

GR 1
5274



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 LINCOLN-MERCURY DIVISION, FORD MOTOR COMPANY
Make of Car Mercury Model 1969 Cougar 351

We certify that 10,000 cars identical with the basic specification, as well as 10,000 cars as modified by the listed optional equipment (when required by Appendix "J"), were completed as of October 18, 1968.
Cars conforming to this specification may be identified by chassis numbers 9 91 500001, and engine numbers None.

Signed:

J. A. Passino
J. A. Passino
Manager, Special Vehicles Activity

H. L. Perry
H. L. Perry
Stock Vehicles Department
Special Vehicles Activity

Certified:

John V. Oliveau
JOHN V. OLIVEAU
TECHNICAL DIRECTOR
ACCUSFIA, Inc.



MAKE Mercury

MODEL '69 Cougar 351

FIA REC # 5274^C₃₅₁
G1



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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

I N D E X

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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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433 MAIN ST.
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FORM OF RECOGNITION

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

Cylinder capacity 5771.3 cm3 352.19 in3
Lincoln-Mercury Division
Manufacturer Ford Motor Company Model 1969 Cougar 351
Serial # Chassis 9 91 500001 Manufacturer Lincoln-Mercury Division
Serial # Engine None Manufacturer Ford Motor Company

Recognition valid from _____ List _____

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:

<u>Variants</u>	<u>Normal evolution of the type</u>
on <u>19</u> rec # <u> </u> list <u> </u>	on <u>19</u> rec # <u> </u> list <u> </u>
on <u>19</u> rec # <u> </u> list <u> </u>	on <u>19</u> rec # <u> </u> list <u> </u>
on <u>19</u> rec # <u> </u> list <u> </u>	on <u>19</u> rec # <u> </u> list <u> </u>

Stamp/Signature of
National Sporting Authority

JOHN V. OLIVEAU
TECHNICAL DIRECTOR
ACCUS, F.I.A., INC.



Stamp/Signature
F.I.A.

1.4.69

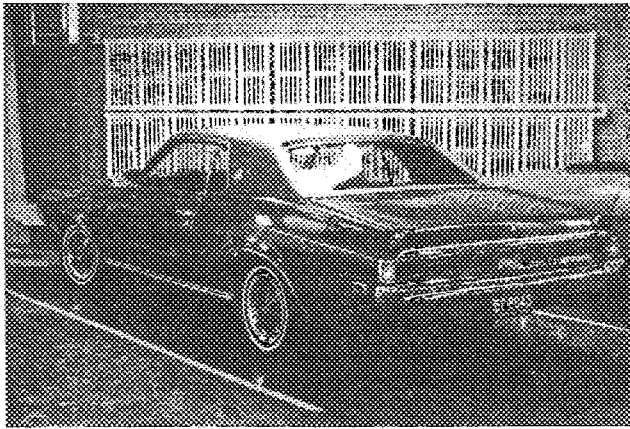
MAKE Mercury

MODEL 1969 Cougar 351

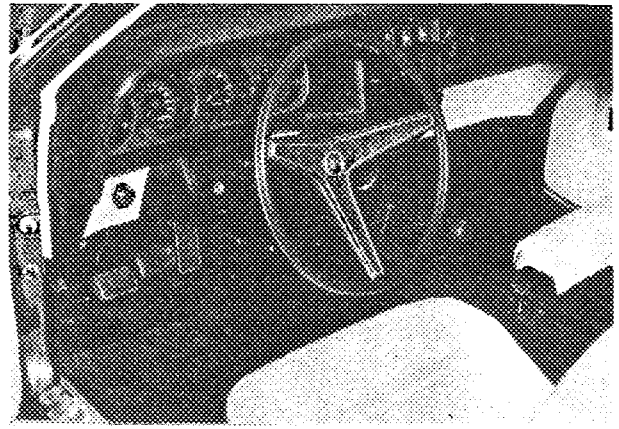
FIA REC # 5274

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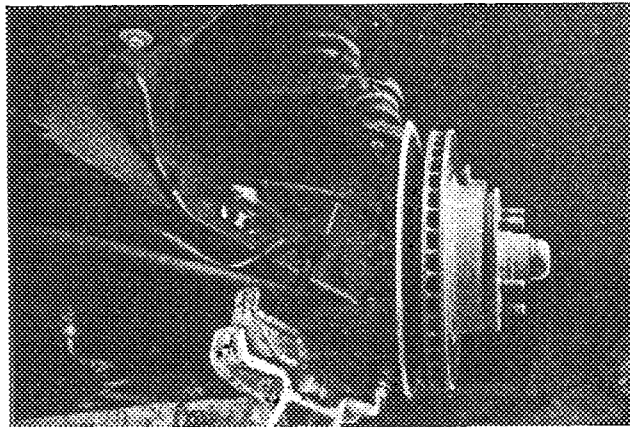
B 3/4 rear car (**)



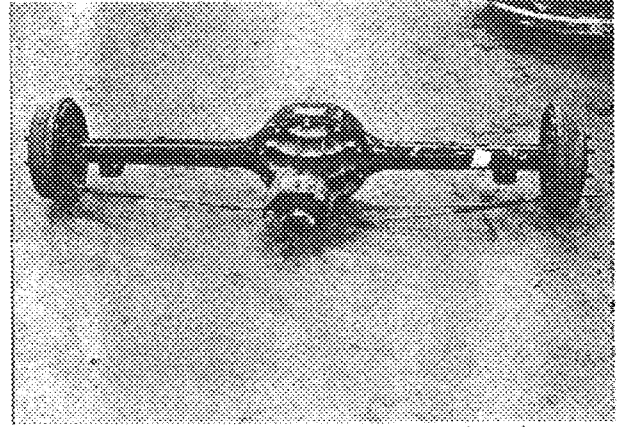
C interior-car (**)



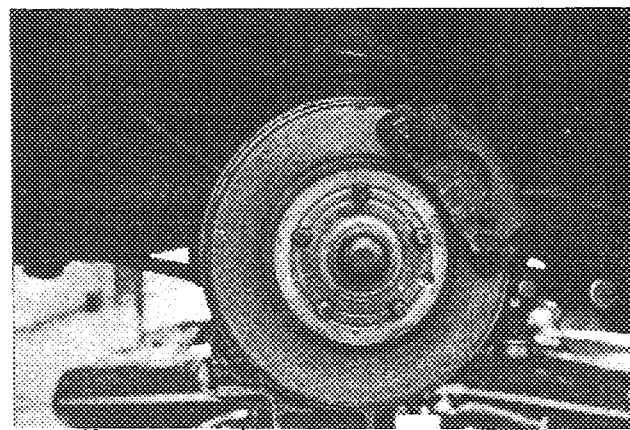
D front axle (**)



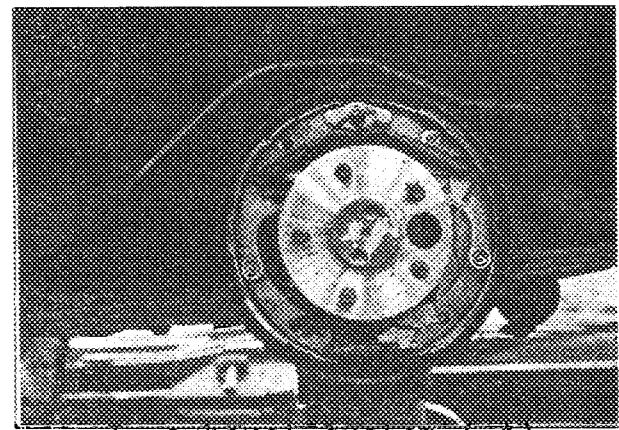
E rear axle (**)



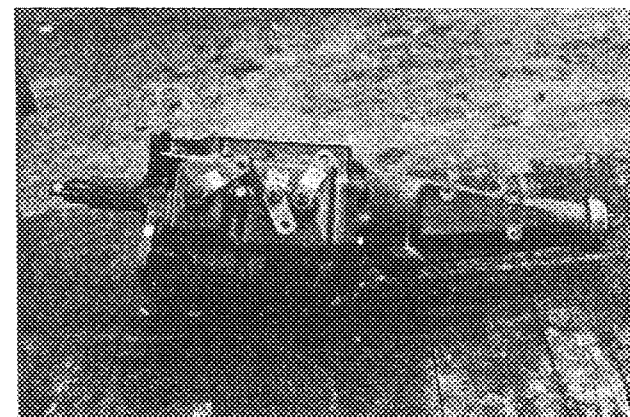
F brake, front (**)



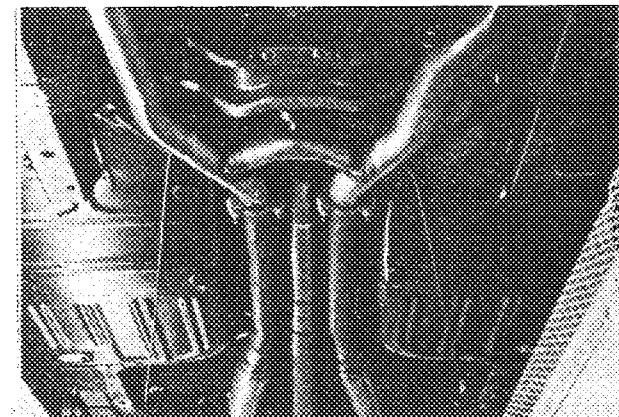
G brake, rear (**)



H gear box (**)



I exhaust system (**)



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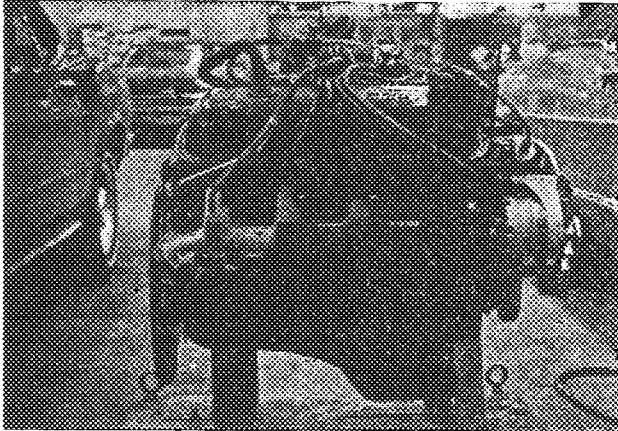
MAKE Mercury

MODEL 1969 Cougar 351

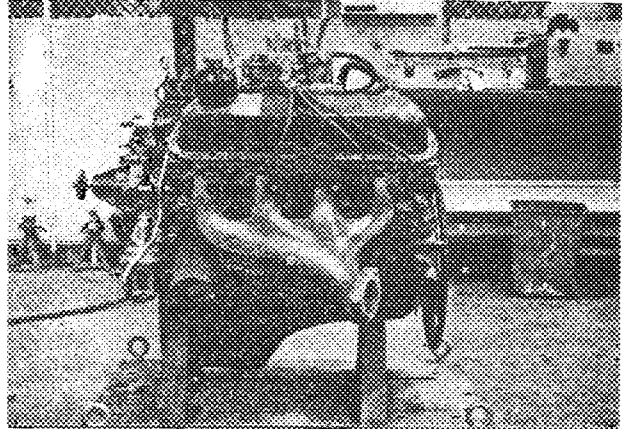
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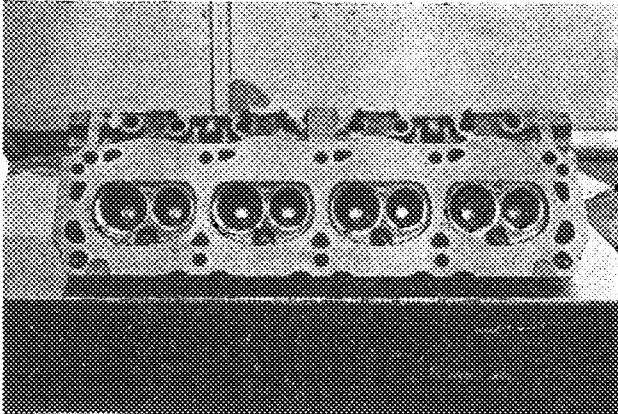
J ENGINE RIGHT (**)



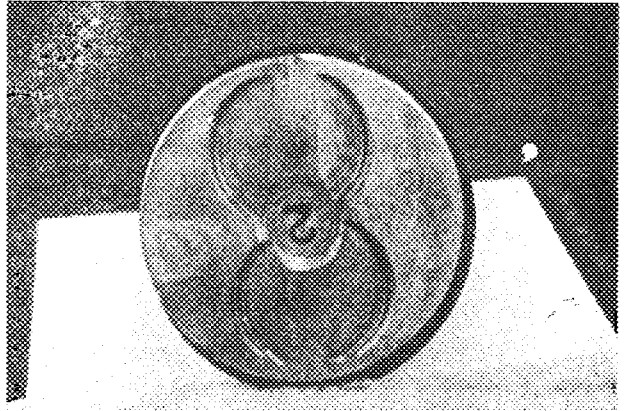
K ENGINE LEFT (**)



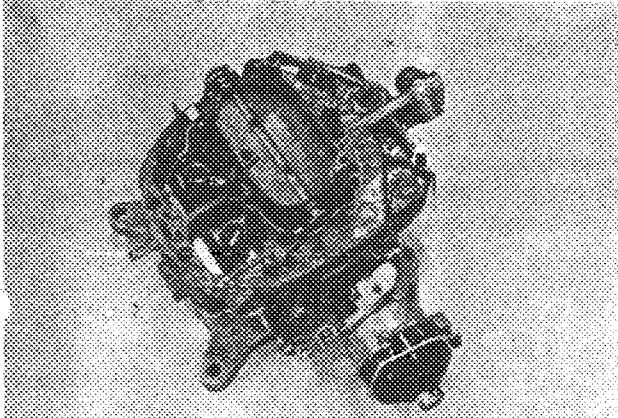
L COMBUSTION CHAMBER



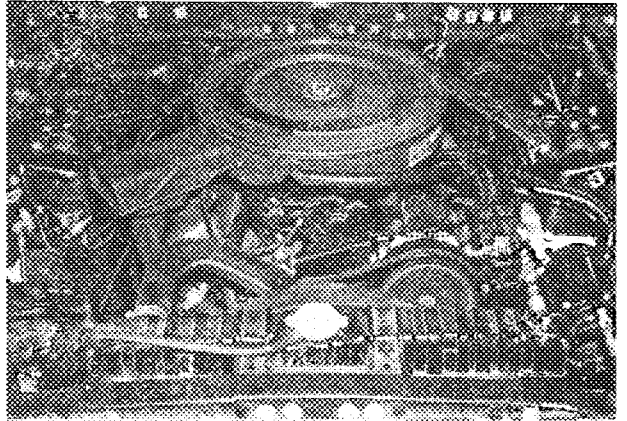
M PISTON TOP (*)



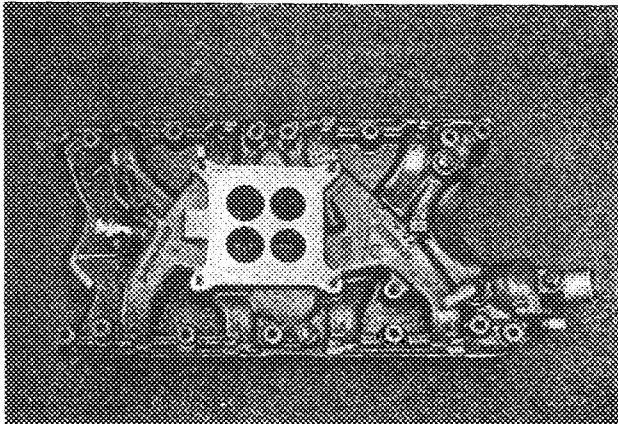
N CARBURETOR (*)



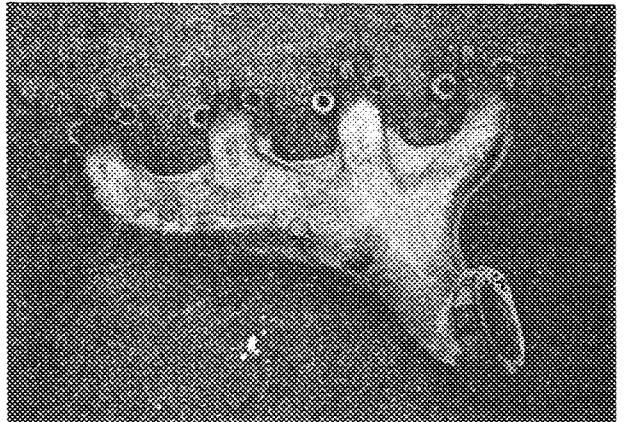
O ENGINE IN PLACE (**)



P MANIFOLD INLET



Q MANIFOLD EXHAUST



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

MAKE

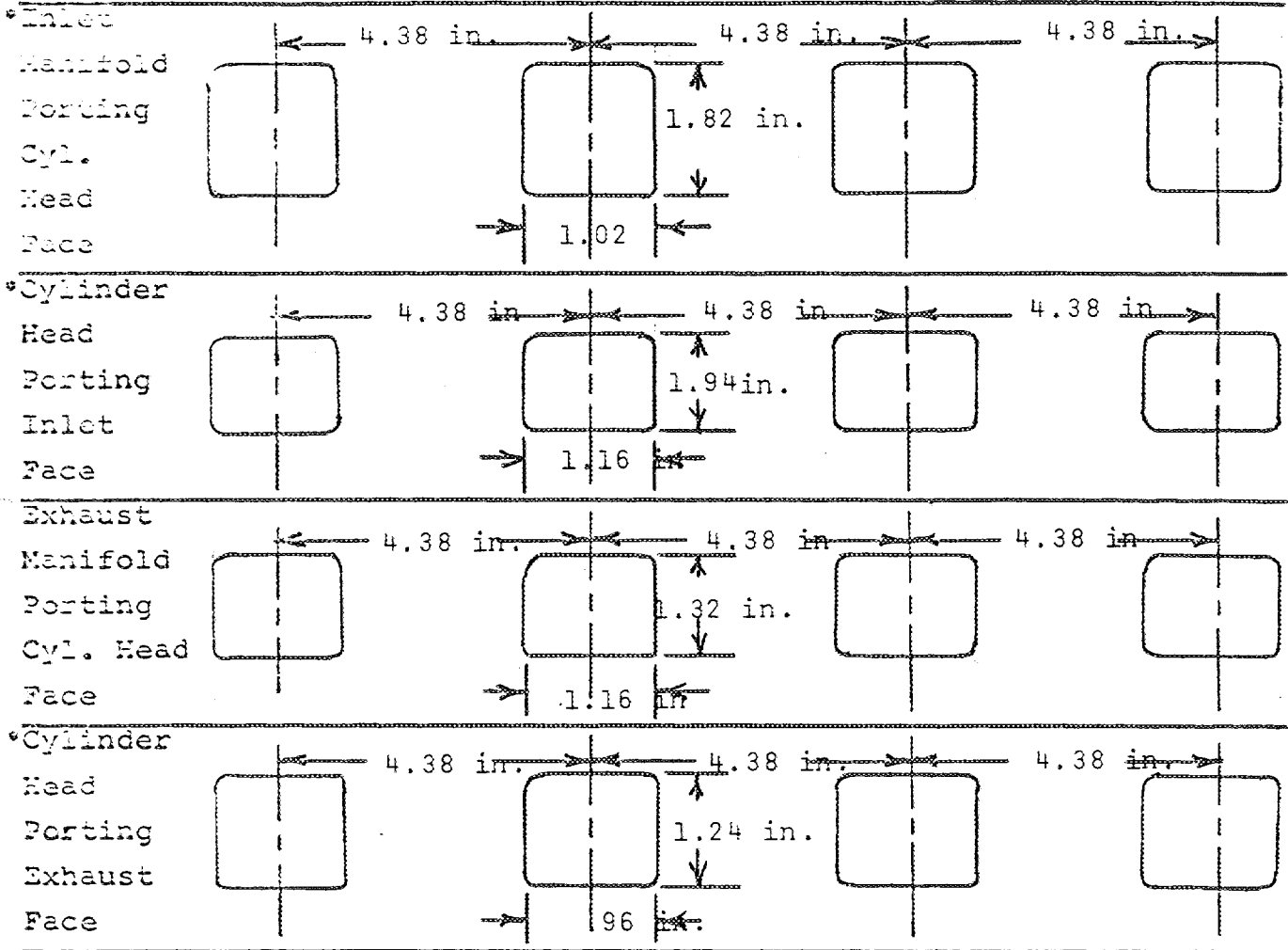
Mercury

MODEL 169 Cougar
351

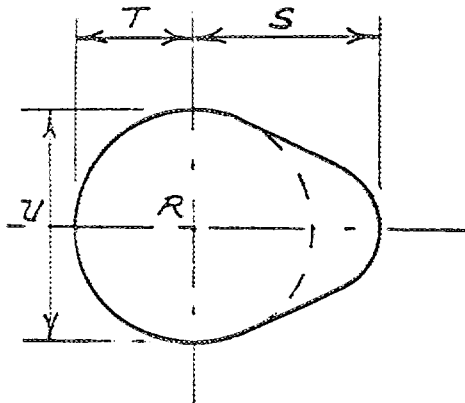
FIA REC # 5274

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



CAM



Inlet cam

S=	24.87 mm	.979	in
T=	18.31 mm	.721	in
U=	36.63 mm	1.442	in

Exhaust cam

S=	25.32 mm	.997	in
T=	18.31 mm	.721	in
U=	36.63 mm	1.442	in

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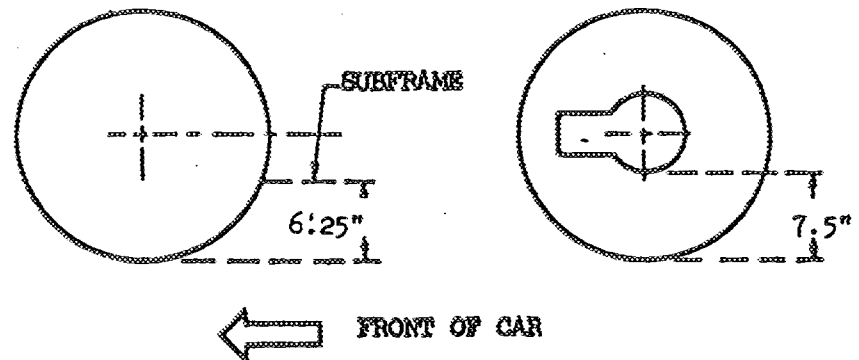
IMPORTANT: Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.
See conversion table at index.

CAPACITIES & DIMENSIONS

- (**) 1. Wheelbase 2821.9 mm 111.1 in
 - (**) 2. Front track 1485.9 mm 58.5 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 492.25 cm 193.8 in
 - 5. Overall width of car 188.47 cm 74.2 in
 - 6. Overall height of car 130.81 cm 51.5 in
 - 7. Capacity of fuel tank (reserve included) 64.3 ltrs.
17 gallons US 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. 1369.9 kg 3020lbs

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MAKE Mercury MODEL 1969 Cougar 351 FIA REC # 5274

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

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 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 356/381 mm 14/15 in
- 54. Rim, width 152/152 mm 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 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 2375 in 22.2mm .875 in
(indicate stepped bore dimensions if applicable)

Drum Brakes

- | | <u>Front</u> | <u>Rear</u> |
|------------------------------|----------------|---------------|
| 95. Diameter, inside | mm in 254mm | 10.0 in |
| 96. Linings, length | mm in 49.2mm | 19.34in |
| 97. Linings, width | mm in 63.5mm | 2.5 in |
| 98. Shoes - number per brake | Two (2) | |
| 99. Area, total - per brake | mm2 in2 31,454 | mm2 in2 48.75 |

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 | mm2 20.2in2 | mm2 | in2 |

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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 76.19 mm 2.9998 in
- (**) 159. Connecting rod, big end - type Insert diameter 58.69 mm 2.3107 in

WEIGHTS

- (*) 160. Flywheel (clean) 14.06 kg 31.0 lbs
- (*) 161. Flywheel with clutch (all rotating parts) 22.87 kg 50.83 lbs
- (*) 162. Crankshaft 25.4 kg 56.0 lbs
- 163. Connecting Rod .69 kg 1.53 lbs
- (*) 164. Piston with rings & pin .85 kg 1.87 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 46.96 mm 1.849 in
- (*) 182. Valve lift - maximum 10.62 mm .418 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) Hydraulic mm in
- (*) 187. Valves - open at (with tolerance for tappet clearance indicated) 11° BTC
- (*) 188. Valves - close at (with tolerance for tappet clearance indicated) 65° 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 | 39.32 mm 1.548 in |
| 197. | Valve, lift - maximum | 11.38 mm .448 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) | Hydraulic in |
| | | mm |
| (*) | 202. Valves - open at (with tolerance for tappet clearance indicated) | 68° BBC |
| (*) | 203. Valves - close at (with tolerance for tappet clearance indicated) | 22° ATC |

CARBURETION (See Photo N)

- | | | |
|------|---|-----------------------|
| 210. | Carburetors, fitted - number | One (1) |
| 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 | |
| | | 36.50 mm 1.437 Pri in |
| | | 39.68 1.562 Sec. |
| 216. | Venturi - throat diameter+ | 25.4 mm 1.0 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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MAKE Mercury MODEL 1969 Cougar 351 FIA REC # 5274

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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 4800 rpm S.A.E.
(indicate SAE or DIN)
- (*) 251. RPM - maximum 4800 output at that figure 290 S.A.E.
- (*) 252. Torque - maximum 385 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 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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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	$\frac{23}{30} \frac{32}{15}$	2.46		2.32	$\frac{23}{25} \frac{32}{15}$		
2	1.93	$\frac{23}{30} \frac{31}{21}$	1.46	Torque Converter Maximum Ratio at Stall 2.02:1	1.69	$\frac{23}{25} \frac{28}{18}$		
3	1.36	$\frac{23}{30} \frac{25}{24}$	1.00		1.29	$\frac{23}{25} \frac{25}{21}$		
4	1.00	Direct			1.00	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 3.00 3.25 3.50 3.70 3.91 4.11
- Teeth - number $\frac{39}{13}$ $\frac{39}{12}$ $\frac{35}{12}$ $\frac{37}{10}$ $\frac{43}{11}$ $\frac{37}{9}$
- (\neq) Specify friction or positive locking type

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MAKE Mercury MODEL 1969 Cougar 351 FIA REC # 5274

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.

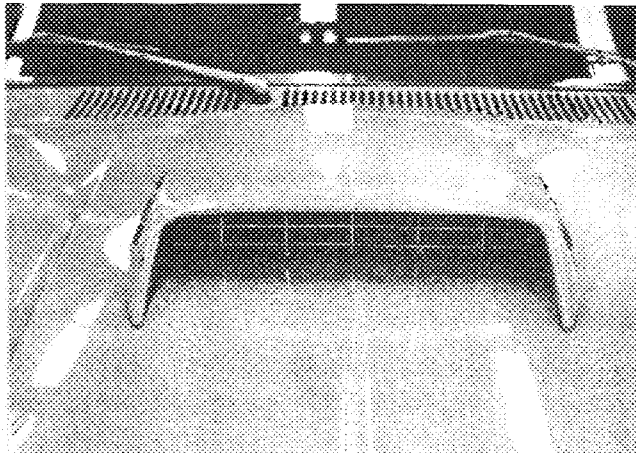
Optional equipment affecting preceding information:

CATALOGUE PART NUMBER MUST BE GIVEN

S7MS-6675-B Sump Guard

XR-7 Trim Package

Ram Air Induction Package



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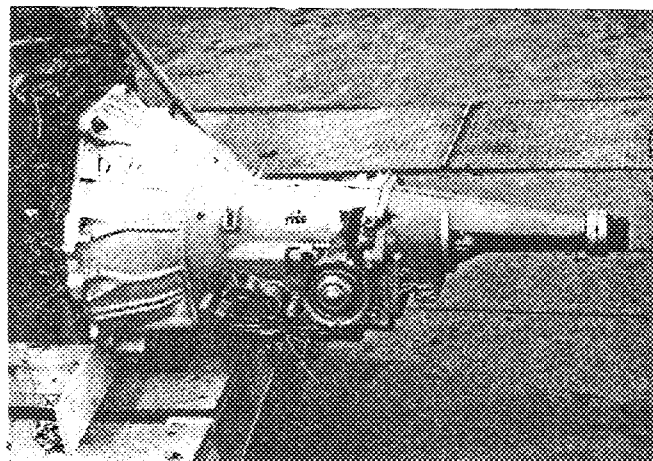
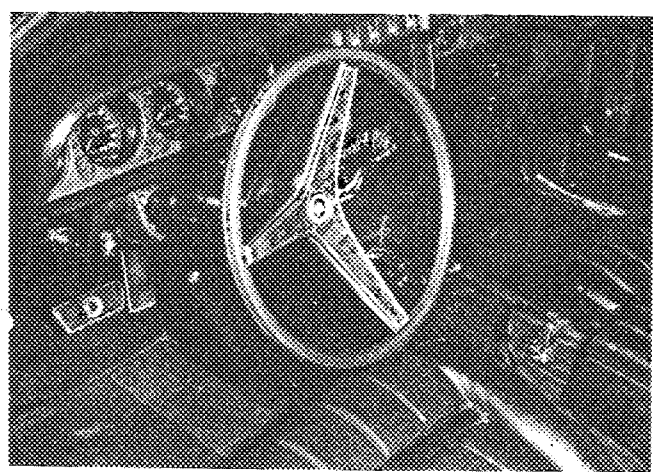
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Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN



Interior with Automatic Transmission. Automatic Transmission Photo H

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* * *
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