

507  
Grand 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

		Cylinder-capacity.....	3781	cm <sup>3</sup>	230.6	in <sup>3</sup>
Manufacturer.....	Jaguar Cars Limited	Model.....	3.8 'E' type	fixed head coupe/open		
Serial No. of chassis.....	850001	Manufacturer.....	Jaguar Cars Limited	roadster		
engine.....	R.1001	Manufacturer.....	Jaguar Cars Limited			
Recognition is valid from.....	1/1/1966	List.....				

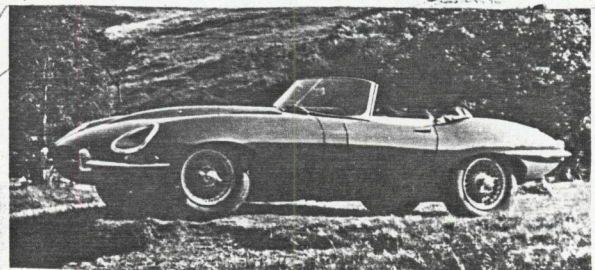
The manufacturing of the model described in this recognition form was started on 3rd March 1961 and the minimum production of 500 identical cars, in accordance with the specifications of this form was reached on 15th December 1961.

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

F.I.A. Stamp

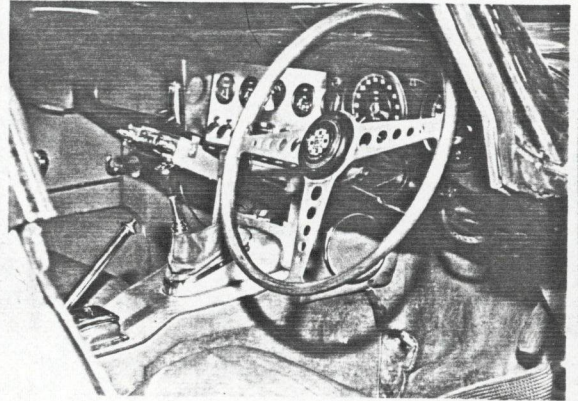
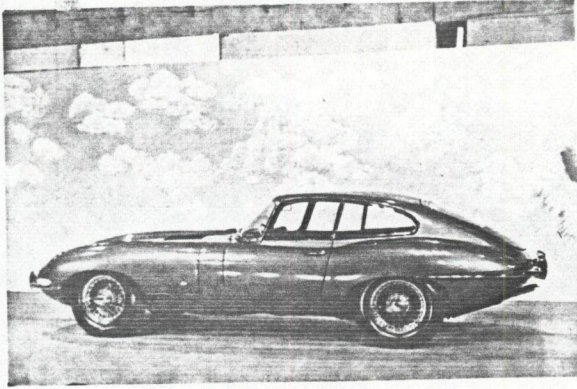


R.A.C. Stamp



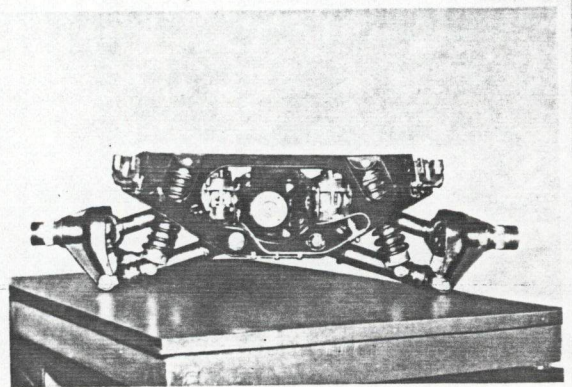
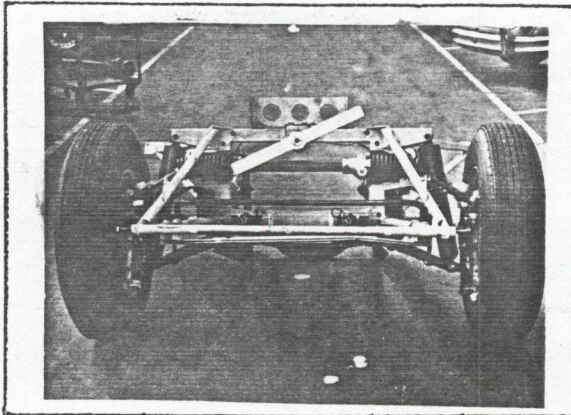
*Handwritten notes:*  
F.I.A. Stamp  
R.A.C. Stamp  
R.R.





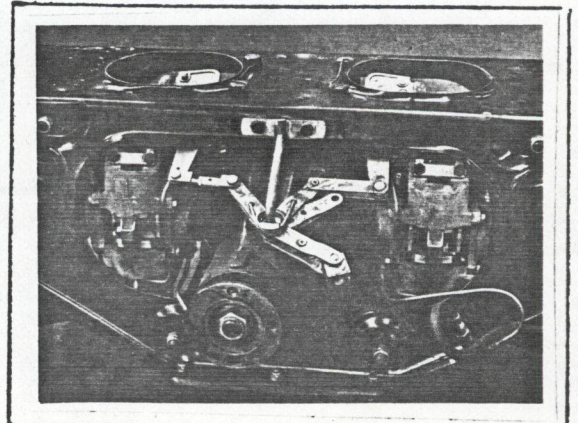
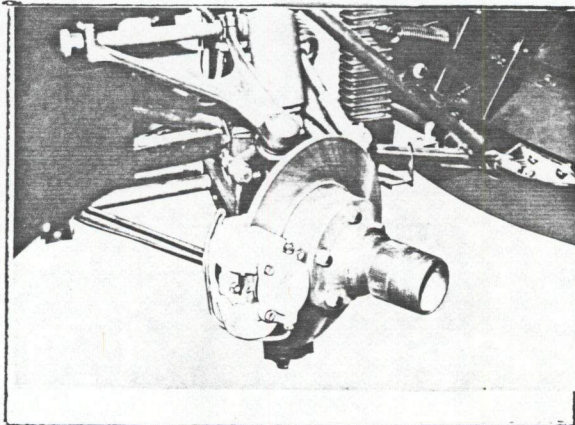
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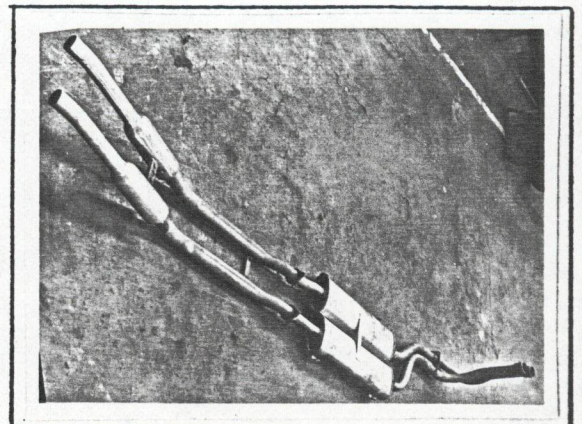
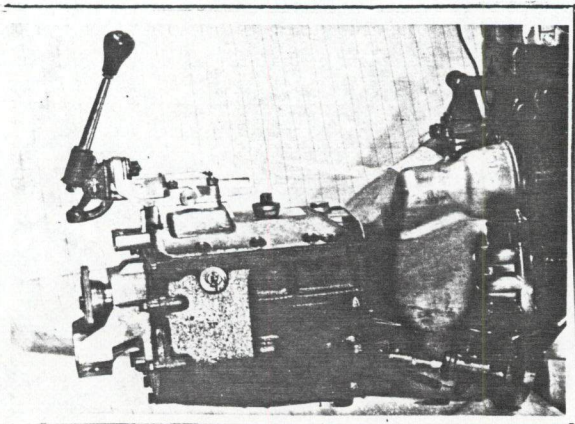
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F



G

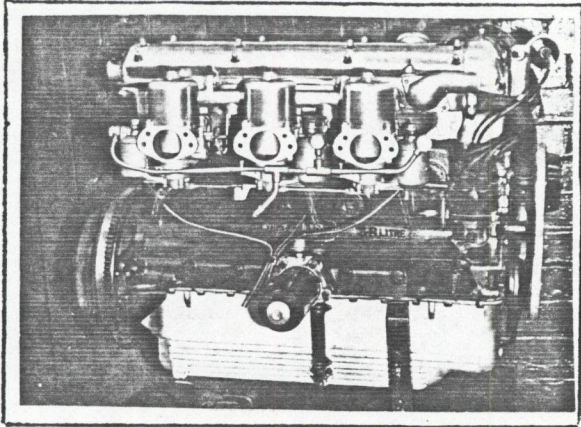
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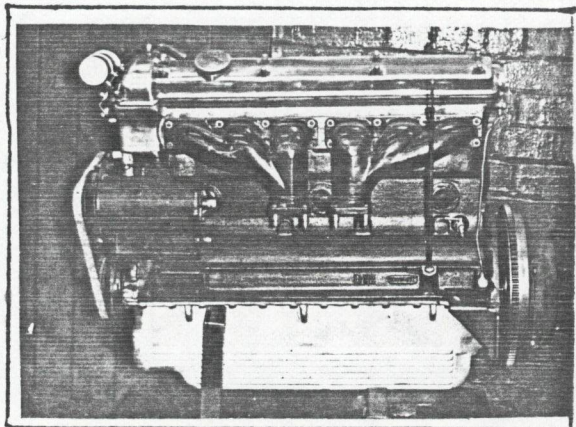
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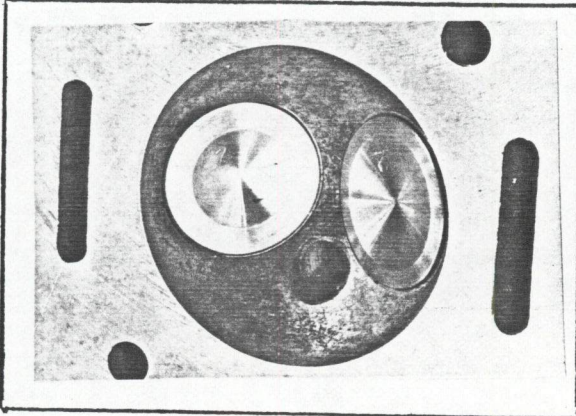
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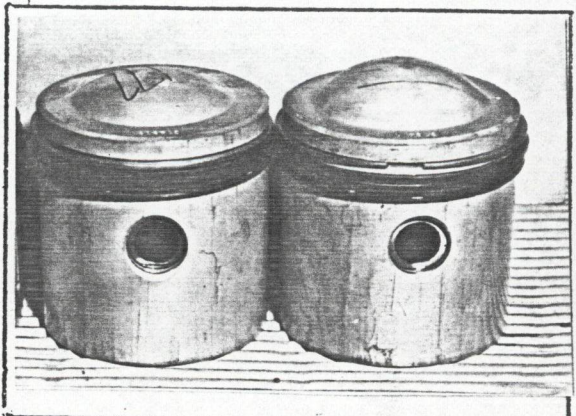
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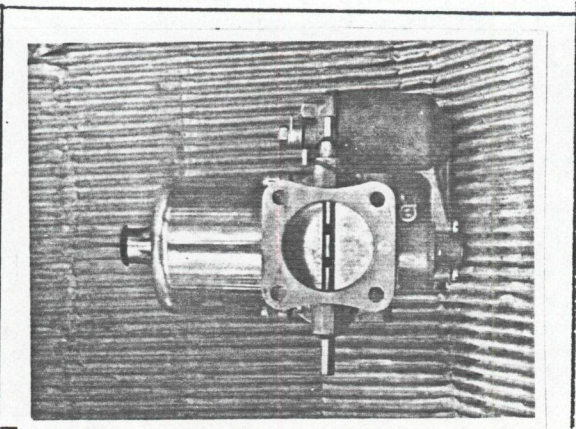
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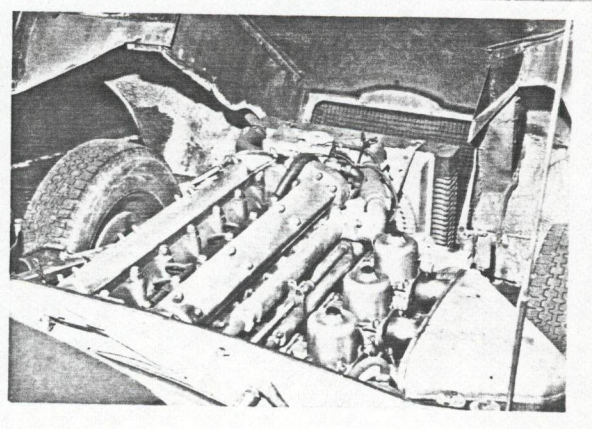
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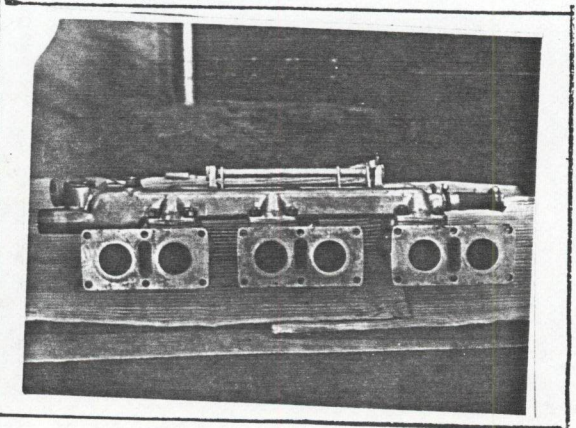
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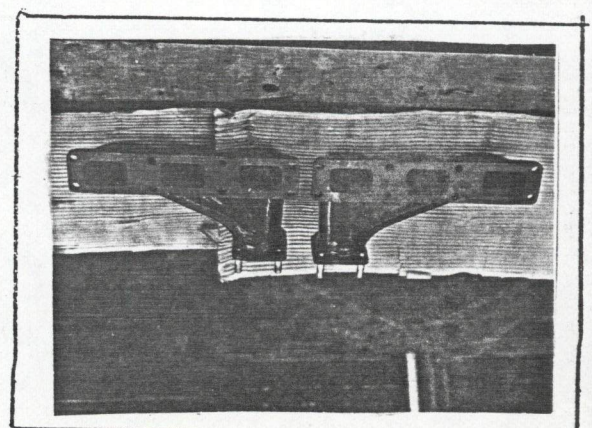
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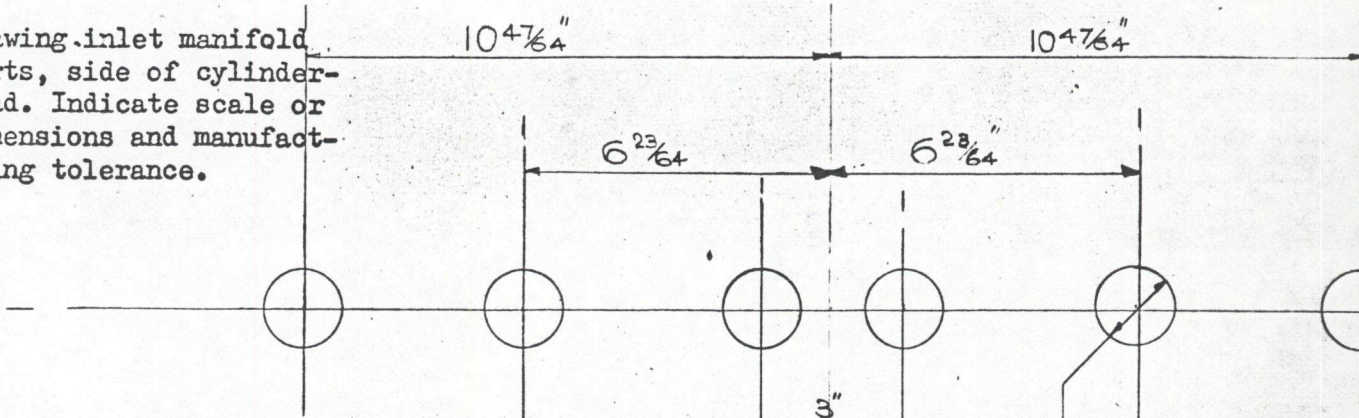


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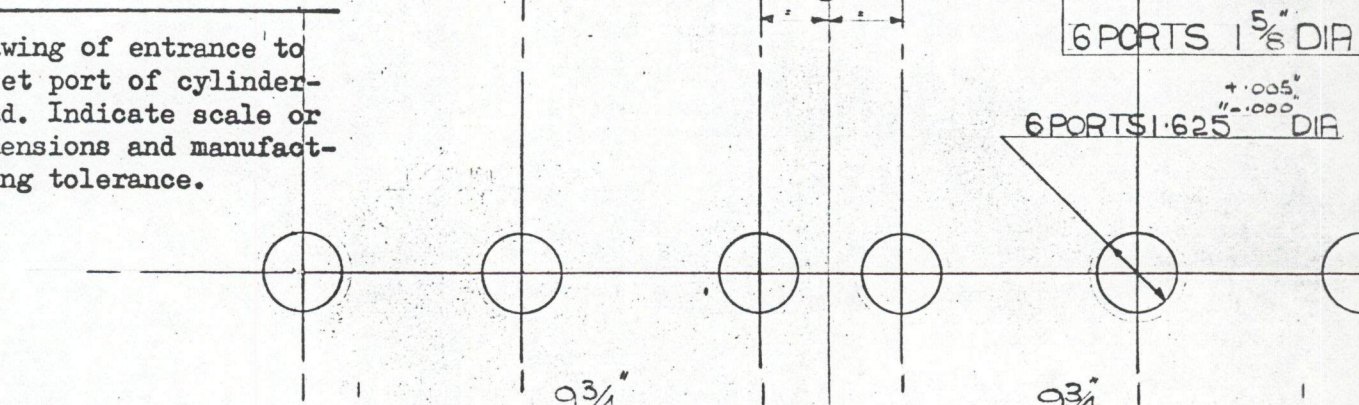




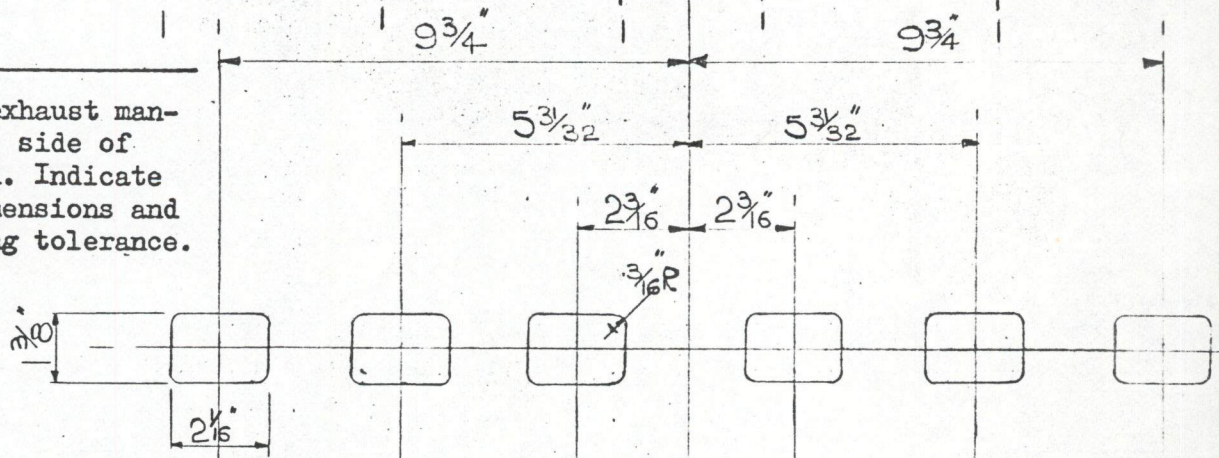
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



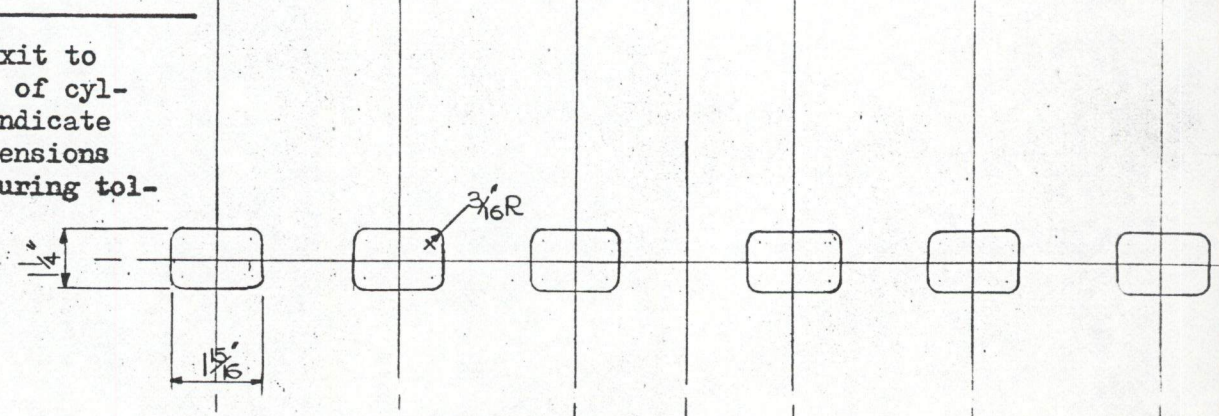
Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



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.



SCALE : 4/1 UNLIMITED MACHINING DIMENSIONS TO BE  $\pm .010$ "

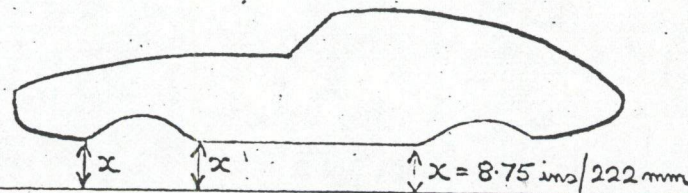


Make Jaguar Model 3.8 'E' type F.I.A. Rec.no.

NOTE 1 All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

1.	Wheelbase	2440	mm.	96	inches
2.	Front track	1270	mm.	50	inches
3.	Rear track	1270	mm.	50	inches



*x is distance from underside of body to ground & is unaffected by track & wheel rim width variations.*

4.	Overall length of the car	445.0	cm.	175.30	inches
5.	Overall width of the car	166.0	cm.	65.25	inches
6.	Overall height of the car	120.0	cm.	47.24	inches
7.	Capacity of fuel tank (reserve included)	63.5	ltrs.	16.5	Gall.US
				14.0	Gall.Imp.
8.	Seating Capacity.	2			
9.	Weight. total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools:	1247	kg.	2744	lbs.
				24.5	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 <sup>2</sup>	1 gallon Imp.	-	4.546	ltrs
1 cubin inch/pouce cube	-	16.387	cm <sup>3</sup>	1 gallon US	-	3.785	ltrs
1 pound/livre (lb)	-	453.593	gr.	1 hundred weight(cwt)	-	50.802	kg



Make Jaguar Model 3.8 'E' type 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

SEPARATE CONSTRUCTION - MATERIALS

22. Chassis Steel 23. Coachwork Steel  
24. Number of doors 2 Material(s)  
25. Bonnet Steel 26. Boot Lid Steel  
27. Rear Window Glass 28. Windscreen Laminated glass  
29. Front door windows Glass 30. Rear door windows Glass  
31. Sliding system of door windows Winding  
32. Material(s) of rear-quarter light Glass

ACCESSORIES AND UPHOLSTERY

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

10.0 kg. 22.0 lbs.

43. Rear seats, type of upholstery  
44. Front bumper, material(s) Steel Weight 1.8 kg. 4.0 lbs.  
45. Rear bumper, material(s) Steel Weight 2.7 kg. 6.0 lbs.

WHEELS

50. Type Wire  
51. Weight (per wheel, without tyre) 9.16 kg. 20.18 lbs.  
52. Method of attachment Centre lock hub cap  
53. Rim diameter 381 mm. 15 ins.  
54. Rim width 127 mm. 5 ins.

STEERING

60. Type Rack and pinion  
61. Servo-assistance : ~~yes~~ - no  
62. Number of turns of steering wheel from lock to lock 2.5  
63. In case of servo-assistance.



SUSPENSION

- 70. Front suspension (photograph D), type Independent
- 71. Type of spring Torsion bar
- 72. Stabiliser (if fitted) Yes
- 73. Number of shock absorbers 2
- 74. Type Telescopic
- 78. Rear suspension (photograph E), type Independent
- 79. Type of spring Coil
- 80. Stabiliser (if fitted) Yes
- 81. Number of shock absorbers 4
- 82. Type Telescopic

BRAKES (photographs F and G)

- 90. Method of operation Hydraulic
- 91. Servo-assistance (if fitted), type Vacuum
- 92. Number of hydraulic master cylinders 2

	FRONT		REAR	
93. Number of cylinders per wheel	2		2	
94. Bore of wheel cylinder(s)	54.0	mm. 2.125 inches	44.5	mm. 1.75 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		mm. inches		mm. inches
99. Total area per brake		mm <sup>2</sup> sq.in.		mm <sup>2</sup> sq.in.
Disc Brakes				
100. Outside diameter	279.4	mm. 11.0 inches	254.0	mm. 10.0 inches
101 Thickness of disc	9.5	mm. 0.375 inches	12.7	mm. 0.5 inches
102 Length of brake linings		mm. inches		mm. inches
103 Width of brake linings	54.0	mm. 2.125 inches	54.0	mm. 2.125 inches
104 Number of pads per brake	47.5	mm. 1.875 inches	47.5	mm. 1.875 inches
105 Total area per brake		mm <sup>2</sup> 8 sq.in.		mm <sup>2</sup> 8 sq.in.



ENGINE (photographs J and K)

130. Cycle	Otto	131. Number of cylinders	6
132. Cylinder Arrangement	In line		
133. Bore	87 mm. 3.425 in.	134. Stroke	106 mm. 4.173 in.
135. Capacity per cylinder			630 cm <sup>3</sup> 38.4 cu.in.
136. Total cylinder capacity			3781 cm <sup>3</sup> 230.6 cu.in.
137. Material(s) of cylinder block	Cast iron		
138. Material(s) of sleeves (if fitted)	Cast iron		
139. Cylinder head, material(s)	Aluminium	Number fitted	1
140. Number of inlet ports	6	141. Number of exhaust ports	6
142. Compression ratio	9:1 or 8:1		
143. Volume of one combustion chamber			98 cm <sup>3</sup> 6 cu.in.
144. Piston, material	Aluminium	145. Number of rings	3
146. Distance from gudgeon pin centre line to highest point of piston crown			57 mm. 2.24 in.
147. Crankshaft : <del>moulded</del> / Stamped		148. Type of crankshaft :	integral/.....
149. Number of crankshaft main bearings	7		
150. Material of bearing cap	Steel		
151. System of lubrication : <del>dry sump</del> / oil in sump			
152. Capacity, lubricant	8.5 ltrs.	15 pts.	9 Quarts U.S.
153. Oil cooler : <del>yes</del> / no		154. Method of engine cooling	Water
155. Capacity of cooling system	18 ltrs.	32 pts.	19.25 quarts U.S.
156. Cooling fan (if fitted) dia.		40.6 cm.	16 in.
157. Number of blades of cooling fan	2		
Bearings			
158. Crankshaft main, type	Steel backed shell	Dia.	69.85 mm. 2.75 in.
159. Connecting rod, big end	Steel backed shell	Dia.	52.98 mm. 2.08 in.
Weights			
160. Flywheel (clean)		9.5 kg.	21 lbs.
161. Flywheel with clutch (all turning parts).		19.2 kg.	42.25 lbs.
162. Crankshaft	28.5 kg. 62.78 lbs.	163. Connecting rod	0.88 kg. 1.94 lbs.
164. Piston with rings and pin		0.67 kg.	1.47 lbs.



## FOUR STROKE ENGINES

170. Number of camshafts 2 171. Location Overhead  
 172. Type of camshaft drive Chain  
 173. Type of valve operation Overhead camshaft and tappet

## INLET (see page 4)\*

180. Material(s) of inlet manifold Aluminium  
 181. Diameter of valves 44.45<sub>mm.</sub> 1.75 ins.  
 182. Max. valve lift 9.5 mm. 0.375 in. 183. Number of valve springs 12  
 184. Type of spring Coil 185. Number of valves per cylinder 1  
 186. Tappet clearance for checking timing (cold) 0.25 mm. 0.010 ins.  
 187. Valves open at (with tolerance for tappet clearance indicated) 15° B.T.D.C.  
 188. Valves close at (with tolerance for tappet clearance indicated) 57° A.B.D.C.  
 189. Air filter, type

## EXHAUST (see page 4)

195. Material(s) of exhaust manifold Cast iron  
 196. Diameter of valves 41.27<sub>mm.</sub> 1.625 ins.  
 197. Max. valve lift 9.5 mm. 0.375 in. 198. Number of valve springs 12  
 199. Type of spring Coil 200. Number of valves per cylinder 1  
 201. Tappet clearance for checking timing (cold) 0.25 mm. 0.010 ins.  
 202. Valves open at (with tolerance for tappet clearance indicated) 57° B.B.D.C.  
 203. Valves close at (with tolerance for tappet clearance indicated) 15° A.T.D.C.

## CARBURETION (photograph N)

210. Number of carburettors fitted 3 211. Type Horizontal  
 212. Make S.U. 213. Model H.D.8  
 214. Number of mixture passages per carburettor 1  
 215. Flange hole diameter of exit port(s) of carburettor 50.8 mm. 2 ins.  
 216. Minimum diameter of venturi/minimum diam, with piston at maximum height  
 43 mm. 1.688 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.

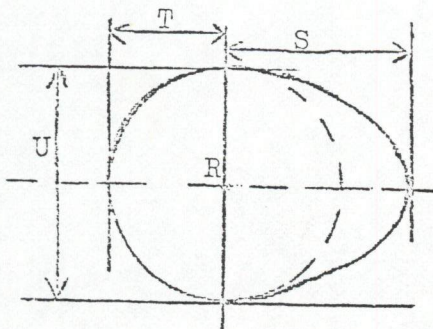


ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical and/or~~ electric.
- 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, number fitted 1
- 237. Method of drive 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 265 (type of horsepower; S.A.E. B.H.P. ) at 5500 rpm
- 251. Max. rpm 6000 output at that figure 255 B.H.P.
- 252. Max torque 260 pounds feet at 4000 rpm
- 253. Max speed of the car 250 km/hour 155 miles/hour



R = centre of camshaft.

Inlet cam

S =	22.99	mm.	0.905	inches
T =	13.22	mm.	0.520	inches
U =	26.44	mm.	1.040	inches

Exhaust cam

S =	22.99	mm.	1.905	inches
T =	13.22	mm.	0.520	inches
U =	26.44	mm.	1.040	inches



Make Jaguar

Model 3.8 'E' type

F.I.A. Rec.no.

DRIVE TRAIN

CLUTCH

- 260. Type of clutch Dry plate
- 261. No of plates 1
- 262. Dia. of clutch plates 25.4 cm. 10.0 ins..
- 263. Dia. of linings, inside 21.4 cm. 8.4 ins.
- outside 25.4 cm. 10.0 ins.
- 264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

- 270. Manual type, make Jaguar
- 271. No. of gear-box ratios forward 4
- 272. Synchronized forward ratios 3
- 273. Location of gear-shift Floor
- 274. Automatic, make type
- 275. No. of forward ratios
- 276. Location of gear shift

277.	Manual		Automatic		Alternative manual / automatic			
	Ratio	No.teeth	Ratio	No.teeth	Ratio	No.teeth	Ratio	No.teeth
1	2.98:1	$\frac{37}{28} \times \frac{36}{16}$			3.38:1	$\frac{38}{27} \times \frac{36}{15}$		
2	1.74:1	$\frac{37}{28} \times \frac{37}{28}$			1.86:1	$\frac{38}{27} \times \frac{37}{28}$		
3	1.21:1	$\frac{37}{28} \times \frac{31}{34}$			1.28:1	$\frac{38}{27} \times \frac{31}{34}$		
4	1.00:1	-			1.00:1	-		
5								
6								
re-verse	2.98:1	$\frac{37}{28} \times \frac{36}{16}$			3.38:1	$\frac{38}{27} \times \frac{36}{15}$		

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

FINAL DRIVE

- 290. Type of final drive Hypoid
- 291. Type of differential Bevel gear
- 292. Type of limited slip differential (if fitted) Thornton Powr-Lok
- 293. Final drive ratio 3.54:1 or 3.07:1
- Number of teeth 13/46 or 14/43



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, 184, 186, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, M and N.

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.

7. Larger fuel tank 109 litres 28.8 U.S.gallons 24.0 Imperial gallons

Wheels.

- 2. 1300 mm/51.14 ins front track
- 3. 1300 mm/51.14 ins rear track
- 51. 11.14kg/24.54 lbs weight
- 54. 139.7mm/ 5.50 ins rim width.

Brakes.

- 94. 47.6 mm/1.875 ins bore rear wheel cylinders
- 100. 308.0 mm/12.125ins diameter front discs
- 101. 12.7 mm/ 0.500ins thick front discs
- 102. 60.3 mm/2.375 ins length front pads
- 103. 60.3 mm/2.375 ins width front pads
- 105. 7250 sq mm/11.2 sq ins area per brake

Final drive.

- 293. 3.31:1 ratio 13/43 teeth
- 4.09:1 ratio 11/45 teeth
- 3.77:1 ratio 13/49 teeth