



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

FORD - MUSTANG GL8 F.B

MARQUE ET MODELE

1/09

VALIDITE HOMOLOGATION

52-50

FICHE NR.

1 / + 2000

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 28/4/15 par [Signature] visée ce jour le \_\_\_\_\_ par \_\_\_\_\_



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

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

5250

M  
428  
F.B.  
G1

Federation Internationale de l'Automobile  
FORM OF RECOGNITION

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

Cylinder capacity 7003.2 cm3 427.36 in3

Manufacturer Ford Model 1969 Mustang 428 Fastback

Serial # Chassis 9\_02\_100001 Manufacturer Ford

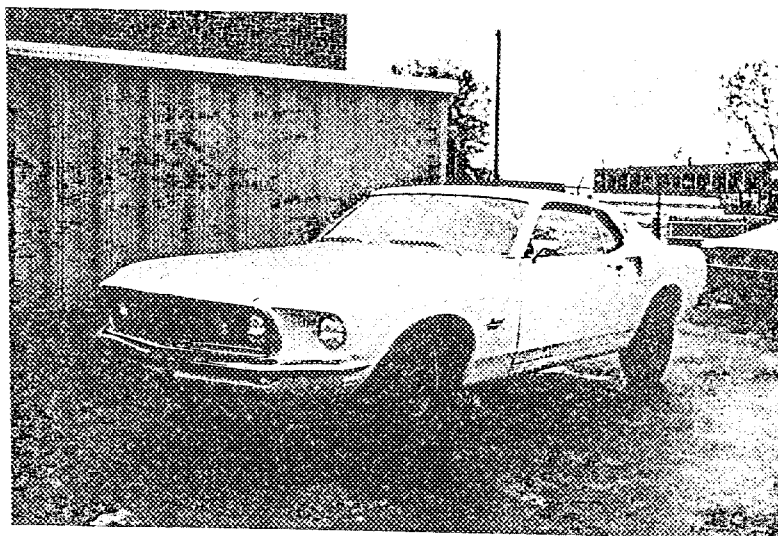
Serial # Engine None Manufacturer Ford

Recognition valid from 1st Jan. 1969 List 1969/1

The manufacturing of the model described in this recognition form was started on August 19 and the minimum production of 10,000 identical cars, in accordance with the specifications of this form, was reached on October 18, 1968.

(\*) 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

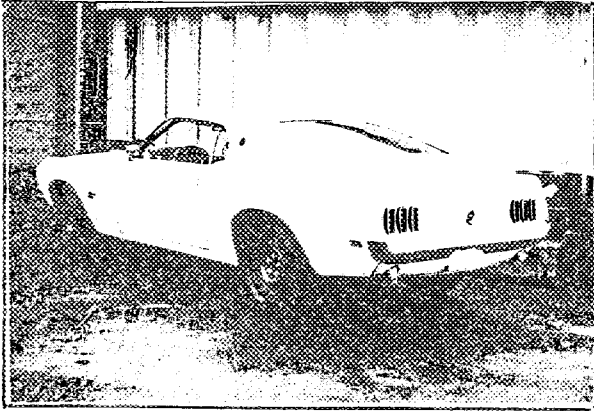


Stamp/Signature  
F.I.A.

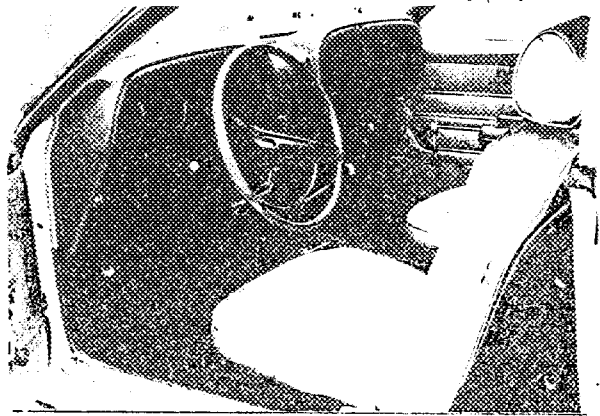


(1)

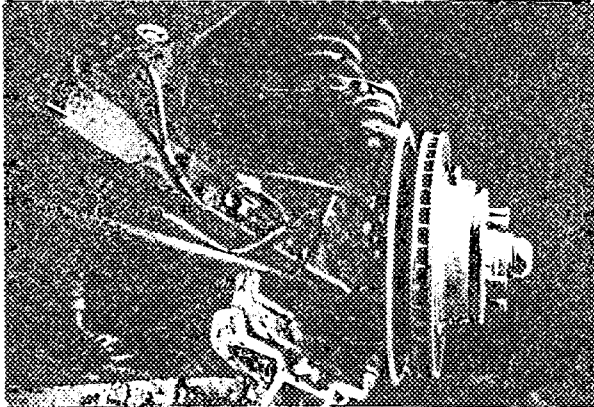
B 3/4 rear car (\*\*)



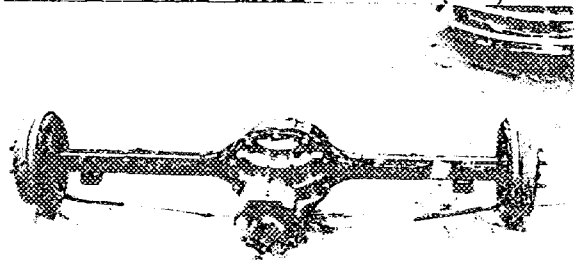
C interior-car (\*\*)



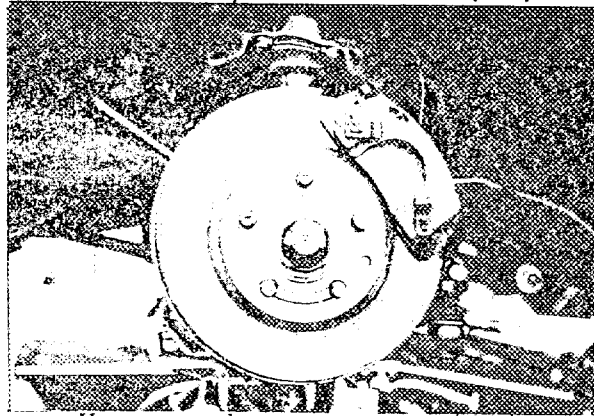
D front axle (\*\*)



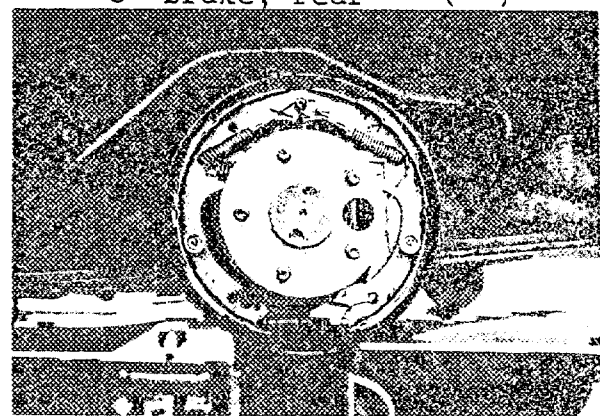
E rear axle (\*\*)



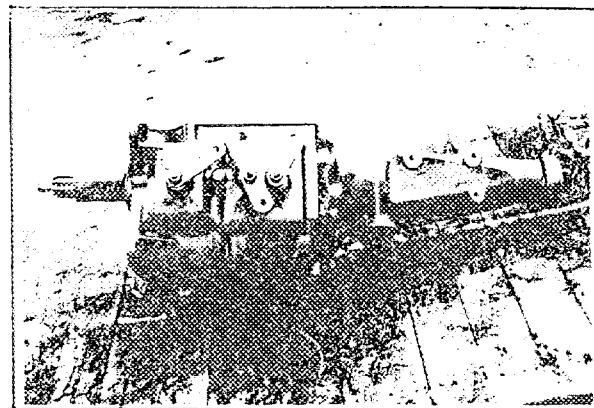
F brake, front (\*\*)



G brake, rear (\*\*)



H gear box (\*\*)



I exhaust system (\*)



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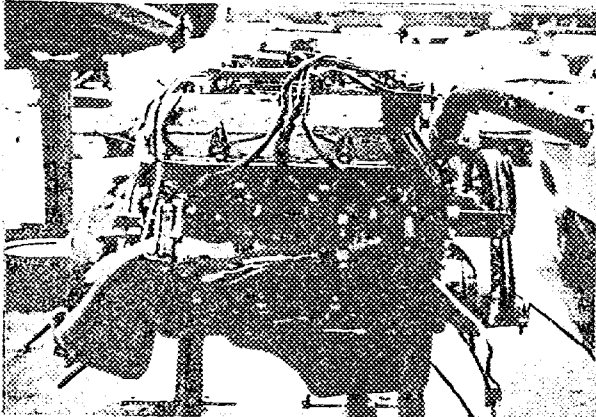
STAMP

MAKE Ford

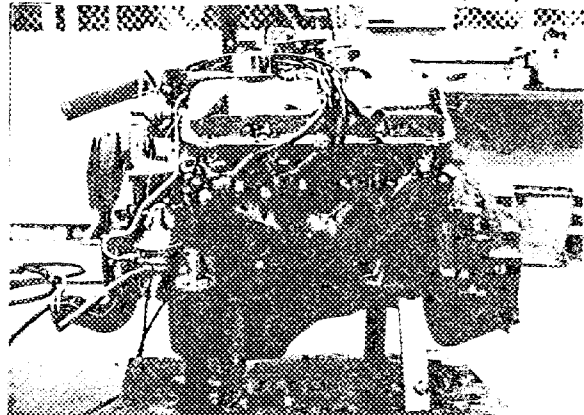
MODEL '69 Mustang 428 F.B.I.A REC # 5250

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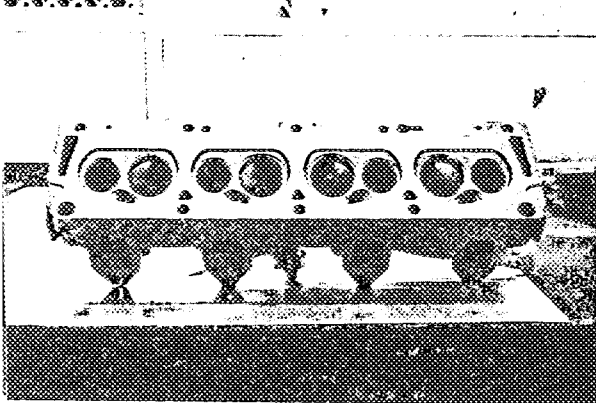
J ENGINE RIGHT (\*\*)



K ENGINE LEFT (\*\*)



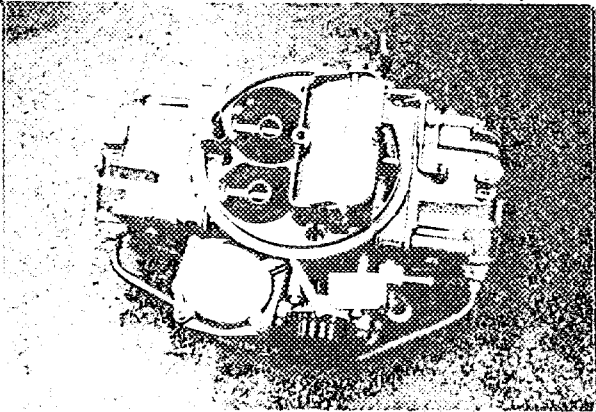
L COMBUSTION CHAMBER



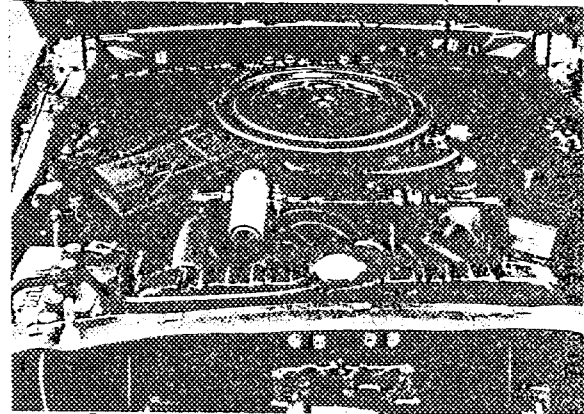
M PISTON TOP (\*)



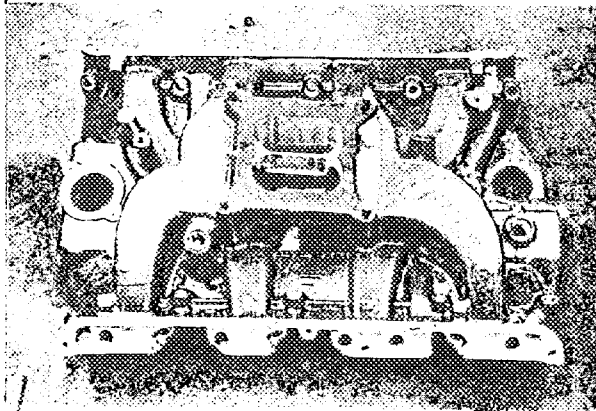
N CARBURETOR (\*)



O ENGINE IN PLACE (\*\*)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



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

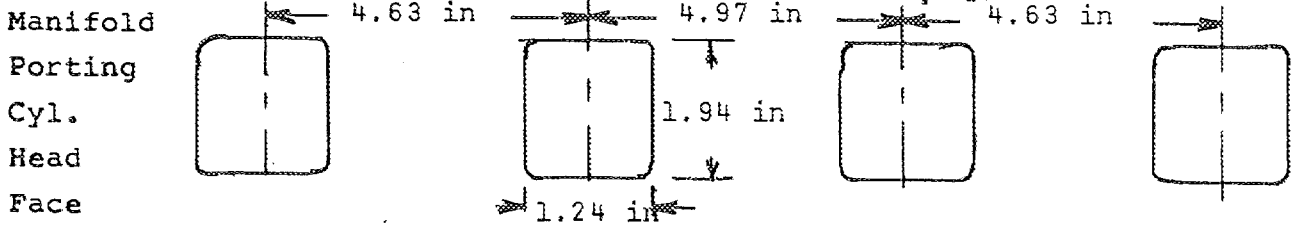
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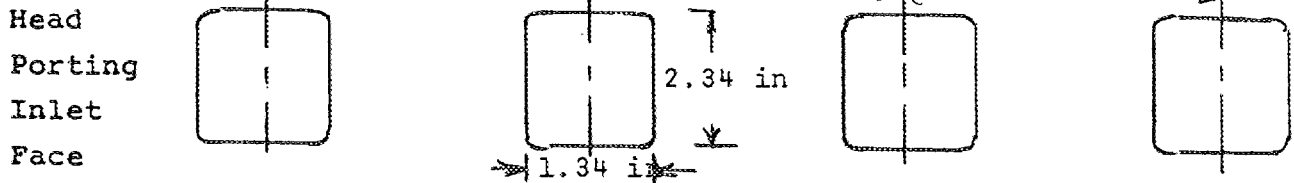


ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.  $\pm .04$  in. or  $\pm 1.0$ mm

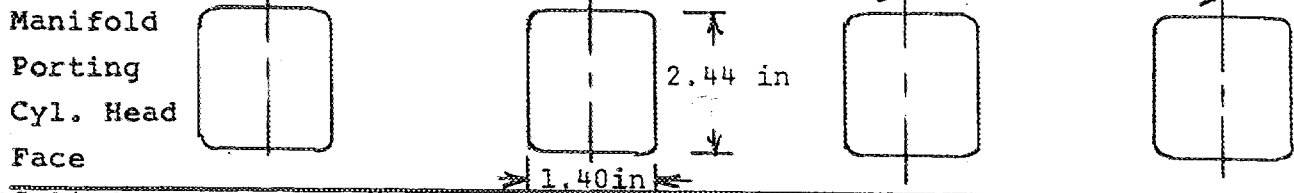
\*Inlet



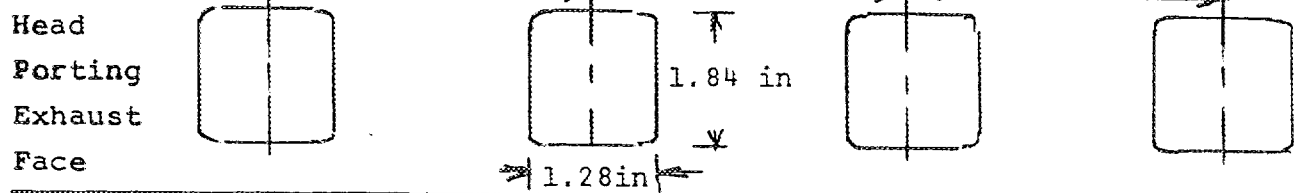
\*Cylinder



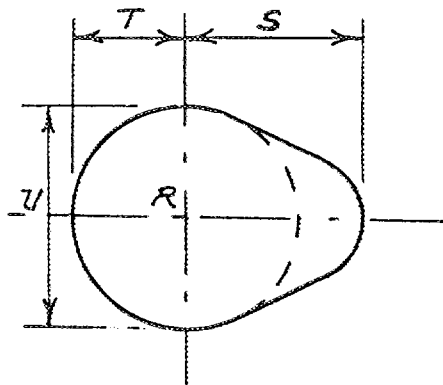
\*Exhaust



\*Cylinder



CAM



Inlet cam

S=	26.31 mm	1.036 in
T=	20.24 mm	.797 in
U=	37.95 mm	1.494 in

Exhaust cam

S=	26.31 mm	1.036 in
T=	20.24 mm	.797 in
U=	37.95 mm	1.494 in

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**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.

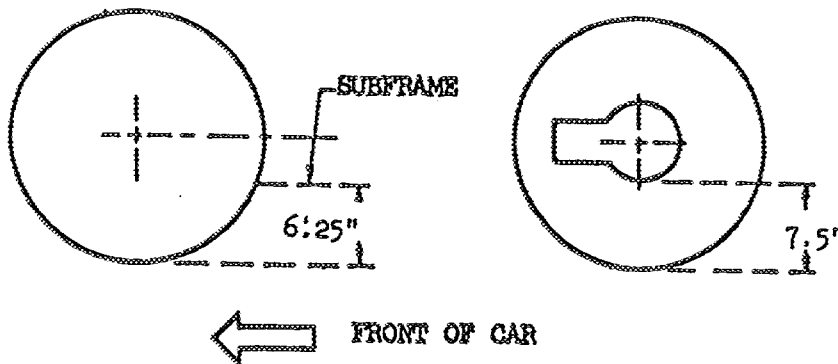
CAPACITIES & DIMENSIONS

- (\*\*) 1. Wheelbase 2743.2 mm 108.0 in
- (\*\*) 2. Front track 1498.6 mm 59.0 in + at 0° camber
- (\*\*) 3. Rear track 1485.9 mm 58.5 in + 0° toe-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 477.0 cm 187.4 in
- 5. Overall width of car 182.1 cm 71.7 in
- 6. Overall height of car 128.0 cm 50.4 in
- 7. Capacity of fuel tank (reserve included) 75.50 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.

~~1458~~ kg 3209 lbs  
1565 3450  
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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 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) 14.8 kg 32.5 lbs(EA)
- CHECK: BENCH \_\_\_\_\_ BUCKET X CONSOLE INCLUDED \_\_\_\_\_
- 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 12.7 lbs 12.7 Weight

WHEELS

- 50. Type Steel
- 51. Weight (per wheel, without tire) 8.9kg 19.5 lbs
- 52. Method of attachment Stud and Nut (5)
- 53. Rim, diameter 356/381mm 14/15 in
- 54. Rim, width 152/152mm 6/6 in

STEERING

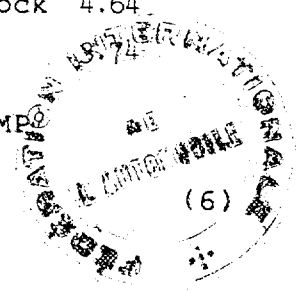
- 60. Type Recirculating Ball and Nut
- 61. Servo assistance Optional
- 62. Number of turns of steering wheel from lock to lock 4.64
- 63. In case of servo assistance

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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 Leaf

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 mm in mm 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 912 mm 19.34 in  |
| 97. Linings, width           | mm              | in 50.8 mm 2.0 in   |
| 98. Shoes - number per brake |                 | Two (2)   |
| 99. Area, total - per brake  | mm <sup>2</sup> | in <sup>2</sup> mm <sup>2</sup> in <sup>2</sup><br>24,916.1 38.68 |

Disc Brakes

- |                              |          |                                 |                 |                         |
|------------------------------|----------|---------------------------------|-----------------|-------------------------|
| 100. Diameter, outside       | 287      | mm 11.3 in                      | mm              | in                      |
| 101. Thickness of disc       | 23.81    | mm .9375 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 | 13,097.4 | mm <sup>2</sup> in <sup>2</sup> | mm <sup>2</sup> | in <sup>2</sup><br>20.2 |

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MODEL '69 Mustang 428 F.B.

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ENGINE (Photos J and K)

- (\*\*) 130. Cycle two four Wankel
- (\*\*) 131. Cylinders - number eight
- (\*\*) 132. Cylinders - arrangement VEE Wankel - # of elements and basic dimensions
- (\*\*) 133. Bore 104.95 mm 4.132 in
- (\*\*) 134. Stroke 101.19 mm 3.984 in
- (\*\*) 135. Cylinders - capacity 875.4 cm3 53.42 in3
- (\*\*) 136. Cylinders, total capacity 7003.2 cm3 427.36 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 10.6:1
- (\*) 143. Combustion chamber - volume <sup>1188.06</sup> cm3 72.5 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 42.67 mm 1.680 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 4.73 ltrs pts 5 qts US
- (\*) 153. Cooler, oil - yes no
154. Cooling - method Water Radiator
155. Cooling - capacity of system 19.39 ltrs

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- (\*) 156. Fan, cooling (if fitted) - diameter 46.35 cm 18.25 in
- (\*) 157. Fan, cooling - number of blades seven (7), material/s Steel

BEARINGS

- (\*\*) 158. Crankshaft, main - type Insert diameter 69.81 mm 2.7488 in
- (\*\*) 159. Connecting rod, big end - type Insert diameter 61.94 mm 2.4384 in

WEIGHTS

- (\*) 160. Flywheel (clean) 12.92kg 28.5 lbs
- (\*) 161. Flywheel with clutch (all rotating parts) 24.44 kg 53.9 lbs
- (\*) 162. Crankshaft 29.70kg 65.5 lbs
- 163. Connecting Rod .940 kg 2.07 lbs
- (\*) 164. Piston with rings & pin 1.853 kg 4.07 lbs

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 Cast Iron
- 181. Valves (overall) - diameter 53.26 mm 2.097 in
- (\*) 182. Valve lift - maximum 12.7 mm .500 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) mm in
- (\*) 187. Valves - open at (with tolerance for tappet clearance indicated) Hydraulic 18° BTC
- (\*) 188. Valves - close at (with tolerance for tappet clearance indicated) 72° ABC
- (\*) 189. Air filter - type Dry Element

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MODEL '69 Mustang 428 FRIA REC # 5250

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EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s Cast Iron
196. Valves (overall) - diameter 42.16 mm 1.660 in
197. Valve, lift - maximum 12.7 mm .500 in
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)  
mm . . . . in Hydraulic
- (\*) 202. Valves - open at (with tolerance for tappet clearance indicated) 82° BBC
- (\*) 203. Valves - close at (with tolerance for tappet clearance indicated) 28° ATC

CARBURETION (See Photo N)

210. Carburetors, fitted - number One
211. Type Downflow
- (\*) 212. Make Autolite
- (\*) 213. Model 9510
214. Carburetors - number of mixture passages Four (4)
- (\*) 215. Carburetor - flange hole diameter of exit port  
42.86 mm 1.6875 in
216. Venturi - throat diameter+ 31.75 mm 1.25 PRI.in  
35.05 1.38 SEC.

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 shutter mechanism such as pistons in S.U.

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MODEL '69 Mustang 428 F.B.I.A REC # 5250

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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 80

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- ( \*) 250. Horsepower - maximum engine output 335 at 5200 rpm S.A.E.  
(indicate SAE or DIN)
- ( \*) 251. RPM - maximum 5200 output at that figure 335 S.A.E.
- ( \*) 252. Torque - maximum 440 at 3400 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 27.94 cm 11.0 in
- 263. Linings - diameter - inside 17.78 cm 7.0 in
- Linings - diameter - outside 27.94 cm 11.0 in
- 264. Method of operation Mechanical

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MAKE Ford MODEL 69 Mustang 428 F.B.I.A REC # 5250

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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	2.32	$\frac{23}{25} \frac{32}{15}$	2.46					
2	1.69	$\frac{27}{25} \frac{28}{18}$	1.46	Torque Converter Maximum Ratio at Stall 2.02:1				
3	1.29	$\frac{23}{25} \frac{25}{21}$	1.00					
4	1.00	Direct						
5								
6								
reverse	2.78		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 Locking-by Ratchet or Friction
- (\*\*) 292. Limited Slip Differential (if fitted) - type  $\neq$  Positive Locking - by Ratchet or Friction.
- 293. Ratio 3.00 3.25 3.50 3.70 3.91 4.30
- Teeth - number  $\frac{39}{13}$   $\frac{39}{12}$   $\frac{35}{10}$   $\frac{37}{10}$   $\frac{43}{11}$   $\frac{43}{10}$

(\*) Specify friction or positive locking type  
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MAKE FORD

MODEL '69 MUSTANG  
428 F.B.

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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.

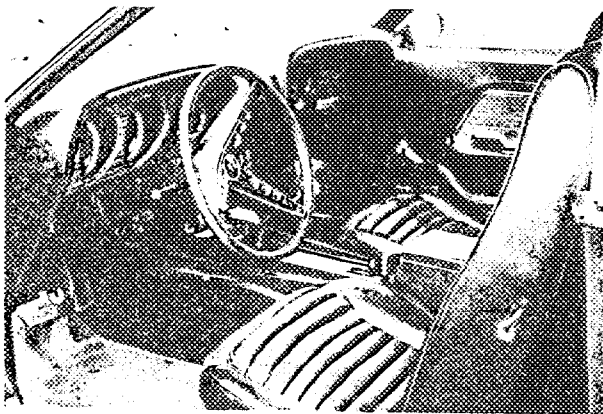
During the technical inspection of cars entered in Group IV (Sports Cars) only the following items of the present recognition form are to be taken into consideration:

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.

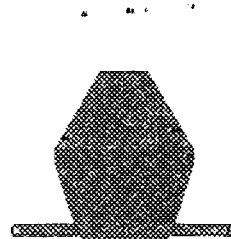
Optional equipment affecting preceding information:

CATALOGUE PART NUMBER MUST BE GIVEN

- S7MS-6675-B Sump Guard
- C9ZF-90646 Hood Scoop Package - Die Cast
- C9ZB-16C664-A Hood Scoop Package - Fiberglass
- 60136/60050 Seat - High Back



Deluxe Interior



Sump Guard

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*John A. Clever*



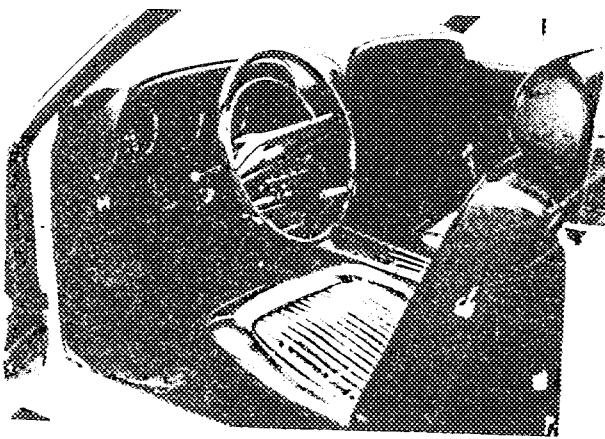
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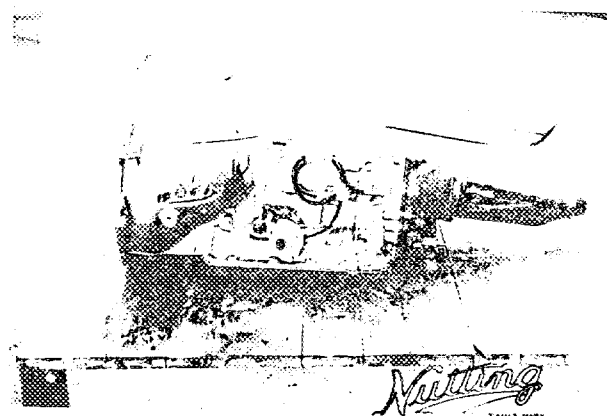
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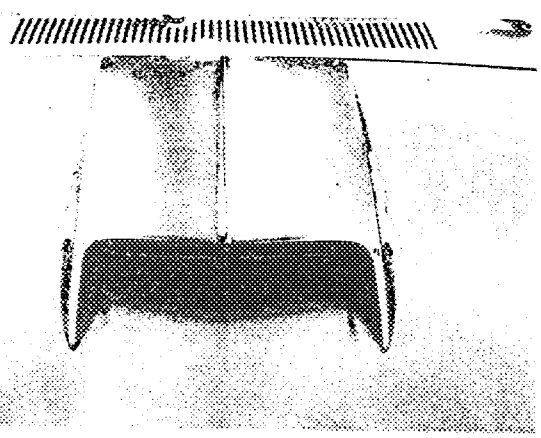
Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN



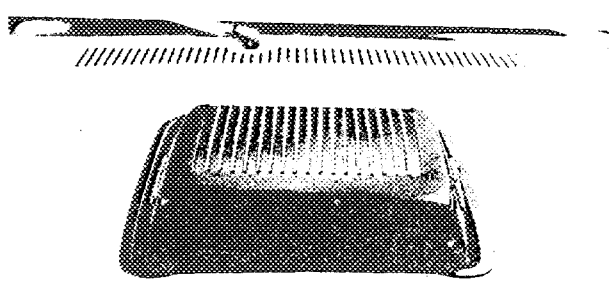
Interior with Automatic Shift



Automatic Gearbox Photo "H"



Hood Scoop Package - Fiberglass



Hood Scoop Package - Die Cast

STAMP

*John C. O'Connell*



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