FEDERATION INTERNATIONALE DE L'AUTOMOBILE

FORD – MUSTANG 302 (1968)	1/68.	5205
MARQUE ET MODELE	VALIDITE HOMOLOGATION	FICHE NR.

	1 / 5000
	GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 26/10/95 par _____ visée ce jour le _____ par _____

PAG. 1/1

M
302
GI

MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205

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
FORM OF RECOGNITION

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

I N D E X

CONVERSION TABLE:

1 inch / pouce	2.54 cm	
1 foot / pied	30.479 cm	
1 square inch / pouce carre	6.452 cm2	
1 cubic inch / pouce cube	16.387 cm3	
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.

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

M
5205-302 GI

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 1968 Mustang 302

Serial # Chassis 8F01J100001 Manufacturer Ford

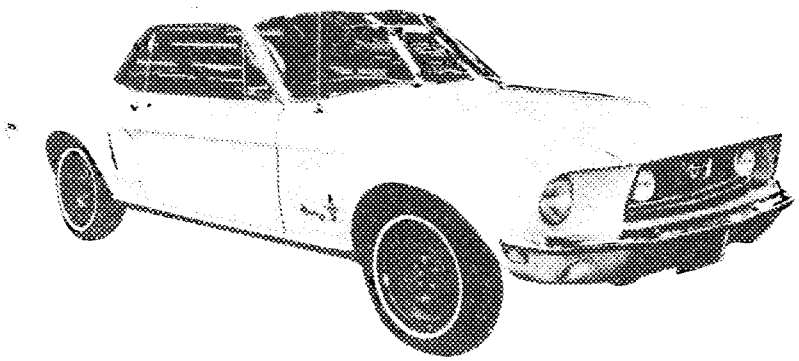
Serial # Engine None Manufacturer Ford

Recognition valid from _____ List _____

The manufacturing of the model described in this recognition form was started on August 23, 1967 and the minimum production of 10,000 identical cars, in accordance with the specifications of this form, was reached on November 30, 1967.

(*) 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 V. OLIVEAU
TECHNICAL DIRECTOR
ACCUS, F.I.A. INC.

Stamp/Signature
F.I.A.

1.1.1968

MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205

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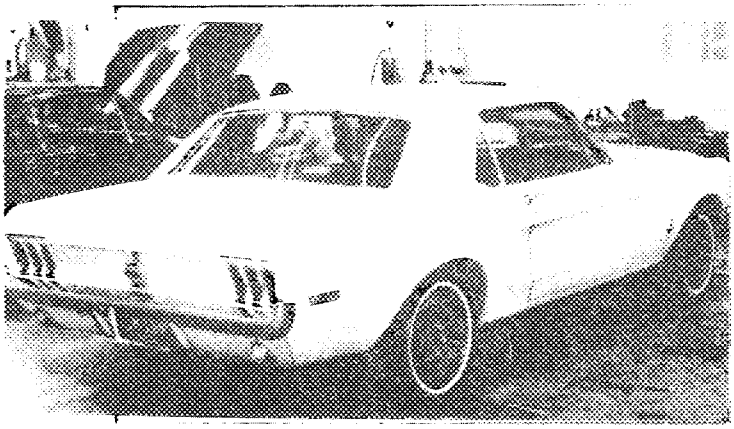
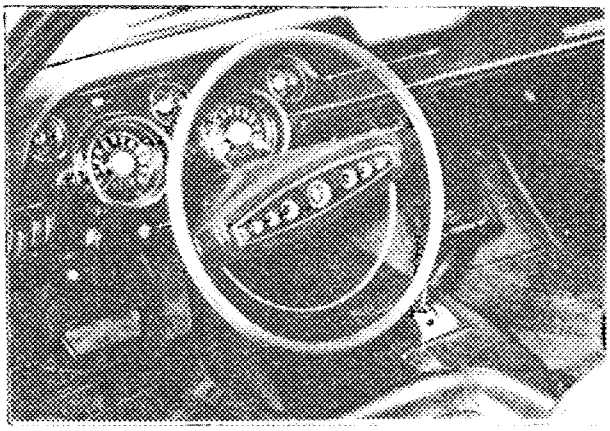
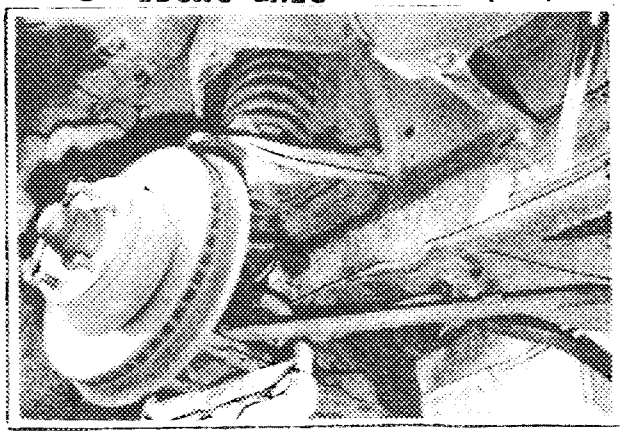
B 3/4 rear car (**)



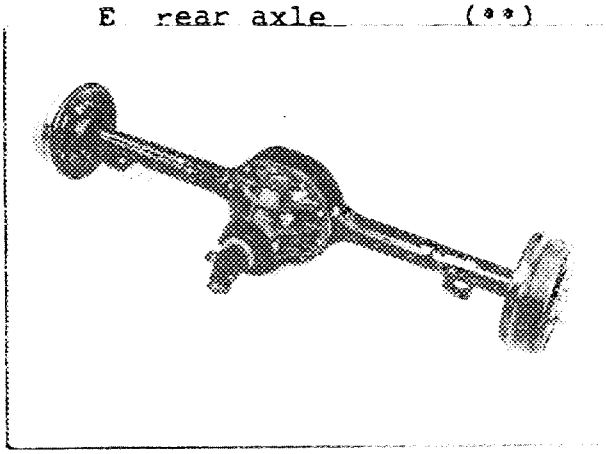
C interior-car (**)



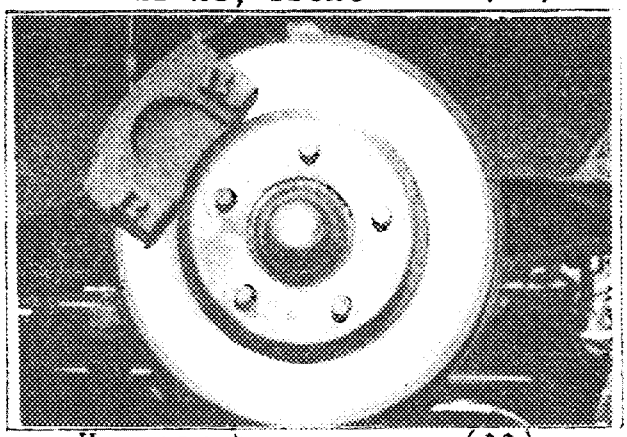
D front axle (**)



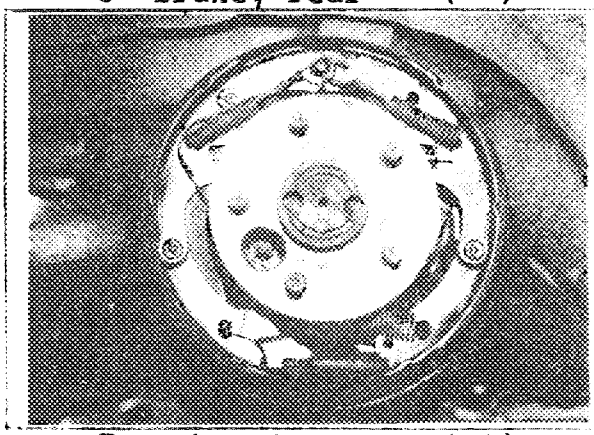
E rear axle (**)



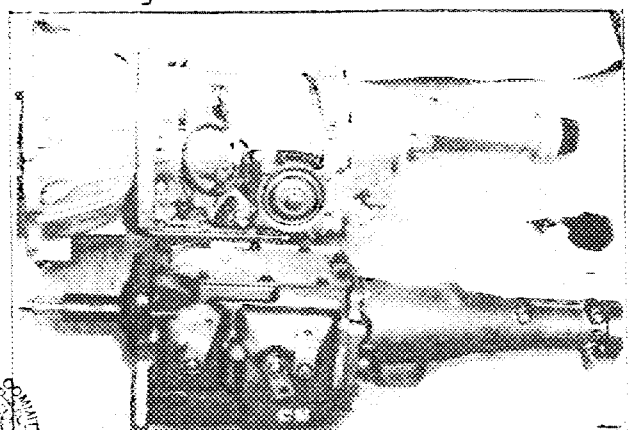
F brake, front (**)



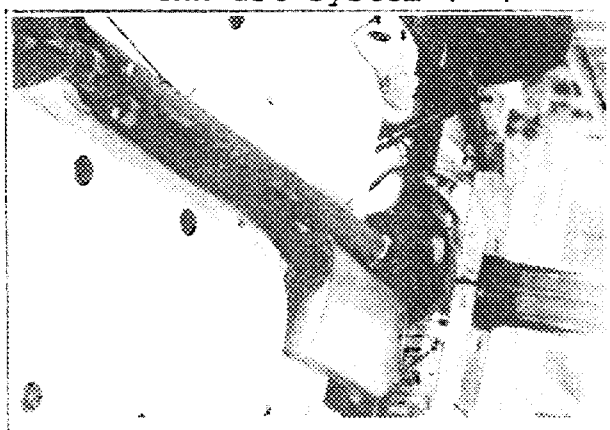
G brake, rear (**)



H gear box (**)



I exhaust system (*)



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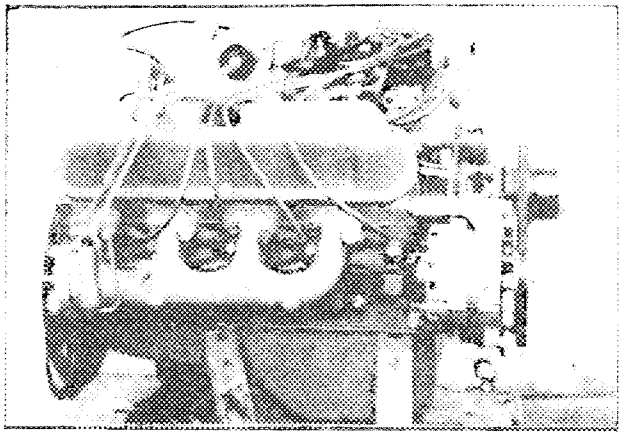
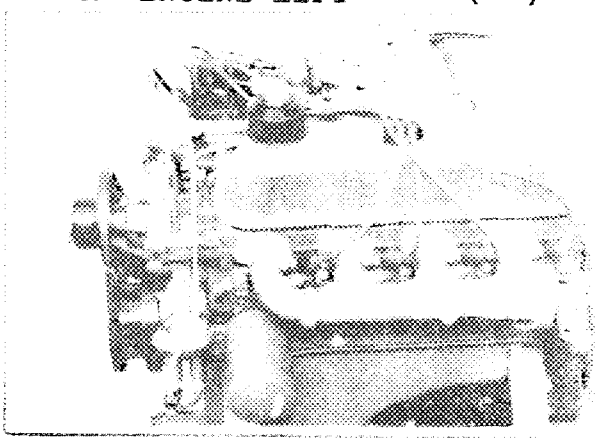
MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205

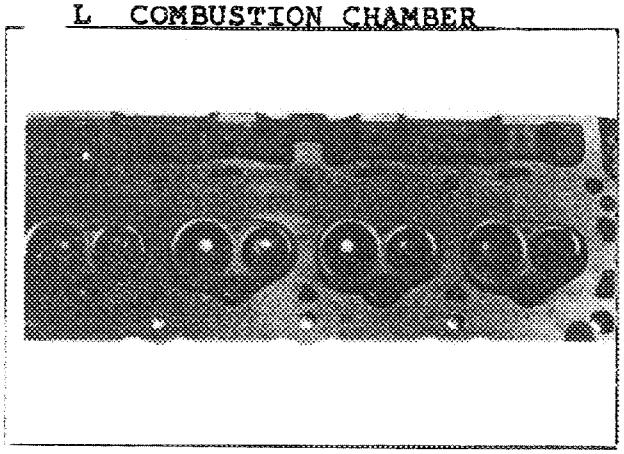
J ENGINE RIGHT (**)



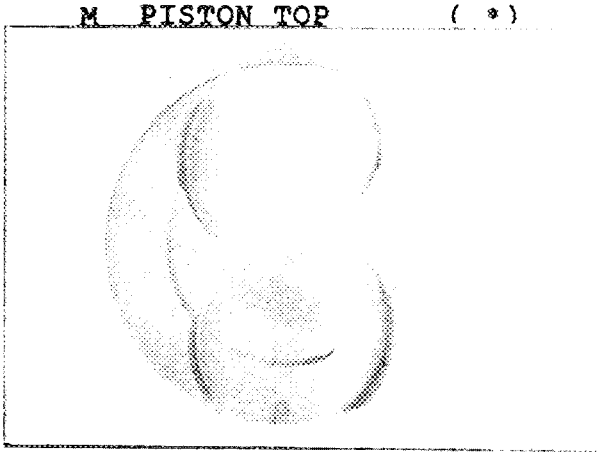
K ENGINE LEFT (**)



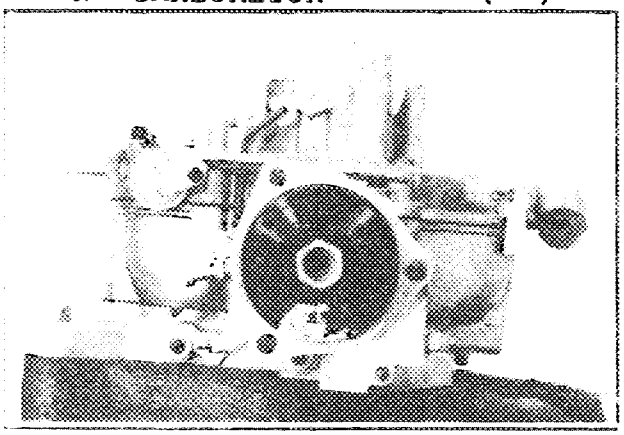
L COMBUSTION CHAMBER



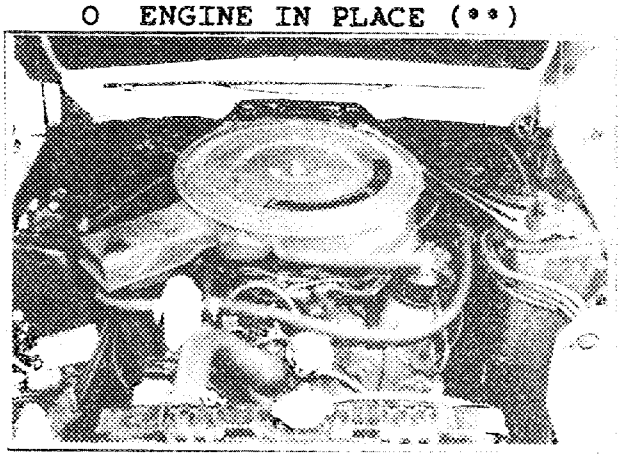
M PISTON TOP (*)



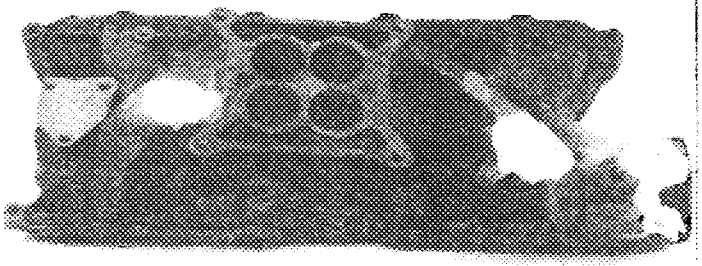
N CARBURETOR (*)



O ENGINE IN PLACE (**)

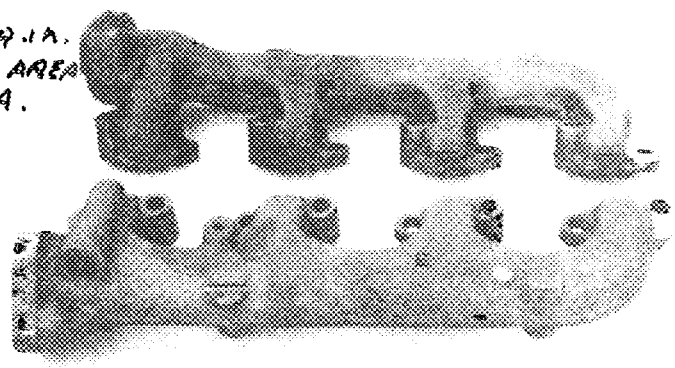


P MANIFOLD INLET



Q MANIFOLD EXHAUST

2.895 Sq. In. Clear Area EA.



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

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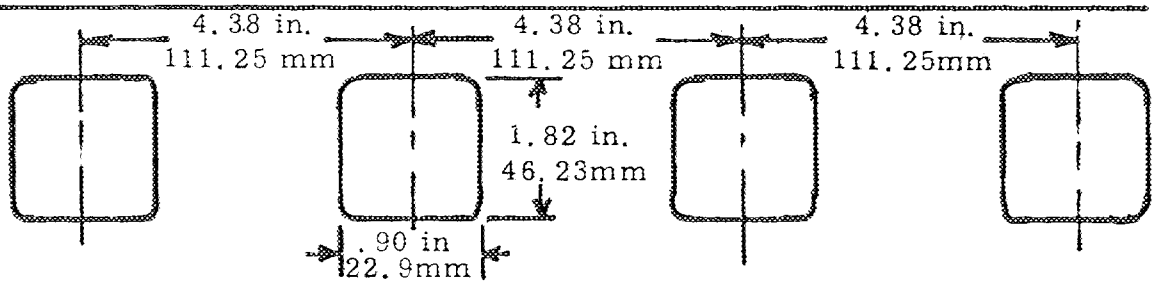
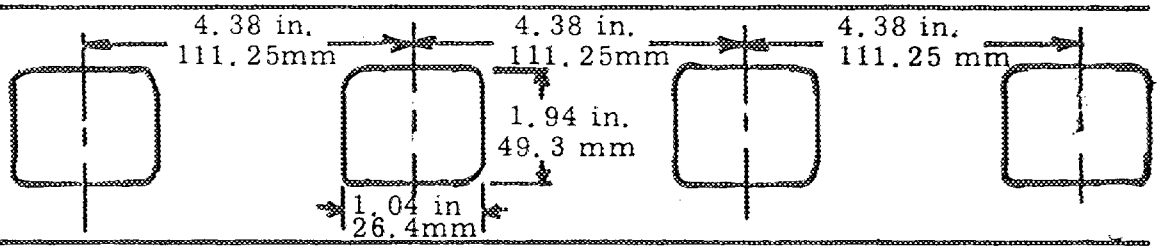
MAKE Ford MODEL 1968 Mustang 302 FIA REC # 5205 M 302 G I

ALL SKETCHES MUST INDICATE ACTUAL DIMENSIONS AND MANUFACTURER'S TOLERANCES. = ± .04 in or ± 1.0 mm

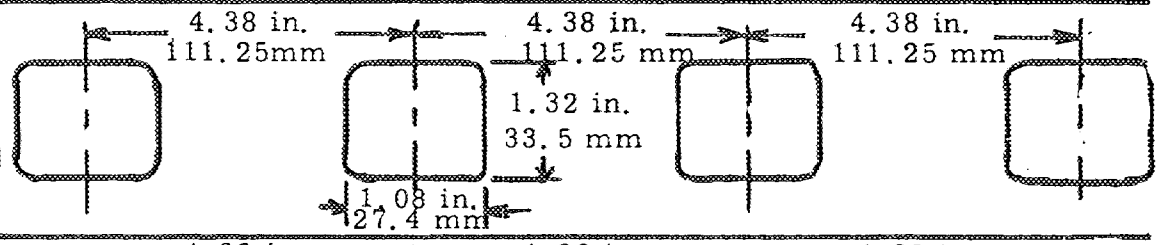
*Inlet Manifold Porting Cyl. Head Face



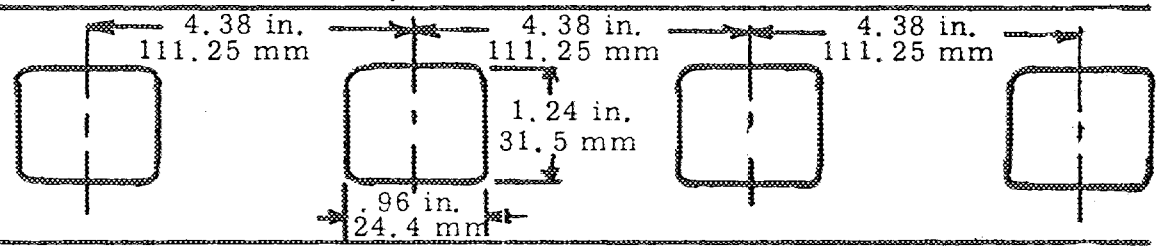
*Cylinder Head Porting Inlet Face



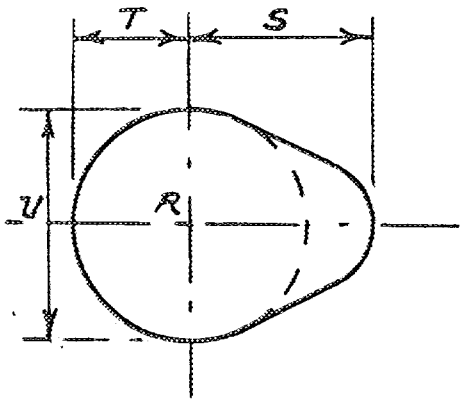
*Exhaust Manifold Porting Cyl. Head Face



*Cylinder Head Porting Exhaust Face



CAM



Inlet cam			
S= 24.63	mm	9698	in
T= 18.80	mm	740	in
U= 37.59	mm	1.480	in

Exhaust cam			
S= 24.83	mm	9775	in
T= 18.80	mm	.740	in
U= 37.59	mm	1.480	in

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MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205 GI

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

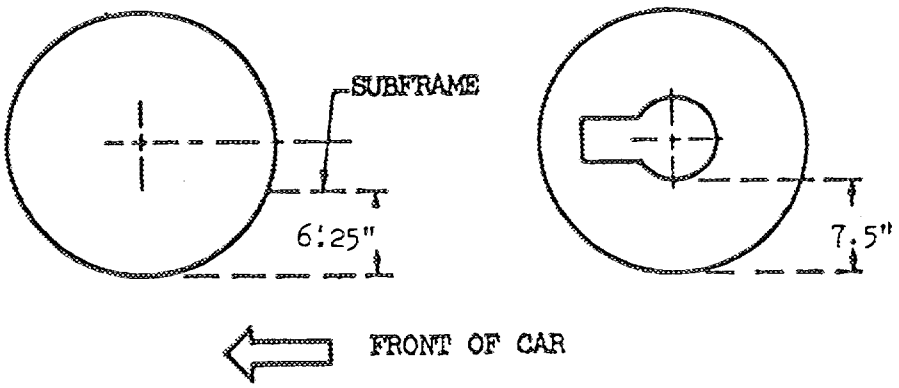
(**) 2. Front track 1483.4 mm 58.4 in + At 0° Camber-0" Toe-In

(**) 3. Rear track 1475.7 mm 58.1 in +

+ Differences in track resulting from use of optional wheel and rim sizes must be stipulated on recognition* See Note Below 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 183.6in

5. Overall width of car 180.09 cm 70.9in

6. Overall height of car 131.064 cm 51.6in

7. Capacity of fuel tank (reserve included) 140.0/128.7/64.3 ltrs. 37/ 34/17 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. 1209 kg 2660lbs

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MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205

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 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) ~~kg~~ 14.8 kg ~~lbs (unit)~~ 32.5 LB EA

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) kg 8.9 lbs 19.5

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 No

62. Number of turns of steering wheel from lock to lock 4.6

63. In case of servo assistance 3.7

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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)

				Front	Rear
(**)	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	
	93.	Cylinders - number per wheel		1	1
	94.	Cylinders - wheel bore (indicate stepped bore dimensions if applicable)		60.32 mm 2.375 in	23 mm .906 in

Drum Brakes

			Front	Rear
	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	mm2 in2 / 31,454	mm2 48.75 in2

Disc Brakes

	100.	Diameter, outside	287 mm	11.3 in	mm	in
	101.	Thickness of disc	23.88 mm	.940 in	mm	in
	102.	Lining - length	124.5 mm	4.9 in	mm	in
	103.	Lining - width	46.48 mm	1.83 in	mm	in
	104.	Pads - number per brake	Two (2)			
	105.	Area, total - per brake	11,580 mm2	17.9 in2	mm2	in2

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MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205

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 4.00 in

(**) 134. Stroke 76.2 mm 3.00 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) - 4 per head

(**) 141. Port, exhaust - number Eight (8) - 4 per head

(*) 142. Compression - ratio 9.5:1

(*) 143. Combustion chamber - volume 53.5 cm3 3.264 in3

(*) 144. Piston - material/s Aluminum Alloy W/Steel Struts

(*) 145. Rings - number Three (3)

(*) 146. Distance from gudgeon pin centre line to highest point of piston crown 40.77 mm 1.605 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 14.2 ltrs pts 15 qts US

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(*) 156. Fan, cooling (if fitted) - diameter 44.45 cm 17.50in

(*) 157. Fan, cooling - number of blades 4/5 material/s Steel

BEARINGS

(**) 158. Crankshaft, main - type Insert diameter 57.11 mm 2.249 in

(**) 159. Connecting rod, big end - type Insert diameter 53.94 mm 2.1236 in

WEIGHTS

(*) 160. Flywheel (clean) 10.32 kg 22.8 lbs

(*) 161. Flywheel with clutch (all rotating parts) 18.91kg 41.8 lbs

(*) 162. Crankshaft 24.25 kg 53.6 lbs

163. Connecting Rod .562 kg 1.24lbs

(*) 164. Piston with rings & pin .768 kg 1.69lbs

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, Push Rod, 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 45.42 mm 1.788 in MAX.

(*) 182. Valve lift - maximum 10.8 mm .426 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 clearance indicated) 15° BTC

(*) 188. Valves - close at (with tolerance for tappet clearance indicated) 61° ABC

(*) 189. Air filter - type Dry Element

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MAKE FORD MODEL 1968 MUSTANG 302 RIA REC # 5205

EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s — Cast Iron

196. Valves (overall) - diameter — 37.01 mm — 1.457 in

197. Valve, lift - maximum — 10.8 mm — .426 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) — 0 mm — 0 in

(*) 202. Valves - open at (with tolerance for tappet clearance indicated) — 55 BBC

(*) 203. Valves - close at (with tolerance for tappet clearance indicated) — 19 ATC

CARBURETION (See Photo N)

210. Carburetors, fitted - number — One (1)

211. Type — 4V Down Draft

(*) 212. Make — Autolite

(*) 213. Model — 9510

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

(*) 215. Carburetor - flange hole diameter of exit port — Prim. 36.4 - Sec. 39.6 mm — Prim. 1.437 - Sec. 1.562 in

216. Venturi - throat diameter+ — 28.57 mm — 1.125 in

INJECTION

220. Pump - make

221. Plungers - number

NONE FITTED

(*) 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 1968 MUSTANG 302 FIA RE~ # 5205

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~~ Alternator - volts — 12.8

239. Battery - number — One (1)

240. Location — Front of Car

241. Voltage - volts — 12 amp hrs 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

(*) 250. Horsepower - maximum engine output (indicate SAE or DIN) — 230 at 4800 rpm S.A.E.

(*) 251. RPM - maximum 4800 output at that figure — 230

(*) 252. Torque - maximum — 310 at 2800 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 — 25.55cm 10.06 in

263. Linings - diameter - inside — 17.15cm 6.75 in

Linings - diameter - outside — 25.4 cm 10 in

264. Method of operation — Mechanical

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MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205

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	2.78	23/30 32/15	2.46	Torque Converter Maximum Ratio at Stall 2.0:1	2.32	23/25 32/15		
2	1.93	23/30 31/21	1.46		1.69	23/25 28/18		
3	1.36	23/30 25/24	1.00		1.29	23/25 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 Roller

(**) 292. Limited Slip Differential (if fitted) - type ≠ Positive Locking (Ratchet or Roller)

293. Ratio 3.89 3.25 3.50 3.70 4.11 4.33

Teeth - number 35/9 39/12 35/10 37/10 37/9 39/9

(≠) Specify friction or positive locking type

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MAKE FORD MODEL 1968 MUSTANG 302 FIA REC # 5205

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	17.4 LBS
R-70	Power Steering	28. LBS
S-58	Air Conditioning	75. LBS
S1MK6642-B	Engine Oil Cooler Kit - Includes:	1 - Radiator - Oil 1 - Adaptor 2 - Hoses Required brackets, fittings, gaskets, attachings parts.

9.6 LBS CAP 1.7 QTS

STAMP

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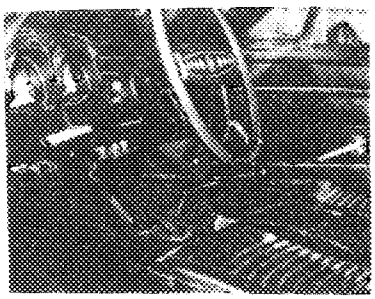
Optional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN



INTERIOR OF CAR WITH MANUAL GEARBOX.

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