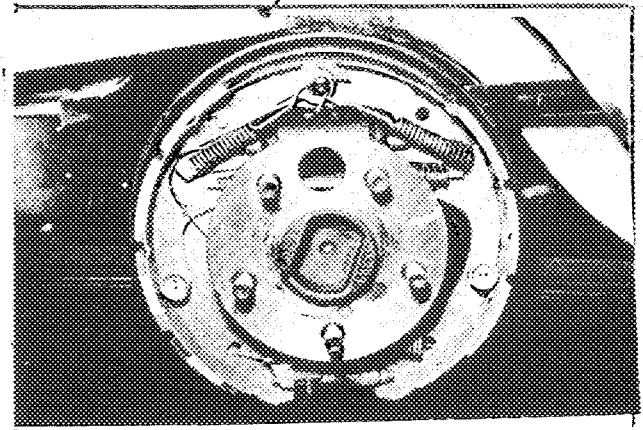
E rear axle (**)



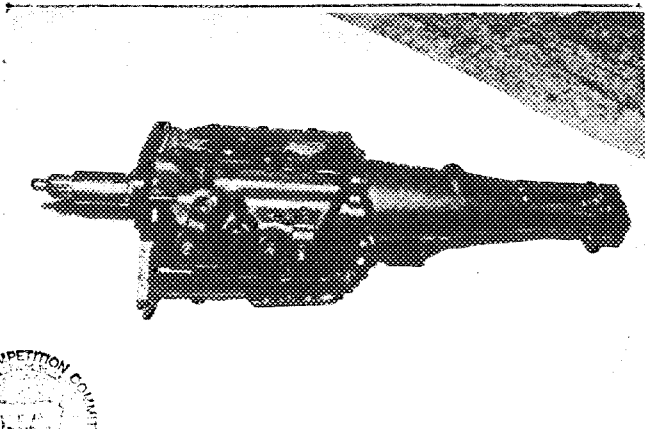
F brake, front (**)



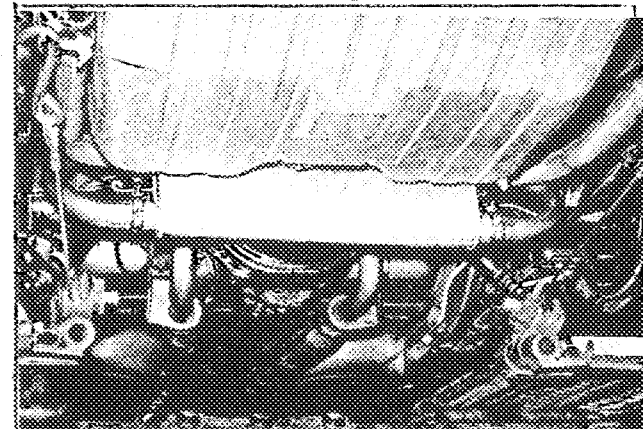
G brake, rear (**)



H gear box (**)



I exhaust system (*)



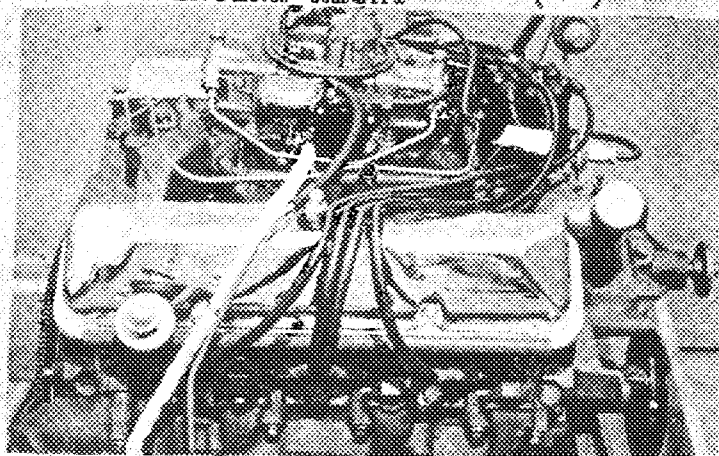
See Alternative - Page 14

STAMP

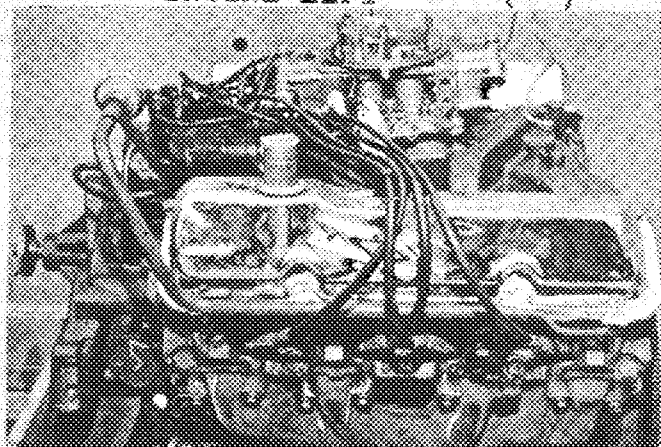
MAKE FORD

MODEL 1967 MUSTANG HARDTOP FIA REC # 5129

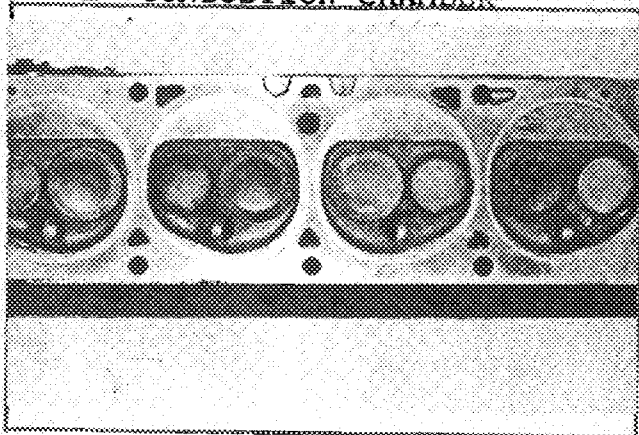
J ENGINE RIGHT (**)



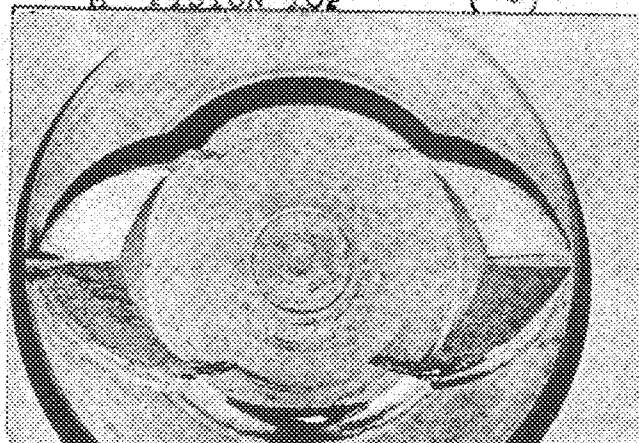
K ENGINE LEFT (**)



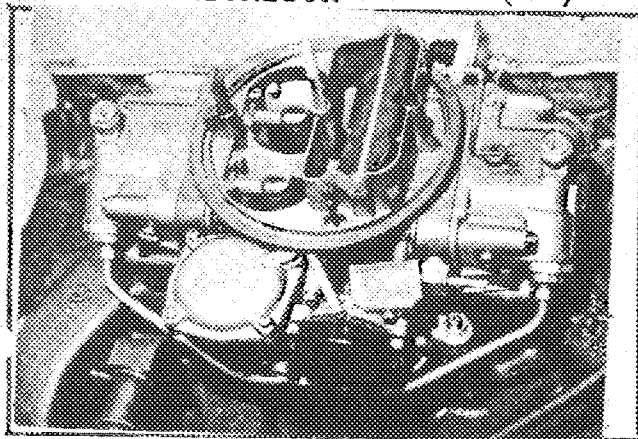
L COMBUSTION CHAMBER



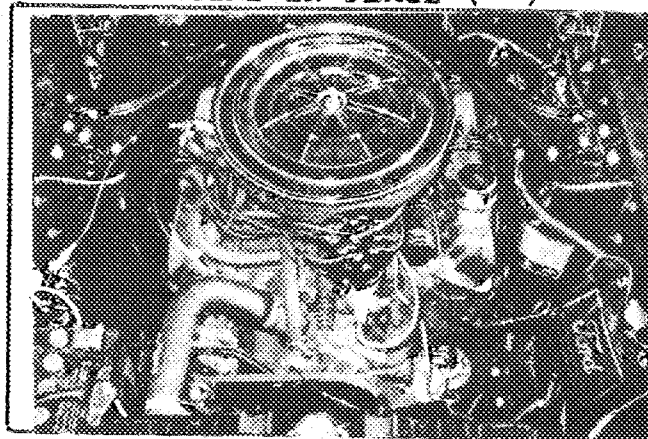
M PISTON TOP (*)



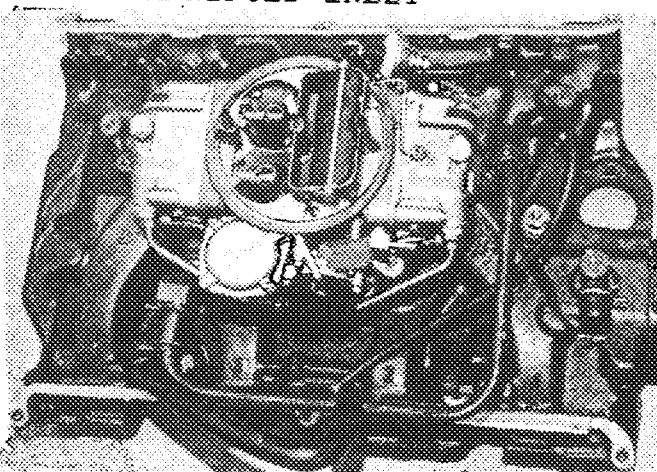
N CARBURETOR (*)



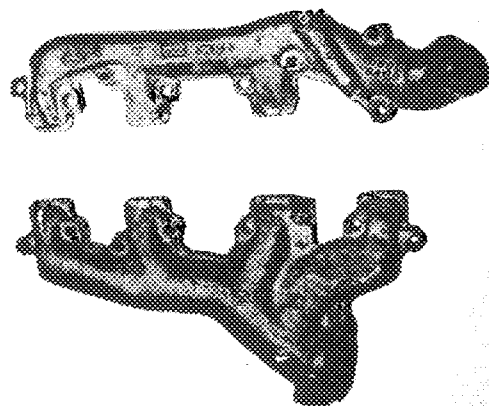
O ENGINE IN PLACE (**)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



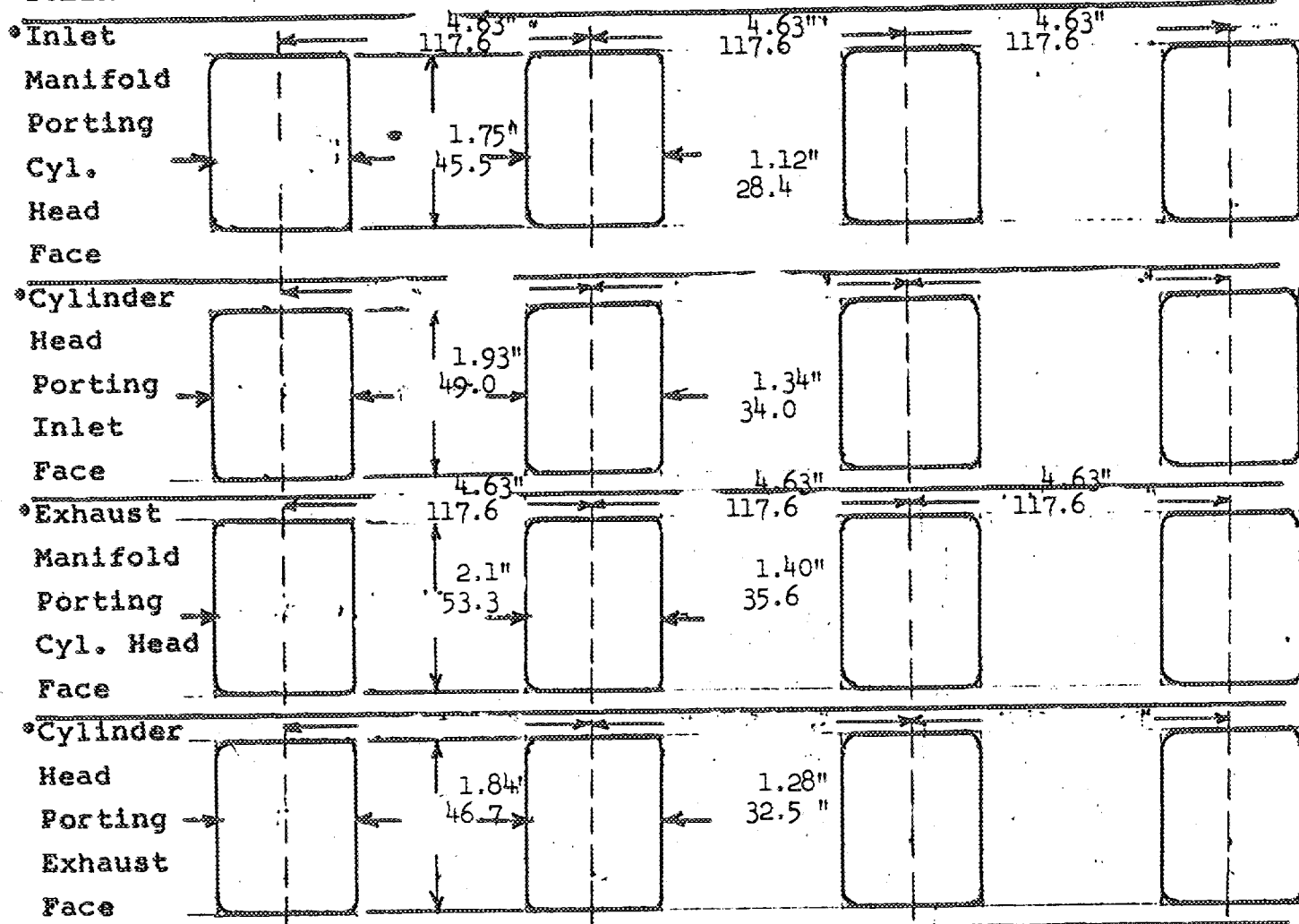
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IT INDICATE ACTUAL DIMENSIONS
AND MANUFACTURER'S TOLERANCES.

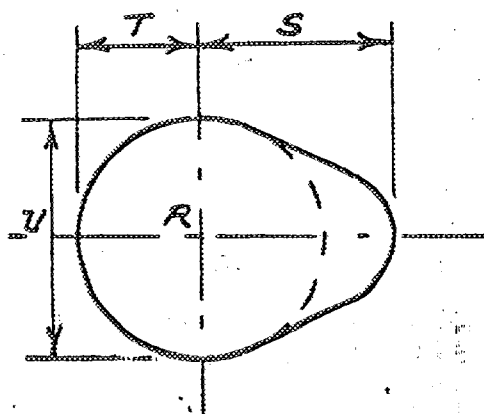
STAMP

(3)

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



CAM



Inlet cam

S=	26.0	mm	1.025	in
T=	19.0	mm	.747	in
U=	37.9	mm	1.494	in

Exhaust cam

S=	26.2	mm	1.030	in
T=	19.0	mm	.747	in
U=	37.9	mm	1.494	in

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MAKE FORDMODEL 1967 MUSTANG HARDTOP REC # 5129

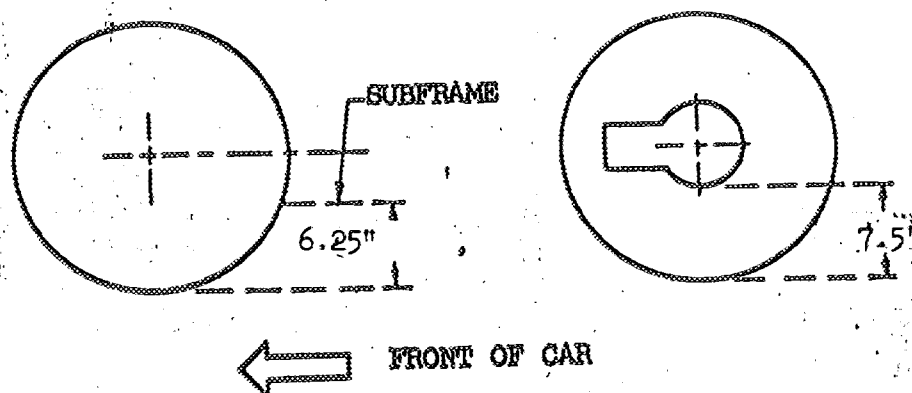
IMPORTANT: Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.
See conversion table at index.

CAPACITIES & DIMENSIONS

- (**) 1. Wheelbase 2743.2 mm 108 in
 (**) 2. Front track 1483.4 mm 58.4 in + At 0° Camber - 0°
 (**) 3. Rear track 1475.7 mm 58.1 in + ^{Toe-In} See Note Below
 + Differences in track resulting from use of optional wheel and rim sizes must be stipulated on recognition application forms.

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 466.34 cm 183.6 in
 5. Overall width of car 180.086 cm 70.9 in
 6. Overall height of car 131.064 cm 51.6 in
 7. Capacity of fuel tank (reserve included) 128.7 or 64.3 ltrs.
 34 or 17 gallons US gallons, Imp.
 8. Seating capacity 4
 (**) 9. Weight - total weight of car with normal equipment, water,
 oil and spare wheel but without fuel or repair
 tools. 1242.53 kg 2746 lbs



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CHASSIS & BODYWORK - Photos A, B, C

- (**) 20. Chassis/body construction - separate/unit construction
- (**) 21. Unit construction - material/s Sheet Steel
- (**) 22. Chassis - material/s Steel separate construction
- (**) 23. Body - material/s Steel separate construction
- (**) 24. Doors - number 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 DNA
- 31. Windows - actuating system Regulator
- 32. Window, rear quarter - material/s Glass

ACCESSORIES AND UPHOLSTERY

- 38. Heating, interior - yes no
- 39. Air conditioning - yes no
- 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) 16.0 kg 35.2 Pair lbs
- CHECK: BENCH _____ BUCKET X CONSOLE INCLUDED _____
- 43. Seats, rear - type of seat and upholstery Bench - Vinyl
- 44. Bumper, front - material/s Steel kg 4.07 lbs 9 Weight
- 45. Bumper, rear - material/s Steel kg 6.33 lbs 14 Weight

WHEELS

- 50. Type Steel
- 51. Weight (per wheel, without tire) 8.9 kg 19.5 lbs
- 52. Method of attachment Five Studs
- 53. Rim, diameter 356-381 mm 14 - 15 in
- 54. Rim, width 152-152 mm 6 6 in

SUSPENSION

- (**) 70. Suspension, front (photo D) - type Independent
- (**) 71. Spring - type Coil
- (*) 72. Stabilizer - if fitted Yes



STAMP

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)
 (indicate if duplex master cylinder) Front Rear
 93. Cylinders - number per wheel 4 1
 94. Cylinders - wheel bore 41.3 mm 1.625 in 23 mm .906 in
 (indicate stepped bore dimensions if applicable)

Drum Brakes

- | | <u>Front</u> | | <u>Rear</u> | |
|------------------------------|-----------------|-----------------|------------------------|-----------------------|
| 95. Diameter, inside | mm | in | 254 mm | 10 in |
| 96. Linings, length | mm | in | 495 mm | 19.5 in |
| 97. Linings, width | mm | in | 63.5 mm | 2.5 in |
| 98. Shoes - number per brake | Two (2) | | | |
| 99. Area, total - per brake | mm ² | in ² | 31,432 mm ² | 48.75 in ² |

Disc Brakes

- | | | | | |
|------------------------------|------------------------|-----------------------|-----------------|-----------------|
| 100. Diameter, outside | 287 mm | 11.3 in | mm | in |
| 101. Thickness of disc | 20 mm | .8 in | mm | in |
| 102. Lining - length | 123 mm | 4.875 in | mm | in |
| 103. Lining - width | 46 mm | 1.81 in | mm | in |
| 104. Pads - number per brake | Two (2) | | | |
| 105. Area, total - per brake | 11,316 mm ² | 17.52 in ² | mm ² | in ² |



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MAKE FORDMODEL 1967 MUSTANG HARDTOPFIA REC # 5129ENGINE (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 102.9 mm 4.05 in
- (**) 134. Stroke 96.0 mm 3.78 in
- (**) 135. Cylinders - capacity 798 cm3 48.7 in3
- (**) 136. Cylinders, total capacity 6384 cm3 389.5 in3
- (**) 137. Cylinder Block - material/s Cast Iron
- (**) 138. Sleeves - material/s (if fitted) None Fitted
- (*) 139. Head, cylinder - material/s Cast Iron number fitted Two (2)
- (**) 140. Port, inlet - number Eight (8) - 4 Per Head
- (**) 141. Port, exhaust - number Eight (8) - 4 Per Head
- (*) 142. Compression - ratio 10.5
- (*) 143. Combustion chamber - volume 71.0cm3 4.34 in3
- (*) 144. Piston - material/s Aluminum
- (*) 145. Rings - number Three (3)
- (*) 146. Distance from gudgeon pin centre line to highest point of piston crown 45.2 mm 1,780 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 4.7 ltrs pts 5 qts US
- (*) 153. Cooler, oil - yes no
154. Cooling - method Water Radiator
155. Cooling - capacity of system 19.39 ltrs pts 20.5 qts US

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MAKE FORD MODEL 1967 MUSTANG HARDTOP FIA REC # 5129

- (*) 156. Fan, cooling (if fitted) - diameter 46.36 cm 18.25 in
(*) 157. Fan, cooling - number of blades 7 material/s Steel

BEARINGS

- (**) 158. Crankshaft, main - type Insert diameter 69.82mm 2.7488 in
(**) 159. Connecting rod, big end - type Insert diameter 61.94 mm 2.4384 in

WEIGHTS

- (*) 160. Flywheel (clean) 13.2 kg 29.0 lbs
(*) 161. Flywheel with clutch (all rotating parts) 23.6 kg 52.0 lbs
(*) 162. Crankshaft 29.1 kg 64 lbs
163. Connecting Rod 77 kg 1.69 lbs
(*) 164. Piston with rings & pin .83 kg 1.82 lbs

FOUR CYCLE ENGINES

- (**) 170. Camshafts - number One (1) material/s Alloy Iron
(**) 171. Camshaft - location Block
(**) 172. Camshaft Drive, type Chain
(**) 173. Valve operation - type Tappet - Push Rod & 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 51.74 mm 2.037 in
(*) 182. Valve lift - maximum 12.2 mm .481 in
183. Springs, valve - number Two (2)
184. Spring - type Coil
(**) 185. Valves, per cylinder - number One (1)
(*) 186. Tappet - clearance for checking timing (cold) 0 mm 0 in
(*) 187. Valves - open at (with tolerance for tappet 18 BTC clearance indicated)
(*) 188. Valves - close at (with tolerance for tappet 72 ABC clearance indicated)
(*) 189. Air filter - type Paper

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EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s Cast Iron
196. Valves (overall) - diameter 39.78 mm 1.564in
197. Valve, lift - maximum 12.45 mm .490in
198. Valve Springs/valve - number Two (2)
199. Springs - type Coil
- (**) 200. Valves - number per cylinder One (1)
- (*) 201. Tappet - clearance for checking timing (cold)
0 mm 0in
- (*) 202. Valves - open at (with tolerance for tappet 82° BBC
clearance indicated)
- (*) 203. Valves - close at (with tolerance for tappet 28° ATC
clearance indicated)

CARBURETION (See Photo N)

210. Carburetors, fitted - number One (1)
211. Type 4V Down Draft
- (*) 212. Make Holley
- (*) 213. Model 9510
214. Carburetors - number of mixture passages Four (4)
- (*) 215. Carburetor - flange hole diameter of exit port
39.6 mm 1.561 in
216. Venturi - throat diameter+ Prim. Sec. Prim. Sec.
31.8 33.3mm in 1.25 1.3125

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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MAKE FORD MODEL 1967 MUSTANG HARDTOP REC # 5129

ENGINE ACCESSORIES

- (*) 230. Pump, fuel - mechanical and/or electrical
231. Number fitted One (1) Each
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
Alternator
238. Voltage, ~~generator~~ - volts 12.8
239. Battery - number One (1)
240. Location Front of Car
241. Voltage - volts 12 amp hrs

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- (*) 250. Horsepower - maximum engine output 320 at 4800 rpm
(indicate SAE or DIN)
(*) 251. RPM - maximum output at that figure
(*) 252. Torque - maximum 427 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 29.2 cm 11.5 in
263. Linings - diameter - inside 17.78 cm 7 in
Linings - diameter - outside 29.2 cm 11.2 in
264. Method of operation Mechanical

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MAKE FORDMODEL 1967 MUSTANG HARDTOPFIA REC # 5129Gear 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 Torque Converter with Planetary Gears
- (**) 275. Ratios, forward - number Three (3)
276. Gear-Shift - location Floor

277.	Manual Ratio	# Teeth	Automatic Ratio	# Teeth	Alternative manual/automatic			
					Ratio	# Teeth	Ratio	# Teeth
1	2.32	$\frac{23}{25}$ $\frac{32}{15}$	2.46					
2	1.69	$\frac{23}{25}$ $\frac{28}{18}$	1.46					
3	1.29	$\frac{23}{25}$ $\frac{25}{21}$	1.00					
4	1.00	Direct						
5								
6								
reverse	2.32		2.20					

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 Ratchet Locking
- (**) 292. Limited Slip Differential (if fitted) - type \neq Positive Cocking
293. Ratio 3.0 3.25 3.89 3.50 3.70 4.11
Teeth - $\frac{39}{9}$ $\frac{39}{9}$ $\frac{35}{9}$ $\frac{35}{10}$ $\frac{37}{10}$ $\frac{37}{9}$
- (\neq) Specify friction or positive locking type

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MAKE FORD

MODEL 1967 MUSTANG HARDTOP FIA REC # 5129

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

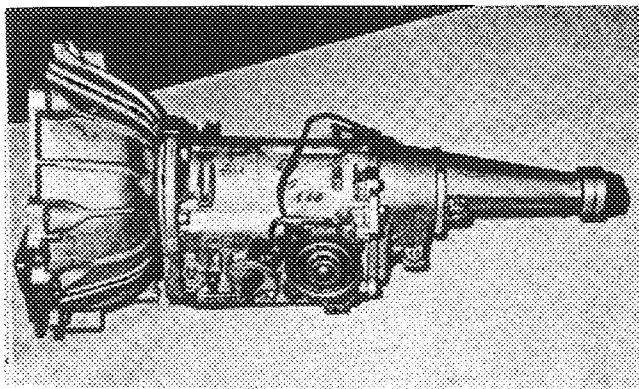


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Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

ALTERNATIVE AUTOMATIC GEARBOX



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