

F.I.A. Recognition No. 1517

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

Manufacturer <u>Rover Company Limited</u>	Cylinder-capacity <u>3531</u> cm. ³ <u>215.5</u> in. ³
Serial No. of chassis/body <u>84000001</u>	Model <u>3.5 litre</u>
Serial No. of engine <u>84000001</u>	Manufacturer <u>Rover Co. Ltd.</u>
Recognition is valid from <u>1st March 1968</u>	Manufacturer <u>Rover Co. Ltd.</u>
	List <u>1968/4</u>

The manufacturing of the model described in this recognition form started on 31st July 1967 1967
and the minimum production of 1000 identical cars, in accordance with the specifications of
this form was reached on 17th January 1968

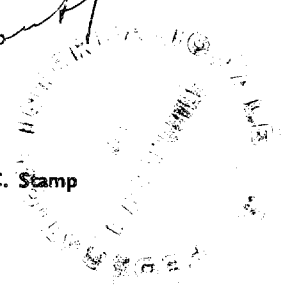
Photograph A, ¾ view of car from front



F.I.A. Stamp

Handwritten signature

R.A.C. Stamp

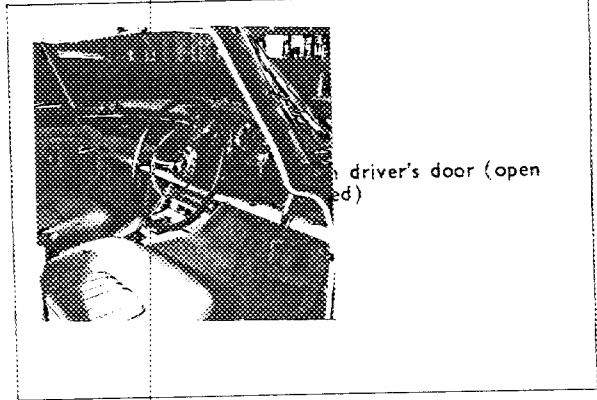
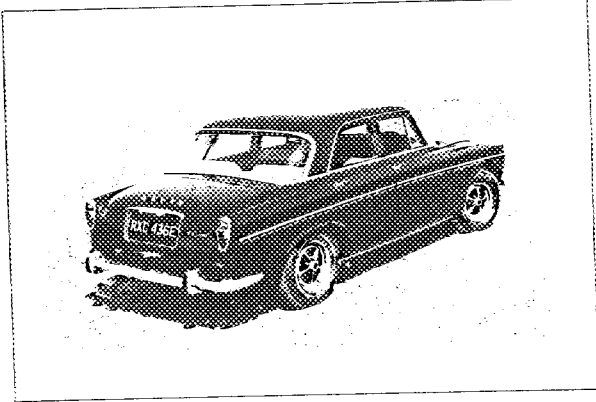


Make: Rover

Model: 3.5 Litre

F.I.A. Rec. no:

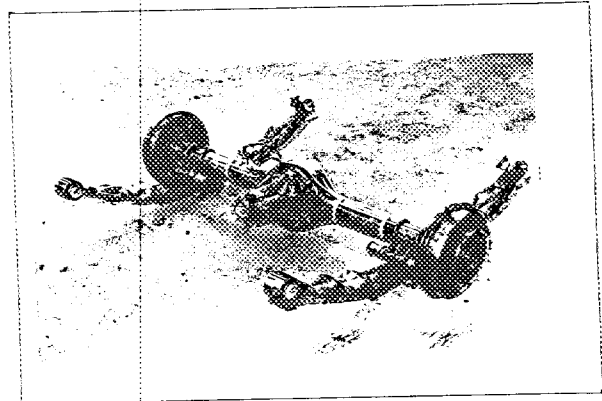
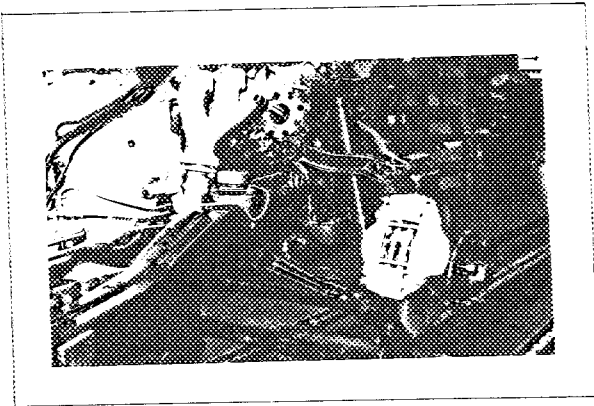
B



driver's door (open ed)

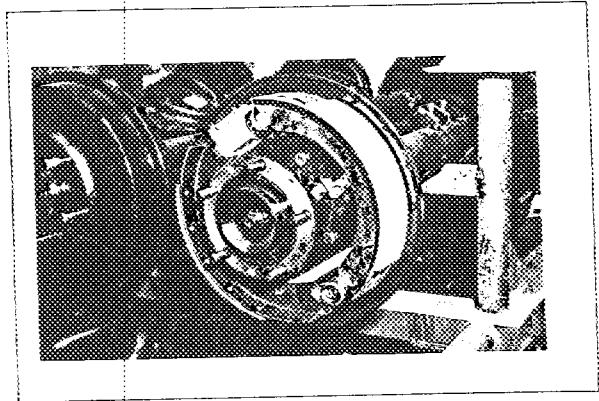
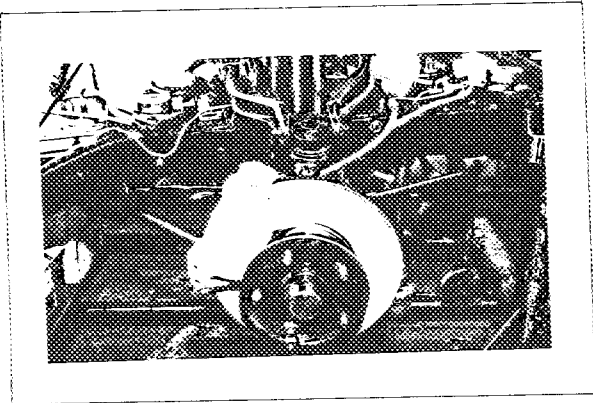
C

D



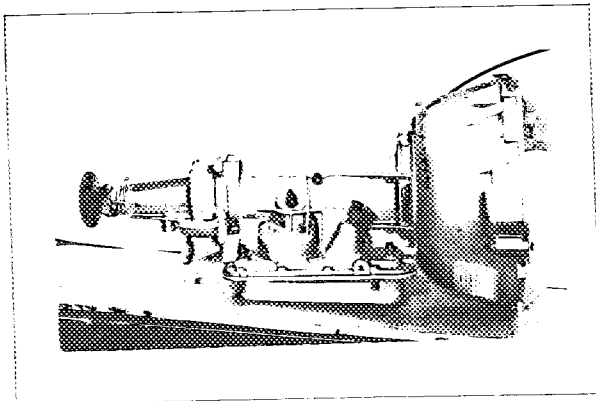
E

F



G

H



silencer + exhaust pipes after

manifold

I

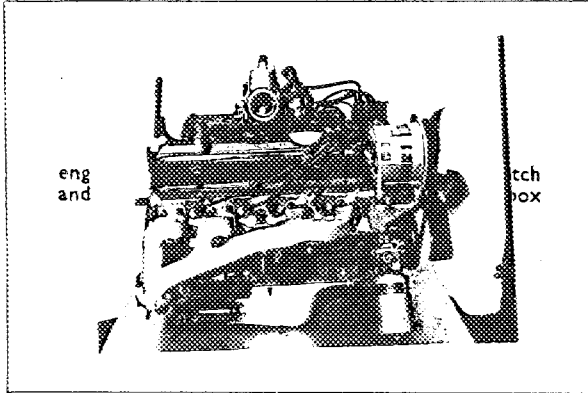
Make: Rover

Model: 3.0 litre

F.I.A. Rec. no:

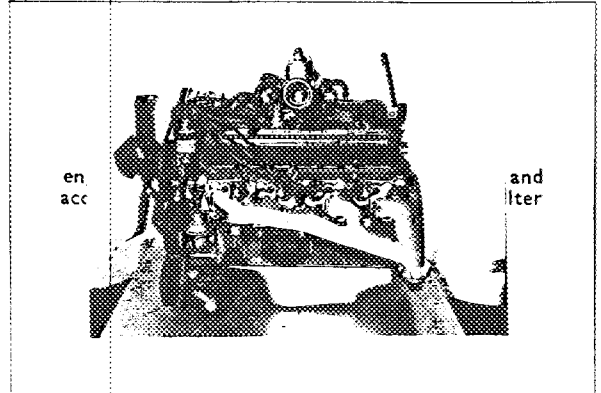
J

eng
and



clutch
box

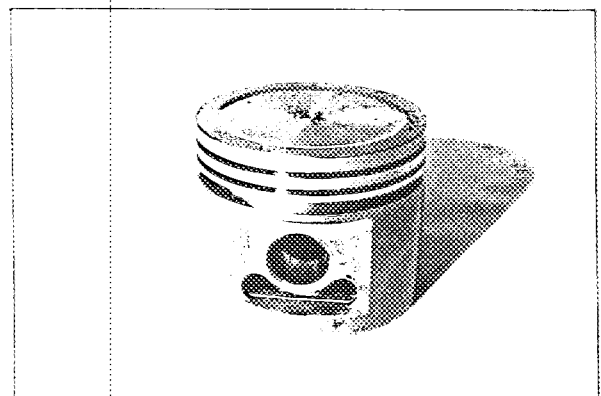
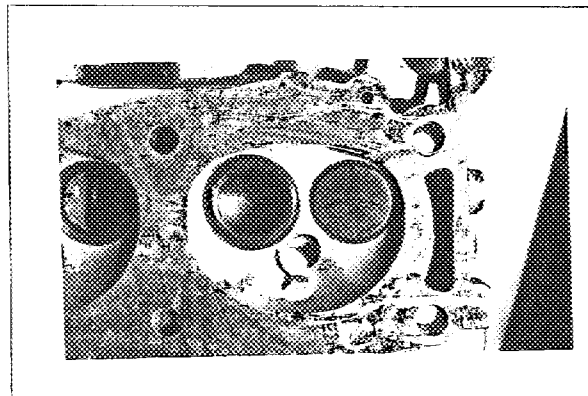
en
acc



and
filter

K

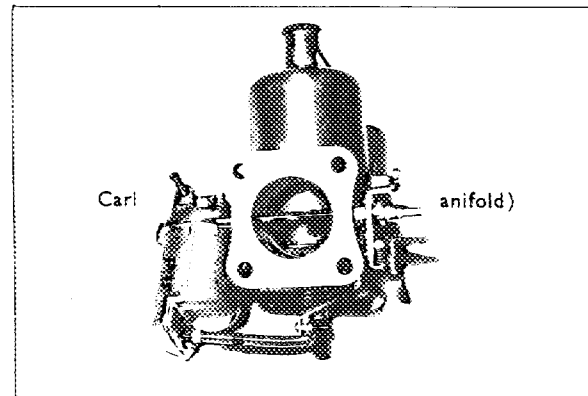
L



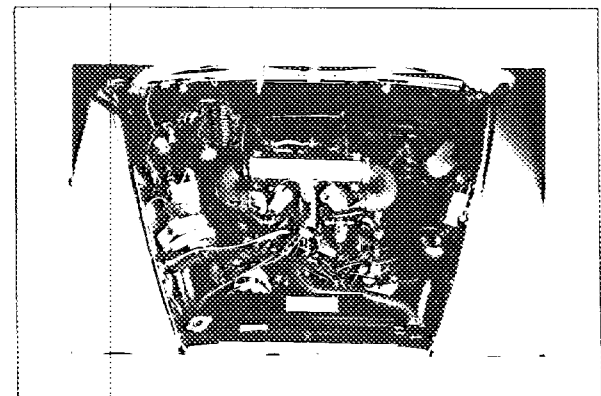
M

N

Carb

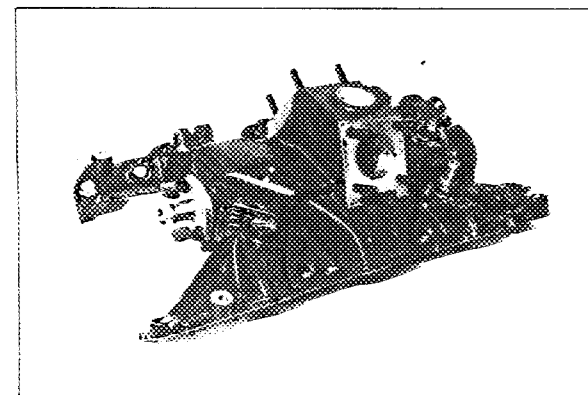


manifold)



O

P



exhaust manifold

Q

Make DAVEY

Model 3.5 LITRE

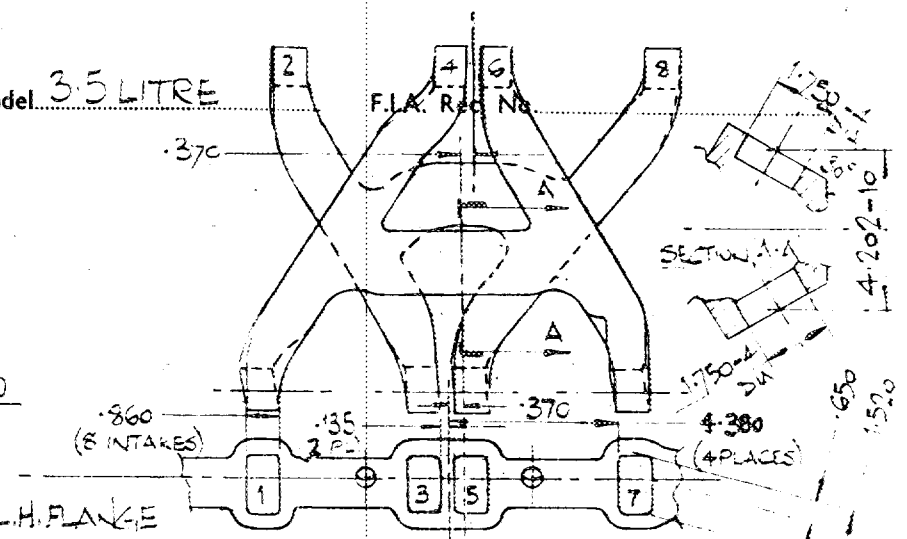
F.L.A. Ref No

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

GENERAL TOLERANCE - ± 0.060
UNLESS SPECIFIED

SCALE 1:5

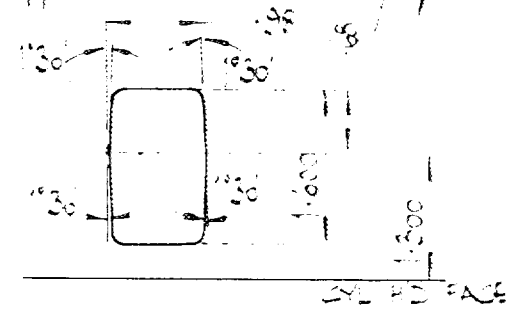
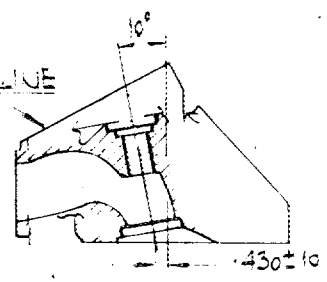
L.H. FLANGE



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

GENERAL OUTLINE

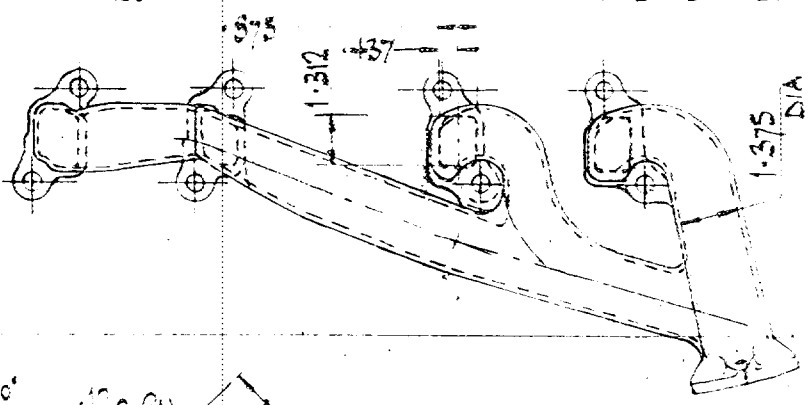
GENERAL TOL. ± 0.060
SCALE 1:5 & 1:2



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

L.H. DRAWN

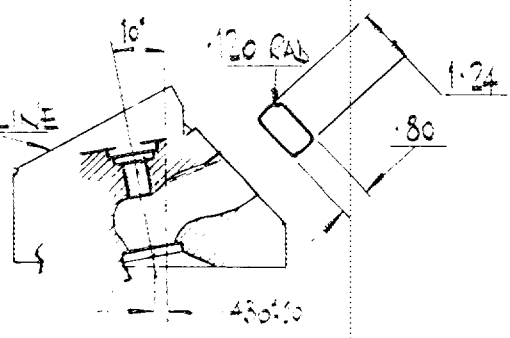
SYMMETRICAL OPPOSITE
GEN. TOL. ± 0.06 OF TRUE FORM.
SCALE 1:5



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

GENERAL OUTLINE

GENERAL TOL. ± 0.060
SCALE 1:5



Make Rover

Model 3.5 litre

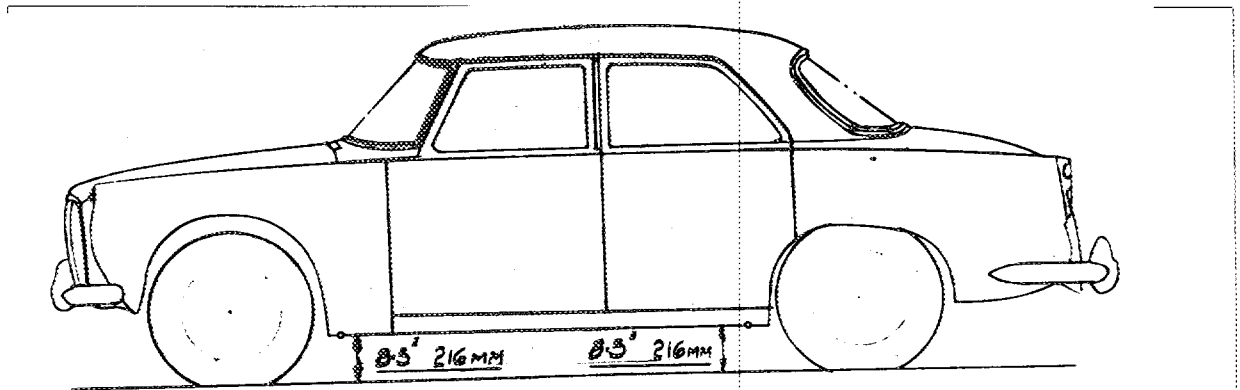
F.I.A. Rec. No. _____

NOTE 1.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase	2810	mm.	110.5	inches
2. Front track	1428	mm.	56.2	inches
3. Rear track	1440	mm.	56.9	inches



4. Overall length of the car	475	cm.	187	inches
5. Overall width of the car	179	cm.	70.5	inches
6. Overall height of the car	155	cm.	61	inches
7. Capacity of fuel tank (reserve included)	63.5	ltrs.	16.8	gall. U.S.
			14	gall. Imp.
8. Seating Capacity.	Four			
9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools :	1570	kg.	3458	lbs.
			30.9	cwts.

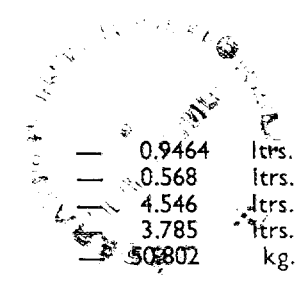
NOTE 2.

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.



Make Rover

Model 3.5 litre

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) —
- 22. Separate construction, Material(s) of chassis Welded steel
- 23. Material(s) of coachwork Steel
- 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 Glass
- 28. Material(s) of windscreen Glass, laminated or toughened.
- 29. Material(s) of front-door windows Glass
- 30. Material(s) of rear-door windows Glass
- 31. Sliding system of door windows Mechanical wind
- 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 Individual, leather.
- 42. Weight of front seat(s), complete with supports and rails, out of the car :

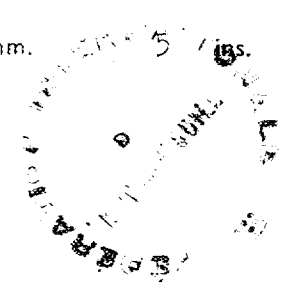
27.2 kg.	60 lbs.
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- 43. Rear seats, type of seat and upholstery Individual, leather
- 44. Front bumper, material(s) Steel Weight 14.8 kg. 32.5 lbs.
- 45. Rear bumper, material(s) Steel Weight 10.4 kg. 23 lbs.

WHEELS

- 50. Type Pressed steel and chromium plate
- 51. Weight (per wheel, without tyre) 9.2 kg. 20.25 lbs.
- 52. Method of attachment five studs
- 53. Rim diameter 381 mm. 15 ins. 54. Rim width 127 mm.

STEERING

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



SUSPENSION

- 70. Front suspension (photograph D), type Independent, transverse wishbones.
- 71. Type of spring Laminated torsion bar.
- 72. Stabiliser (if fitted) Anti-roll bar
- 73. Number of shock absorbers Two 74. Type Telescopic, hydraulic
- 78. Rear suspension (photograph E), type Rigid axle with leaf springs
- 79. Type of spring Semi-elliptic leaf spring.
- 80. Stabiliser (if fitted) None
- 81. Number of shock absorbers Two 82. Type Telescopic, hydraulic.

BRAKES (photographs F and G)

- 90. Method of operation Hydraulic
- 91. Servo-assistance (if fitted), type Lockheed type 7 unit
- 92. Number of hydraulic master cylinders One

		FRONT	One	REAR
93. Number of cylinders per wheel	Two			
94. Bore of wheel cylinder(s)	60.6	mm. 2.385 inches	22.2	mm. 0.875 inches

Drum Brakes

95. Inside diameter		mm. inches	279.4	mm. 11.0 inches
96. Length of brake linings		mm. inches	222.3	mm. 8.75 inches
97. Width of brake linings		mm. inches	57.2	mm. 2.25 inches
98. Number of shoes per brake			Two	
99. Total area per brake		mm. ² sq. in.	25419	mm. ² 39.4 sq. in.

Disc Brakes

100. Outside diameter	273	mm. 10.75 inches		mm. inches
101. Thickness of disc	12.7	mm. 0.5 inches		mm. inches
102. Length of brake linings	72.4	mm. 2.85 inches		mm. inches
103. Width of brake linings	60.3	mm. 2.375 inches		mm. inches
104. Number of pads per brake		Two		
105. Total area per brake	8774	mm. ² 13.6 sq. in.		mm. ² sq. in.

Make Rover Model 3.5 litre F.I.A. Rec. No. _____

ENGINE (photographs J and K)

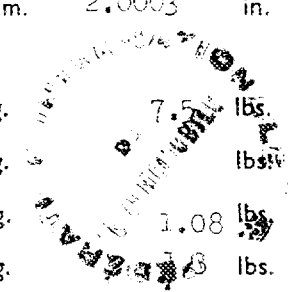
- | | | | |
|---|-----------------------------------|---|-------------------|
| 130. Cycle | Four stroke | 131. Number of cylinders | Eight |
| 132. Cylinder Arrangement | 90° V | | |
| 133. Bore | 88.9 mm. 3.50 in. | 134. Stroke | 71.1 mm. 2.80 in. |
| 135. Capacity per cylinder | | 441.4 cm. ³ | 26.72 cu. in. |
| 136. Total cylinder capacity | | 3531 cm. ³ | 215.5 cu. in. |
| 137. Material(s) of cylinder block | Aluminium alloy | 138. Material(s) of sleeves (if fitted) | Cast iron |
| 139. Cylinder head, material(s) | Aluminium alloy | Number fitted | Two |
| 140. Number of inlet ports | Eight | 141. Number of exhaust ports | Eight |
| 142. Compression ratio | 10.5 | | |
| 143. Volume of one combustion chamber | | 34.1 cm. ³ | 2.1 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 | | 47.295 mm. | 1.862 in. |
| 147. Crankshaft: moulded/ stamped | | 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 | | | |
| 152. Capacity, lubricant | 5.7 ltrs. 10 pts. 6.0 quarts U.S. | | |
| 153. Oil cooler: Yes /no | | 154. Method of engine cooling | Liquid coolant |
| 155. Capacity of cooling system | 9.1 ltrs. 16 pts. 9.6 quarts U.S. | | |
| 156. Cooling fan (if fitted) dia. | | 41.9 cm. | 16.5 in. |
| 157. Number of blades of cooling fan | Five | | |

Bearings

- | | | | | | | |
|-----------------------------------|--------------------|------|--------|------|--------|-----|
| 158. Crankshaft main, type | Lead-bronze-indium | dia. | 58.405 | m.m. | 2.2995 | in. |
| 159. Connecting rod big end, type | Lead-bronze-indium | dia. | 50.806 | m.m. | 2.0003 | in. |

Weights

- | | | | | |
|---|-----------------|-----|------|------|
| 160. Flywheel (clean) Driveplate with starter ring | 3.4 | kg. | 7.5 | lbs. |
| 161. Flywheel with clutch (all turning parts) | N/A (no clutch) | kg. | | lbs. |
| 162. Crankshaft | 17.5 | kg. | 38.5 | lbs. |
| 163. Connecting rod | 0.5 | kg. | 1.08 | lbs. |
| 164. Piston with rings and pin | 0.6 | kg. | 1.3 | lbs. |



Make Rover

Model 3.5 litre

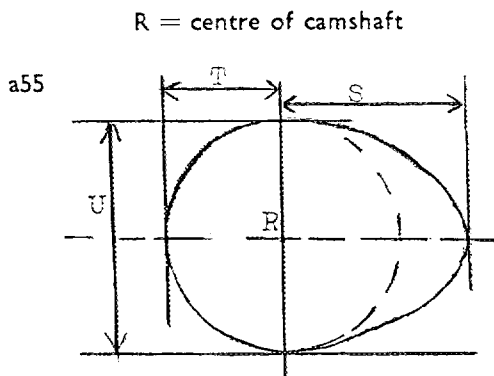
F.I.A. Rec. No. _____

ENGINE ACCESSORIES

- 230. Fuel pump : mechanical ~~and/or electrical~~
- 231. No. fitted One
- 232. Type of ignition system Coil (ballasted)
- 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
- 237. Method of drive Belt
- 238. Voltage of generator 12 volts
- 239. Battery, number One
- 240. Location In boot
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 184 bhp (type of horsepower: gross) at 5200 r.p.m.
- 251. Max. r.p.m. 5200 output at that figure 184 bhp (gross)
- 252. Max. torque 226 lbs. ft. at 3000 r.p.m.
- 253. Max. speed of the car 185 km./hour 115 miles/hour



Inlet cam

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

Exhaust cam

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

Make Rover Model 3.5 litre F.I.A. Rec. No. _____

DRIVE TRAIN

CLUTCH

260. Type of clutch Torque convertor 261. No. of plates ---
262. Dia. of clutch plates --- cm. ins.
263. Dia. of linings, inside --- cm. ins.
outside --- cm. ins.
264. Method of operating clutch ---

GEAR BOX (photograph H)

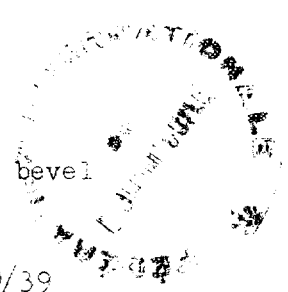
270. Manual type, make --- Method of operation
271. No. of gear-box ratios forward 272. Synchronized forward ratios
273. Location of gear-shift
274. Automatic, make Borg Warner type B.W. 35
275. No. of forward ratios Three 276. Location of gear shift Floor

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1			2.39:1		Primary sun (28 teeth), prim. planet (16), sec. planet (17) and ring gear (67).			
2			1.45:1		Prim. sun (28), sec. sun (32), prim. planet (16), sec. planet (17) and ring gear (67)			
3			1:1		Direct.			
4								
5								
6								
reverse			2.09:1		Sec. sun (32), sec. planet (17) and ring gear (67)			

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

FINAL DRIVE

290. Type of final drive Crownwheel & pinion. 291. Type of differential Spiral bevel
292. Type of limited slip differential (if fitted) ---
293. Final drive ratio 3.54 or 3.9:1 Number of teeth 13/46 Or 10/39



Make Rover Model 3.5 litre F.I.A. Rec. No. _____

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.

A. Front seat headrest, part number 385122.

B. Rear seat headrests, part number 384847/8.

C. Heated rear screen, part number 359158.

D. Heavy duty rear springs, part numbers: 538406 (spring)
538407 (auxiliary leaf)

Overall height (item 6) increased to 61.5 ins. (156 cms.) when these are fitted.

Normal manufacturer's tolerances for this model:

All machined surfaces	+ 0.75%
All non-machined surfaces	+ 2.0%
weights of part-machined components	+ 2.5%
weights of totally machined components	+ 1.25%



