CAMS

5TH CATEGORY - HISTORIC RACING

GROUP Nc

APPROVED VEHICLE SPECIFICATION

This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current CAMS Manual of Motor Sport.

Make of Car:	**Ford**	**Model:**	**Capri V6 3 Litre**
Period of Original Manufacture:	**1969 - 1973**		
CAMS Historic Group:	**Nc**		
Date of Issue of this Document:	**October 2000**		

SECTION 1 - CHASSIS

1.1 CHASSIS FRAME

Description:	Unitary Construction	**Period of Manufacture:**	
Manufacturer:	Ford Motor Company	1969 - 1973	
Chassis no. from:			
Chassis no. location:	RHS Strut Re-inforcing Panel & Radiator Support Panel		
Material:	Steel		
Comments:	None		

1.2 FRONT SUSPENSION

Description:	Independent - McPherson Strut		
Spring medium:	Coil		
Damper Type:	Telescopic	**Adjustable:**	No
Anti-sway bar:	Fitted	**Adjustable:**	No
Suspension adjustable:	No	**Method:**	N/A

Comments: Spring Rates and Ride Height Free. Shock Absorbers free subject to their being of appropriate period type and to the use of original mounts.

1.3 REAR SUSPENSION

Description:	Live Axle		
Spring medium:	Semi Elliptic Leaf		
Damper type:	Telescopic	**Adjustable:**	No
Anti-sway bar:	Not Fitted	**Adjustable:**	N/A
Suspension adjustable:	No	**Method:**	N/A

Comments: Rear Suspension Stabilizer Fitted as Production Evolution. May be fitted all cars. Spring Rates & Height Free. Shock Absorbers free subject to their being of appropriate period type and to the use of original mounts. Axle Location may be improved. The original axle and suspension must not be overridden.

1.4 STEERING

Type: Rack and Pinion **Make:** Ford

Comments: None

1.5 BRAKES

	Front	**Rear**
Type:	Disc	Drum
Dimensions:	244 x 12.7 mm	229 x 45 mm
Material of drum/disc	Cast iron	Cast iron
No. cylinders/pots per wheel:	2	2
Actuation:	Hydraulic	Hydraulic
Caliper: Make, Material, Type:	Girling	
Master cylinder make:	Girling	**Type:** Single
Adjustable bias	No	
Servo Fitted	Yes	

Comments: Tandem/Twin Master Cylinder permitted. Any Braking System may be fitted, provided the swept area is not increased and all components are of period origin.

SECTION 2 - ENGINE

2.1 ENGINE

Make:	Ford		
Model:			
No. cylinders:	6	**Configuration:**	Vee
Cylinder Block-material:	Cast Iron	**Four Stroke**	
Bore - Original:	93.67 mm	**Max. allowed:**	95.17 m
Stroke - original:	72.42 mm	**Max. allowed:**	72.42 m
Capacity - original:	2994 cc	**Max. allowed:**	3072 cc
Cooling method:	Water		
Identifying marks:			

Comments: None

2.2 CYLINDER HEAD

Make:	Ford				
No. of valves/cylinder-		**Inlet:**	1	**Exhaust:**	1
No. of ports total:	12	**Inlet:**	6	**Exhaust:**	6
No. of camshafts:	1	**Location:**	Block	**Drive:**	Chain
Valve actuation:	Pushrod				
Spark plugs/cylinder:	1				
Identifying marks:					

Comments: None

2.3 LUBRICATION

Method: Wet sump **Oil tank location:** N/A

Dry sump pump type: N/A **Location:** N/A

Oil cooler standard: No **Location:** N/A

Comments: Oil Cooler Permitted.

2.4 IGNITION

Type: Coil and Distributor

Make: Lucas

Comments: Coil/Distributor may be replaced with items of different manufacture.

2.5 FUEL FEED

Carburettor: Make:	Weber	**Model:**	40DFAV	**Nc:** 1	**Size:** 40m
Fuel injection Make:	N/A		**Type:** N/A		
Supercharged:	N/A		**Type:** N/A		
Make:					

Comments: Carburettor may be replaced by other/s of period type.

SECTION 3 - TRANSMISSION

3.1 CLUTCH

Make: Various **Type:** Diaphragm **Diameter:** 241 mm
No. of Plates: 1
Actuation: Hydraulic
Comments Clutch Free

3.2 TRANSMISSION

Type: 4 Speed Synchromesh
Make: Ford **Model:**
No. forward speeds: 4 **Gearbox location:** Behind Engine
Gear change type and location: Floor- Remote
Case material: Identifying marks:
Comments: Ratios Free. Both Model Gearboxes Permitted

3.3 FINAL DRIVE

Make: Ford **Model:**
Wheel drive method: Rear
Ratios: 3.22:1, 4.1:1 (Standard)
Differential: Free **Type:** Hypoid Bevel
Comments: Ratios Free LSD Permitted

3.4 TRANSMISSION SHAFTS (EXPOSED)

Number: 1 **Location:** Gearbox to Final Drive
Description: Tubular Tailshaft with Universal Joints
Comments: None

3.5 WHEELS & TYRES

Wheel type: **Original:** Pressed Steel Disc **Material:** **Original:** Steel
Allowed: Steel or Period Alloy **Allowed:** Alloy
Fixture method: 4 Studs **No. studs:** 4

	FRONT	REAR
Wheel dia. & rim width		
Original:	5 x 13	5 x 13
Allowed	7 x 13	7 x 13
Tyre section:		
Original:	175 x 13	175 x 13
Allowed:	205/60 x 13	205/60 x 13
Aspect ratio - minimum:	60%	60%

Comments: None

SECTION 4 - GENERAL

4.1 FUEL SYSTEM

Tank Location: Rear **Capacity:** 61 Litres
Fuel pump, type and location: Mechanical **Make:**
Comments: Electric pump/s permitted.

4.2 ELECTRICAL SYSTEM

Voltage: 12 Alternator fitted.
Battery Location: Engine Compartment
Comments: None

4.3 BODYWORK

Type: Four Seat Coupe **Material:** Steel
No. of seats: 4 **No. of doors:** 2
Comments: Body shell may be seam welded.

4.4 DIMENSIONS

Track - Front: 1372 mm **Rear:** 1346 mm
Wheelbase: 2560 mm **Overall length:** 4262 mm
Dry weight: 1002 kg
Comments: None

4.5 SAFETY EQUIPMENT

Fire extinguisher required
Seat belt required
Rollbar required
Electrical cut off switch required
Safety fuel tank optional

F.I.A. Recognition No. 5336

Group I

ROYAL AUTOMOBILE CLUB

31 Belgrave Square, London, SW1X 8QH

Form of recognition in accordance with Appendix 'J' to the International Sporting Code of the

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Cylinder-capacity 2994 cm.³ 182.7 in.³

Manufacturer FORD MOTOR COMPANY LIMITED

Model CAPRI 3 LITRE

Serial No. of chassis/body BEXCIL 20391

Manufacturer FORD

Serial No. of engine -

Manufacturer FORD

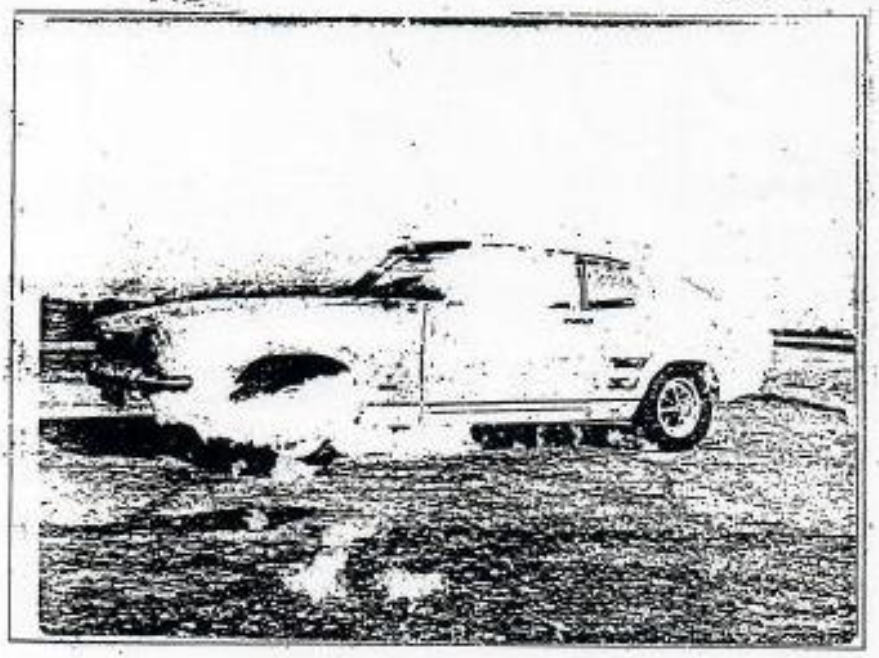
Recognition is valid from 1st APRIL 1970

List 70/4

The manufacturing of the model described in this recognition form started on 18 December 1969

and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on 16 February 1970

Photograph A. [view of car from front



F.I.A. Stamp

R.A.C. Stamp

B

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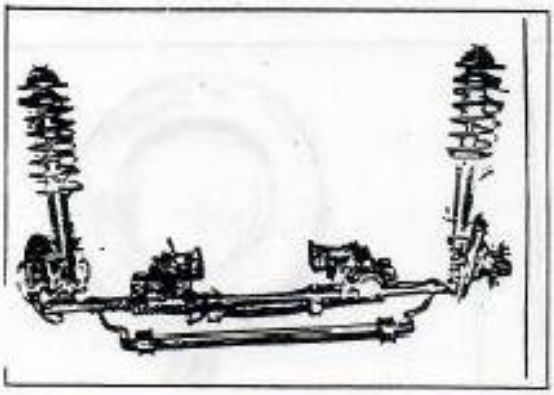

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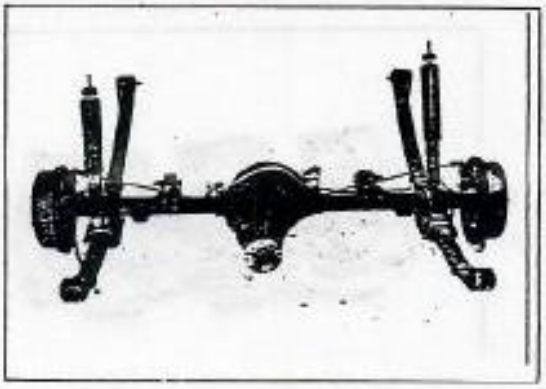

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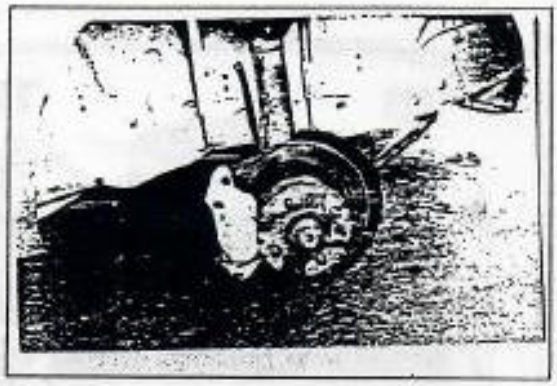

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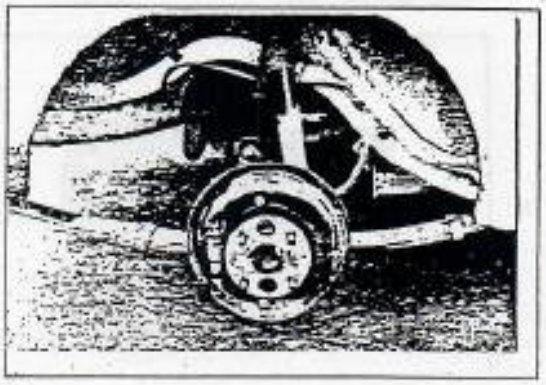

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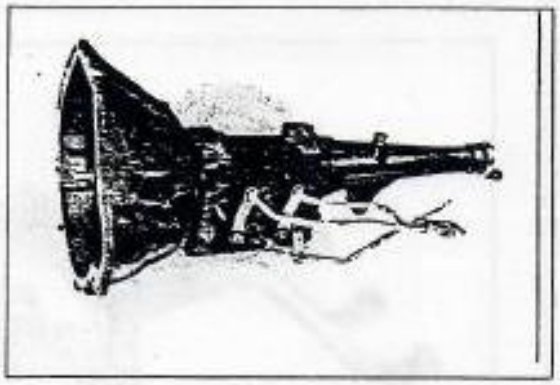

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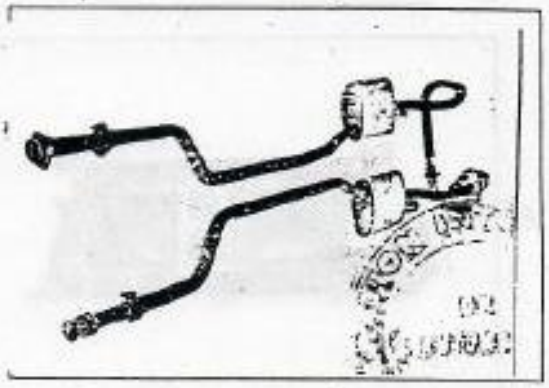

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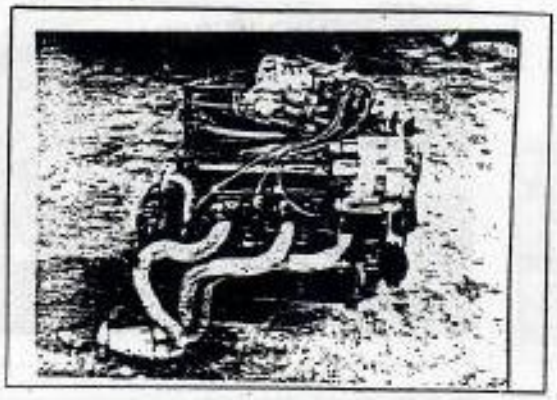

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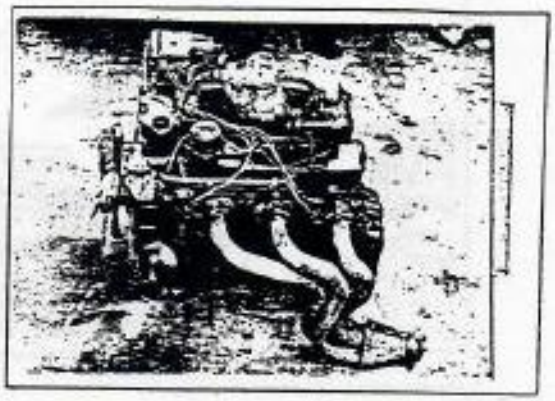

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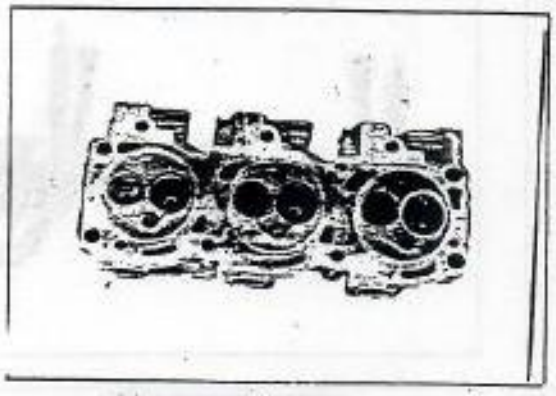

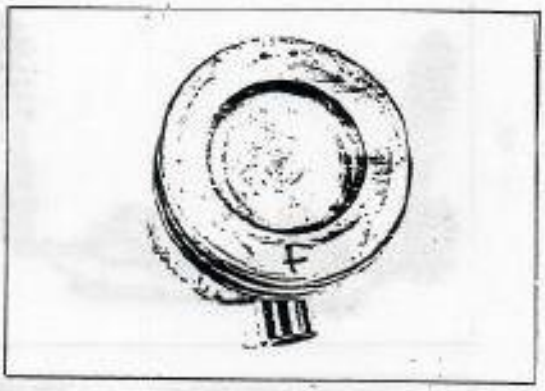

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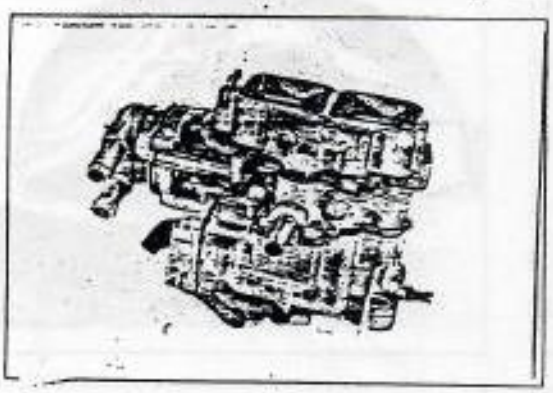

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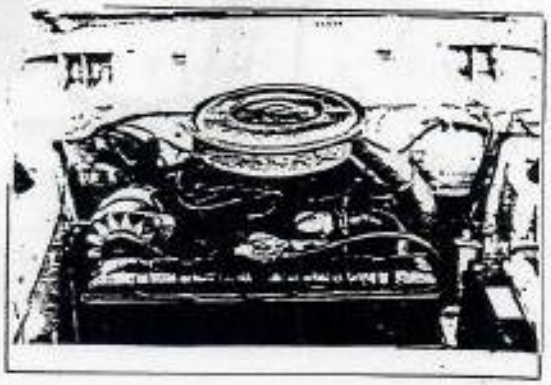

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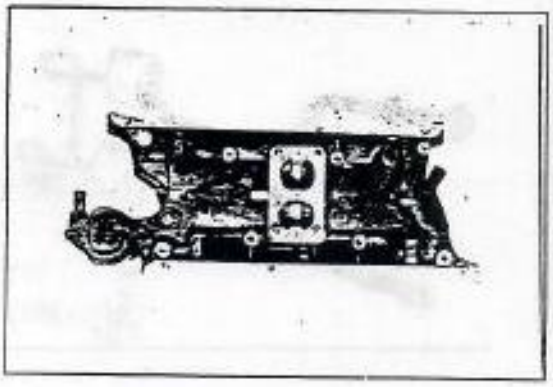

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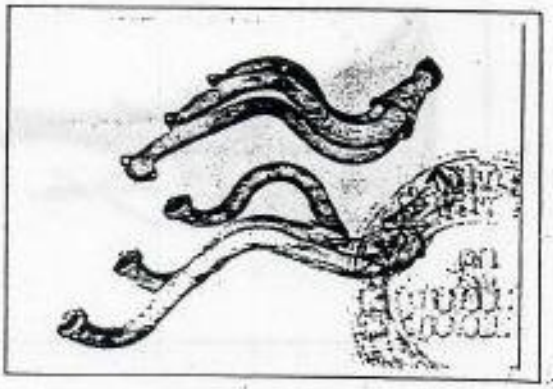
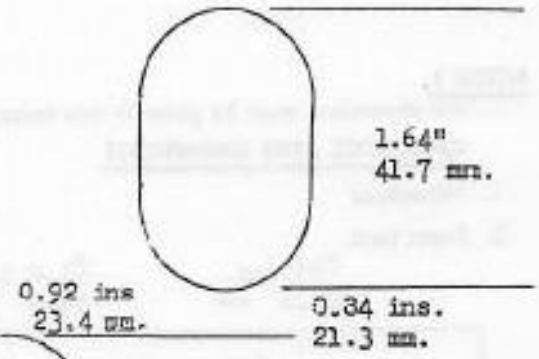
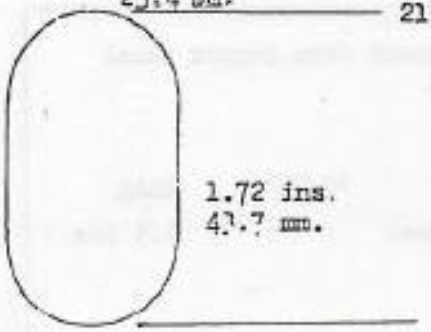


Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.

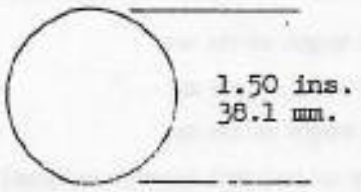
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



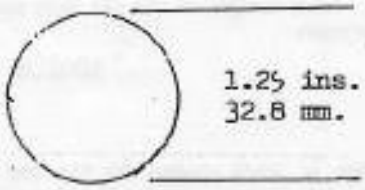
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Drawing of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



All dimensions ± .040 ins
1.016 mm.

Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.....

NOTE 1.

All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

1. Wheelbase ±50.0mm. 2560.3 mm. 100.8 inches

2. Front track ±25.4mm. 1371.6 mm. ±1.0 ins. 54.0 inches

3. Rear track ±25.4 mm. 1346.2 mm. ±1.0 ins. 53.0 inches

Measurement from rocker panel to road

FRONT	See Note 2	REAR
7.5 ins.		7.5 ins.

4. Overall length of the car 426.2 cm. 167.8 inches

5. Overall width of the car 169.9 cm. 66.8 inches

6. Overall height of the car 149.8 cm. 50.9 inches

7. Capacity of fuel tank (reserve included) 61.37 ltrs. 16.21 gall. U.S. 13.5 gall. Imp.

8. Seating Capacity. 4

9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools : 1001.8 kg. 2208.6 lbs. 19.72 cwts.

NOTE 2.

Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned. Specify ground clearance in relation to the track and give drawing of two easily recognisable points at front and rear at which measurements are taken. These ground clearance dimensions are only for information when checking the track and can in no way affect the eligibility of the car.

NOTE 3.

CONVERSION TABLE

1 inch/pouce	— 2.54	cm.	1 quart US	— 0.9464	ltrs.
1 foot/pied	— 30.4794	cm.	1 pint (pt)	— 0.568	ltrs.
1 sq. inch/pouce carre	— 6.452	$cm.^2$	1 gallon Imp.	— 4.546	ltrs.
1 cubic inch/pouce cube	— 16.387	$cm.^3$	1 gallon US	— 3.785	ltrs.
1 pound/livre (lb)	— 453.593	gr.	1 hundred weight (cwt.)	— 50.802	kg.

Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction: ~~separate~~/unitary construction
21. Unitary construction, material(s) Steel
22. Separate construction, Material(s) of chassis Steel
23. Material(s) of coachwork Steel
24. Number of doors 2 Material(s) Steel
25. Material(s) of bonnet Steel
26. Material(s) of boot lid Steel
27. Material(s) of rear-window Toughened glass
28. Material(s) of windscreen Toughened or Laminated glass
29. Material(s) of front-door windows Toughened glass
30. Material(s) of rear-door windows N/A
31. Sliding system of door windows Rotating handle
32. Material(s) of rear-quarter light Toughened glass

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes — no Optional
39. Air conditioning : ~~yes~~ — no
40. Ventilation : yes — ~~no~~
41. Front seats, type of seat and upholstery Bucket PVC or cloth
42. Weight of front seat(s), complete with supports and rails, out of the car: 12.2 kg. 27 lbs.
43. Rear seats, type of seat and upholstery Bench PVC or cloth
44. Front bumper, material(s) Steel Weight 2.5 kg. 5.5 lbs.
45. Rear bumper, material(s) Steel Weight 2.5 kg. 5.5 lbs.

WHEELS

50. Type Pressed steel disc
51. Weight (per wheel, without tyre) 5.8 kg. 12 lbs.
52. Method of attachment 4 Taper nut fixing
53. Rim diameter 330.2 mm. 13 ins. 54. Rim width 127.0 mm. 5 ins.

STEERING

60. Type Rack and Pinion
61. Servo-assistance : yes — no N/A
62. Number of turns of steering wheel from lock to lock 3.2 approx,
63. In case of servo-assistance N/A

Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.....

SUSPENSION

70. Front suspension (photograph D), type: Independent McPherson Strut
71. Type of spring: Coil
72. Stabiliser (if fitted): Integral with Lower Arms
73. Number of shock absorbers: 2 — 74. Type: Integral Suspension Leg, Telescopic Double Acting
78. Rear suspension (photograph E), type: Live Axle
79. Type of spring: Multi-Leaf Semi-Elliptic
80. Stabiliser (if fitted): Trailing Links
81. Number of shock absorbers: 2 — 82. Type: Telescopic Double Acting

BRAKES (photographs F and G)

90. Method of operation: Hydraulic
91. Servo-assistance (if fitted), type: Hydraulic Vacuum
92. Number of hydraulic master cylinders: One

		2 FRONT			1 REAR		
93.	Number of cylinders per wheel						
94.	Bore of wheel cylinder(s)	54.0	mm.	2.126 inches	19.05	mm.	0.75 inches
	Drum Brakes						
95.	Inside diameter		mm.	inches	228.6	mm.	9.00 inches
96.	Length of brake linings		mm.	inches	218.9	mm.	8.62 inches
97.	Width of brake linings		mm.	inches	44.45	mm.	1.75 inches
98.	Number of shoes per brake				2		
99.	Total area per brake		mm.²	sq. in.	1946.4	mm.²	30.17 sq. in.
	Disc Brakes						
100.	Outside diameter	244.0	mm.	9.6 inches		mm.	inches
101.	Thickness of disc	12.7	mm.	.5 inches		mm.	inches
102.	Length of brake linings	76.2	mm.	3.0 inches		mm.	inches
103.	Width of brake linings	53.34	mm.	2.1 inches		mm.	inches
104.	Number of pads per brake	2					
105.	Total area per brake	667.0	mm.²	10.34 sq. in.		mm.²	sq. in.

Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.

ENGINE (photographs J and K)

130. Cycle Four Stroke
131. Number of cylinders 6
132. Cylinder Arrangement V formation, banks of 3
133. Bore 93.67 mm. 3.687 in.
134. Stroke 72.42 mm. 2.851 in.
135. Capacity per cylinder 499 cm.³ 30.45 cu. in.
136. Total cylinder capacity 2994 cm.³ 182.7 cu. in.
137. Material(s) of cylinder block Cast iron
138. Material(s) of sleeves (if fitted) None
139. Cylinder head, material(s) Cast iron
Number fitted 2
140. Number of inlet ports 6
141. Number of exhaust ports 6
142. Compression ratio 8.9 : 1 ± .3
143. Volume of one combustion chamber ± .3 58.48 cm.³ ± .2 3.568 cu. in.
144. Piston, material Aluminium alloy
145. Number of rings 3
146. Distance from gudgeon pin centre line to highest point of piston crown 46.1 mm. 1.8 in.
147. Crankshaft : moulded/~~forged~~
148. Type of crankshaft: integral/Cast with balence weights
149. Number of crankshaft main bearings 4
150. Material of bearing cap Cast iron
151. System of lubrication : ~~dry sump~~/oil in sump
152. Capacity, lubricant 5.6 ltrs. 9.8 pts. 5.9 quarts U.S.
153. Oil cooler : ~~yes~~/no
154. Method of engine cooling Water and fan
155. Capacity of cooling system 11.2 ltrs. 19.7 pts. 11.6 quarts U.S. including heater if fitted
156. Cooling fan (if fitted) dia. 30.48 cm. 12 in.
157 Number of blades of cooling fan 6

Bearings

158. Crankshaft main, type): Copper lead or aluminium tin dia. 63.52 m.m. 2.5016 in.
159. Connecting rod big end, type): dia. 60.36 m.m. 2.3765 in.

Weights

160. Flywheel (clean) 9.5 kg. 21 lbs.
161. Flywheel with clutch (all turning parts) 17.25 kg. 38 lbs.
162. Crankshaft 18 kg. 40 lbs.
163. Connecting rod .74 kg. 1.72 lbs.
164. Piston with rings and pin .75 kg. 1.73 lbs.

Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.

ENGINE ACCESSORIES

230. Fuel pump : mechanical ~~or~~ / or electrical

231. No. fitted 1

232. Type of ignition system Coil

233. No. of distributors 1

234. No. of ignition coils 1

235. No. of spark plugs per cylinder 1

236. Generator, type : dynamo/alternator—number fitted Optional one

237. Method of drive V belt

238. Voltage of generator 12 volts

239. Battery, number 1

240. Location Under bonnet

241. Voltage of battery 12 volts

ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

250. Max. engine output 144 (type of horsepower: BHP) at 4756 r.p.m.

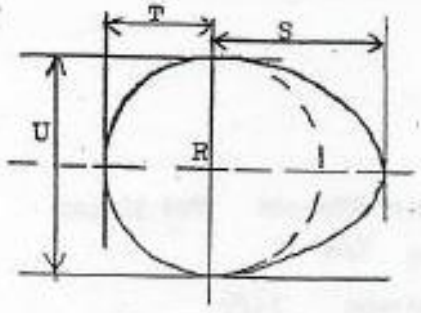
251. Max. r.p.m. 6000 output at that figure

252. Max. torque 192.5lbs.ft.at 3000 r.p.m.

253. Max. speed of the car km./hour miles/hour
Not declared by Manufacturer in Catalogue.

R = centre of camshaft

a55



Inlet cam

S =	20.274	mm.	.798	inches
T =	13.8	mm.	.543	inches
U =	27.609	mm.	1.087	inches

Exhaust cam

S =	20.426	mm.	.804	inches
T =	13.8	mm.	.543	inches
U =	27.609	mm.	1.087	inches

Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.

DRIVE TRAIN

CLUTCH

260. Type of clutch Diaphragm

261. No. of plates One

262. Dia. of clutch plates 24.13 cm. 9.5 ins.

263. Dia. of linings, inside 15.5 cm. 6.1 ins.

outside 24.13 cm. 9.5 ins.

264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

270. Manual type, make Ford Method of operation Remote control

271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 4

273. Location of gear-shift Central remote control

274. Automatic, make N/A type

275. No. of forward ratios 276. Location of gear shift

277.	Manual Ratio	Manual No. teeth	Automatic Ratio	Automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth
1	3.163	21 x 22 / 31 23						
2	2.214	21 x 27 / 31 18						
3	1.412	21 x 30 / 31 14						
4	1 : 1	Direct						
5								
6								
reverse	3.346	34x15x17	idler					

278. Overdrive, type N/A

279. Forward gears on which overdrive can be selected N/A

280. Overdrive ratio N/A

FINAL DRIVE

290. Type of final drive Semi-floating Hypoid 291. Type of differential Two pinion

292. Type of limited slip differential (if fitted in series-production) N/A

293. Final drive ratio 3.22 : 1 Number of teeth 29/9
4.1 37/9

Make FORD Model CAPRI 3 LITRE F.I.A. Rec. No.

FOUR STROKE ENGINES

170. Number of camshafts One
171. Location Between cylinder banks
172. Type of camshaft drive Gear
173. Type of valve operation O.H.V. and tappets

INLET (see page 4)*

180. Material(s) of inlet manifold Aluminium
181. Diameter of valves 41.07 mm. 1.617 ins.
182. Max. valve lift 8.97 mm. .344 in.
183. Number of valve springs 1 or 2
184. Type of spring Helical coil
185. Number of valves per cylinder 1
186. Tappet clearance for checking timing (cold/warm) .254 mm. .010 ins.
187. Valves open at (with tolerance for tappet clearance indicated) 20° B.T.D.C.
188. Valves close at (with tolerance for tappet clearance indicated) 64° A.B.D.C.
189. Air filter, type Paper element

EXHAUST (see page 4)*

195. Material(s) of exhaust manifold Steel tube
196. Diameter of valves 36.9 mm. 1.453 ins.
197. Max. valve lift 8.54 mm. .335 in.
198. Number of valve springs 1 or 2
199. Type of spring Helical coil
200. Number of valves per cylinder 1
201. Tappet clearance for checking timing (cold/warm) 1425 mm. 15 ins.
202. Valves open at (with tolerance for tappet clearance indicated) 70° BB.D.C.
203. Valves close at (with tolerance for tappet clearance indicated) 14° A.T.D.C.
204. Diameter outlet orifice exhaust manifold 38.1 mm. 1.5 ins.

CARBURETION (photograph N)

210. Number of carburettors fitted One
211. Type Downdraught
212. Make Weber
213. Model 40 DFAV.
214. Number of mixture passages per carburettor 2
215. Flange hole diameter of exit port(s) of carburettor 33.6 mm. 1.33 ins.
216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU) 28 mm. 1.16 ins.

INJECTION (if fitted)

220. Make of pump
221. Number of plungers
222. Model or type of pump
223. Total number of injectors
224. Location of injectors
225. Minimum diameter of inlet pipe mm. ins.

* For additional information concerning two-stroke engines and super-charged engines, see page 13.