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

FIA NO. 5450

GROUP I (Shown)

II (Options)

# Federation Internationale de l'Automobile
## FORM OF RECOGNITION

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

Cylinder capacity 7030 cm3 429 in3

Manufacturer Ford Motor Co. Model 429 Mustang

Serial # Chassis 1F05J* Manufacturer Ford Motor Co.

Serial # Engine 1F05J* Manufacturer Ford Motor Co.

Recognition valid from _____ List _____

The manufacturing of the model described in this recognition form was started on Nov., 1970 and the minimum production of 5,000 identical cars, in accordance with the specifications of this form, was reached on August 12, , 1971 .

(**) 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___

John L Olivcar

Stamp/Signature of
National Sporting Authority

Stamp/Signature
F.I.A.

* 1F05J Mach I - Ram Air
1F05C Mach I - Non Ram Air
1F02J Regular Body - Ram Air
1F02C Regular Body - Non Ram Air

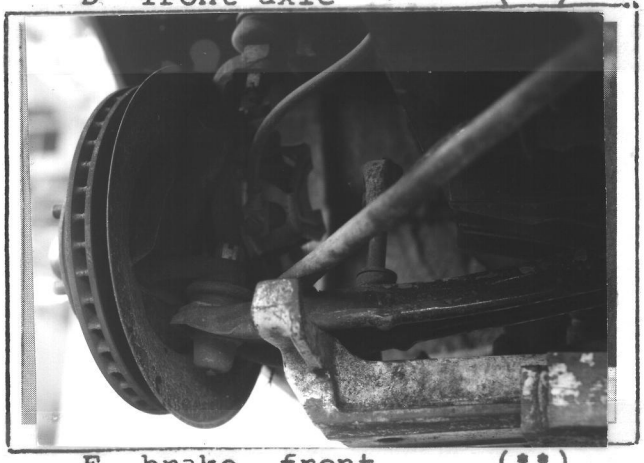
MAKE Mustang MODEL 1971 429 Mustang FIA REC # 5450

429M
GI&II

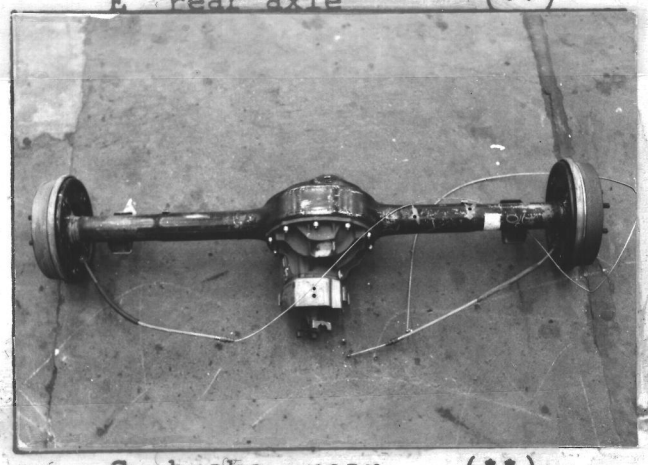
B 3/4 rear car (**)

C interior-car (**)

D front axle (**)

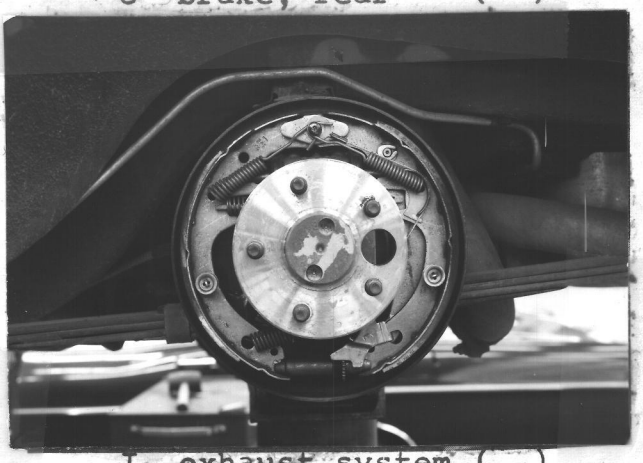


E rear axle (**)

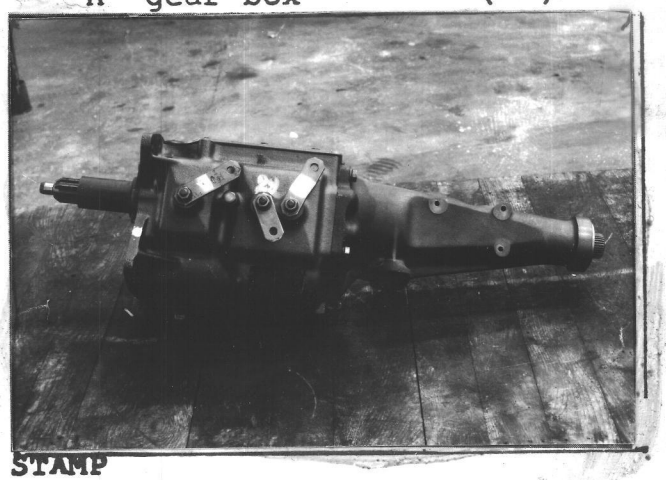


F brake, front (**)

G brake, rear (**)



H gear box (**)



I exhaust system ( )

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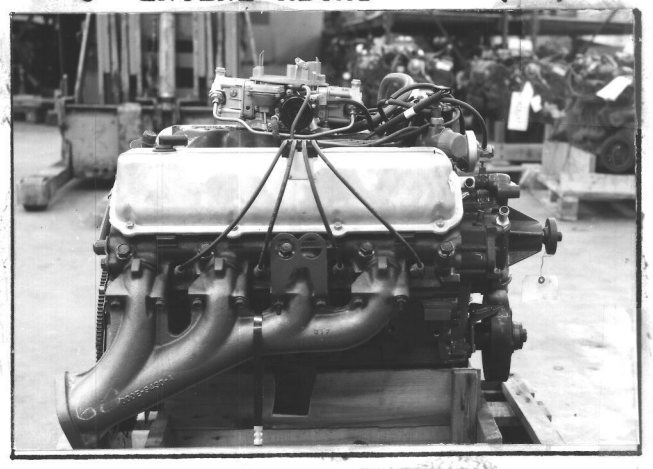
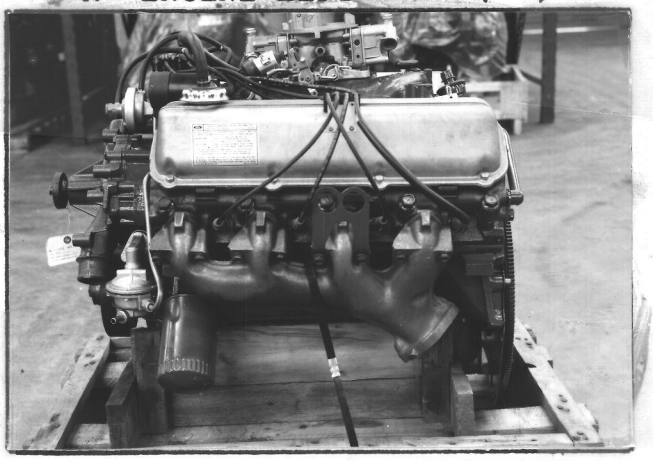
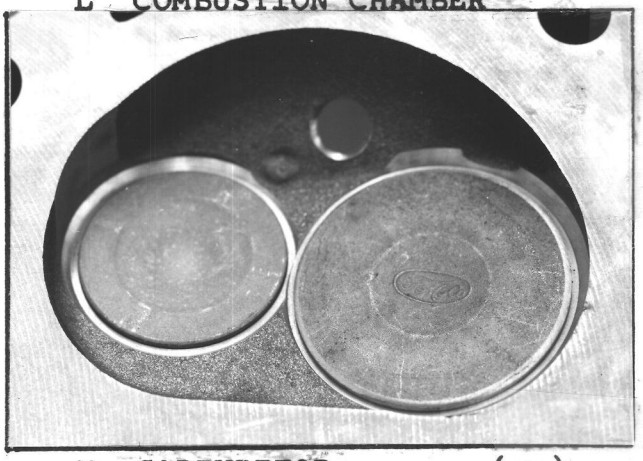
J ENGINE RIGHT (**)



K ENGINE LEFT (**)

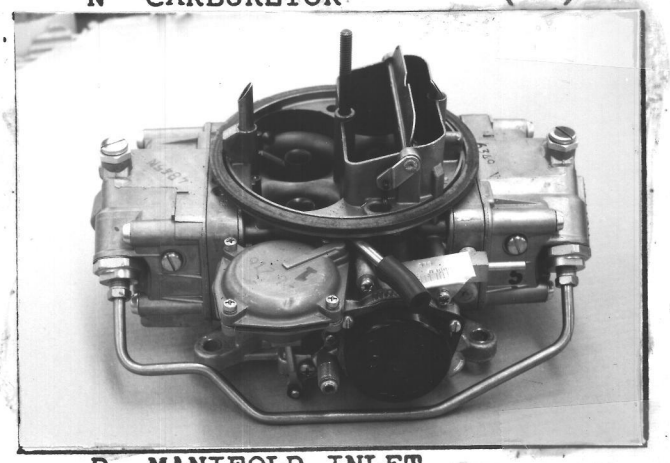


L COMBUSTION CHAMBER



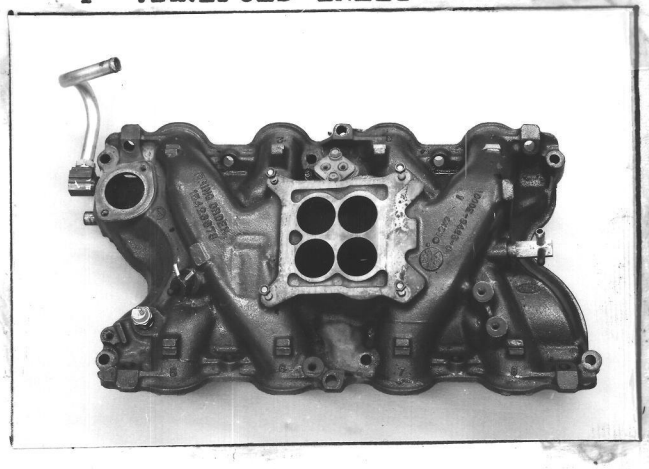
M PISTON TOP ( )

N CARBURETOR ( )

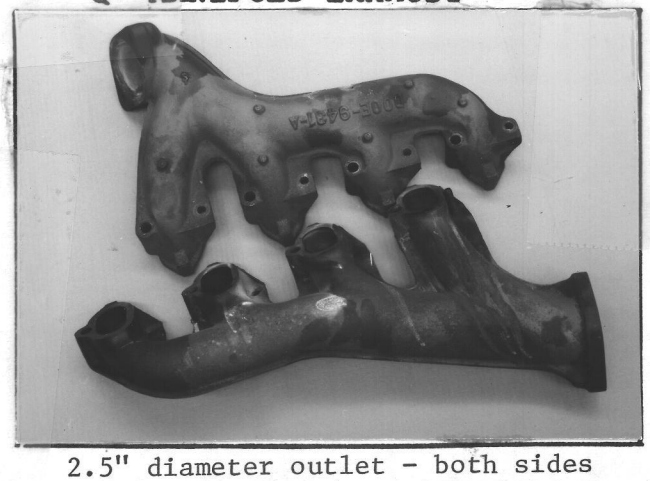


O ENGINE IN PLACE (**)

P MANIFOLD INLET



Q MANIFOLD EXHAUST



2.5" diameter outlet - both sides

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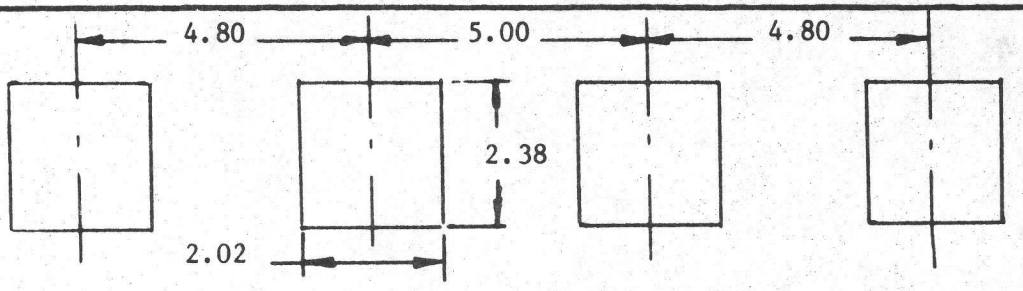
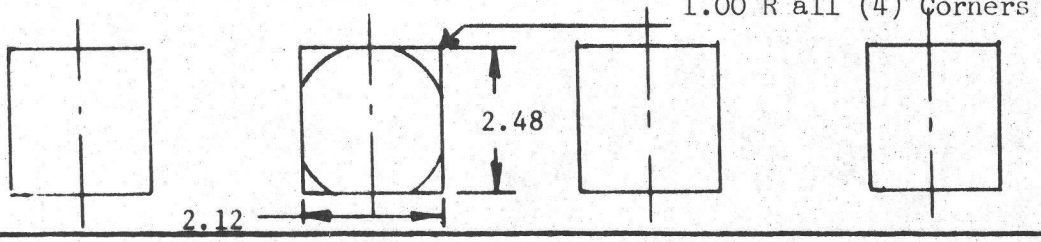
**MAKE** Mustang **MODEL** 1971 429 Mustang **FIA REC #** 5450

**ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES.** +/- .10 inch or +/- 2.54 mm.

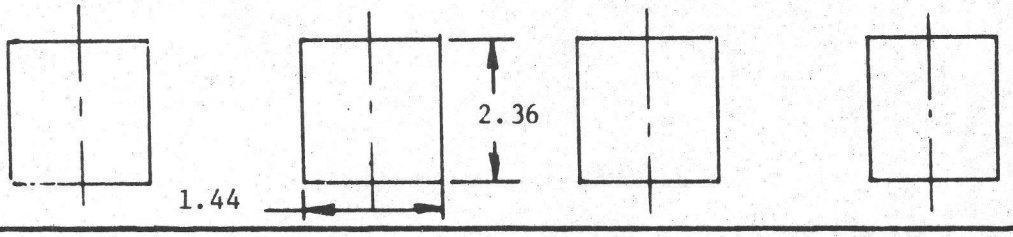
**Inlet Manifold Porting Cyl. Head Face**



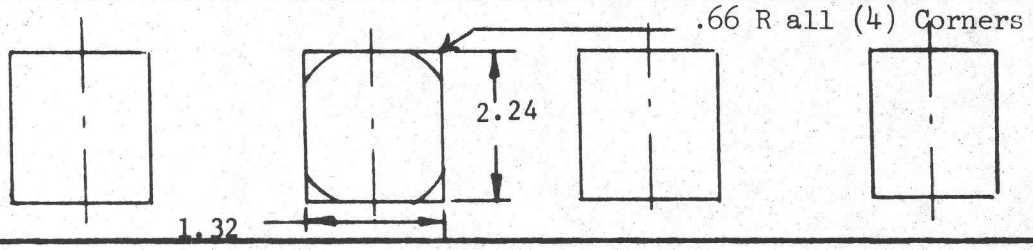

**Cylinder Head Porting Inlet Face**



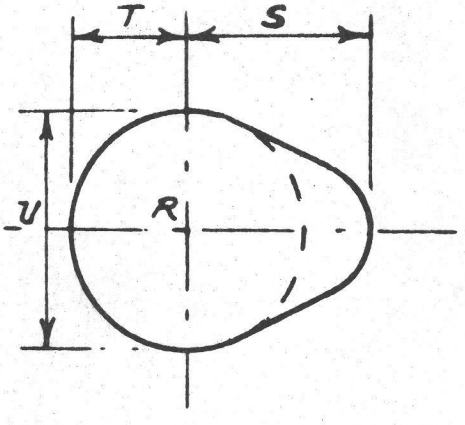

**Exhaust Manifold Porting Cyl. Head Face**




**Cylinder Head Porting Exhaust Face**




**CAM**




**Inlet cam**

| | | | | | |
|---|---|---|---|---|---|
| **S=** | 25.4 | **mm** | 1.017 | **in** | ± .001 |
| **T=** | 18.0 | **mm** | .719 | **in** | ± .001 |
| **U=** | 35.95 | **mm** | 1.439 | **in** | ± .001 |

**Exhaust cam**

| | | | | | |
|---|---|---|---|---|---|
| **S=** | 25.4 | **mm** | 1.017 | **in** | ± .001 |
| **T=** | 18.0 | **mm** | .719 | **in** | ± .001 |
| **U=** | 35.95 | **mm** | 1.439 | **in** | ± .001 |

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CHASSIS & BODYWORK - Photos A, B, C

(**) 20. Chassis/body construction - separate/unit construction
(**) 21. Unit construction - material/s 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 none
31. Windows - actuating system Hand operated window regulator
32. Window, rear quarter - material/s glass/stationary

ACCESSORIES AND UPHOLSTERY

38. Heating, interior - yes no Optional
39. Air conditioning - yes no Optional
40. Ventilation - yes X 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 35.75 lbs
CHECK: BENCH _____ BUCKET X CONSOLE INCLUDED Optional
43. Seats, rear - type of seat and upholstery Bench/vinyl
44. Bumper, front - material/s steel kg 4.46 lbs 9.85 Weight
45. Bumper, rear - material/s steel kg 4.86 lbs 10.72 Weight

WHEELS

50. Type steel
51. Weight (per wheel, without tire) 5.9kg 13 lbs
52. Method of attachment Stud and nut (5)
53. Rim, diameter 381/350 mm 15/14 in
54. Rim, width 178 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 5.1:1 Manual
3.40:1 Power
63. In case of servo assistance 3.74

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IMPORTANT - Underlined items must be filled in, in both metric and English values. See Conversion Table below.

CAPACITIES AND DIMENSIONS

| | | | | | | |
|---|---|---|---|---|---|---|
| 1. | Wheelbase: | 2725 | mm | 109.0 | inches | |
| 2. | Front track: with 7" wheels | 1575 | mm | 63.0 | inches (1) | 0° Camber 0" Toe-In |
| 3. | Rear track: with 7" wheels | 1525 | mm | 62.5 | inches (1) | |
| 4. | Overall length of car | 485.9 | cm | 189.5 | inches | |
| 5. | Overall width of car (at widest point) | 190.0 | cm | 74.1 | inches | |
| 5a. | Overall width of car (at vertical plane through front wheels) | 189.11 | cm | 73.9 | in | |
| 5b. | Overall width of car (at vertical plane through rear wheels) | 187.20 | cm | 73.7 | in | |
| 6. | Overall height of car | 128.5 | cm | 50.1 | inches | |
| 7. | Capacity of fuel tank (reserve included) | 83.5 | Litres | 22.0 | U.S. Gals. | |

8. Seating Capacity: Four (4)

9. Weight - Total weight of vehicle with normal equipment described on homologation sheet, all required lubricants and coolants and one spare wheel and tire, but without fuel or repair tools.
1485 kg 3273.8 lbs

(1) Specify ground clearance Front and Rear corresponding to Front and Rear track measurements shown above. Indicate by sketch below reference points on chassis or suspension where these dimensions are checked. These specifications are for the purpose of checking the track with specified wheel rim size with the suspension at reference setting. Differences in track resulting from use of different rim widths must be shown with suspension at reference setting. A sketch showing the rim widths superimposed is desirable.

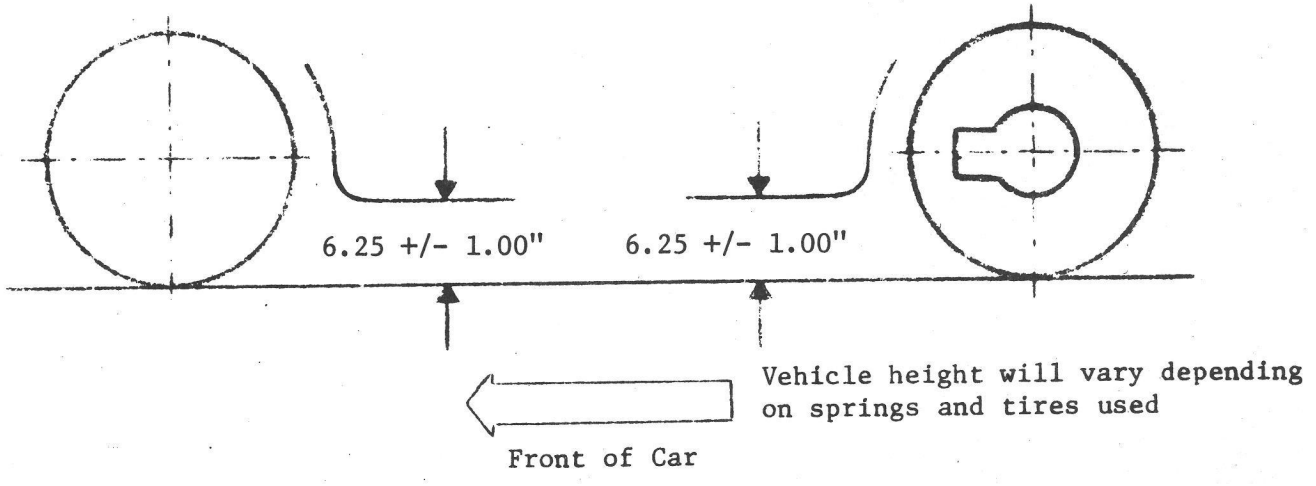


TABLE OF CONVERSIONS

| | | |
|---|---|---|
| 1 inch ---------- 2.54 cm | 1 cubic inch -------16.387 $cm^3$ | 1 pint -------0.568 ltrs |
| 1 foot ---------- 30.4794 cm | 1 pound ----------453.593 gr | 1 gallon U.S.-3.785 ltrs |
| 1 square inch ------ 6.452 $cm^2$ | 1 quart U.S. -------0.9464 ltrs | |

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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

(**) 78. Suspension, rear (photo E) - type Rigid axle

(**) 79. Spring - type Leaf

( ) 80. Stabilizer - if fitted Optional

81. Shock absorbers - number Two (2)

82. Type Tubular

## BRAKES (Photos E and F)

(**) 90. Method of operation Hydraulic

( ) 91. Power assisted (if fitted) - type Pedal Boost

92. Master Cylinders - number and type (indicate if duplex master cylinder) One (1) dual

| | | Front | Rear |
|---|---|---|---|
| 93. | Cylinders - number per wheel | One (1) | One (1) |
| 94. | Cylinders - wheel bore (indicate stepped bore dimensions if applicable) | 60.45 mm 2.38 in | 22.2 mm .875 in |

### Drum Brakes

| | | Front | Rear |
|---|---|---|---|
| 95. | Diameter, inside | mm in 254 | mm 10.0 in |
| 96. | Linings, length | mm in 495 | mm 19.5 in |
| 97. | Linings, width | mm in 50.8 | mm 2.0 in |
| 98. | Shoes - number per brake | Two (2) | |
| 99. | Area, total - per brake | mm2 in2 975 | mm2 39.0 in2 |

### Disc Brakes

| | | | Front | Rear |
|---|---|---|---|---|
| 100. | Diameter, outside | | 287 mm 11.3 in | mm in |
| 101. | Thickness of disc | | 24.00 mm .945 in | mm in |
| 102. | Lining - length | Prim. | 163.23 mm 6.82 in | mm in |
| | | Sec. | 124.5 mm 4.95 | |
| 103. | Lining - width | Prim. | 55.8 mm 2.20 in | mm in |
| | | Sec. | 52.6 2.07 | |
| 104. | Pads - number per brake | | Two (2) | |
| 105. | Area, total - per brake | | 16.324 mm2/25.3 in2 | mm2 in2 |

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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 110.74 mm 4.36 in

(**) 134. Stroke 91.18 mm 3.59 in

(**) 135. Cylinders - capacity 877.96 cm3 53.6 in3

(**) 136. Cylinders, total capacity 7030 cm3 429 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 11.3:1 Nominal $\pm$ .3

( ) 143. Combustion chamber - volume $\frac{69.7}{72.7}$ cm3 $\frac{4.25}{4.44}$ in3

( ) 144. Piston - material/s Aluminum Alloy

( ) 145. Rings - number Three per piston

( ) 146. Distance from gudgeon pin centre line to highest point of piston crown 48.0 mm 1.89 in

(**) 147. Crankshaft - cast-forged-mach from solid Cast

(**) 148. Crankshaft - type - integral - sectioned - # of sections

(**) 149. Crankshaft, main bearings - number Five (5)

(**) 150. Bearing cap - material/s Iron

151. Lubrication - system - dry sump/oil in sump

152. Lubricant - capacity 5.67 ltrs pts 6 qts US

( ) 153. Cooler, oil - yes no

154. Cooling - method water radiator

155. Cooling - capacity of system 19.2 ltrs pts 20.3 qts US

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( ) 156. Fan, cooling (if fitted) - diameter 46.99 cm 18.5 in

( ) 157. Fan, cooling - number of blades 7 material/s steel

BEARINGS

(**) 158. Crankshaft, main - type insert diameter 76.2 mm 3.00 in

(**) 159. Connecting rod, big end - type insert diameter 72.5 mm 2.9 in

WEIGHTS

( ) 160. Flywheel (clean) 13.6 kg 30.0 lbs

( ) 161. Flywheel with clutch (all rotating parts) 24.72 kg 54.5 lbs

( ) 162. Crankshaft 33.11 kg 73.0 lbs

163. Connecting Rod .785 kg 1.73 lbs

( ) 164. Piston with rings & pin 1.04 kg 2.29 lbs

FOUR CYCLE ENGINES

(**) 170. Camshafts - number One (1) material/s Cast iron

(**) 171. Camshaft - location in block

(**) 172. Camshaft Drive, type link chain

(**) 173. Valve operation - type tappet pushrod rocker arm

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 56.25 mm 2.25 in

( ) 182. Valve lift - maximum 12.45 mm 0.498 in

183. Springs, valve - number 16

184. Spring - type Coil with dampener

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

( ) 186. Tappet - clearance for checking timing (hot) $\frac{.42}{.50}$ mm $\frac{.017}{.020}$ in

( ) 187. Valves - open at } Valve timing is based on seat timing with .017/.020 lash and/or clearance 40°30' BTC

( ) 188. Valves - close at } 79°30' ABC

( ) 189. Air filter - type paper element

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## EXHAUST (See Photo Q )

195. Manifold, exhaust - material/s Cast iron

196. Valves (overall) - diameter 43.2 mm 1.728 in

197. Valve, lift - maximum 12.45 mm .498 in

198. Valve Springs/valve - number Two (2)

199. Springs - type coil and flat dampener

(**) 200. Valves - number per cylinder One (1)

( ) 201. Tappet - clearance for checking timing (hot) .42/.50 mm .017/.020 in

( ) 202. Valves - open at 88°30' BBC

( ) 203. Valves - close at 31°30' ATC

Valve timing is based on seat timing with .017/.020 lash and/or clearance

## CARBURETION (See Photo N)

210. Carburetors, fitted - number One (1)

211. Type 4V

( ) 212. Make Holley

( ) 213. Model 4150

214. Carburetors - number of mixture passages Four (4)

( ) 215. Carburetor - flange hole diameter of exit port 42.17 mm 1.687 in

216. Venturi - throat diameter+ 34.37 mm 1.375 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)

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 - front R.H. corner

241. Voltage - volts 12 amp hrs 45

## ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

( ) 250. Horsepower - maximum engine output 370 at 5400 rpm (indicate SAE or DIN)

( ) 251. RPM - maximum 6150 output at that figure 320

( ) 252. Torque - maximum 450 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 29.2 cm 11.5 in

263. Linings - diameter - inside 17.8 cm 7.0 in

Linings - diameter - outside 29.2 cm 11.5 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 Ratio | Manual # Teeth | Automatic Ratio | Automatic # Teeth | Alternative manual/automatic Ratio | Alternative manual/automatic # Teeth | Ratio | # Teeth |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.32 | 23/25 32/15 | 2.46 | | 2.74 | 21/27 32/15 | | |
| 2 | 1.69 | 23/25 28/18 | 1.46 | | 2.00 | 21/27 28/18 | | |
| 3 | 1.29 | 23/25 25/21 | 1.00 | | 1.40 | 21/27 24/22 | | |
| 4 | 1.00 | Direct | | | 1.00 | Direct | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| reverse | 2.32 | | | | 2.74 | | | |

Torque Converter Maximum Ratio at Stall 2.10:1

278. Overdrive - type Not available

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 Four (4) pinion

(**) 292. Limited Slip Differential (if fitted) - type ≠ Positive locking by clutch, ratchet or roller

293. Ratio 3.25 manual 3.00 automatic 4.57 optional

Teeth - number 12/39 13/39 7/32

( ≠) Specify friction or tooth type locking differential

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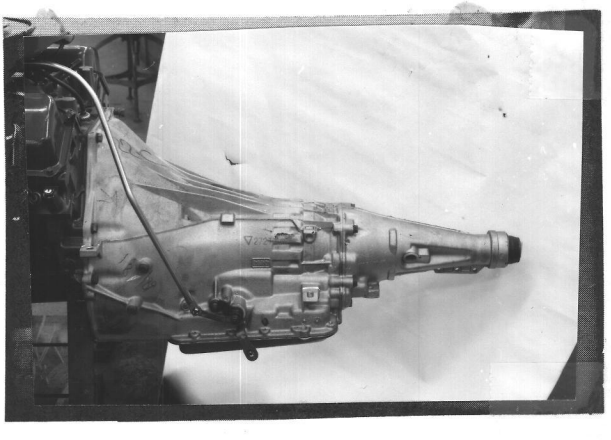
**IMPORTANT**

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.

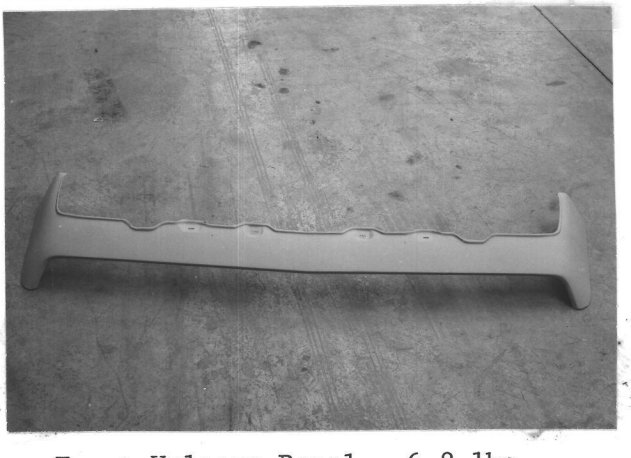
Optional equipment affecting preceding information:

CATALOGUE PART NUMBER MUST BE GIVEN



Automatic Transmission Photo H

Interior with Automatic Transmission



Front Valence Panel - 6.8 lbs.

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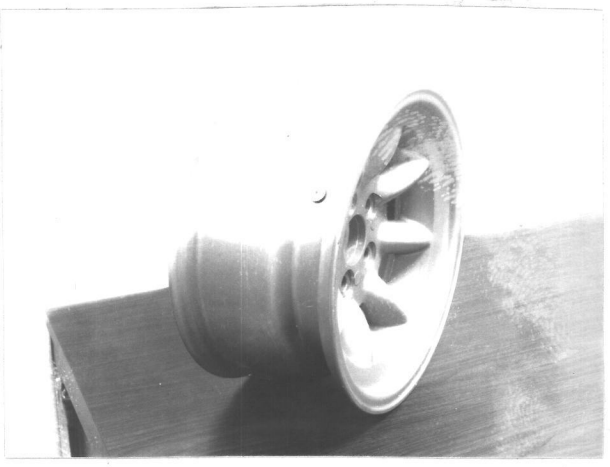
**MAKE** Mustang **MODEL** 1971 429 Mustang **EIA REC #** 5450

## Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

Optional Rear Disc Brake with Protective Shield

Optional Front Disc Brake



Optional Wheels 15 inch diameter
7.00-8.00-9.00-10.00 inch rim

FRONT - 15F X 70 - 616F-5Q3
15F X 80 - 616F-5Q3
15F X 90 - 616F-5Q3
15F X 10 - 616F-5Q3

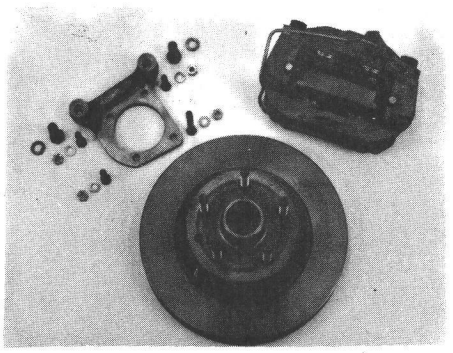
REAR - 15F X 70 - 616R-5Q3
15F X 80 - 616R-5Q3
15F X 90 - 616R-5Q3
15F X 10 - 616R-5Q3

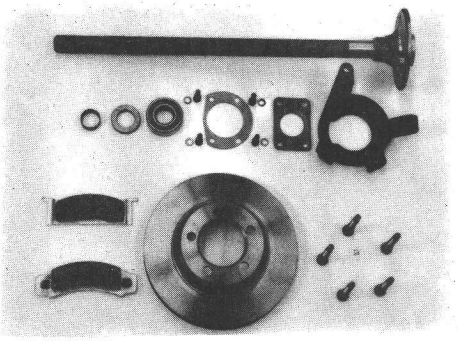
**STAMP**

**STAMP**

**MAKE** Mustang **MODEL** 1971 429 Mustang **EIA REC #** 5450

## Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

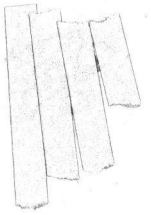


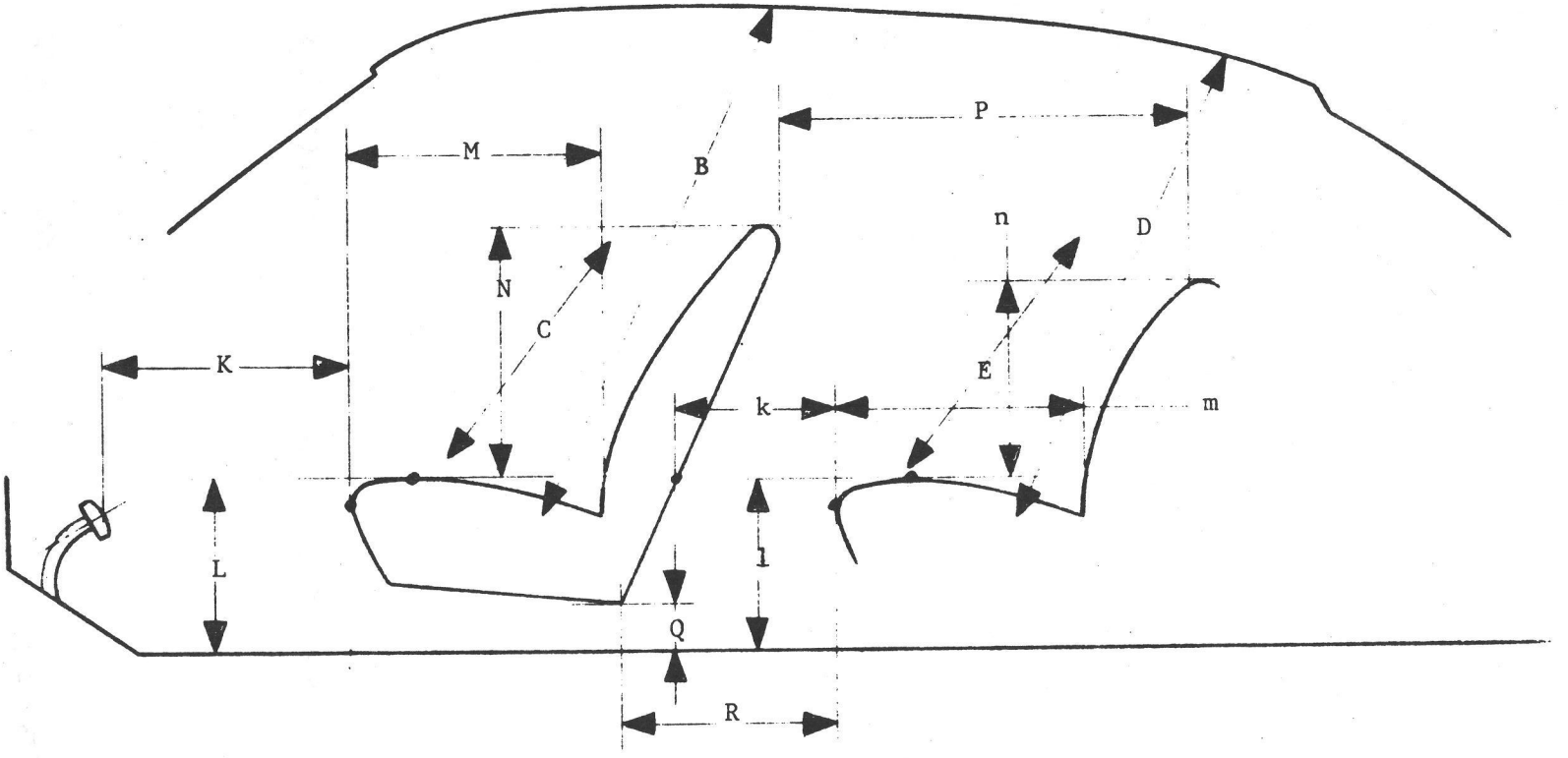


| Quantity Used | Description | Part Number |
|---|---|---|
| | **Front Disc Brake Kit** | **DOZX 2B513A** |
| 10 | Studs - Wheel | DOZX 1107-A |
| 2 | Hub and Rotor Assembly (Includes studs) | DOZX 1102-A |
| 1 | Bracket, Caliper, Right | DOZX 2B134-B |
| 1 | Bracket, Caliper, Left | DOZX 2B135-B |
| 1 | Caliper Assembly, Left | DOZX 2B119-A |
| 1 | Caliper Assembly, Right | DOZX 2B118-A |
| 1 | Brake Pads (Set) | DOZX 2001-B |
| 4 | Bolt, 9/16-12 x 1.38 Long (caliper to bracket) | 352344-S100 |
| 4 | Washer, Lock (9/16 caliper to bracket) | 34810-S7 |
| 6 | Bolt, 3/8-16 x 1.375 Long (bracket to spindle) | 43002-S2 |
| 2 | Bolt, 3/8-16 x 2.625 Long (bracket to spindle @ steering arm) | 43011-S |
| 8 | Washer, Lock 3/8 (bracket to spindle) | 34807-S8 |
| 8 | Nut, 3/8-16 (bracket to spindle) | 377605-S8 |
| | Instruction Sheet | |
| | **Rear Disc Brake Kit** | **DOZX 2B514-A** |
| 1 | Rear Axle Shaft Assembly, Left (Includes rotor, caliper bracket, bearing) | DOZX 4A359-A |
| 1 | Rear Axle Shaft Assembly, Right (Includes rotor, caliper bracket, bearing) | DOZX 4A358-A |
| 1 | Brake Pads (Set) | DOZX 2001-A |
| 2 | Spacer (Replaces backing plate) | DOZX 4374-A |
| 1 | Axle Shaft, Left | DOZX 4238-A |
| 1 | Axle Shaft, Right | DOZX 4235-A |
| 2 | Rotor | DOZX 1126-A |
| 1 | Bracket, Caliper, Left | DOZX 2B512-A |
| 1 | Bracket, Caliper, Right | DOZX 2B511-A |
| 8 | Screw, Socket Hd., 3/8-16 x 1.00 Long (bracket to axle housing) | 302218-S36 |
| 8 | Washer, 3/8 Lock (bracket to axle housing) | 356403-S8 |
| | Instruction Sheet | |

**Model** 429 Mustang **Make** Mustang

| | | | | | |
|---|---|---|---|---|---|
| K | 20.75 | k | 13.75 | P | 31.5 |
| L | 8.5 | l | 8.5 | Q | 5.5 |
| M | 18.0 | m | 15.5 | R | 15.0 - 10.5 |
| N | 23.0 | n | 18.75 | | |
| B | 37.0 | D | 35.75 | | |
| C | 56.50 | E | 54.50 | | |






Note: All dimensions in inches

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GII

MAKE Mustang MODEL 1971 429 Mustang FIA REC # 5450

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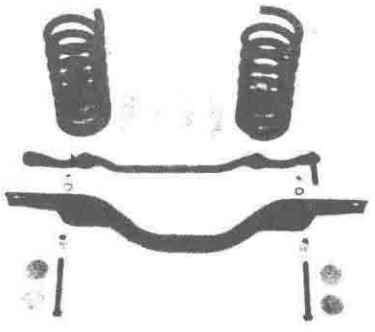

| Quantity Used | Description | Part Number |
|---|---|---|
| | **Front Suspension and Steering Kit** | DOZX 3K064-A |
| 1 | Steering Crosslink Assembly | DOZX 3304-A |
| 1 | No. 2 Crossmember Assembly | DOZX 5025-A |
| 4 | Shim, Camber Adjusting | DOZX 3043-A |
| 2 | Spacer, No. 2 Crossmember Assembly | DOZX-5A090-A |
| 4 | Washer, Lower Arm Reinforcing | DOZX 3B329-A |
| 2 | Front Spring | |
| 2 | Bolt - 1/2-13 x 4.75 Long (Attaches arm and crossmember to chassis) | 381667-S7 |
| 2 | Washer - 1/2 Lock (For 381667-S7 bolt) | 34809-S8 |
| 2 | Nut - 1/2-13 Hex (For 381667-S7 bolt) | 380952-S2 |
| | Instruction Sheet | |
| | **Rear Suspension Kit** | **DOZX 5A816-A** |
| 2 | Rear Spring Assemblies 200 lb./in. rate | DOZX 5556-B |
| 4 | Bushing Assembly, Rear Spring Eye | DOZX 5781-B |
| 2 | Spacer, Rear Spring Bushing | DOZX 5997-A |
| 1 | Track Bar Assembly | DOZX 5A639-A |
| 1 | Bracket, Track Bar, Frame | DOZX 5546-A |
| 1 | Bracket, Track Bar, Axle | DOZX 5557-A |
| | Instruction Sheet | |

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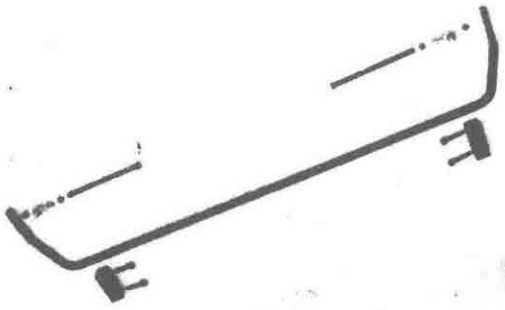
MAKE Mustang MODEL 1971 429 Mustang PIA REC # 5450

Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN



| Quantity Used | Description | Part Number |
|---|---|---|
| | **Rear Stabilizer Bar Installation Kit** | **DOZX 5B496-A** |
| 2 ea. | Block, Spacer | DOZX 5B495-A |
| 2 | Link Assemblies | DOZX 4A343-A |
| 4 | Bolt - 5/16-18 x 2.00 | 56126-S |
| 2 | Ball Joint Assemblies | Superior SPF-65 |
| | Instruction Sheet | |
| | **Fender Flare Kit** | **DOZX 16D212-A** |
| 1 pr. | Panel, Quarter, Partial | X-4033, X-4034 |
| | Template, Wheel Opening centerline, front | X-4032 |
| | Template, Wheel Opening centerline, rear | X-4031 |
| | Instruction Sheet | |

Optional Rear Axle Ratios:
3.10, 3.40, 3.50, 3.89, 4.11, 4.44,
4.71, 4.86, 5.14, 5.43. 5.67

**STAMP** **STAMP**

FIA Homologation No. 5450

1/IV

AUTOMOBILE COMPETITION COMMITTEE
FOR THE UNITED STATES, FIA, INC.
330 Vanderbilt Motor Parkway
HAUPPAUGE, L. I., NEW YORK 11787

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

DOCUMENT OF HOMOLOGATION EXTENSION
IN CONFORMITY WITH APPENDIX J OF THE INTERNATIONAL SPORTING CODE

Make Ford Motor Company  Model Mustang

Chassis/Body 2 Dr. Fastback

Serial numbers initiating the modifications described below:

Engine Boss 351 (Cleveland)

Date of production of first vehicles incorporating modifications: Sept. 23 1970

Designation of vehicles incorporating modifications: Boss 351 - 1F02R

This homologation extension is to be considered as a: VARIANT (Option) Yes

NORMAL EVOLUTION OF TYPE
(Replaces previous design)

This Homologation is valid from June 11 19 71  List

DESCRIPTION OF MODIFICATIONS:

.Vehicle weight - 1450 kg. or 3196.7 lbs.
.Engine - See Attachments
.Transmission - 4 speed manual, std. ratios 2.78, 1.93, 1.36, 1.00
optional ratios 2.32, 1.69, 1.30, 1.00
.Final Drive - Standard ratio 3.50 to 1
~~Optional ratios 3.91 to 1~~
~~1.70 to 1~~

Optional Ratios 3.91 to 1
1.30 to 1

Signature & Stamp of
National Sporting Authority

John L. Cowan

Signature & Stamp
of the F.I.A.

5450
1/10

## ENGINE - 351 CID 90° V-8 (CLEVELAND)

Bore - 101.6 mm or 4.0 in.

Stroke - 88.9 mm or 3.5 in.

Cylinder capacity - 721 $cm^3$ or 44 $in^3$

Cylinders total capacity - 5752 $cm^3$ or 351 $in^3$

Block material - Cast iron
Cyl. head material - Cast iron

Compression ratio (nominal) - 11.7 to 1 $\pm$ .3

Combustion chamber volume - 64.6 $cm^3$ or 3.94 $in^3$

Piston material - Forged aluminum, (3) ring design

Distance from wrist pin to top of piston dome - 48.26 mm or 1.90 in.

Crankshaft - Nodular iron casting, (5) main bearings, integral type

Lubrication system - 4.73 liters, 5 qts. wet sump, no oil cooler

Cooling - 14.57 liters or 15.4 qts. (water) radiator

Fan - (5) steel blades 44.6 cm or 17.56 in. diameter

Bearings - Insert type main & rod 69.8 mm or 2.749 in. (main) and 58.7 mm or 2.311 in. (rod) journal diameters

### Weights

Flywheel - 9.07 kg. or 20.0 lbs. $\pm$ 5%

Flywheel with clutch - 30.3 kg. or 66.8 lbs. $\pm$ 5%

Crankshaft - 25.4 kg. or 56 lbs. $\pm$ 5%

Connecting rod - .748 kg. or 1.65 lbs. $\pm$ 5%

Piston with rings & wrist pin - .78 kg. or 1.72 lbs.

### Induction System

Manifold - Aluminum casting

Valves (overall) diameter - 55.63 mm or 2.19 in.

Valve timing specifications - See Attachment II

Valve springs - Inner, Outer with damper

Air filter - Paper element

ATTACHMENT II

5450
I/IV

| Timing (See Note Below) | Intake | Exhaust |
|---|---|---|
| Valve Lash | .00 | .00 |
| Opens (BTDC) (BBDC) | 50° | 102° |
| Closes (ABDC) (ATDC) | 94° | 42° |
| Overlap | 92° | 92° |
| Duration | 324° | 324° |

Note: Timing and lift specifications are those found at .018 valve lift when checking clearances are set as specified above.

Exhaust System

Manifold - Cast iron

Valves (overall) diameter

Valve timing specifications - See Attachment II

Valve springs - Inner, Outer with damper

Carburetion

One (4) venturi Autolite downdraft, model 4300-D

Primary venturi diameter - 31.75 mm or 1.25 in.

Secondary venturi diameter - None (air valve)

Throttle bore diameter - (Primary) 39.62 mm or 1.56 in.
(Secondary) 49.78 mm or 1.96 in.

Engine Performance

Horsepower - 370 max. @ 5400 RPM

Torque - 450 ft. lbs. @ 3400 RPM

RPM - 6150 maximum and 320 H.P.

Clutch - mechanically operated, single driven, dry plate

Plate diameter - 29.2 cm or 11.5 in.

Lining I.D. - 17.8 cm or 7.0 in.

Lining O.D. - 29.2 cm or 11.5 in.