

F.I.A. Recognition No. 5112

Group 1



ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.1

Form of recognition in accordance with appendix J to the International Sporting Code of the
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Manufacturer	FORD	Cylinder-capacity	2994	cm. ³	182.7	in. ³
Serial No. of chassis/body	BA58FT37536	Model	ZODIAC Mk IV			
Serial No. of engine	2724E 6D14B	Manufacturer	FORD			
Recognition is valid from		Manufacturer	FORD			
		List				

The manufacturing of the model described in this recognition form started on March 10th 19.66 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on May 23rd 19.66.

Photograph A, ¾ view of car from front



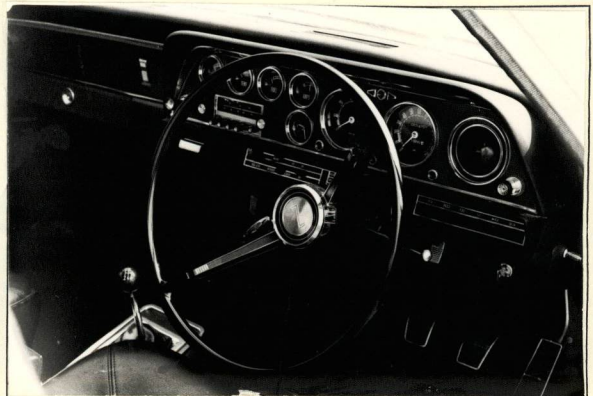
F.I.A. Stamp



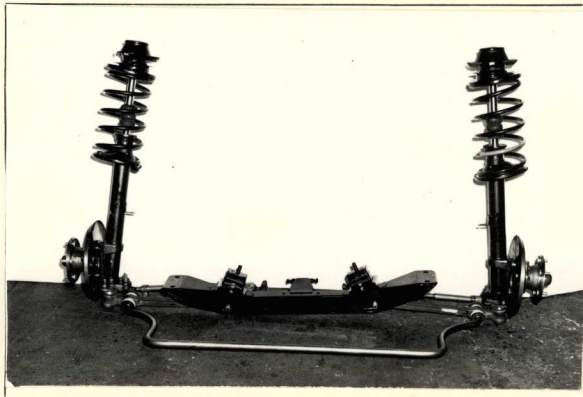
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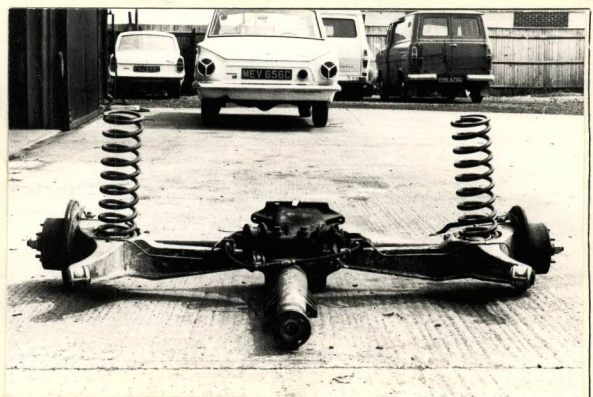
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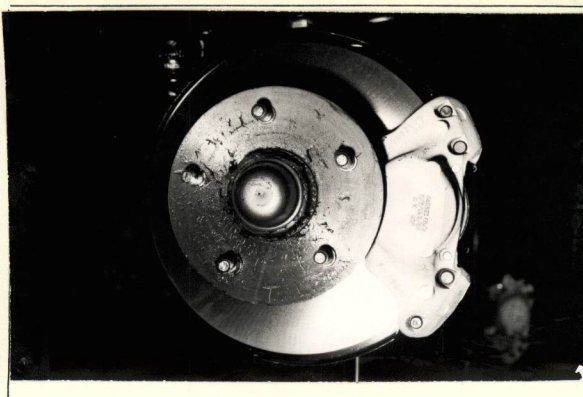
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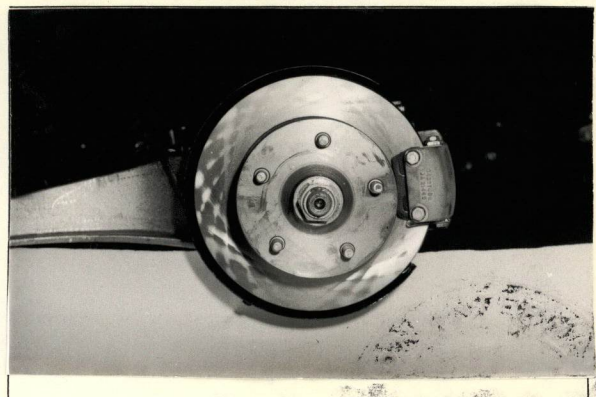
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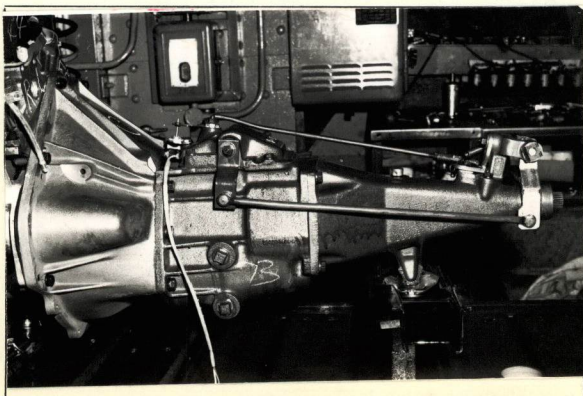
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G



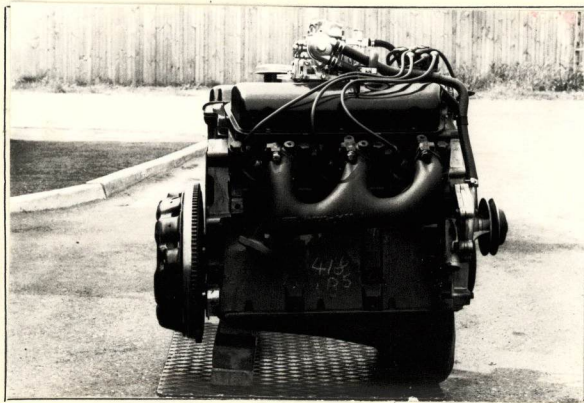
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I



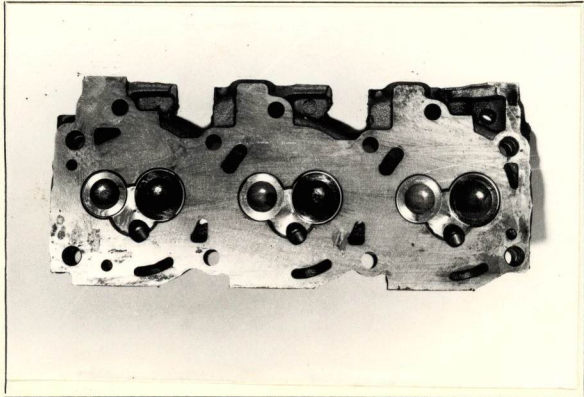
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K



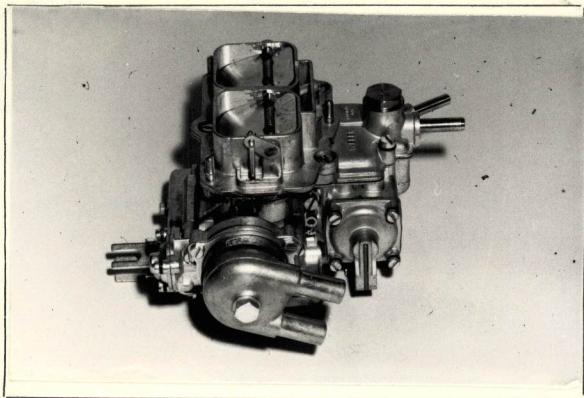
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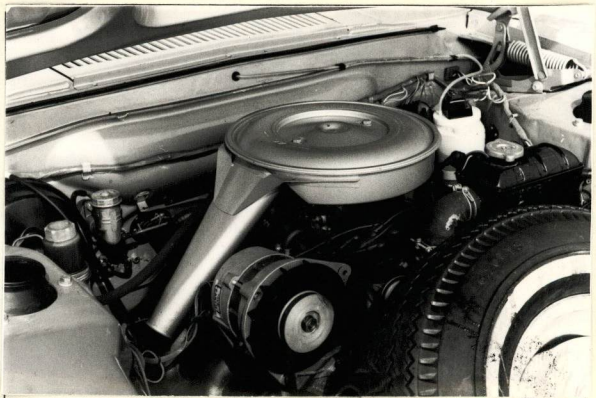
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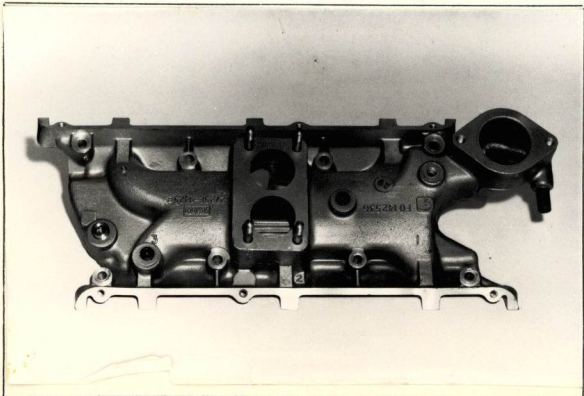
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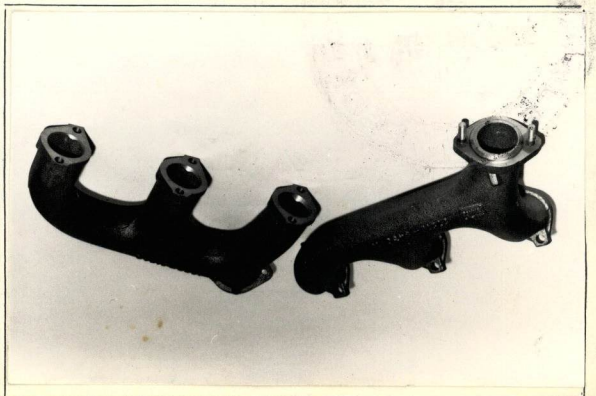
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P



Q

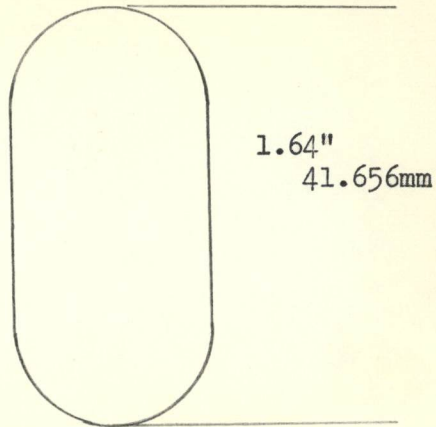


Make..... FORD.....

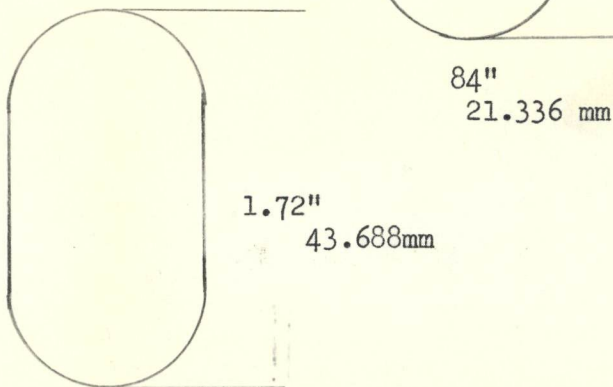
Model..... ZODIAC IV.....

F.I.A. Rec. No..... 5112.....

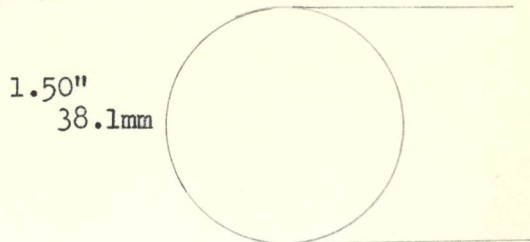
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



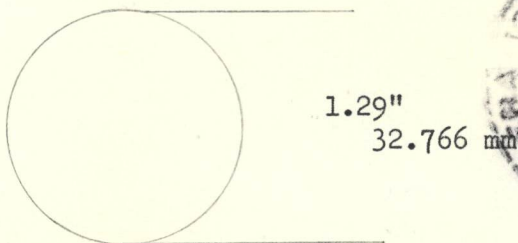
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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 \pm .040"
1.016mm



NOTE 1.

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

CAPACITIES AND DIMENSIONS

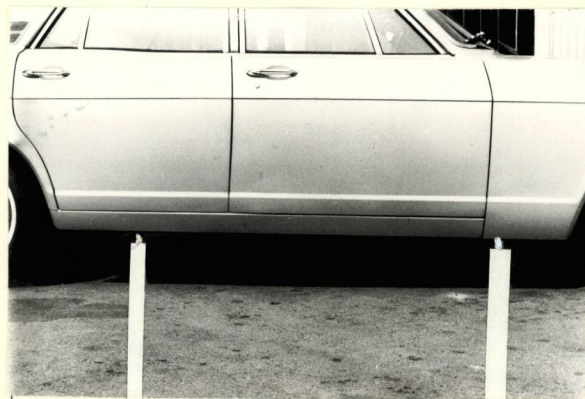
					± 1.5 ins or 38.1 mm
1. Wheelbase				2934 mm.	115.5 inches
2. Front track					
	± 1.2 ins or 30.58 mm.			3. Rear track	± 1.2 ins or 30.58 mm
1479,4 mm.	58.25 inches			1454.4 mm.	57.25 inches

Measurement from jacking points to road.

Front Ins. 8.125
 Cms. 206.375

 See Note 2

Rear Ins. 8.75
 Cms 222.25



4. Overall length of the car		469.1 cm.		184.75 inches
5. Overall width of the car		181.6 cm.		71.5 inches
6. Overall height of the car		148.6 cm.		58.5 inches
7. Capacity of fuel tank (reserve included)				
	68.2 ltrs.		18 gall. U.S.	15 gall. Imp.
8. Seating Capacity.	4/5			
9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools :				
	1163 kg.		2623 lbs.	23.42 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.

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 and ALUMINIUM**
- 24. Number of doors **4** 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 **Laminated Glass**
- 29. Material(s) of front-door windows **Toughened Glass**
- 30. Material(s) of rear-door windows **Toughened Glass**
- 31. Sliding system of door windows **Rotating Handles**
- 32. Material(s) of rear-quarter light **Toughened Glass**

ACCESSORIES AND UPHOLSTERY

- 38. Interior heating : yes — ~~no~~
- 39. Air conditioning : yes — ~~no~~
- 40. Ventilation : yes — ~~no~~
- 41. Front seats, type of seat and upholstery **Reclining PVC**
- 42. Weight of front seat(s), complete with supports and rails, out of the car :

(2 seats)	34.5	kg.	76	lbs.
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- 43. Rear seats, type of seat and upholstery
- 44. Front bumper, material(s) **Steel** Weight **5.67** kg. **12.5** lbs.
- 45. Rear bumper, material(s) **Steel** Weight **5.434** kg. **12.0** lbs.

WHEELS

- 50. Type **Pressed steel disc 'J' Rim section**
- 51. Weight (per wheel, without tyre) **6.805** kg. **15.0** lbs.
- 52. Method of attachment **5 Taper Nut fixing**
- 53. Rim diameter **330** mm. **13** ins. 54. Rim width **114.3** mm. **4.5** ins.



STEERING

- 60. Type **Recirculating ball**
- 61. Servo-assistance : ~~yes~~ — no
- 62. Number of turns of steering wheel from lock to lock **4**
- 63. In case of servo-assistance **N/A**

SUSPENSION

- 70. Front suspension (photograph D), type **Independent McPherson with combined torque reactor and stabiliser bar**
- 71. Type of spring **Coil**
- 72. Stabiliser (if fitted) **Intergrated with lower arms**
- 73. Number of shock absorbers **2**
- 74. Type **Intergrated with suspension leg, hydraulic telescopic double acting.**
- 78. Rear suspension (photograph E), type **Independent by semi-trailing arms and shackles.**
- 79. Type of spring **Coil**
- 80. Stabiliser (if fitted) **None**
- 81. Number of shock absorbers **2**
- 82. Type **Hydraulic, 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 **1**

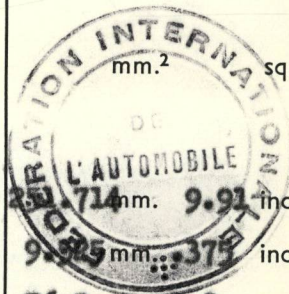
	2 FRONT		1 REAR	
93. Number of cylinders per wheel				
94. Bore of wheel cylinder(s)	53.975 mm.	2.125 inches	19.05 mm.	.75 inches

Drum Brakes

95. Inside diameter	mm.	inches	mm.	inches
96. Length of brake linings	mm.	inches	mm.	inches
97. Width of brake linings	mm.	inches	mm.	inches
98. Number of shoes per brake				
99. Total area per brake	mm. ²	sq. in.	mm. ²	sq. in.

Disc Brakes

100. Outside diameter	244.0 mm.	9.63 inches	251.714 mm.	9.91 inches
101. Thickness of disc	12.7 mm.	0.5 inches	9.825 mm.	.375 inches
102. Length of brake linings	76.2 mm.	3.0 inches	76.2 mm.	3.0 inches
103. Width of brake linings	53.34 mm.	2.1 inches	34.37 mm.	1.353 inches
104. Number of pads per brake		2		2
105. Total area per brake *	6670 mm. ²	10.34 sq. in.	4516 mm. ²	7.02 sq. in.



* NOMINAL

Make **FORD**

Model **ZODIAC IV**

F.I.A. Rec. No. **5112**

ENGINE (photographs J and K)

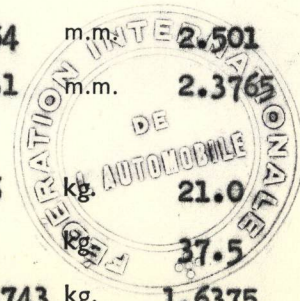
- 130. Cycle **4 Stroke**
- 131. Number of cylinders **6**
- 132. Cylinder Arrangement **Banks of 3 in V formation**
- 133. Bore **93.67012** mm. **3.6878** in.
- 134. Stroke **72.4154** mm. **2.851** in.
- 135. Capacity per cylinder **499** cm.³ **30.45** cu. in. $\pm 1\%$
- 136. Total cylinder capacity **2994** cm.³ **182.7** cu. in. $\pm 1\%$
- 137. Material(s) of cylinder block **Cast Iron**
- 138. Material(s) of sleeves (if fitted)
- 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** $\pm .3$
- 143. Volume of one combustion chamber **58.48** ± 4.7 cm.³ **3.568** cu. in. $\pm .286$
- 144. Piston, material **Aluminium alloy**
- 145. Number of rings **3**
- 146. Distance from gudgeon pin centre line to highest point of piston crown **46.0375** mm. **1.8125** in.
- 147. Crankshaft : moulded/~~stamped~~
- 148. Type of crankshaft: integral/.....**Cast with balance 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 **4.54** ltrs. **8** pts. **4.8** quarts U.S.
- 153. Oil cooler : **yes**/no
- 154. Method of engine cooling **Fan and water**
- 155. Capacity of cooling system **11** ltrs. **19.6** pts. **11.55** quarts U.S.
- 156. Cooling fan (if fitted) dia. **35.8** cm. **14.12** in.
- 157. Number of blades of cooling fan **4**

Bearings

- 158. Crankshaft main, type **Copper lead or** dia. **63.5254** m.m. **2.501** in.
- 159. Connecting rod big end, type **aluminium tin.** dia. **60.3631** m.m. **2.3765** in.

Weights

- 160. Flywheel (clean) **9.526** kg. **21.0** lbs.
- 161. Flywheel with clutch (all turning parts) **17.01** kg. **37.5** lbs.
- 162. Crankshaft **18.144** kg. **40** lbs.
- 163. Connecting rod **.743** kg. **1.6375** lbs.
- 164. Piston with rings and pin **.727** kg. **1.6029** lbs.



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. & Tappets

INLET (see page 4)*

180. Material(s) of inlet manifold Aluminium
 181. Diameter of valves $\pm .025$ ins. 41.0718 mm. 1.617 ins.
 182. Max. valve lift 8.5598 mm. .337 in. 183. Number of valve springs 1
 184. Type of spring Coil 185. Number of valves per cylinder 1
 186. Tappet clearance for checking timing (cold) .30480 mm. .012 ins.
 187. Valves open at (with tolerance for tappet clearance indicated) 38° B.T.D.C. $\pm 6^\circ$
 188. Valves close at (with tolerance for tappet clearance indicated) 74° A.B.D.C. $\pm 6^\circ$
 189. Air filter, type Paper element

EXHAUST (see page 4)*

195. Material(s) of exhaust manifold Cast Iron
 196. Diameter of valves $\pm .025$ ins 36.9062 mm. 1.453 ins.
 197. Max. valve lift 8.5598 mm. .337 in. 198. Number of valve springs 1
 199. Type of spring Coil 200. Number of valves per cylinder 1
 201. Tappet clearance for checking timing (cold) .508 mm. .020 ins.
 202. Valves open at (with tolerance for tappet clearance indicated) 80° B.B.D.C. $\pm 6^\circ$
 203. Valves close at (with tolerance for tappet clearance indicated) 32° A.T.D.C. $\pm 6^\circ$

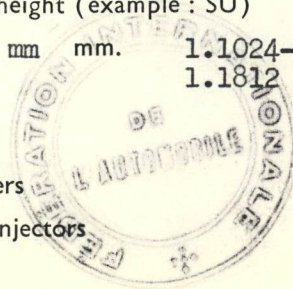
CARBURETION (photograph N)

210. Number of carburettors fitted 1 211. Type Twin choke down draft
 212. Make Weber 213. Model 40 DFA-1
 214. Number of mixture passages per carburettor 2
 215. Flange hole diameter of exit port(s) of carburettor 33.655 mm. 1.325 ins.
 216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU)
28-30 mm mm. 1.1024- ins.
1.1812 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.

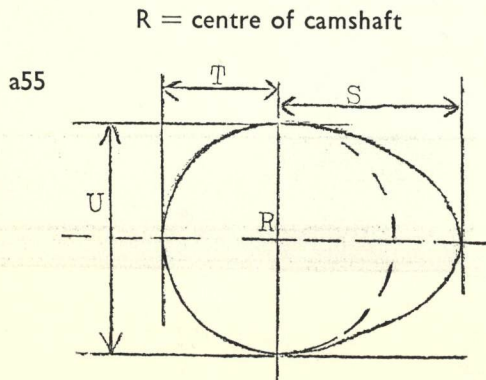


ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~and/or electrical~~
- 231. No. fitted **1**
- 232. Type of ignition system **Coil & Battery**
- 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 **1**
- 237. Method of drive **Belt via crankshaft pulley**
- 238. Voltage of generator **12** volts
- 239. Battery, number **1**
- 240. Location **Under bonnet or trunk**
- 241. Voltage of battery **12** volts

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

- 250. Max. engine output **144.0** (type of horsepower: **b.h.p.**) at **4,750** r.p.m.
- 251. Max. r.p.m. **6,000** output at that figure **Not known**
- 252. Max. torque **192.5 lbs ft.** at **3,000** r.p.m.
- 253. Max. speed of the car km./hour miles/hour
Not declared by manufacturer in catalogue.

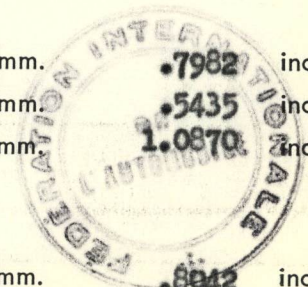


Inlet cam

S =	20.27428mm.	.7982	inches
T =	13.80744mm.	.5435	inches
U =	27.6098 mm.	1.0870	inches

Exhaust cam

S =	20.42668mm.	.8042	inches
T =	13.80744mm.	.5435	inches
U =	27.6098 mm.	1.0870	inches



DRIVE TRAIN

CLUTCH

260. Type of clutch **Single dry plate.** 261. No. of plates **1**
262. Dia. of clutch plates **23.368** cm. **9.2** ins.
263. Dia. of linings, inside **15.748** cm. **6.2** ins.
 outside **23.368** cm. **9.2** 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 **Ford** type **C4 dual range, three speed.**
275. No. of forward ratios **3** 276. Location of gear shift **Steering column.**

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.163	$\frac{31}{21} \times \frac{30}{14}$	2.46					
2	2.214	$\frac{31}{21} \times \frac{27}{18}$	1.46					
3	1.412	$\frac{31}{21} \times \frac{22}{23}$	Direct					
4	1.000	Direct						
5								
6								
reverse	3.346	$\frac{31}{21} \times \frac{34}{15}$	2.20					

278. Overdrive, type **Laycock LH**
279. Forward gears on which overdrive can be selected **2nd, 3rd, 4th.**
280. Overdrive ratio **.82:1**

FINAL DRIVE

290. Type of final drive **3/4 floating hypoid** 291. Type of differential **2 pinion**
292. Type of limited slip differential (if fitted) **4 pinion**
293. Final drive ratio **3.7:1 3.9:1** Number of teeth **10 x 37 10 x 39**



IMPORTANT—The conformity of the car with the following items of the present recognition form is to be disregarded during the scrutineering, when the vehicle has been entered in group 2 (Touring cars) or 3 (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 photographs I, M and N and page 4.

During the scrutineering of cars entered in group 4 (Sportscars) 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 and photographs A, B, D, E, F, G, H, J, K and O.

The vehicle described in this form has been subject to the following amendments :

on 1/11 1967 rec. no. 5112 List 16/6 on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....
on.....19..... rec. no.....List..... on.....19..... rec. no.....List.....

Optional equipment affecting preceding information. This to be stated together with reference number.

Manufacturing Tolerance:

1. For all machined surfaces allow 0.75%
2. For all non machined surfaces allow 2%
3. For weights of all part machined parts allow 2.5%
4. For weights of all completely machined parts allow 1.25%.





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ZODIAC MK IV
F.I.A. Recognition No. 5112 B/U
Amendment No. 1

Amendment to Form of Recognition

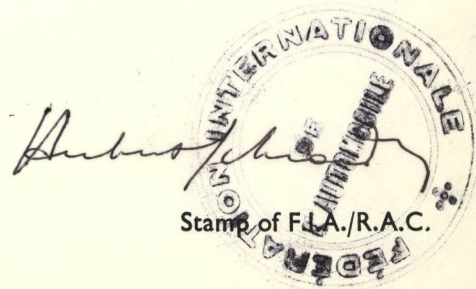
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.	Reference No.	<u>GROUP II VARIANT</u>		
1.	50	<u>Wheels</u>		
		Rim diameter	330 m.m.	13.0 ins
		Rim width	152.4 m.m.	6.0 ins
		Weight	6.350 Kg	14 lbs
		Track increased by	25.4 m.m.	1.00 ins
2.	50	Rim diameter	330 m.m.	13.0 ins
		Rim width	177.8 m.m.	7.0 ins
		Weight	6.577 Kg	14.5 lbs
		Track increased by	50.8 m.m.	2.00 ins
3.	50	Rim diameter	330 m.m.	13.0 ins
		Rim width	203.2 m.m.	8.0 ins
		Weight	6.804 Kg	15 lbs
		Track increased by	76.2 m.m.	3.00 ins



Date amendment is valid from 1st November, 1967

list 16/6





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ZODIAC MK. IV
F.I.A. Recognition No. 5112 *C/V*
Amendment No. 2

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.	Reference No.	<u>GROUP II VARIANT</u>	
1.	50	<u>Wheels</u>	
		Rim diameter	355.6 m.m. 14.0 ins
		Rim width	152.4 m.m. 6.0 ins
		Weight	6.407 Kg 14.12 lbs
		Track increased by	25.4 1.00 ins
2.	50	Rim diameter	355.6 m.m. 14.0 ins
		Rim width	177.8 m.m. 7.0 ins
		Weight	6.633 Kg 14.62 lbs
		Track increased	50.8 m.m. 2.00 ins
3.	50	Rim diameter	355.6 m.m. 14.0 ins
		Rim width	203.2 m.m. 8.00 ins
		Weight	6.861 Kg 15.12 lbs
		Track increased by	76.2 m.m. 3.00 ins



Date amendment is valid from 1st November, 1967

hist 16/6





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ZODIAC
F.I.A. Recognition No. 5112
Amendment No. 3.

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

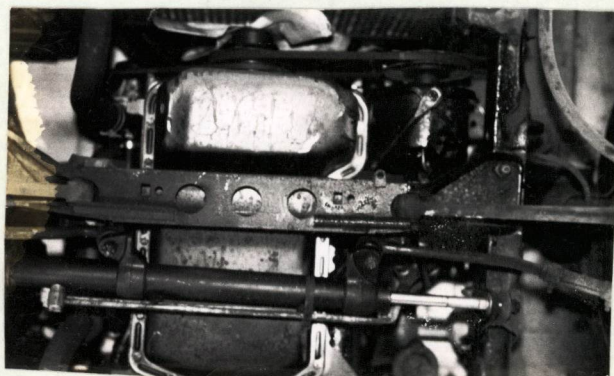
Reference No.

NOTE

Now standard production fitment on this model.

Power assisted steering.

Steering turns lock to lock $4\frac{1}{2}$ approx.



14" Dia X 5" RIM STEEL WHEEL



13lbs : 6 kilos
Track increased by 1"

Part No. 3008E 1007B

Date amendment is valid from.....





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ZODIAC
F.I.A. Recognition No. 5112
Amendment No. 2/4V
①

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

1

Group II Variant

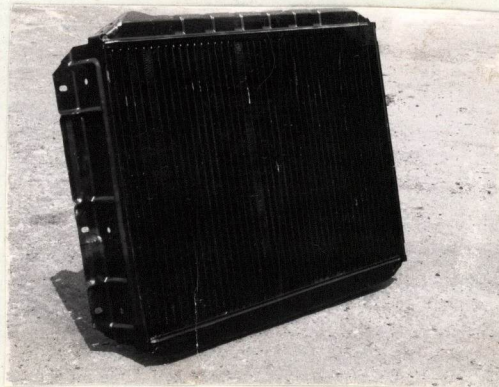


14" Dia. X 6" RIM
Magnesium cast wheel
PART NO. CD 2D 364
Track increased by 1.5"

2

EXPORT ORDER SPECIFICATION

H/D Radiator Assy. Part No. 3012E 8005 B



[Handwritten signature]

Date amendment is valid from 1/10/69

list 69/7



Stamp of F.I.A./R.A.C.



MOTOR SPORT DIVISION
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31 Belgrave Square, London, S.W.1

Manufacturer FORD
Model ZODIAC
F.I.A. Recognition No. 5112
Amendment No. 5

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

GROUP II VARIANT

3

Export order specification
H/D Suspension including

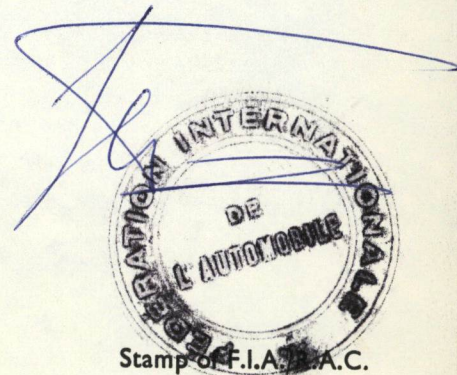
	Part No.
front strut	3008E 3K033/4
top mount	3008E 3K028
Steering assy	3008E 3304
Steering box	3008E 3500
Stabilizer bar	3008E 5482
Crossmember	3008E 5019 D/B
Track control arm	3008E 3K078/9

4

OIL COOLER KIT PART NO: CD 66005R

5

Exhaust Manifold Part No. CD 1000/83



Date amendment is valid from

Stamp of F.I.A. A.C.



MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer PORD
Model ZODIAC
F.I.A. Recognition No. 5112
Amendment No. 6

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

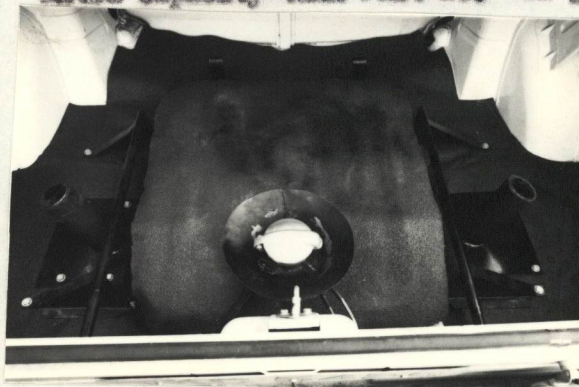
No.

Reference No.

6

GROUP XI VARIANT

Extra capacity tank Part No. CD 3008E 9002



Total capacity of
car 120 litres.

7

Electric fuel pump. Pat No. CD1000/84

8

Alternative axle ratios

4.4:1 - 9/40

4.7:1 - 7/33

5.1:1 - 7/36



Date amendment is valid from.....

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