Total Number of Sheets....13

F.I.A. Recognition No. 1629

Group 2

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 3528 cm.³ 215 in.³

Manufacturer Rover — Model Range Rover

Serial No. of chassis/body 35500000 — Manufacturer Rover

Serial No. of engine 35500000 — Manufacturer Rover

Recognition is valid from 1 January 1972 — List 72/1

The manufacturing of the model described in this recognition form started on 1 August 1969 and the minimum production of 2942 identical cars, in accordance with the specifications of this form was reached on 30 October 1971

Photograph A, ¾ view of car from front

F.I.A. Stamp

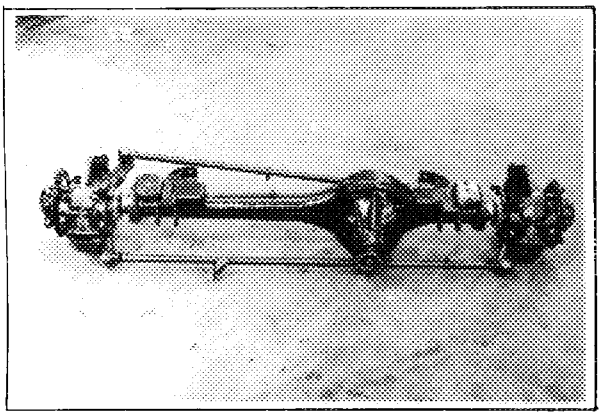
R.A.C. Stamp

1629

B

C

D



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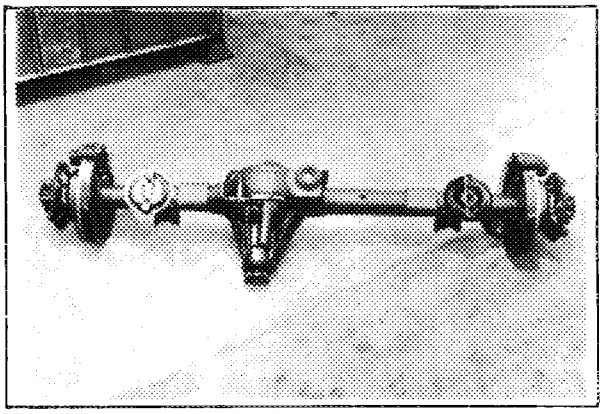

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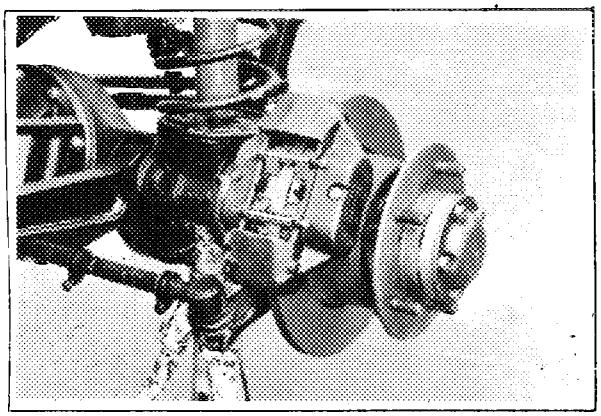

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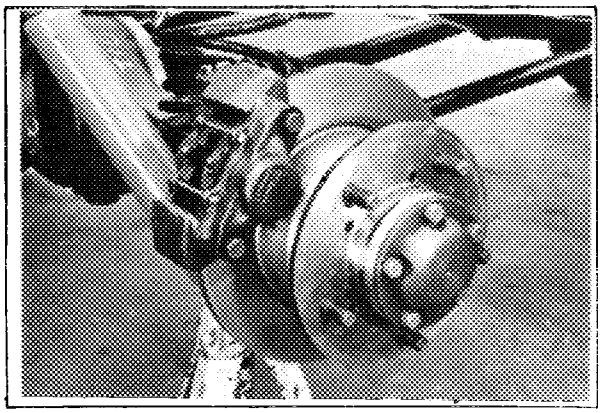

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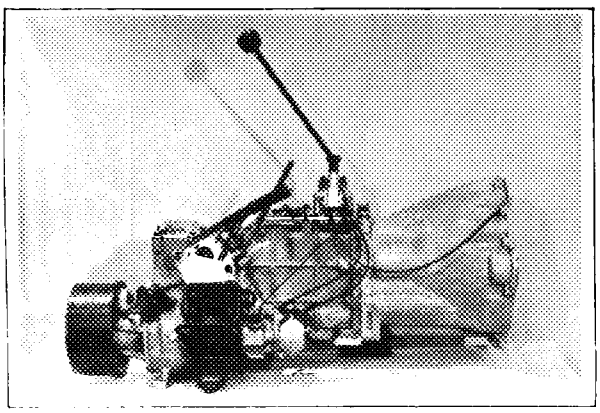

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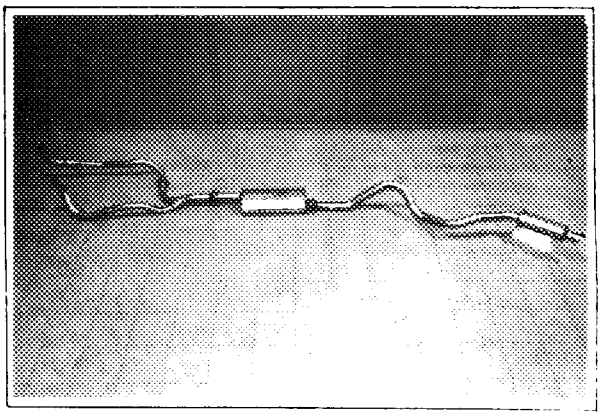
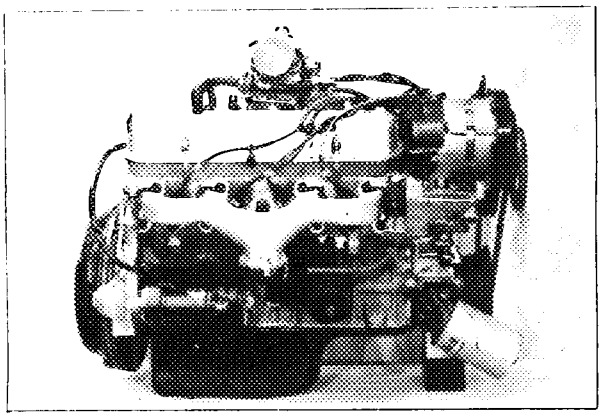


1629

J



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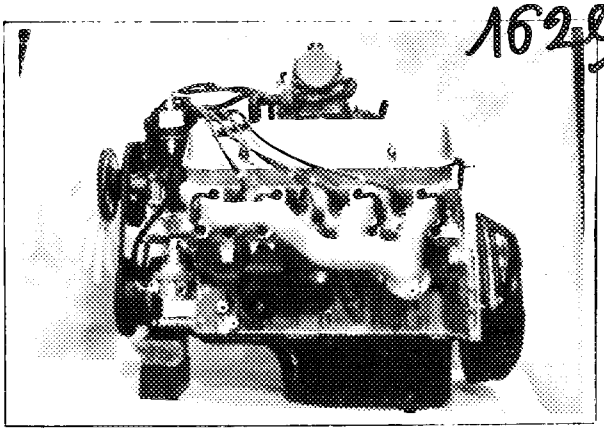

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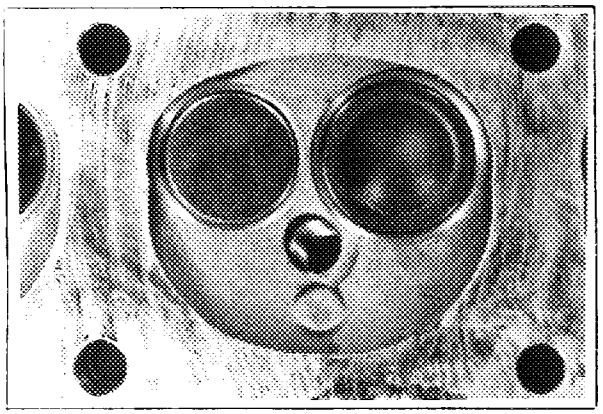

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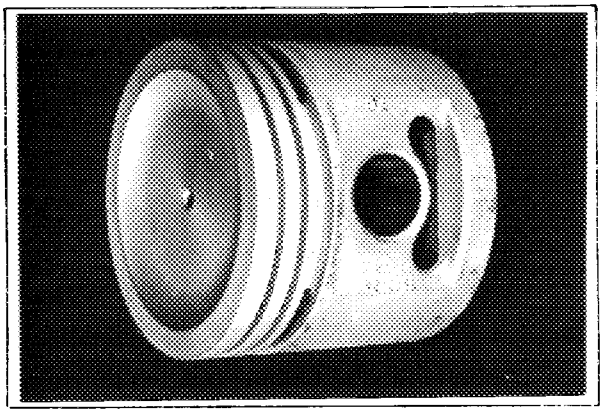

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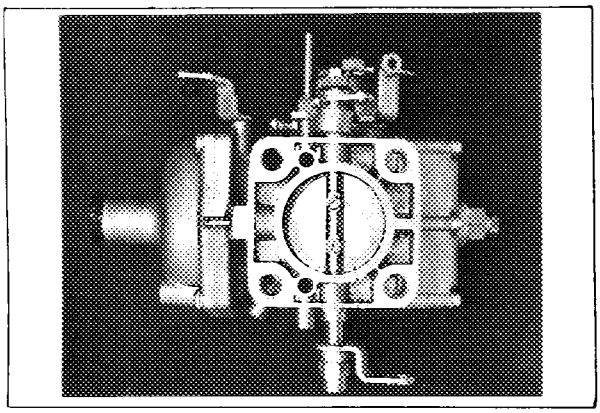

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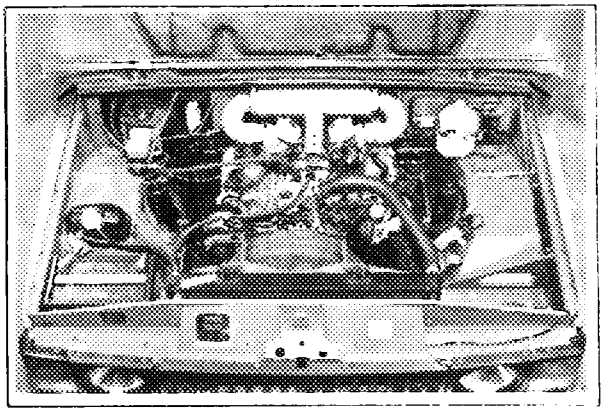

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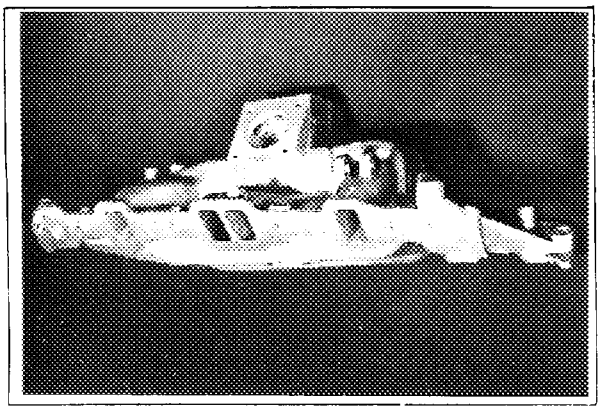

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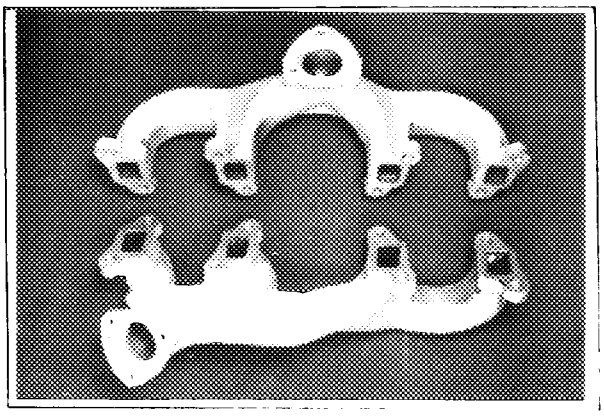
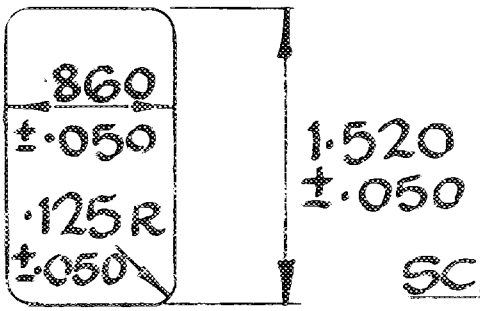


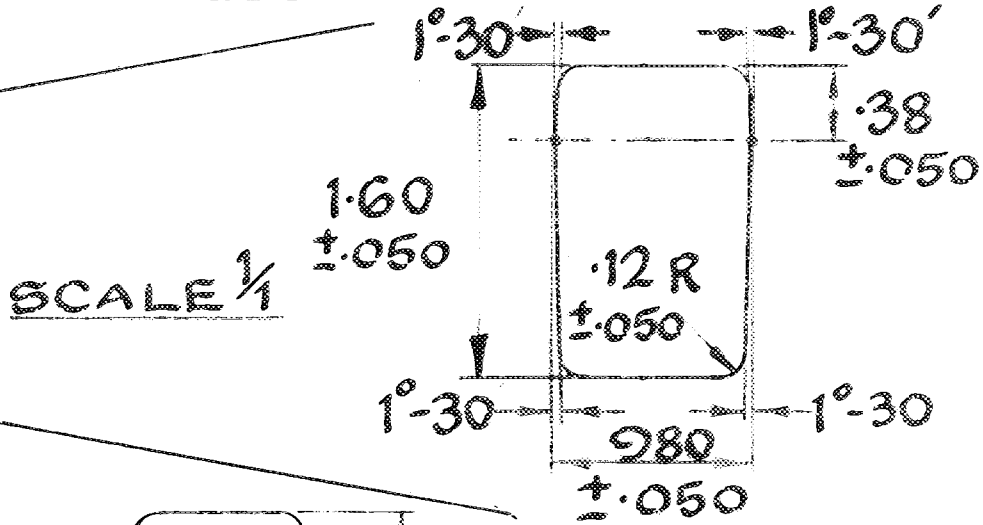
Make ROVER Model RANGE ROVER F.I.A. Rec. No. N29

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



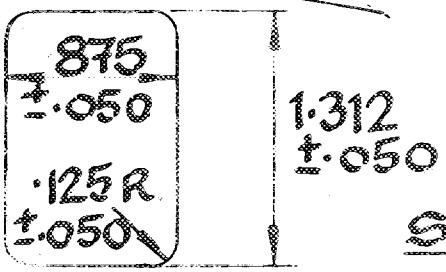
SCALE 1/1.

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



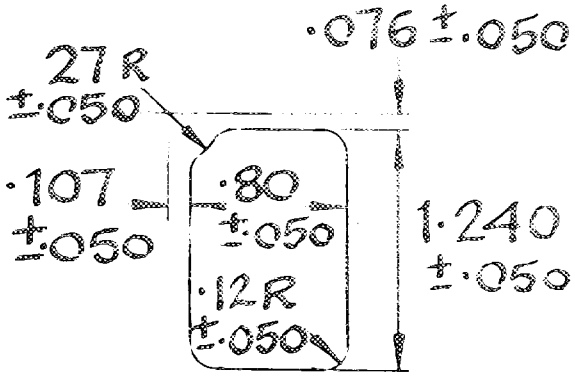
SCALE 1/1

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



SCALE 1/1

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



SCALE 1/1

ALL DIMENSIONS IN INCHES

THE ROVER Co LTD
9-12-70

TWO PORTS PER HEAD ARE AS DRAWN TWO ARE OPPOSITE HAND

Make Rover Model Range Rover F.I.A. Rec. No. 1629

NOTE 1.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase 2540 mm. 100 inches

2. Front track 1486 mm. 58.5 inches

Beam axle
No alt. in track
even with 15" wheels
See Note 2

3. Rear track 1486 mm. 58.5 inches

Beam axle
No alt. in track
even with 15" wheels
See Note 2

4. Overall length of the car 447.0 cm. 176 inches

5. Overall width of the car 177.8 cm. 70 inches

6. Overall height of the car 177.8 cm. 70 inches

7. Capacity of fuel tank (reserve included)
76 ltrs. 20 gall. U.S. 16.7 gall. Imp.

8. Seating Capacity. Five

9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools : (Minimum)
1700 kg. 3740 lbs. 33.4 cwts.
5a & b = 167.5 cm (width at vertical of wheel axles) (Maximum)

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 Rover Model Range Rover F.I.A. Rec. No. 1629

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction: separate/unitary construction Separate
21. Unitary construction, material(s)
22. Separate construction, Material(s) of chass~~is~~ Steel
23. Material(s) of coachwork Steel Framework, Steel and Aluminium Cladding, Aluminium roof.
24. Number of doors 2 Material(s) Steel Frame, Aluminium Cladding.
25. Material(s) of bonnet Aluminium and Steel Optional
26. Material(s) of ~~boot-lid~~ Tailgate - Steel Frame and Cladding
27. Material(s) of rear-window Glass in Steel Frame
28. Material(s) of windscreen Toughened or Laminated Glass in Steel Frame
29. Material(s) of front-door windows Glass
30. Material(s) of rear-door windows
31. Sliding system of door windows Mechanical Wind
32. Material(s) of rear-quarter light Glass

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes — no Yes
39. Air conditioning : yes — no Yes
40. Ventilation : yes — no Yes
41. Front seats, type of seat and upholstery Safety Seats PVC Vac Formed
42. Weight of front seat(s), complete with supports and rails, out of the car : 34 kg. 75 lbs.
43. Rear seats, type of seat and upholstery
44. Front bumper, material(s) Steel Weight 7.75 kg. 17 lbs.
45. Rear bumper, material(s) Steel Weight 9.1 kg. 20 lbs.

WHEELS

50. Type 205 x 16 Rostyle Steel
51. Weight (per wheel, without tyre) 13.2 kg. 29 lbs.
52. Method of attachment 5 Studs
53. Rim diameter 406 mm. 16 ins. 54. Rim width 152 mm. 6 ins.

STEERING

60. Type Burman re-circulating ball worm and nut 18.2:1 straight ahead
61. Servo-assistance : yes — no Optional extra
62. Number of turns of steering wheel from lock to lock 3.75
63. In case of servo-assistance

Make Rover Model Range Rover F.I.A. Rec. No. 1629

SUSPENSION

70. Front suspension (photograph D), type Beam Axle, Coil Springs and Radius Arms
71. Type of spring Coil
72. Stabiliser (if fitted) Panhard Rod and Radius Arms
73. Number of shock absorbers 2 74. Type Hydraulic, Telescopic Double Acting
78. Rear suspension (photograph E), type Beam Axle, Coil Springs, Raduis Arms, 'A' Frame with Hydromat Self Levelling Device
79. Type of spring Coil
80. Stabiliser (if fitted) 'A' Frame and Radius Arms
81. Number of shock absorbers 2 82. Type Hydraulic, Telescopic Double Acting

BRAKES (photographs F and G)

90. Method of operation Hydraulic - Discs All Round - Separate Drum Brake on Transmission
91. Servo-assistance (if fitted), type Lockheed Mechanical with Integral Tandem Master Cylinder
92. Number of hydraulic master cylinders One Integral Tandem

		FRONT 2 pairs			REAR 1 pair		
93. Number of cylinders per wheel							
94. Bore of wheel cylinder(s)	41.5	mm.	1.625	inches	41.5	mm.	1.625 inches
Drum Brakes Transmission							
95. Inside diameter	184	mm.	7.25	inches		mm.	inches
96. Length of brake linings		mm.		inches		mm.	inches
97. Width of brake linings	76	mm.	3	inches		mm.	inches
98. Number of shoes per brake Two							
99. Total area per brake		mm.²		sq. in.		mm.²	sq. in.
Disc Brakes							
100. Outside diameter	298	mm.	11.75	inches	290	mm.	11.42 inches
101. Thickness of disc	12.7	mm.	0.5	inches	12.7	mm.	0.5 inches
102. Length of brake linings	99	mm.	3.85	inches	86	mm.	3.38 inches
103. Width of brake linings	53	mm.	2.27	inches	49	mm.	1.97 inches
104. Number of pads per brake Two					Two		
105. Total area per brake		mm.²	126.5	sq. in.		mm.²	111.5 sq. in.

Make Rover Model Range Rover F.I.A. Rec. No. 1629

ENGINE (photographs J and K)

130. Cycle Four Stroke
131. Number of cylinders 8
132. Cylinder Arrangement 90° Vee
133. Bore 88.9 mm. 3.5 in.
134. Stroke 71.1 mm. 2.8 in.
135. Capacity per cylinder 441 cm.³ 26.875 cu. in.
136. Total cylinder capacity 3528 cm.³ 215 cu. in.
137. Material(s) of cylinder block Alu. Alloy
138. Material(s) of sleeves (if fitted) Cast Iron
139. Cylinder head, material(s) Alu. Alloy
Number fitted Two
140. Number of inlet ports Eight
141. Number of exhaust ports Eight
142. Compression ratio 8.5:1
143. Volume of one combustion chamber 34.09 cm.³ 2.0754 cu. in.
144. Piston, material Aluminium Alloy
145. Number of rings Three
146. Distance from gudgeon pin centre line to highest point of piston crown 47.24 mm. 1.860 in.
147. Crankshaft : moulded/stamped Moulded
148. Type of crankshaft: integral/ Yes
149. Number of crankshaft main bearings Five
150. Material of bearing cap Cast Iron
151. System of lubrication : dry sump/oil in sump Oil in Sump
152. Capacity, lubricant 5.68 ltrs. 10 pts. 6 quarts U.S.
153. Oil cooler : yes/no No
154. Method of engine cooling Liquid Coolant
155. Capacity of cooling system 11 ltrs. 20 pts. 12 quarts U.S.
156. Cooling fan (if fitted) dia. 40.6 cm. 16 in.
157 Number of blades of cooling fan Five Blades

Bearings

158. Crankshaft main, type Lead-Bronze-Indium dia. 76.2 m.m. 2.9997 in.
159. Connecting rod big end, type Lead-Bronze-Indium dia. 50.8 m.m. 2.0005 in.

Weights

160. Flywheel (clean) 15.9 kg. 35 lbs.
161. Flywheel with clutch (all turning parts) 27.3 kg. 60 lbs.
162. Crankshaft 17.6 kg. 38.75 lbs.
163. Connecting rod .485 kg. 1.065 lbs.
164. Piston with rings and pin .568 kg. 1.25 lbs.

Make Rover Model Range Rover F.I.A. Rec. No. 1629

FOUR STROKE ENGINES

170. Number of camshafts: One
171. Location: In Vee of Cylinder Block
172. Type of camshaft drive: Chain
173. Type of valve operation: Hydraulic Tappet and Pushrod

INLET (see page 4)*

180. Material(s) of inlet manifold: Aluminium Alloy
181. Diameter of valves: 38.10 mm. 1.50 ins.
182. Max. valve lift: mm. 0.39 in.
183. Number of valve springs: 16 (Two per Valve)
184. Type of spring: Coil
185. Number of valves per cylinder: One
186. Tappet clearance for checking timing (cold/warm): Self Adj. Tappets mm. ins.
187. Valves open at (with tolerance for tappet clearance indicated): 30° B.T.D.C.
188. Valves close at (with tolerance for tappet clearance indicated): 75° A.B.D.C.
189. Air filter, type: Paper Element

EXHAUST (see page 4)*

195. Material(s) of exhaust manifold: Cast Iron
196. Diameter of valves: 33.40 mm. 1.315 ins.
197. Max. valve lift: 9.91 mm. 0.39 in.
198. Number of valve springs: 16 (Two per Valve)
199. Type of spring: Coil
200. Number of valves per cylinder: One
201. Tappet clearance for checking timing (cold/warm): Self Adj. Tappets mm. ins.
202. Valves open at (with tolerance for tappet clearance indicated): 68° BBDC
203. Valves close at (with tolerance for tappet clearance indicated): 37° ATDC
204. Diameter outlet orifice exhaust manifold: 38.1 mm. 1.50 ins.

CARBURETION (photograph N)

210. Number of carburettors fitted: Two
211. Type: Variable Choke
212. Make: Zenith/Stromberg
213. Model: CD2
214. Number of mixture passages per carburettor: One
215. Flange hole diameter of exit port(s) of carburettor: 44.5 mm. 1.75 ins.
216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU): 32 mm. 1.30 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 Rover Model Range Rover F.I.A. Rec. No. 1629

ENGINE ACCESSORIES

230. Fuel pump : mechanical and/or electrical Mechanical

231. No. fitted One

232. Type of ignition system Ballasted Coil

233. No. of distributors One

234. No. of ignition coils One

235. No. of spark plugs per cylinder One

236. Generator, type : dynamo/alternator—number fitted One Alternator Lucas 16 ACR

237. Method of drive Belt

238. Voltage of generator 12 volts

239. Battery, number One

240. Location Off-side Front Wing

241. Voltage of battery 12 volts

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

250. Max. engine output 156 (type of horsepower: Gross) at 5000 r.p.m.

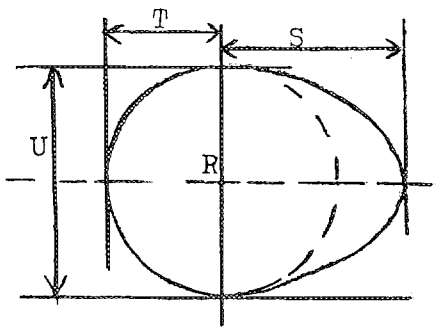
251. Max. r.p.m. 5200 output at that figure 157 BHP

252. Max. torque 205 lb/ft at 3000 r.p.m.

253. Max. speed of the car 154.5 km./hour 96 miles/hour

R = centre of camshaft

a55



Inlet cam

			+0.01"	
S =	20.128	mm.	0.7925	inches
T =	13.761	mm.	0.5418	inches
U =	27.521	mm.	1.0835	inches

Exhaust cam

			+0.01"	
S =	20.128	mm.	0.7925	inches
T =	13.761	mm.	0.5418	inches
U =	27.521	mm.	1.0835	inches

Make Rover Model Range Rover F.I.A. Rec. No. 1629

DRIVE TRAIN

CLUTCH

260. Type of clutch Diaphragm Spring Dry 261. No. of plates One

262. Dia. of clutch plates 26.7 cm. 10.5 ins.

263. Dia. of linings, inside 17.1 cm. 6.75 ins.

outside 26.7 cm. 10.5 ins.

264. Method of operating clutch Hydraulic Hydrostatic Operation

GEAR BOX (photograph H)

270. Manual type, make Rover Method of operation Direct Operated Lever

271. No. of gear-box ratios forward Eight 272. Synchronized forward ratios All

273. Location of gear-shift On Gearbox

274. Automatic, make 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	Ratio	No. teeth
	GEARBOX	RATIO	OVERALL	RATIO				
1	4.07:1		High Transfer		Low Transfer			
2	2.45:1		1.	16.92:1	1.	47.83:1		
3	1.50:1		2.	10.17:1	2.	28.78:1		
4			3.	6.25:1	3.	17.68:1		
5			4.	4.16:1	4.	11.77:1		
6				15.23:1		43.07:1		
reverse	3.66:1							

278. Overdrive, type Transfer Box

279. Forward gears on which ~~overdrive~~ Transfer can be selected

280. Overdrive ratio

FINAL DRIVE

290. Type of final drive Beam Axle 291. Type of differential Spiral Bevel Gear

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

293. Final drive ratio 3.54:1 Number of teeth Crown Wheel 46T
Pinion 13T

Make Rover Model Range Rover F.I.A. Rec. No. 1629

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.

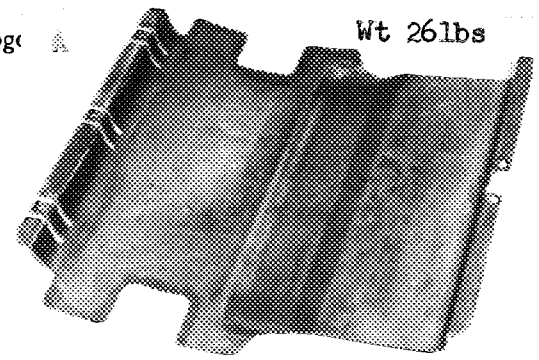
During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration : 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 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 tog

A Fuel tank guard, part number E92029
B Heated Rear Screen, part number 391376
C Power Assisted Steering L/H E92782 R/H 92781
D Towing Attachment E77772
E Full Flow Oil Cooler E92815
F Electric Fuel Pump, part number 594556
G 15 inch Rostyle Wheel, 6JK Rim, part number E92001



Tolerances

1. Mechanical machining (except bore and stroke). Points No 156, 158, 159, 181, 196, 215, 225. Inlet and exhaust parts (if machined) 262, 263. ..... ± 0.2%
2. Point No 146 (distance between gudgeon pin and piston crown. ..... ± 0.5%
3. Castings ..... + 0.4% − 0.2%
4. Weight of mechanical parts (Points 160, 161, 162, 163, 164) ..... + 0.7% − 0.3%
5. Wheelbase (Point 1) ..... ± 0.5%