

F.I.A. Recognition No. 618

Group 3 - 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

Manufacturer Jaguar Cars Limited      Cylinder-capacity 4235 cm.<sup>3</sup> 258.43 in.<sup>3</sup>  
 Model 4.2 'E' Type 2+2 Series 2  
 Serial No. of chassis/body 1R 35002      Manufacturer Jaguar Cars Ltd.  
 Serial No. of engine 7R 35318      Manufacturer Jaguar Cars Ltd.  
 Recognition is valid from 1st July 1969      List 1969/5  
 The manufacturing of the model described in this recognition form started on 27th September 19 68  
 and the minimum production of 500 identical cars, in accordance with the specifications of  
 this form was reached on 19th November 19 68

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



F.I.A. Stamp

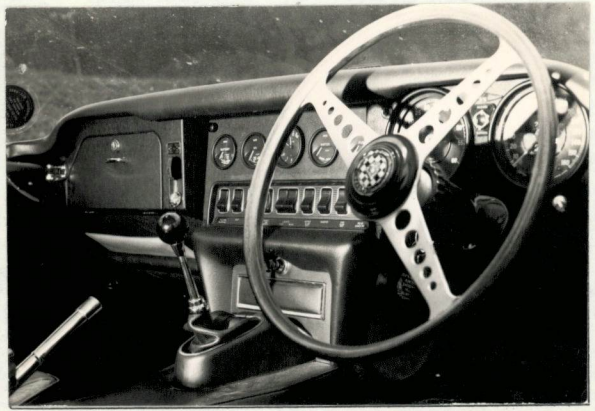
R.A.C. Stamp



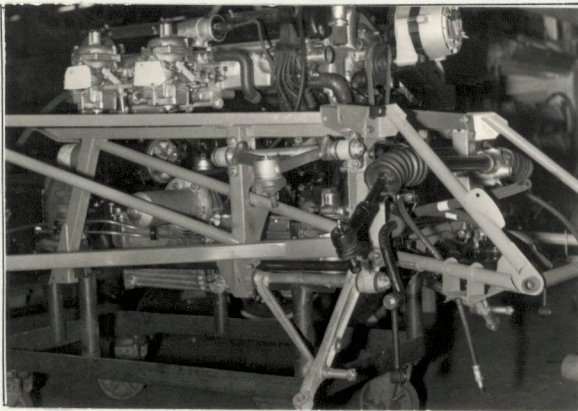
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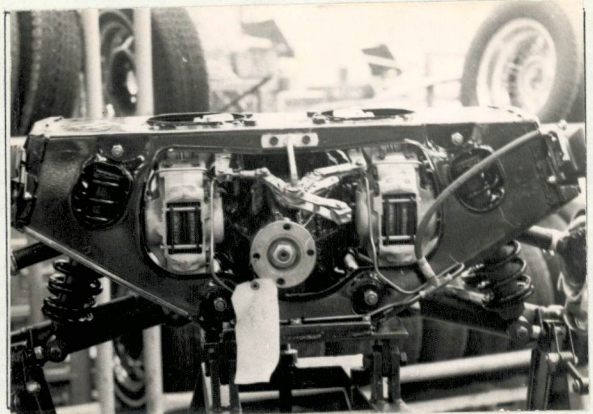
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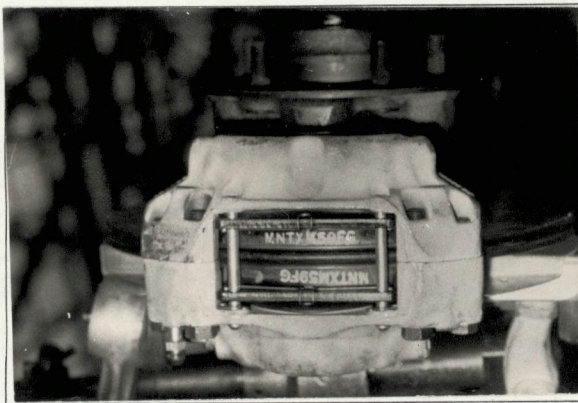
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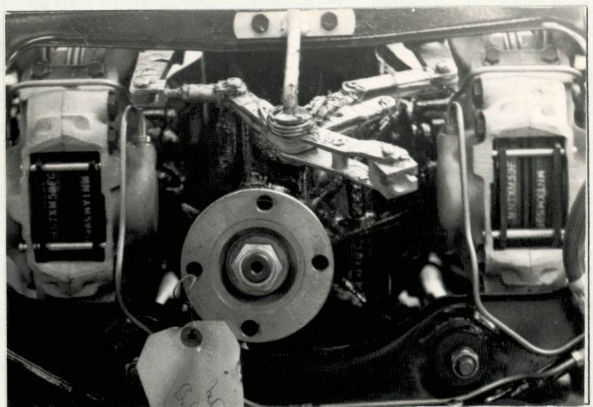
E



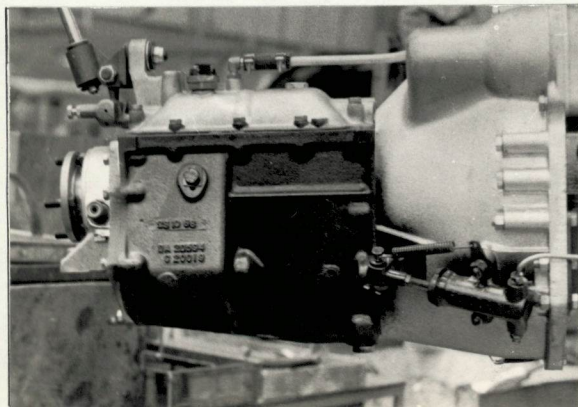
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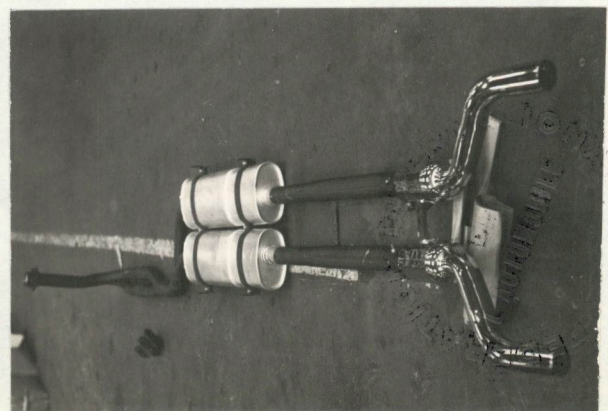
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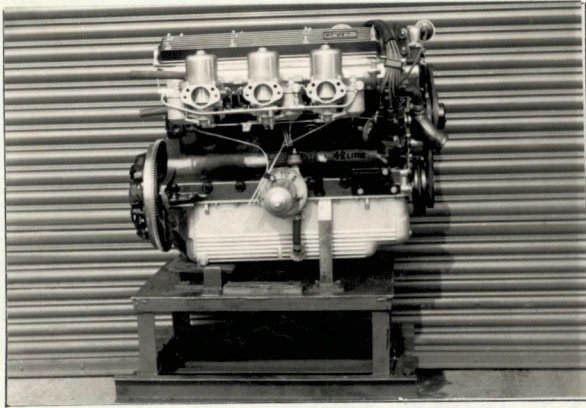
H



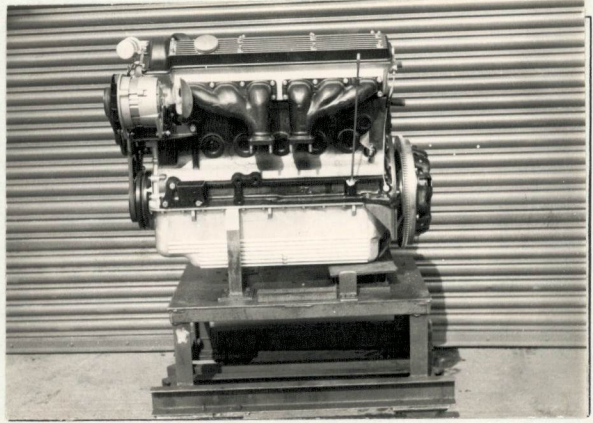
I



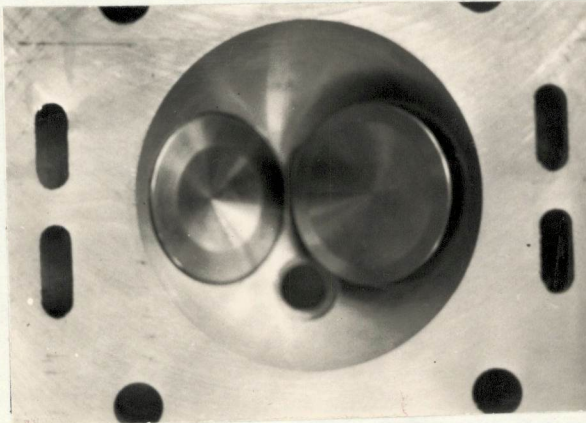
J



K



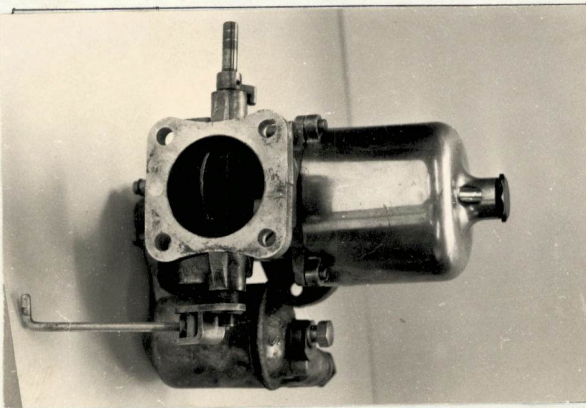
L



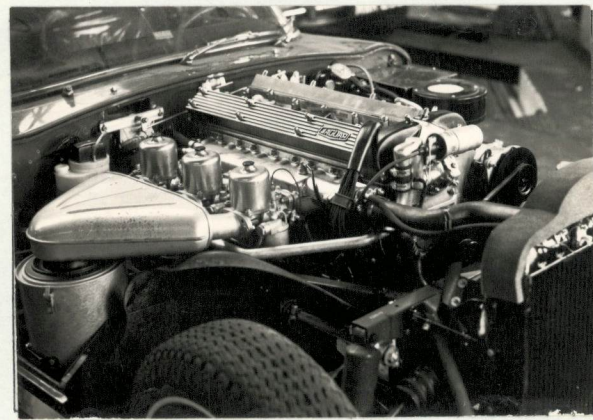
M



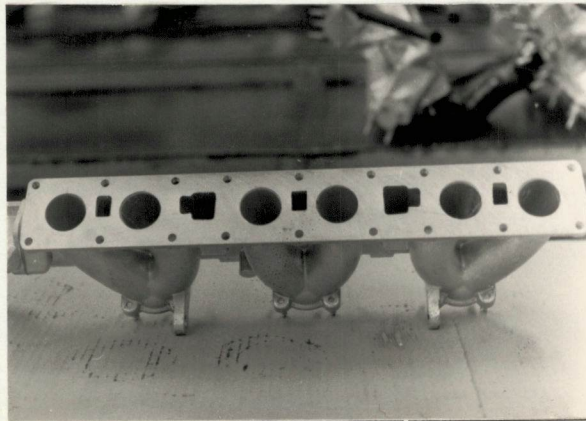
N



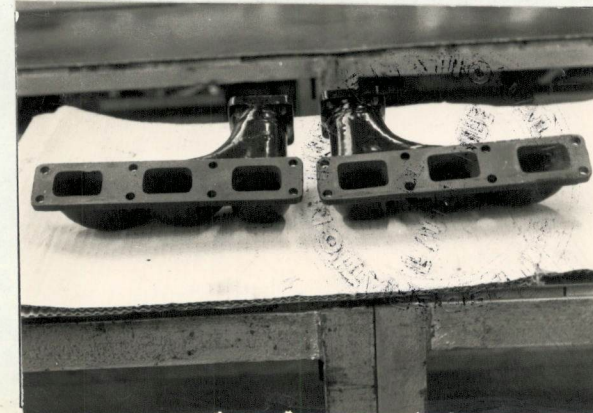
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P



Q

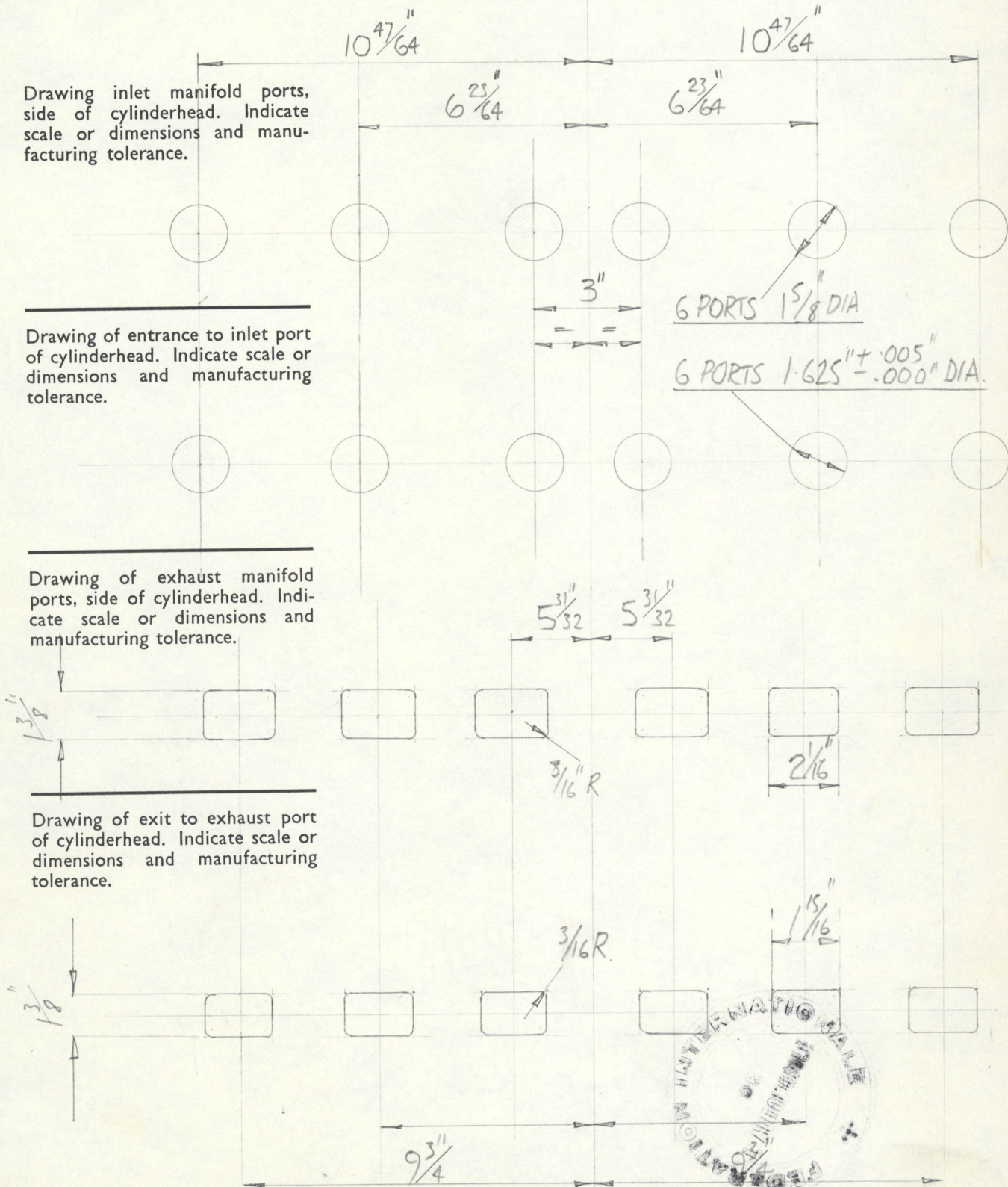


Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

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.



SCALE  $\frac{1}{4}$  UNLIMITED M/C'ING DIMENSIONS TO BE  $\pm .010$ "

4.2 Litre 'E' Type

Make Jaguar

Model 2 + 2 Series 2

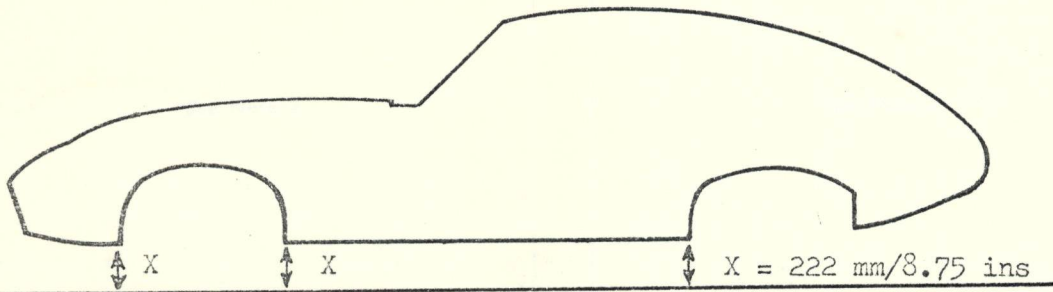
F.I.A. Rec. No. \_\_\_\_\_

**NOTE 1.**

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

**CAPACITIES AND DIMENSIONS**

1. Wheelbase		2660	mm.	105	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 run width

4. Overall length of the car		478	cm.	187.3125	inches	
5. Overall width of the car		166	cm.	65.25	inches	
6. Overall height of the car		127	cm.	50.13	inches	
7. Capacity of fuel tank (reserve included)						
	63.64	ltrs.	16.75	gall. U.S.	14	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 :						
	1323.14	kg.	2928	lbs.	26.15	cwts.

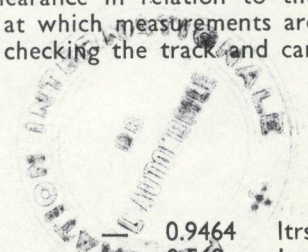
**NOTE 2.**

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)	—	0.473176	ltrs.
1 sq. inch/pouce carre	—	6.452	cm. <sup>2</sup>	1 gallon Imp.	—	4.546	ltrs.
1 cubic 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

4.2 Litre 'E' Type

Model 2 + 2 Series 2

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 Glass
- 28. Material(s) of windscreen Laminated Glass
- 29. Material(s) of front-door windows Glass
- 30. Material(s) of 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. Ventilation : yes — ~~no~~
- 41. Front seats, type of seat and upholstery Bucket/Leather
- 42. Weight of front seat(s), complete with supports and rails, out of the car :  

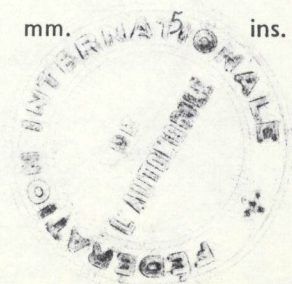
12.13	kg.	26.75	lbs.
-------	-----	-------	------
- 43. Rear seats, type of seat and upholstery Bucket/Leather
- 44. Front bumper, material(s) Steel Weight 1.8 kg. 4.0 lbs.
- 45. Rear bumper, material(s) Steel Weight 6.84 kg. 15.1 lbs.

**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 Optional
- 62. Number of turns of steering wheel from lock to lock 2.5
- 63. In case of servo-assistance 2.5



Make Jaguar

4.2 Litre 'E' Type  
Model 2 + 2 Series 2

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

**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 1 master cylinder operating tandem slave cylinder

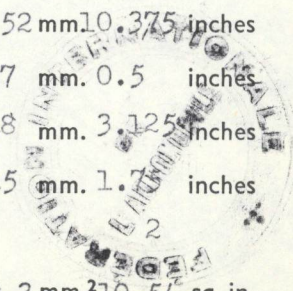
93. Number of cylinders per wheel	3	FRONT	2	REAR
94. Bore of wheel cylinder(s)	1 off	53.975 mm.	2.125 inches	42.86 mm.
	2 off	38.132 mm	1.5013"	1.6875 inches

**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. <sup>2</sup>	sq. in.	mm. <sup>2</sup>	sq. in.

**Disc Brakes**

100. Outside diameter	284.16	mm.	11.1875 inches	263.52 mm.	10.375 inches
101. Thickness of disc	12.7	mm.	0.5 inches	12.7 mm.	0.5 inches
102. Length of brake linings	95.25	mm.	3.75 inches	79.48 mm.	3.125 inches
103. Width of brake linings	50.8	mm.	2 inches	43.45 mm.	1.7 inches
104. Number of pads per brake			2		2
105. Total area per brake	8888.1	mm. <sup>2</sup>	13.78sq. in.	6798.3 mm. <sup>2</sup>	10.54 sq. in.



4.2 Litre 'E' Type  
2 + 2 Series 2

Make Jaguar

Model 4.2 Litre 'E' Type  
2 + 2 Series 2

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

**ENGINE** (photographs J and K)

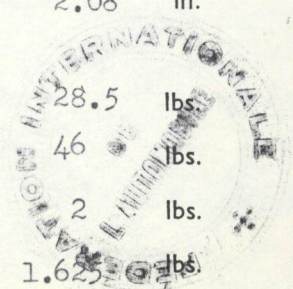
- 130. Cycle Otto
- 131. Number of cylinders 6
- 132. Cylinder Arrangement In Line
- 133. Bore 92.07 mm. 3.625 in.
- 134. Stroke 106 mm. 4.1732 in.
- 135. Capacity per cylinder 705.8 cm.<sup>3</sup> 43.07 cu. in.
- 136. Total cylinder capacity 4235 cm.<sup>3</sup> 258.43 cu. in.
- 137. Material(s) of 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 52.5 mm. 2.06 in.
- 147. Crankshaft: ~~moulded~~/stamped
- 148. Type of crankshaft: integral/.....
- 149. Number of crankshaft main bearings 7
- 150. Material of bearing cap Steel
- 151. System of lubrication: ~~dry sump~~/oil in sump
- 152. Capacity, lubricant 8.5 ltrs. 15 pts. 9 quarts U.S.
- 153. Oil cooler: ~~yes~~/no
- 154. Method of engine cooling Water
- 155. Capacity of cooling system 15.36 ltrs. 27 pts. 16.1 quarts U.S.
- 156. Cooling fan (if fitted) dia. 2 off 25.4 cm. 10 in.
- 157. Number of blades of cooling fan 4 per fan

**Bearings**

- 158. Crankshaft main, type Steel backed shell dia. 69.85 m.m. 2.75 in.
- 159. Connecting rod big end, type Steel backed shell dia. 52.98 m.m. 2.08 in.

**Weights**

- 160. Flywheel (clean) 12.93 kg. 28.5 lbs.
- 161. Flywheel with clutch (all turning parts) 20.78 kg. 46 lbs.
- 162. Crankshaft 28.5 kg. 62.78 lbs.
- 163. Connecting rod 0.9072 kg. 2 lbs.
- 164. Piston with rings and pin 0.737 kg. 1.625 lbs.





Make Jaguar Model 4.2 Litre 'E' Type  
2 + 2 Series 2 F.I.A. Rec. No. ....

**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 mm. 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.T.D.C.  
 189. Air filter, type paper element (AC)

**EXHAUST** (see page 4)\*

195. Material(s) of exhaust manifold Cast Iron  
 196. Diameter of valves 41.27 mm. 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 SU 213. Model HD.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 (example : SU)  
 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.



Make Jaguar

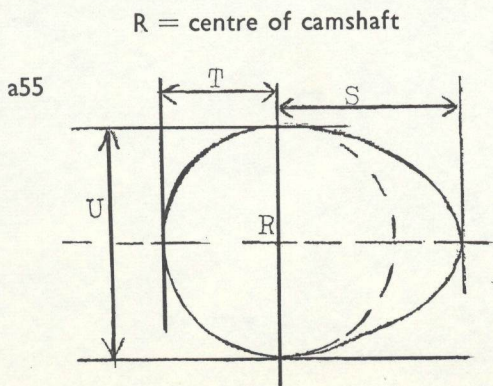
4.2 Litre 'E' Type  
Model 2 + 2 Series 2 F.I.A. Rec. No. ....

**ENGINE ACCESSORIES**

- 230. Fuel pump : mechanical and/or electrical 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 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: SAE BHP ) at 5400 r.p.m.
- 251. Max. r.p.m. 6000 output at that figure -
- 252. Max. torque 283 Pounds/feet at 4000 r.p.m.
- 253. Max. speed of the car 224(approx) km./hour 140 (approx) miles/hour

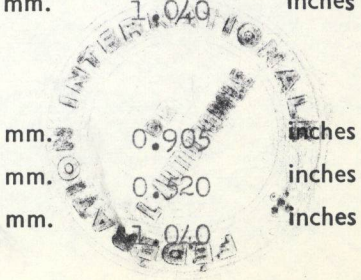


**Inlet cam**

- 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. 0.905 inches
- T = 13.22 mm. 0.520 inches
- U = 26.44 mm. 1.040 inches



**DRIVE TRAIN**

**CLUTCH**

260. Type of clutch Dry plate 261. No. of plates 1
262. Dia. of clutch plates 24.13 cm. 9.5 ins.
263. Dia. of linings, inside 16.2 cm. 6.315 ins.
- outside 24.13 cm. 9.5 ins.
264. Method of operating clutch Hydraulic

**GEAR BOX** (photograph H)

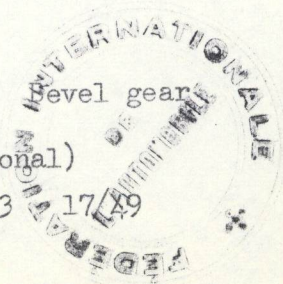
270. Manual type, make Jaguar Method of operation Hand change
271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 4
273. Location of gear-shift Floor
274. Automatic, make Borg Warner type Model 8
275. No. of forward ratios 3 276. Location of gear shift Floor

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	2.933	$\frac{28}{21} \times \frac{33}{15}$	2.40:1	-				
2	1.905	$\frac{28}{21} \times \frac{30}{21}$	1.46:1	-				
3	1.389	$\frac{28}{21} \times \frac{25}{24}$	1.00:1	-				
4	1.00:1	-						
5								
6								
reverse	3.378:1	$\frac{28}{21} \times \frac{38}{15}$	2.00:1					

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 Level gear
292. Type of limited slip differential (if fitted) Thornton Powr-Lok (optional)
293. Final drive ratio 3.31:1 2.88:1 Number of teeth 13/43 17/49



Make Jaguar Model 4.2 Litre 'E' Type F.I.A. Rec. No. ....  
2 + 2 Series 2

**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.

50. Wheels. Sculptured 6JK x 15
- |     |                    |             |   |                  |
|-----|--------------------|-------------|---|------------------|
| 2.  | 1300 mm/51.14 ins  | front track | } | Wire Wheel       |
| 3.  | 1300 mm/51.14 ins  | rear track  |   |                  |
| 51. | 11.14 kg/24.54 lbs | weight      | } | Sculptured Wheel |
| 54. | 139.7 mm" 5.50 ins | min. width  |   |                  |
| 2.  | 1277mm/50.28 ins   | front track | } | Sculptured Wheel |
| 3.  | 1280mm/50.4 ins    | rear track  |   |                  |
| 51. | 10.43 kg/23.0 lbs  | weight      | } | Sculptured Wheel |
| 54. | 152.4 mm/6.00 ins  | min width   |   |                  |
293. Final Drive 3.54: 1 13/46  
 3.77:1 13/49  
 4.09:1 11/45

