

F.I.A. Recognition No. 5147
Group 1 Series Production Touring



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 <u>Ford Motor Company Ltd</u>	Cylinder-capacity <u>2000</u> cm. ³ <u>123.7</u> in. ³
Serial No. of chassis/body <u>BB36GC 17958</u>	Model <u>Corsair 2000E V4</u> (RHD or LHD)
Serial No. of engine <u>6M21</u>	Manufacturer <u>FORD</u>
Recognition is valid from <u>1st April 1967</u>	Manufacturer <u>FORD</u>
The manufacturing of the model described in this recognition form started on <u>1st January</u> 19 <u>67</u>	List <u>16/1</u>
and the minimum production of <u>5000</u> identical cars, in accordance with the specifications of this form was reached on <u>1st February</u> 19 <u>67</u>	

Photograph A, $\frac{3}{4}$ view of car from front



R.A.C. Stamp

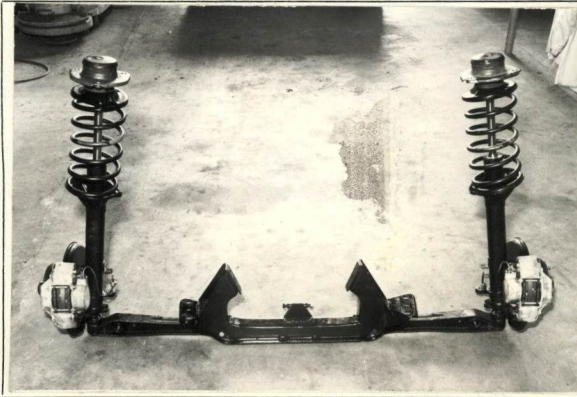
B



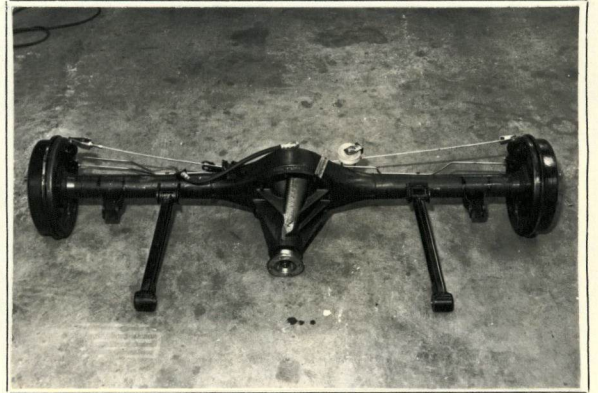
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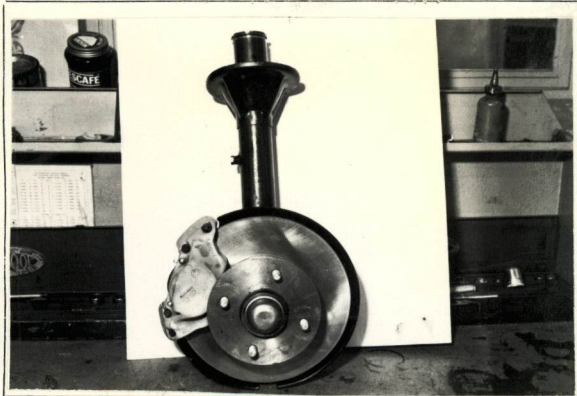
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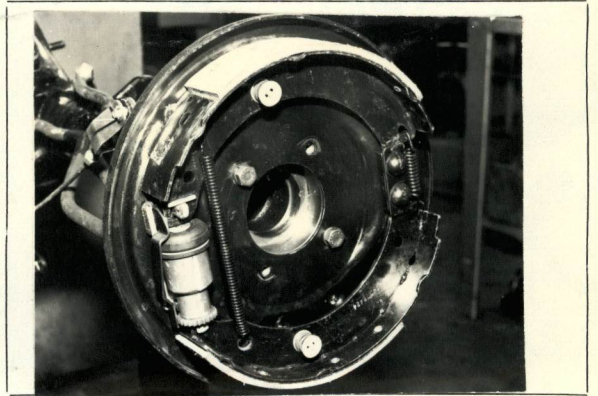
E



F



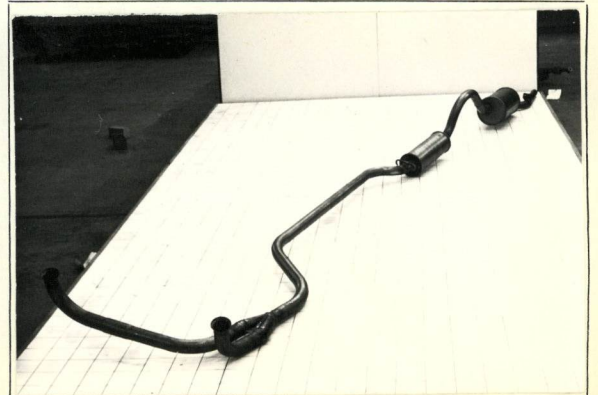
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H

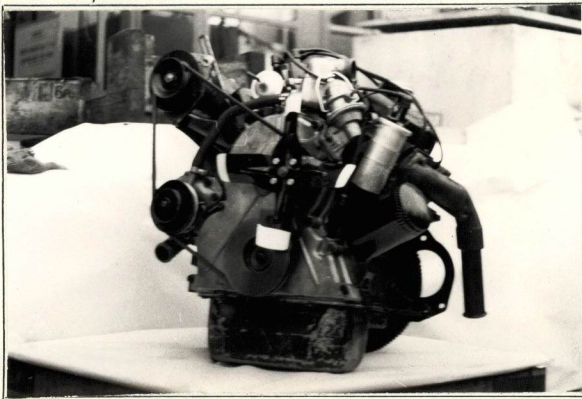


I

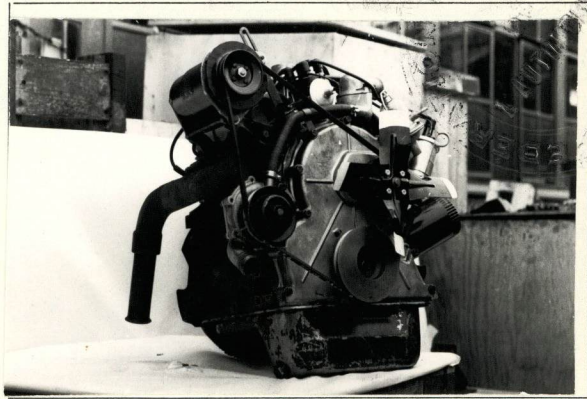




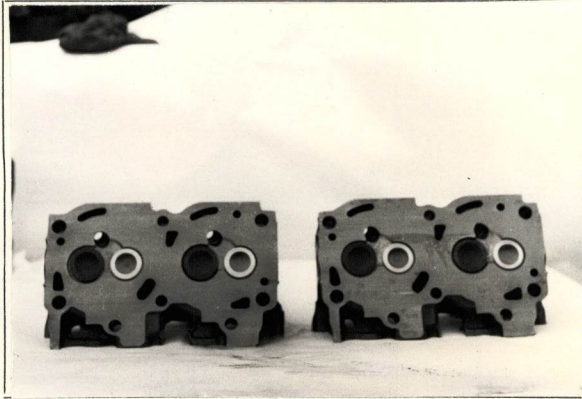
J



K



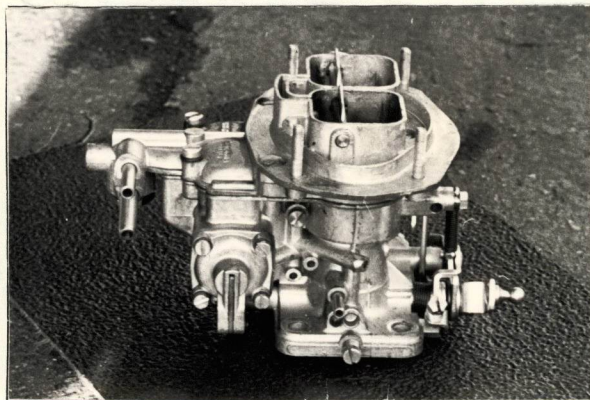
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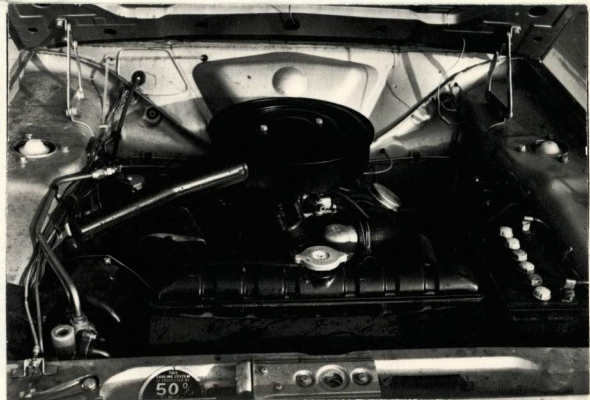
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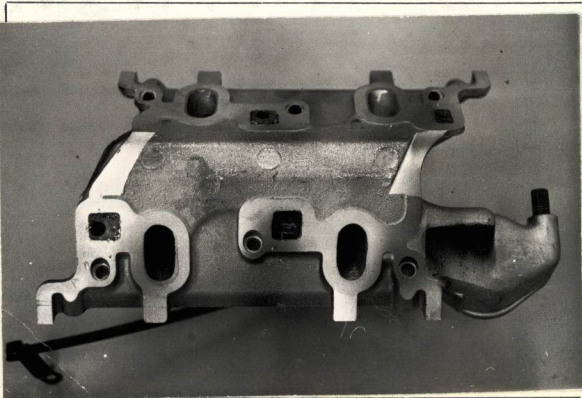
N



O



P



Q



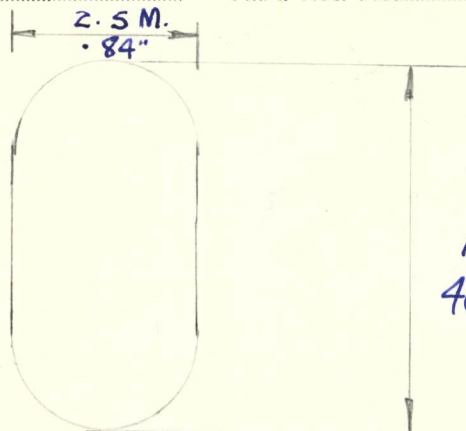
3 EXIT $\frac{17}{32} + \frac{1}{16}$ DIA

Make **FORD**

Model **2000E V4**

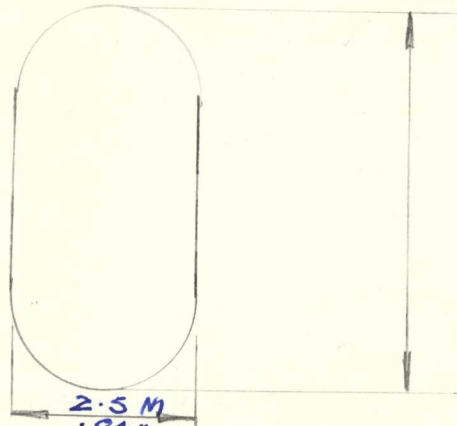
F.I.A. Rec. No.

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



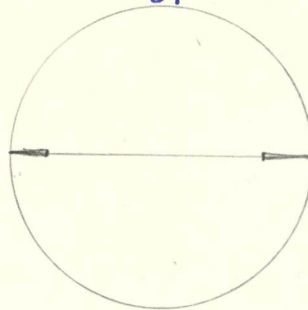
1.64"
40.77 MM.

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



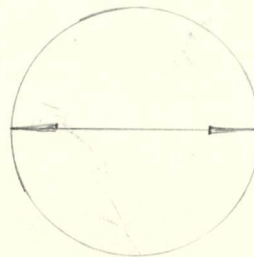
1.48"
35.75 MM.

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



1.60"
40.55 MM.

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



1.29"
30.63 MM.



+ .030in.

Make **FORD**

Model **CORSAIR 2000E V4**

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NOTE 1.

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

CAPACITIES AND DIMENSIONS

- | | | | | | |
|----------------|---------------------|-------|------|--------|--------|
| 1. Wheelbase | | 2565 | mm. | 101.0 | inches |
| 2. Front track | $\pm 25.4\text{mm}$ | 1.0in | | | |
| | 1300 | mm. | 51.2 | inches | |
| 3. Rear track | $\pm 25.4\text{mm}$ | 1.0in | | | |
| | 1260 | mm. | 49.6 | inches | |

Measurement from rocker panel to road

<u>FRONT</u>		<u>REAR</u>
225.36mm	See Note 2	225.36mm
9.0 in		9.0 in



- | | | | | | | |
|--|----------------------------|-------|---------|------------|-------|------------|
| 4. Overall length of the car | 448.6 | cm. | 176.6 | inches | | |
| 5. Overall width of the car | 161.0 | cm. | 63.4 | inches | | |
| 6. Overall height of the car | 146.0 | cm. | 57.5 | inches | | |
| | or 140.9 | cm | or 55.5 | inches | | |
| 7. Capacity of fuel tank (reserve included) | 45.46 | ltrs. | 12.0 | gall. U.S. | 10.0 | 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 : | 960 | kg. | 2119 | lbs. | cwts. | |
| | with automatic gearbox 975 | kg | 2151 | lbs | | |

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 **CORSAIR 2000E V4**

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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** or 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 **Toughened glass**
- 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~~ **XXX**
- 39. Air conditioning : ~~yes~~ no **XXX**
- 40. Ventilation : yes ~~no~~ **XXX**
- 41. Front seats, type of seat and upholstery **Leather, PVC or Cloth**
- 42. Weight of front seat(s), complete with supports and rails, out of the car :

9.1	kg.	20	lbs.
------------	-----	-----------	------
- 43. Rear seats, type of seat and upholstery **Leather, PVC or Cloth**
- 44. Front bumper, material(s) **Steel** Weight **3.9** kg. **8.60** lbs.
- 45. Rear bumper, material(s) **Steel** Weight **4.3** kg. **9.5** lbs.

WHEELS

- 50. Type **Pressed steel disc**
- 51. Weight (per wheel, without tyre) **5.9** kg. **13.1** lbs.
- 52. Method of attachment **4 taper nut fixing**
- 53. Rim diameter **330** mm. **13.0** ins. 54. Rim width **114.5** 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 **4.8 or 3.7**
- 63. In case of servo-assistance **N/A**



SUSPENSION

- 70. Front suspension (photograph D), type **Independent McPherson combined with torque reactor and stabilizer bar**
- 71. Type of spring **Coil**
- 72. Stabiliser (if fitted) **Integral with lower arms through rubber bushes.**
- 73. Number of shock absorbers **2**
- 74. Type **Telescopic double acting.**
- 78. Rear suspension (photograph E), type **Hotchkiss drive.**
- 79. Type of spring **multi lead semi elliptical.**
- 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 **Single or dual**

	FRONT 2		REAR 1	
93. Number of cylinders per wheel				
94. Bore of wheel cylinder(s)	54	mm. 2.125 inches	17.7	mm. .7 inches

Drum Brakes

95. Inside diameter	mm.	inches	228	mm.	9.0	inches
96. Length of brake linings	mm.	inches	219	mm.	8.62	inches
97. Width of brake linings	mm.	inches	44.3	mm.	1.75	inches
98. Number of shoes per brake					2	
99. Total area per brake	mm. ²	sq. in.	19464	mm. ²	30.17	sq. in.

Disc Brakes

100. Outside diameter	244.3	mm.	9.62	inches	mm.	inches
101. Thickness of disc	12.7	mm.	.500	inches	mm.	inches
102. Length of brake linings	76.2	mm.	3.0	inches	mm.	inches
103. Width of brake linings	50.8	mm.	2.00	inches	mm.	inches
104. Number of pads per brake			2			
105. Total area per brake	* 6670	mm. ²	10.34	sq. in.	mm. ²	sq. in.

* 6670
7

* nominal

Make **FORD**

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ENGINE (photographs J and K)

- 130. Cycle **4 stroke**
- 131. Number of cylinders **4**
- 132. Cylinder Arrangement **60° VEE**
- 133. Bore **93.663** mm. in. 134. Stroke **72.415** mm. **2.851** in.
- 135. Capacity per cylinder **499** cm.³ **30.45** cu. in.
- 136. Total cylinder capacity **1996** cm.³ **121.8** 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 **4**
- 141. Number of exhaust ports **4**
- 142. Compression ratio **8.9:1**
- 143. Volume of one combustion chamber **63.3** cm.³ **3.8** 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 **46.01/46.06** mm. **1.811/1.814**
- 147. Crankshaft: moulded/~~stamped~~
- 148. Type of crankshaft: integral/**cast with balance weights.**
- 149. Number of crankshaft main bearings **3**
- 150. Material of bearing cap **cast iron**
- 151. System of lubrication: ~~dry sump~~/oil in sump
- 152. Capacity, lubricant **4.55** ltrs. **6.0** pts. **4.81** quarts U.S.
- 153. Oil cooler: ~~yes~~/no
- 154. Method of engine cooling **water and fan**
- 155. Capacity of cooling system **5.8** ltrs. **10.5** pts. **6.3** quarts U.S.
- 156. Cooling fan (if fitted) dia. **27.94** cm. **11.0** in.
- 157. Number of blades of cooling fan **2 (optional 4 blade for export)**

Bearings

- 158. Crankshaft main, type **steel backed copper lead** dia. **63.515/63.536** mm. **2.5006/2.5014** in.
- 159. Connecting rod big end, type **steel backed copper lead** dia. **60.340/60.361** mm. **2.3756/2.3764** in.

Weights

- 160. Flywheel (clean) **8.317** kg. **18.335** lbs.
- 161. Flywheel with clutch (all turning parts) **14.767** kg. **32.853** lbs.
- 162. Crankshaft **11.326** kg. **24.97** lbs. 163. Connecting rod **708** kg. **1.56** lbs.
- 164. Piston with rings and pin **.846** kg. **1.864** lbs.

FOUR STROKE ENGINES

- 170. Number of camshafts **1** 171. Location **In block**
- 172. Type of camshaft drive **gear**
- 173. Type of valve operation **push rod and rocker operated.**



INLET (see page 4)*

- 180. Material(s) of inlet manifold **Aluminium alloy**
- 181. Diameter of valves **40.44/40.69** mm. **1.592/1.602** ins.
- 182. Max. valve lift **9.04** mm. **.356** in. 183. Number of valve springs **1 per valve**
- 184. Type of spring **single coil** 185. Number of valves per cylinder **1**
- 186. Tappet clearance for checking timing (cold) **.305** mm. **.012** ins.
- 187. Valves open at (with tolerance for tappet clearance indicated) **27° BTDD**
- 188. Valves close at (with tolerance for tappet clearance indicated) **65° ABDC**
- 189. Air filter, type **dry paper element.**

EXHAUST (see page 4)*

- 195. Material(s) of exhaust manifold **Cast iron.**
- 196. Diameter of valves **36.27/36.53** mm. **1.428/1.438** ins.
- 197. Max. valve lift **8.86** mm. **.349** in. 198. Number of valve springs **1 per valve**
- 199. Type of spring **single 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) **69° BBDC**
- 203. Valves close at (with tolerance for tappet clearance indicated) **23° ATDC**

CARBURETION (photograph N)

- 210. Number of carburettors fitted **1** 211. Type **Down draught**
- 212. Make **Weber** 213. Model **32 D1F4**
- 214. Number of mixture passages per carburettor **2**
- 215. Flange hole diameter of exit port(s) of carburettor **32** mm. **1.26** ins.
- 216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU) **26/27** mm. **1.02/1.06** 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.

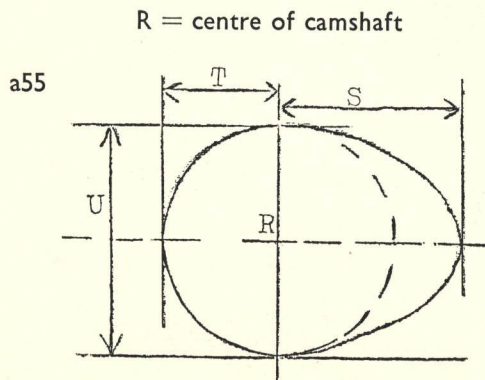
ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~and~~ or electrical
- 231. No. fitted **1**
- 232. Type of ignition system **coil**
- 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 **1**
fitted
- 237. Method of drive **belt**
- 238. Voltage of generator **12** volts
- 239. Battery, number **1**
- 240. Location **in engine compartment**
- 241. Voltage of battery **12** volts



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

- 250. Max. engine output **97** (type of horsepower: **b.h.p.**) at **5,000** r.p.m.
- 251. Max. r.p.m. **5,500** output at that figure **95bhp**
- 252. Max. torque **113.5 lbs/ft** at **3000** r.p.m.
- 253. Max. speed of the car **Not declared by manufacturer in catalogue.** km./hour miles/hour



Inlet cam

S =	20.447	mm.	.805	inches
T =	13.843	mm.	.545	inches
U =	27.660	mm.	1.089	inches

Exhaust cam

S =	20.320	mm.	.800	inches
T =	13.970	mm.	.550	inches
U =	27.940	mm.	1.100	inches

Make **FORD**

Model **CORSAIR 2000E V4**

F.I.A. Rec. No.



DRIVE TRAIN

CLUTCH

260. Type of clutch **Diaphragm**
261. No. of plates **1**
262. Dia. of clutch plates **219** cm. **8.62** ins.
263. Dia. of linings, inside **146** cm. **5.75** ins.
- outside **203** cm. **8.00** ins.
264. Method of operating clutch **Hydraulic**

GEAR BOX (photograph H)

270. Manual type, make **Ford** Method of operation **Manual**
271. No. of gear-box ratios forward **4**
272. Synchronized forward ratios **4**
273. Location of gear-shift **Centre floor shift**
274. Automatic, make **Borg Warner** type **Three element single phase with torque convertor.**
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	2.972	32 x 17	2.39		2.51	$\frac{21}{28} \times \frac{17}{32}$		
2	2.010	28 x 22	1.45		1.64	$\frac{21}{28} \times \frac{22}{28}$		
3	1.397	26 x 26	1.00		1.23	$\frac{21}{28} \times \frac{26}{24}$		
4	1.000	19 x 30			1.000	direct		
5								
6								
reverse	3.324	40x22x19	2.09		3.96	$\frac{21}{28} \times \frac{40}{22} \times 19$		

278. Overdrive, type **None**
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 **2 pinion**
292. Type of limited slip differential (if fitted)
293. Final drive ratio **3.77:1 4.125** Number of teeth **9/34 8/33**

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.....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.....	on.....19.....	rec. no.....	List.....

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

MANUFACTURING TOLERANCES

1. For all machines surfaces allow .075%
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..... CORSAIR 2000E V4
F.I.A. Recognition No.....
Amendment No. I

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. Reference No. CORSAIR 2000E V4 ALTERNATIVES GROUP II PART NUMBER

1 53 5½J Pressed steel wheel 13in
139.5mm 5.5ins

2 53 6J Electron wheel 13in
152.2mm 6.0in

GD 1000/3



13" Dia x 6"Width
10 lbs Weight

3 293 Final Drive Ratios 3.9:1 4.4:1
39/10 40/9

Date amendment is valid from.....





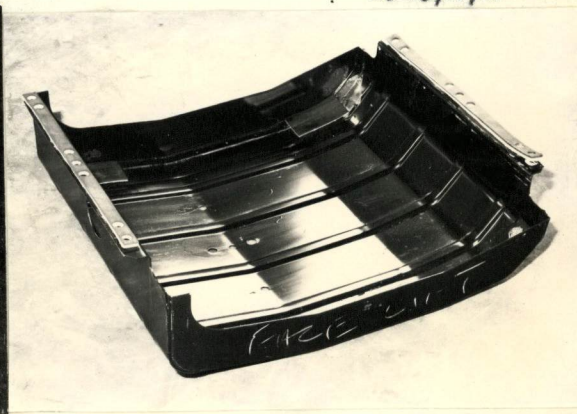
MOTOR SPORT DIVISION
 The Royal Automobile Club,
 31 Belgrave Square, London, S.W.1

Manufacturer..... **FORD**
 Model..... **CORSAIR 2000E V4**
 F.I.A. Recognition No.....
 Amendment No. **2**

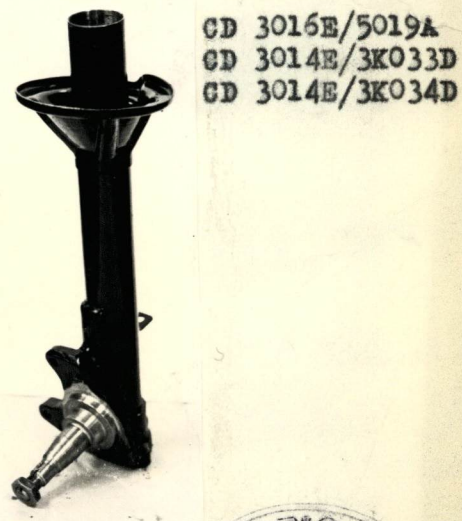
Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.	Reference No.	<u>CORSAIR 2000E V4 ALTERNATIVES</u>	<u>GROUP II</u>	<u>PART NUMBER</u>
4		Front underbody shield		CD 677B
5		Fuel tank shield		E915/T/1



6	70	Heavy Duty Crossmember and Suspension		
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7	7	Fuel tank		
		12 gallons	54.6 litres	14.4 U.S Gallons

Date amendment is valid from.....





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

Manufacturer FORD
Model CORSAIR 2000E V4
F.I.A. Recognition No.
Amendment No. 3

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.	Reference No.	<u>CORSAIR 2000E V4 ALTERNATIVES</u>	<u>GROUP II</u>	<u>PART NUMBER</u>
8	292	Ford Limited Slip Differential Unit		CD2927E/4204A
9	277	Alternative Gear Ratios		
		1. 2.296	$\frac{28}{21} \times \frac{31}{18}$	
		2. 1.697	$\frac{28}{21} \times \frac{28}{22}$	
		3. 1.28	$\frac{28}{21} \times \frac{24}{25}$	
		4. 1.00	Direct	

Date amendment is valid from.....

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