



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

M
289
G II

150g

Group II

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

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

Cylinder capacity 4740 cm3 289 in3

Manufacturer Ford Motor Company Model 1968 Mustang

Serial # Chassis 8F01K100001 Manufacturer Ford

Serial # Engine None Manufacturer Ford

Recognition valid from 1st January 1968 List 1968/1

The manufacturing of the model described in this recognition form was started on August 23, 1967 and the minimum production of 1000 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

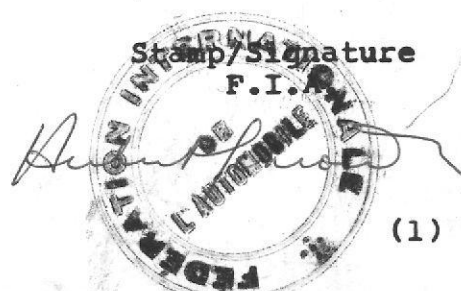
Normal evolution of the type

on 19 rec # list
on 19 rec # list
on 19 rec # list

Stamp/Signature of
National Sporting Authority

John V. Oliveau
JOHN V. OLIVEAU
TECHNICAL DIRECTOR
ACCUS, FIA, INC.

Stamp/Signature
F.I.A.



(1)

MAKE FORD

MODEL 1968 MUSTANG 289

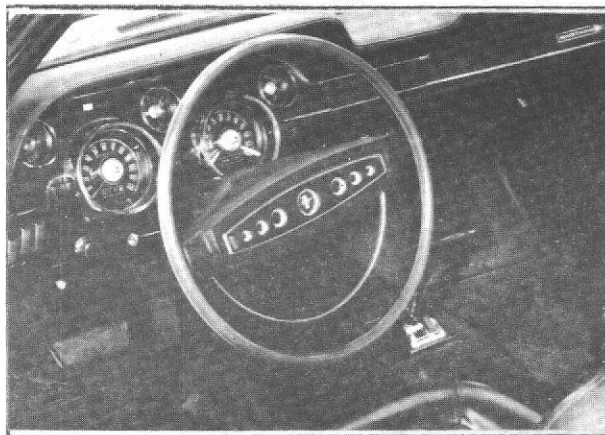
FIA REC # 1509

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289
G II

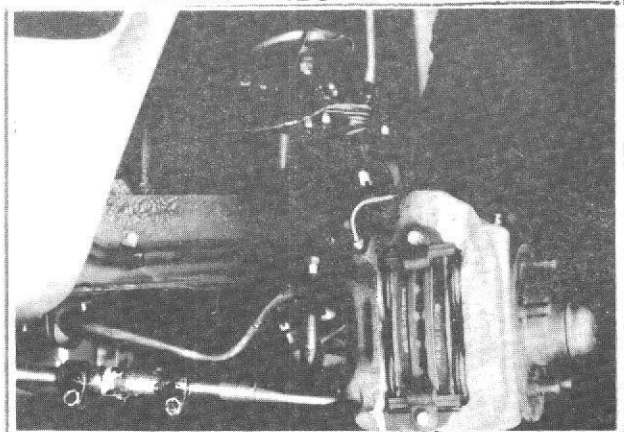
B 3/4 rear car (**)



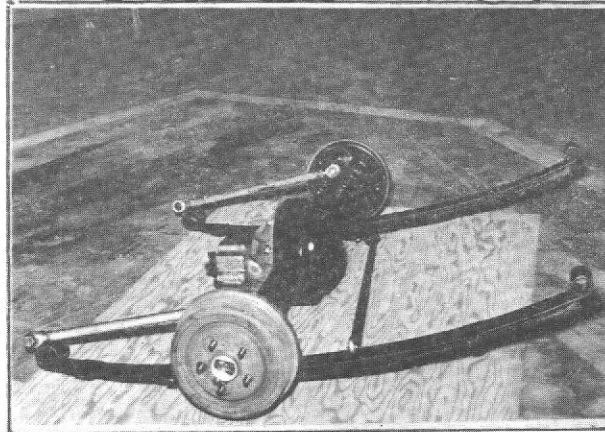
C interior-car (**)



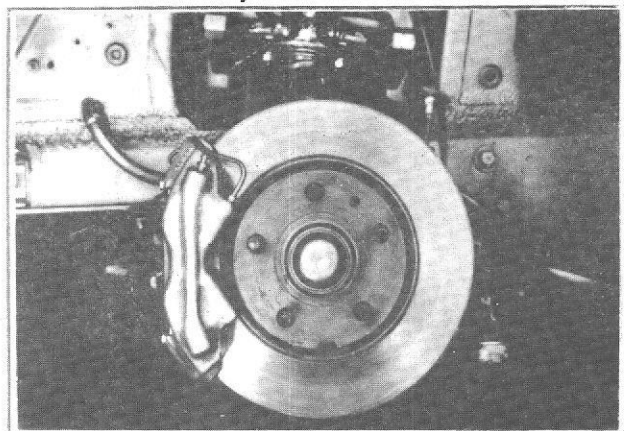
D front axle (**)



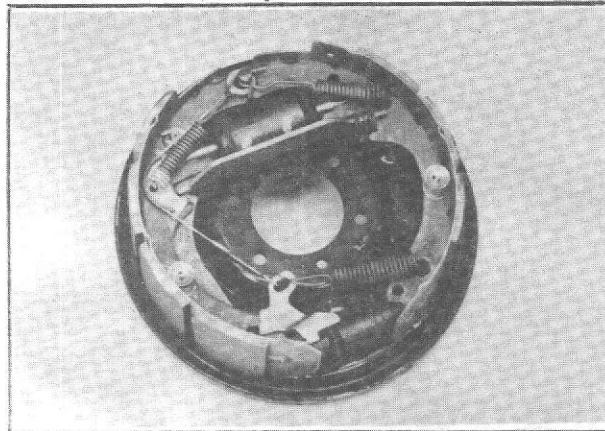
E rear axle (**)



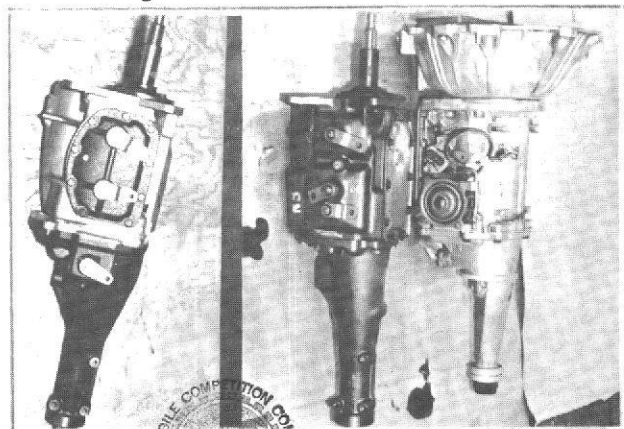
F brake, front (**)



G brake, rear (**)



H gear box (**)



I exhaust system (*)



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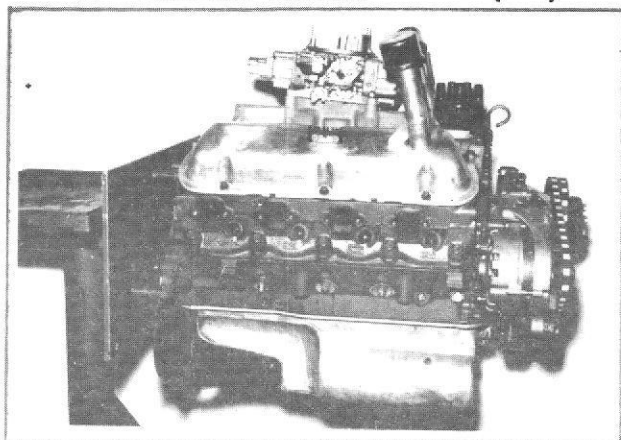


MAKE FORD
J ENGINE RIGHT (**)

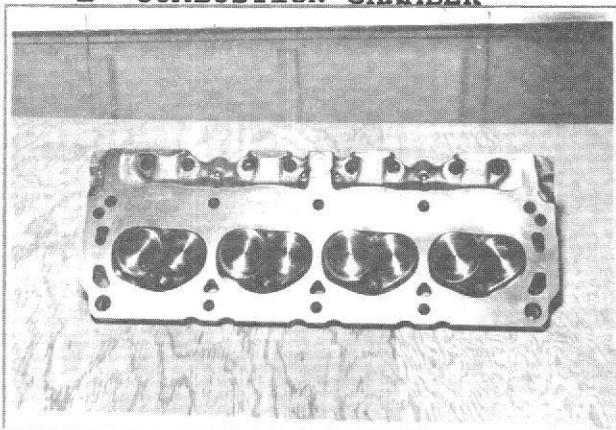
MODEL 1968 MUSTANG 289

FIA REC # 1509

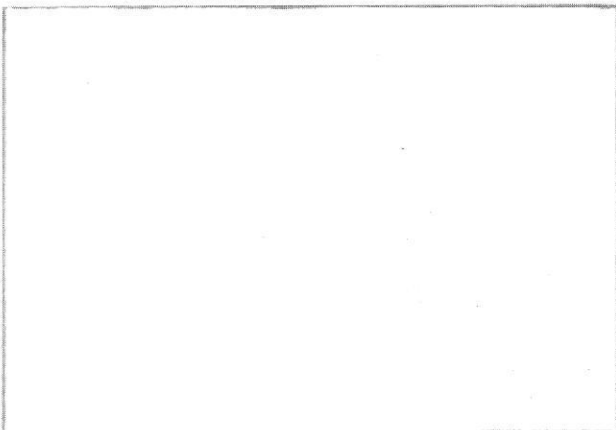
M 289
G II



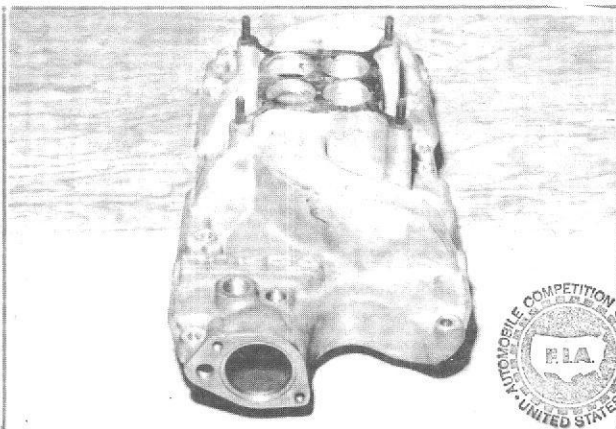
L COMBUSTION CHAMBER



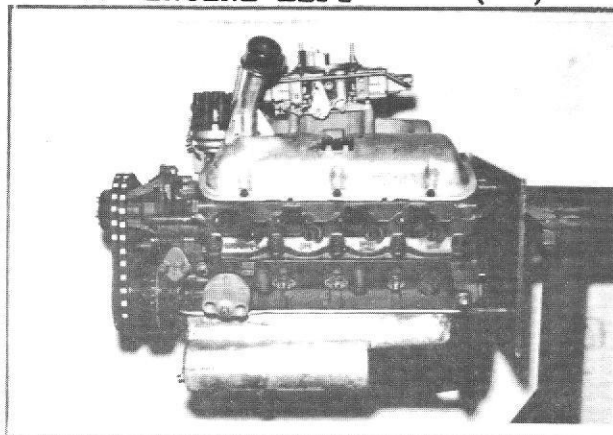
N CARBURETOR (*)



P MANIFOLD INLET



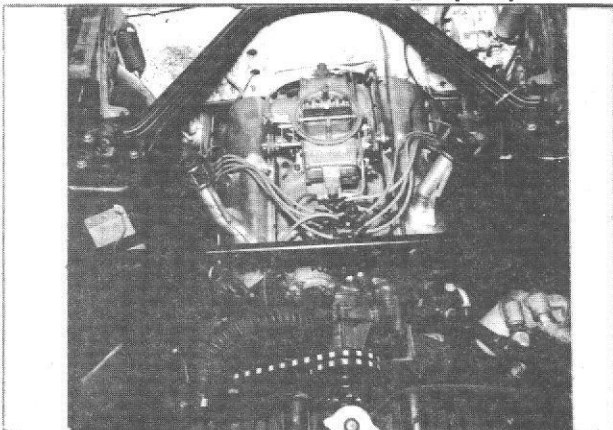
K ENGINE LEFT (**)



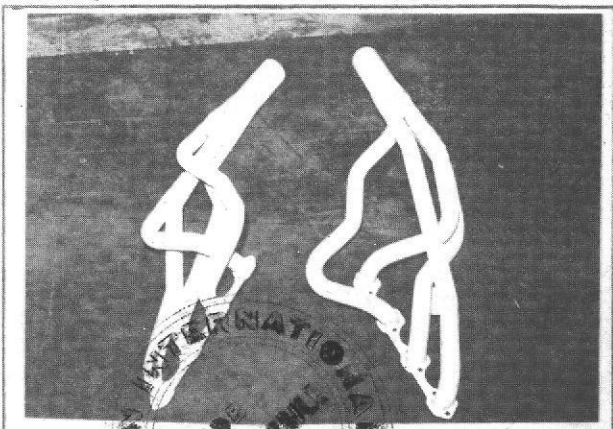
M PISTON TOP (*)



O ENGINE IN PLACE (**)



Q MANIFOLD EXHAUST



9.6 in²
EACH

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

MAKE FORD MODEL 1968 MUSTANG 289 FIA REC # 1509

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

*Inlet

Manifold

Porting D.N.A.

Cyl.

Head

Face

*Cylinder

Head

Porting D.N.A.

Inlet

Face

*Exhaust

Manifold

Porting D.N.A.

Cyl. Head

Face

*Cylinder

Head

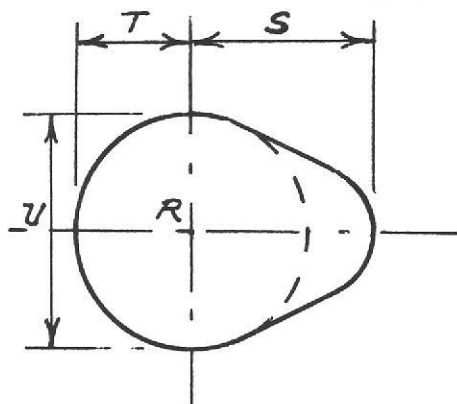
Porting D.N.A.

Exhaust

Face

D.N.A.

CAM



Inlet cam

S= mm in
T= mm in
U= mm in

Exhaust cam

S= mm in
T= mm in
U= mm in

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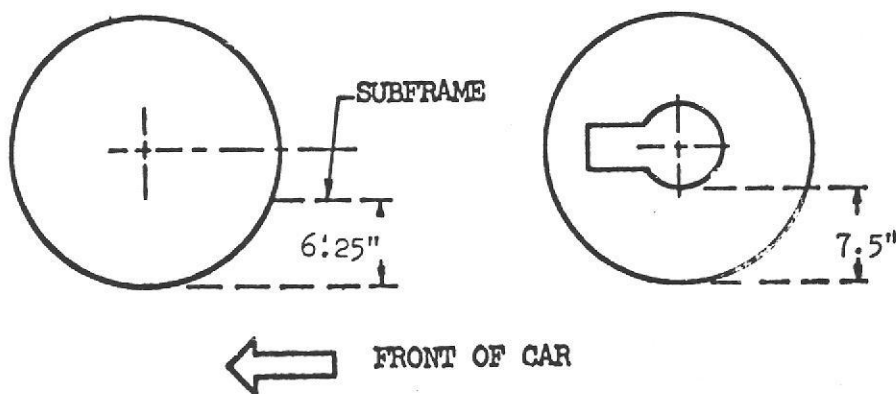
IMPORTANT: Questions 1 through 9 must be answered in two measuring systems, one of which must be the metric system.
See conversion table at index.

CAPACITIES & DIMENSIONS

- (**) 1. Wheelbase 2743.2 mm 108 in
 (**) 2. Front track - with 7" rims 1526.5 mm 60.1 in + 0° camber
 (**) 3. Rear track - with 7" rims 1518.9 mm 59.8 in + 0" toe-in
 + Differences in track resulting from use of optional *see note below
 wheel and rim sizes must be stipulated on recognition
 application forms.

Dimensional relationship between track (front and/or rear) and ground clearance resulting from use of optional wheel sizes shall also be stipulated and a sketch illustrating suspension reference points shall be shown below to establish the "reference chassis height." The reference chassis height dimension is to be used only when checking track and shall not affect eligibility of car in any manner.

Sketch, Ground Clearance: Dimensional Suspension & Chassis Reference Points"



*Note: Geometry changes in front suspension will alter track.

4. Overall length of car 466.34 cm 183.6 in
 5. Overall width of car 181.1 cm 71.3 in
 6. Overall height of car 131.064 cm 51.6 in
 7. Capacity of fuel tank (reserve included) 140/128.7/64.3 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. 1188 kg 2620 lbs

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CHASSIS & BODYWORK - Photos A, B, C

- (**) 20. Chassis/body construction - separate/unit construction
 (**) 21. Unit construction - material/s Sheet Steel
 (**) 22. Chassis - material/s Steel separate construction
 (**) 23. Body - material/s Steel separate construction
 (**) 24. Doors - number 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 D.N.A.
 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 14.8 kg 32.5 Lbs EA
 (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 4.07 lbs 9 Weight
 45. Bumper, rear - material/s Steel kg 6.33 lbs 14 Weight

WHEELS

50. Type Steel or Magnesium
 51. Weight (per wheel, without tire) 5.9kg 13 lbs
 52. Method of attachment Stud and Nut (Five)
 53. Rim, diameter 381 mm 15 in
 54. Rim, width 178/203 mm 7/8 in

STEERING

60. Type Recirculating Ball and Nut
 61. Servo assistance D.N.A.
 62. Number of turns of steering wheel from lock to lock 3.7
 63. In case of servo assistance D.N.A.

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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 Sway Bar/Traction Bars/Panhard Rod
 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 DNA
 92. Master Cylinders - number and type One - Dual
 (indicate if duplex master cylinder) Front Rear
 93. Cylinders - number per wheel 4 1 or 4 (option)
 94. Cylinders - wheel bore 49.2 mm 1.937in 23 mm .906in or
 (indicate stepped bore dimensions if applicable) 41.3mm 1.625 in

Drum Brakes

- | | <u>Front</u> | <u>Rear</u> |
|------------------------------|--|---------------------------------------|
| 95. Diameter, inside | mm in 254 mm | 10 in |
| 96. Linings, length | mm in 495 mm | 19.5 in |
| 97. Linings, width | mm in 63.5 mm | 2.5 in |
| 98. Shoes - number per brake | | Two (2) |
| 99. Area, total - per brake | mm ² in ² / 31.454 | mm ² 48.75 in ² |

Disc Brakes

- | | | | |
|------------------------------|--|--|------------|
| 100. Diameter, outside | 303.8 mm 11.96in | 287mm 11.3 in | (optional) |
| 101. Thickness of disc | 31.8 mm 1.25in | 20.3 mm .8 in | |
| 102. Lining - length | 136.1 mm 5.36 in | 123 mm 4.875 in | |
| 103. Lining - width | 48.3 mm 1.90in | 45.97mm 1.81 in | |
| 104. Pads - number per brake | Two (2) | Two (2) | |
| 105. Area, total - per brake | 13,147.2 mm ² / in ² / | 20.36 12,214 mm ² / in ² | 17.65 |

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MAKE FORD MODEL 1968 MUSTANG 289 FIA REC # 1509 G IIENGINE (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 101.73 mm 4.005 in

(**) 134. Stroke 72.9 mm 2.87 in

(**) 135. Cylinders - capacity 591 cm3 36.13 in3

(**) 136. Cylinders, total capacity 4740 cm3 289 in3

(**) 137. Cylinder Block - material/s Cast Iron

(**) 138. Sleeves - material/s (if fitted) D.N.A.

(**) 139. Head, cylinder - material/s Cast Iron number fitted Two (2)

(**) 140. Port, inlet - number Eight (8) - Four (4) per Head

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

(*) 142. Compression - ratio D.N.A.

(*) 143. Combustion chamber - volume cm3 in3 D.N.A.

(*) 144. Piston - material/s D.N.A.

(*) 145. Rings - number D.N.A.

(*) 146. Distance from gudgeon pin centre line to highest point of piston crown D.N.A.
mm 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 Nodular Iron

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

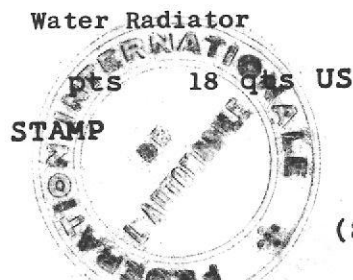
152. Lubricant - capacity 8.04 ltrs pts 8.5 qts US

(*) 153. Cooler, oil - yes no D.N.A.

154. Cooling - method Water Radiator

155. Cooling - capacity of system 17 ltrs pts 18 qts US

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- (*) 156. Fan, cooling (if fitted) - diameter cm in D.N.A.
 (*) 157. Fan, cooling - number of blades material/s D.N.A.

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) kg lbs D.N.A.
 (*) 161. Flywheel with clutch (all rotating parts) kg lbs D.N.A.
 (*) 162. Crankshaft kg lbs D.N.A.
 163. Connecting Rod kg lbs D.N.A.
 (*) 164. Piston with rings & pin kg lbs D.N.A.

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 Aluminum
 181. Valves (overall) - diameter 47.75mm 1.88in
 (*) 182. Valve lift - maximum mm in D.N.A.
 183. Springs, valve - number Two (2)
 184. Spring - type Coil
 (**) 185. Valves, per cylinder - number One (1)
 (*) 186. Tappet - clearance for checking timing (cold) mm in D.N.A.
 (*) 187. Valves - open at (with tolerance for tappet clearance indicated) D.N.A.
 (*) 188. Valves - close at (with tolerance for tappet clearance indicated) D.N.A.
 (*) 189. Air filter - type D.N.A.

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EXHAUST (See Photo Q)

195. Manifold, exhaust - material/s Steel Tube
196. Valves (overall) - diameter 41.4 mm 1.64 in
197. Valve, lift - maximum mm in D.N.A.
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 D.N.A.
- (*) 202. Valves - open at (with tolerance for tappet clearance indicated) D.N.A.
- (*) 203. Valves - close at (with tolerance for tappet clearance indicated) D.N.A.

CARBURETION (See Photo N)

210. Carburetors, fitted - number One (1)
211. Type 4V - Down Draft
- (*) 212. Make D.N.A.
- (*) 213. Model D.N.A.
214. Carburetors - number of mixture passages Four (4)
- (*) 215. Carburetor - flange hole diameter of exit port mm in D.N.A.
216. Venturi - throat diameter+ mm in D.N.A.

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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ENGINE ACCESSORIES

- (*) 230. Pump, fuel - mechanical and/or electrical
231. Number fitted One (1) each type - 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, ^{alternator}~~generator~~ - volts 12.8
239. Battery - number One (1)
240. Location Rear of Car
241. Voltage - volts 12 amp hrs 45

ENGINE & CAR PERFORMANCE as declared by mfr. in catalogue

- (*) 250. Horsepower - maximum engine output at rpm D.N.A.
(indicate SAE or DIN)
- (*) 251. RPM - maximum output at that figure D.N.A.
- (*) 252. Torque - maximum at rpm D.N.A.
- (*) 253. Speed - maximum km/hour miles/hour D.N.A.

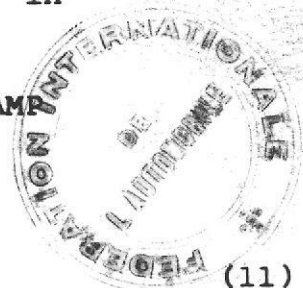
DRIVE TRAIN

Clutch

260. Type Dry Plate
261. Plates - number of driven One (1)
262. Plates - diameter 26.7 cm 10.5 in
263. Linings - diameter - inside 16.5 cm 6.5 in
- Linings - diameter - outside 26.7 cm 10.5 in
264. Method of operation Mechanical

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Gear Box (Photo H)

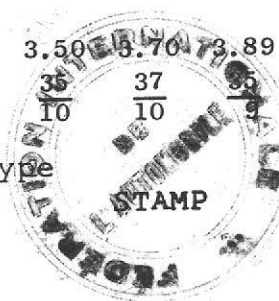
- (**) 270. Manual type - make Ford or Borg Warner
- (**) 271. Ratios, forward - number Four (4)
272. Ratios, forward - number synchronized Four (4)
273. Gear-Shift - location Floor optional
- (**) 274. Automatic - make Ford type Hydraulic with planetary gears and torque converter.
- (**) 275. Ratios, forward - number Three (3)
276. Gear-Shift - location Floor

Borg Warner					Borg Warner				
277.	Manual		Automatic		Alternative manual/automatic				
	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	Ratio	# Teeth	
1	2.36	$\frac{26}{29}$ $\frac{36}{17}$	2.46	Torque converter maxim. ratio at stall 2.021	2.20	$\frac{27}{28}$ $\frac{36}{17}$	2.20	$\frac{27}{28}$ $\frac{36}{17}$	
2	1.62	$\frac{26}{29}$ $\frac{29}{20}$	1.46		1.64	$\frac{27}{28}$ $\frac{30}{19}$	1.42	$\frac{27}{28}$ $\frac{26}{19}$	
3	1.20	$\frac{26}{29}$ $\frac{27}{25}$	1.00		1.31	$\frac{27}{28}$ $\frac{29}{23}$	1.19	$\frac{27}{28}$ $\frac{24}{21}$	
4	1.00	Direct			1.00	Direct	1.00	Direct	
5									
6									
reverse	2.42		2.20						

278. Overdrive - type D.N.A.
279. Forward gears on which overdrive can be selected D.N.A.
280. Overdrive - ratio D.N.A.

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 $\neq$ Positive Locking by Ratchet or Roller
293. Ratio 3.0 3.10 3.25 3.40 3.50 3.70 3.89 4.11 4.33 4.57
- Teeth - number $\frac{39}{13}$ $\frac{31}{10}$ $\frac{39}{12}$ $\frac{34}{10}$ $\frac{35}{10}$ $\frac{37}{10}$ $\frac{35}{9}$ $\frac{37}{9}$ $\frac{39}{9}$ $\frac{32}{7}$
- ($\neq$) Specify friction or positive locking type 4.71 4.86 5.14
- STAMP $\frac{33}{7}$ $\frac{34}{7}$ $\frac{36}{7}$



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

- | | | |
|--------------|---|------------------------|
| S7MR-6650-B | Differential Cooler Kit, includes: | 10.9 Lls
CAP 1.3 QT |
| | 1 - Radiator - oil | |
| | 1 - Duct - air and flange assembly | |
| | 1 - Plenum Box | |
| | 2 - Pump - oil circulating | |
| | 1 - Bracket - pump mount | |
| | Required lines, fittings and attaching hardware | |
| S8MR-7009-A | Transmission Cooler Kit, includes: | 6.2 Lls
CAP .9 QT |
| | 1 - Radiator - oil | |
| | 1 - Duct - air and flange assembly | |
| | 1 - Plenum Box | |
| | 1 - Pump - oil circulating | |
| | Required lines, fittings, and attaching hardware | |
| S1MR-61615-A | Bucket Seat Assembly, Driver and Passenger - 12 pounds each | |
| S7MR-10849-A | High Performance Instrument Cluster, includes: | |
| | 1 - Panel - instrument | |
| | 1 - Tachometer | |
| | 1 - Oil Pressure Gauge | |
| | 1 - Oil temperature gauge | |
| | 1 - Water temperature gauge | |
| | 1 - Fuel pressure Gauge | |
| | 1 - Speedometer | |

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G IIOptional Equipment - CATALOGUE PART NUMBER MUST BE GIVEN

7379020 Deletion Option - deletes all sealers, sound deadeners and exterior trim.

S8MR-1103-A Knock-off Wheel & Hub Kit, includes: **78 Ls**
4 - Hubs
4 - Nuts - quick-off
4 - Wheels
Required attaching hardwareS8MR-19715-A Rear Ventilator - Flow-Thru, includes:
1 Plenum, duct and valve assembly
1 Grille - outlet trim
1 Grille - inlet

S8MR-6393-A Bell Housing Support Bracket

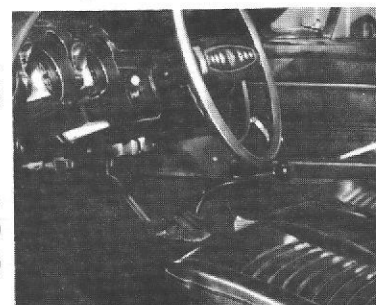
S8MR-2025-A Rear Disc Brake Kit, includes: **65 Ls**
2 - Disc, brake
1 - Caliper Assy. - disc brake, R.H. rear
1 - Caliper Assy. - disc brake, L.H. rear
1 - Bracket - caliper mount - R.H.
1 - Bracket - caliper mount - L.H.
Required lines, fittings and attaching parts37 GAL. GAS TANK WITH
EXTERNAL FILLER ASSY.
36 Ls

S8MR-5790-A Watts Link - Rear Axle

C6ZZ-6B068-A 8V Induction Kit, includes: **42.5 Ls**
1 - 8V Manifold
2 - Carburetors
Required lines, linkage, fittings, attaching partsINTERIOR WITH
MANUAL TRANS.

	Alternate Wheel	Track	
		Front	Rear
S7MR-1007-H/J	15"x8" - 381 mm x 203 mm	60.6	59.0

	Optional Wheels		
C7ZZ-1007-D	15"x6" - 381 mm x 152.4 mm	58.4	58.1
S7MR-1007-M/N	15"x9" - 381 mm x 228.6 mm	61.1	58.0
S8MR-1007-A/B	15"x10" - 381 mm x 254 mm	61.1	58.0



	Manual		Manual		Manual	
	Ratio	Teeth	Ratio	Teeth	Ratio	Teeth
1	2.32	$\frac{23}{25} \frac{32}{15}$	2.32	$\frac{23}{25} \frac{32}{15}$	2.22	$\frac{23}{24} \frac{32}{15}$
2	1.69	$\frac{23}{25} \frac{28}{18}$	1.54	$\frac{23}{25} \frac{27}{19}$	1.43	$\frac{23}{24} \frac{26}{19}$
3	1.29	$\frac{23}{25} \frac{25}{21}$	1.19	$\frac{23}{25} \frac{24}{22}$	1.19	$\frac{23}{24} \frac{24}{21}$
4	1.00	Direct	1.00	Direct	1.00	Direct
R						