

ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.I

Form of recognition in accordance with appendix J to the International Sporting Code of the FEDERATION INTERNATIONALE DE L'AUTOMOBILE

	Cylinder-capacity 3531 cm.3 215.5 in.3
Manufacturer Rover Company Limited	Model 3500
Serial No. of chassis/body 42000001	Manufacturer Rover Co. Ltd.
Serial No. of engine 4200001	Manufacturer Rover Co. Ltd.
Recognition is valid from lst Jake 1969	List 69/2
Recognition is valid from lst 1969 The manufacturing of the model described in this reco	gnition form started on 1st January 19 68
	identical cars, in accordance with the specifications of
this form was reached on 31st December 19 68	

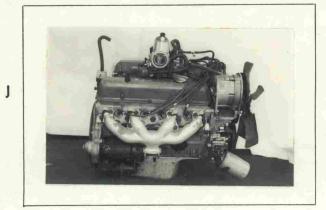
Photograph A, 4 view of car from front



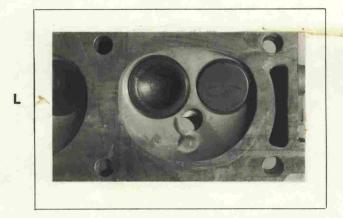
F.I.A. Stamp



R.A.C. Stamp



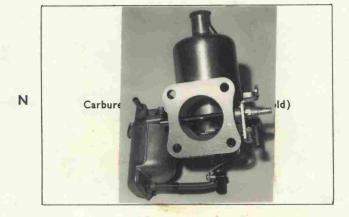




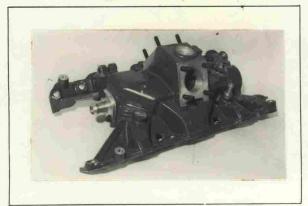


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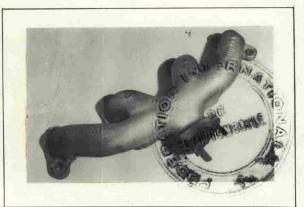
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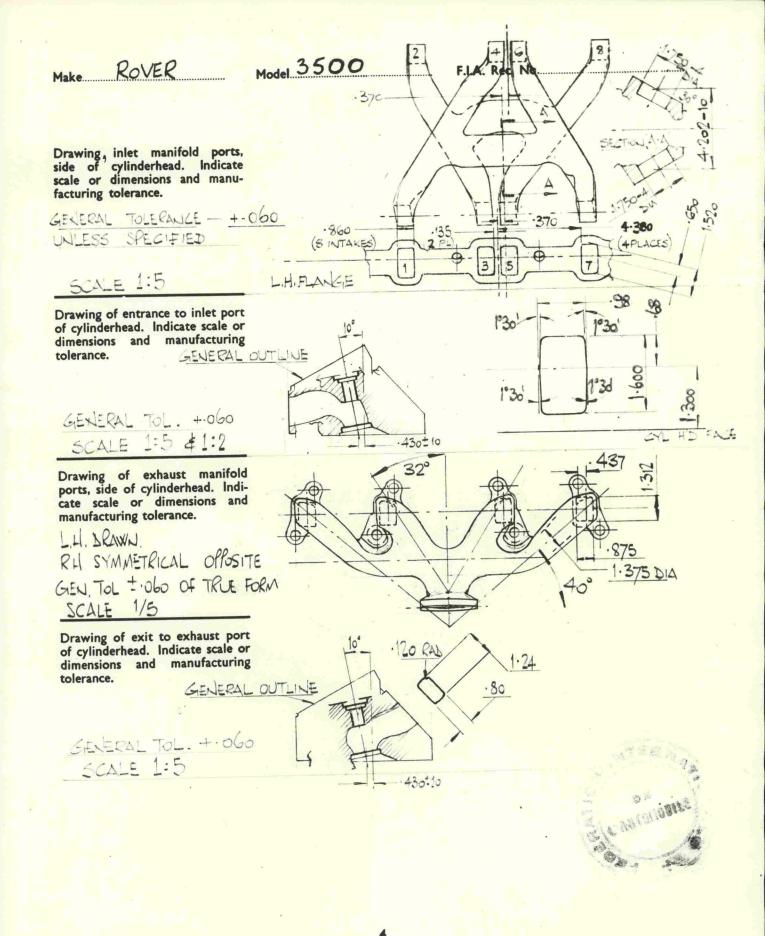


P



Exhaust Outlet Flange Cone diameter - 1.937+0.060

3



NOTE 1.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase

2630

nm. 103.375

inches

2. Front track

3. Rear track

1350

mm. 53.375

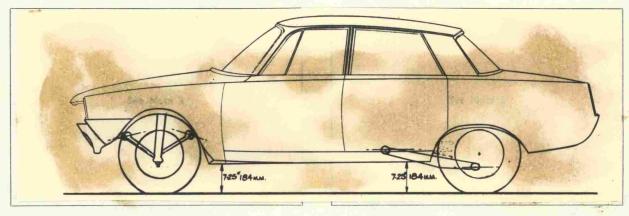
inches

1315

mm. 51.

51.75

inches



4.	Overall length of the car			457	cm.	179.75	inches
5.	Overall width of the car			168	cm.	66.0	inches
6.	Overall height of the car			142	cm.	55.75	inches
7.	Capacity of fuel tank (reserve included)						
	68	ltrs.	18	gall.	U.S.	15	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:

1279 kg.

2822

lbs.

25.2 cwts.

ltrs. ltrs. ltrs. ltrs. kg.

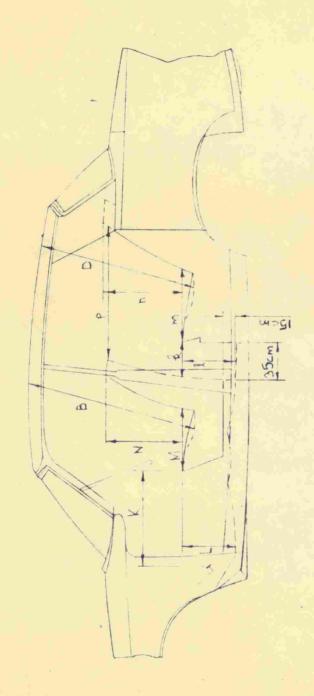
NOTE 2.

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

-						THE DESTRUCTION OF THE PARTY OF
- 1	inch/pouce	_	2.54	cm.	1 quart US	- 0.946
1	foot/pied		30.4794	cm.	l pint (pt)	0.568
-1	sq. inch/pouce carre	-	6.452	cm.2	l gallon lmp.	24
1	cubic inch/pouce cube	_	16.387	cm.3	1 gallon US	3.785
- 1	pound/livre (lb)		453.593	gr.	1 hundred weight (cwt.)	— 50.802



Cms.	37.4	28.2	76.4	34.22	168	
Σiā	اــ	×	α-	വ	a	
Cms.	50.5	25.4	42.6	48.8	38.8	40.8
D K	7	et .	\sum	٤	Z	C

3500 Model.

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

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction: reparate/unitary construction Steel base unit with bolt-on skin panels.
- 21. Xmatary construction, material(s) Welded steel.
- 22. Separate construction, Material(s) of chassis
- 23. Material(s) of coachwork Steel and aluminium alloy
- 24. Number of doors 4 Steel Material(s)
- 25. Material(s) of bonnet Aluminium alloy
- Aluminium alloy 26. Material(s) of boot lid
- 27. Material(s) of rear-window Glass
- 28. Material(s) of windscreen Laminated or toughened glass
- 29. Material(s) of front-door windows Glass 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 yes 39. Air conditioning: mess no
- 40. Ventilation : yes - cage 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:
 - 37 lbs.
- 43. Rear seats, type of seat and upholstery Individual, leather
- 44. Front bumper, material(s) Steel Weight 5.9 kg. 13 lbs.
- 45. Rear bumper, material(s) Weight Steel 5.5 kg. lbs. 12

WHEELS

- 50. Type Pressed steel
- 51. Weight (per wheel, without tyre) 7.5 kg. 16.5lbs.

356 mm.

52. Method of attachment Five studs

14 ins. 54. Rim width

STEERING

53. Rim diameter

- 60. Type Recirculating ball & nut.
- 61. Servo-assistance: Nyes no
- 62. Number of turns of steering wheel from lock to lock
- 63. In case of servo-assistance ___



SUSPENSION

- 70. Front suspension (photograph D), type Independent: transverse bottom links & leading top links acting on horizontal springs.
- 71. Type of spring Helical coil.
- 72. Stabiliser (if fitted) Clamped to top links.
- 73. Number of shock absorbers T_{wo}
- 74. Type Hydraulic, telescopic.
- 78. Rear suspension (photograph E), type De Dion type incorporating sliding joint and Watts
- 79. Type of spring Helical coil

linkage.

- 80. Stabiliser (if fitted) None.
- 81. Number of shock absorbers Two
- 82. Type Hydraulic, telescopic.

BRAKES (photographs F and G)

- 90. Method of operation Hydraulic.
- 91. Servo-assistance (if fitted), type Lockheed type 8 unit.
- 92. Number of hydraulic master cylinders One

93.	Number of cylinders per wheel	Three FRONT
94.	Bore of wheel cylinder(s)	57.2 (1) mm. 2.25 (1) 40.4 (2) mm. 1.59 (2)
	Drum Brakes	

95.	Inside diameter	mm.	inches
96.	Length of brake linings	mm.	inches
97.	Width of brake linings	mm.	inches
98.	Number of shoes per brake		

77.	Total area per brake		34. 111.
99	Total area per brake	mm. ²	sa. in.
98.	Number of shoes per brake		

Disc Brakes

100.	Outside	diameter

mm.	inches
mm.	inches
mm.	inches



33.3 mm. 1.31inches

Two

8691 mm.² 13.47 sq. in. | 7439 mm.² 11.53 sq. in.

ENGINE (pho	otographs]	and	K)
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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

26.72cu. 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 10.5:1

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: the sump.

152. Capacity, lubricant

5.7 Itrs.

10 pts.

6.0 quarts U.S.

153. Oil cooler : Types/no

154. Method of engine cooling Liquid coolant

155. Capacity of cooling system156. Cooling fan (if fitted) dia.

8.7 ltrs. 15.25 pts.

9.15 quarts U.S.

41.9 cm.

16.5 in.

157 Number of blades of cooling fan Five

17.5

Bearings

158. Crankshaft main, type Lead-bronze-indium. dia. 58.405

159. Connecting rod big end, type Lead-bronze-indium dia. 50.806

38.5

Weights

162. Crankshaft

160. xitwebeek (views) Driveplate with starter ring

3.4

kg. lbs.

161. Flywheel with clutch (all turning parts) \mathbb{N}/\mathbb{A} (no clutch)

kg.

ka

1.08 lbs.

lhs

164. Piston with rings and pin

0.6 kg.

1.3 lbs.

lbs. 163. Connecting rod 0.5

FOUR STROKE ENGINES

170. Number of camshafts One 171. Location 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.

0.39 in. 183. Number of valve springs Two per valve 182. Max. valve lift 9.91 mm.

184. Type of spring Coil 185. Number of valves per cylinder One

186. Tappet clearance for checking timing (cold) Self-adjusting tappetsmm.

ins.

30 B.T.D.C. 187. Valves open at (with tolerance for tappet clearance indicated)

75° A.B.D.C. 188. Valves close at (with tolerance for tappet clearance indicated)

189. Air filter, type Paper element.

EXHAUST (see page 4)*

Cast iron 195. Material(s) of exhaust manifold

196. Diameter of valves

33.40 mm. 1.315

198. Number of valve springs Two per valve 9.91 mm. 197. Max. valve lift 0.39 in.

Coil 199. Type of spring

200. Number of valves per cylinder One

201. Tappet clearance for checking timing (cold) Self-adjusting tappets. mm.

ins.

202. Valves open at (with tolerance for tappet clearance indicated)

203. Valves close at (with tolerance for tappet clearance indicated)

CARBURETION (photograph N)

210. Number of carburettors fitted Two 211. Type Constant vacuum

S.U. 212. Make

213. Model H.S.6.

214. Number of mixture passages per carburettor

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: 216.)

34.3 mm.

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 zandyow 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 190 km./hour 118 miles/hour

R = centre of camshaft

a55 T S

Inlet ca	m
----------	---

S = 20.128 mm. T = 13.761 mm. U = 27.521 mm.

Exhaust cam

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

cm.

ins.

DRIVE TRAIN

CLUTCH

261. No. of plates 260. Type of clutch -- (Torque convertor)

262. Dia. of clutch plates

ins. cm. 263. Dia. of linings, inside --

> cm. ins. outside

264. Method of operating clutch

GEAR BOX (photograph H)

Method of operation --270. Manual type, make

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

273. Location of gear-shift ___

B.W. 35 Borg Warner 274. Automatic, make type

Floor Three 276. Location of gear shift 275. No. of forward ratios

	Manual	Automatic Alternative manual/automatic				atic	
277.	Ratio No. teeth	Ratio	No. teeth	Ratio	No. teeth		No. teeth
1 2		2.39:1	Primary planet (Prim. su sec. pla	sun (28 17) and n (28), net (17)	teeth), pring gear sec. sun	im.plan (67). (32), pr gear (6	et (16), sec. pim. planet (1 7).
3			Direct.	T-4	1	74	
4					1		
5							
6							
reverse		2.09:1	Sec. sun	(32),	sec.planet	(17) ar	nd ring gear (

- 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 Bevel ge
- 292. Type of limited slip differential (if fitted) --
- 293. Final drive ratio 3.08 or 3.54:1

Number of teeth 14/43 or 11/39 **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				
					on				
					on				

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

- A. Tachometer, part number 568012.
- B. Front seat headrests, part number 367910.
- C. Heated rear screen, part number 376102.
- D. Alternative wheels: part number 565621.
 - 50. Type: 'Rostyle', pressed steel.
 - 51. Weight: 8.6 kg., 19 lbs.
 - 54. Rim width: 127 mm., 5 in.

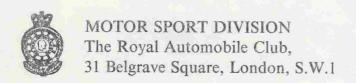
 There is no change in track when using these wheels.

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 fully machined components	+ 1.25%







Manufacturer Rover

Model 3500S

F.I.A. Recognition No. 5286

Amendment No. 1/11

Amendment to Form of Recognition (For 3500S a variant of 3500)

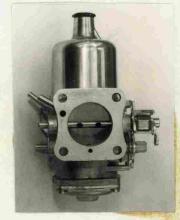
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

1

Carburetter change to model number HIF6.



2

3

Manual gearbox as per attached sheet.

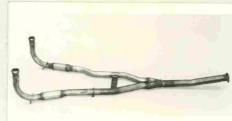
		Page Poor en	ber erogenten pue
	Ratio	No Teeth	Reverse
1	3.625	29 x 30 20 x 12	$3.430 \frac{29}{20} \times \frac{26}{11}$

 $2 2.133 \frac{29}{20} \times \frac{25}{17}$

3 1.391 $\frac{29}{20} \times \frac{24}{25}$ 4 1.000 Direct Exhaust down-pipe altered to suit manual gearbox.

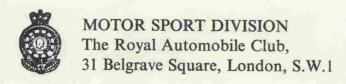
Diameter of exhaust manifold outlet - Maximum 1.78"





A

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



Manufacturer ROVER

Model 3500S

F.I.A. Recognition No. 5286

Amendment No. 2/15

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

2 1 1

Reference No.

EVOLUTION GROUP 1

Change of Instrument Panel.



Change of Bonnet and Grill.



Date amendment is valid from.....

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