

F.I.A. Recognition No. 5186
 Group 1 - Series - Production
Touring



ROYAL AUTOMOBILE CLUB
31, Belgrave Square, London, S.W.1

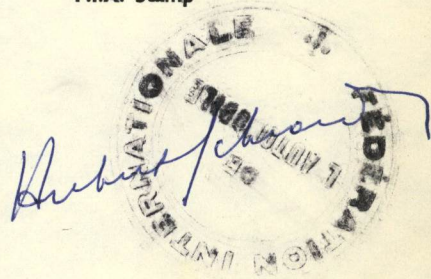
Form of recognition in accordance with appendix J to the International Sporting Code of the
 FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Manufacturer VAUXHALL MOTORS LIMITED Cylinder-capacity 1975 cm.³ 120.5 in.³
 Model VICTOR 2000 '68
 Serial No. of chassis/body 945698V100001 Manufacturer VAUXHALL
 Serial No. of engine 3000001 Manufacturer VAUXHALL
 Recognition is valid from 1st Jan. 1968 List 1968/1
 The manufacturing of the model described in this recognition form started on 1st SEPTEMBER 19 67
 and the minimum production of 5,000 identical cars, in accordance with the specifications of
 this form was reached on 28th NOVEMBER 19 67.

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



F.I.A. Stamp

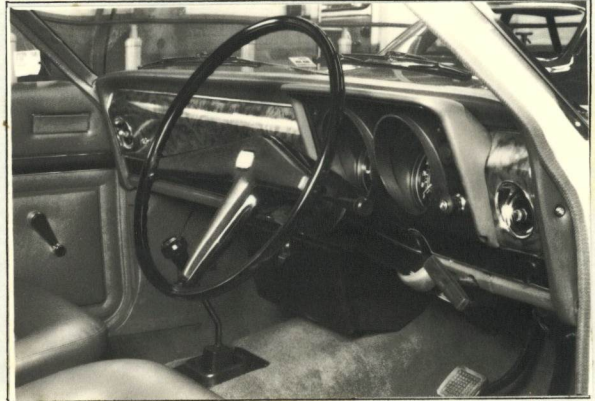


R.A.C. Stamp

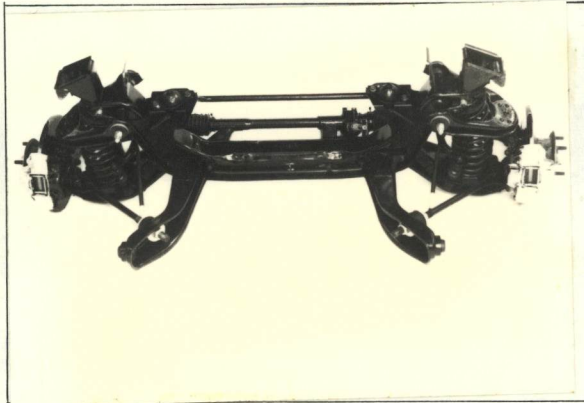
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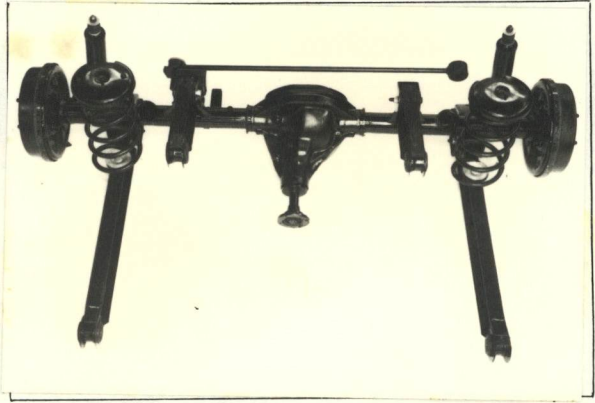
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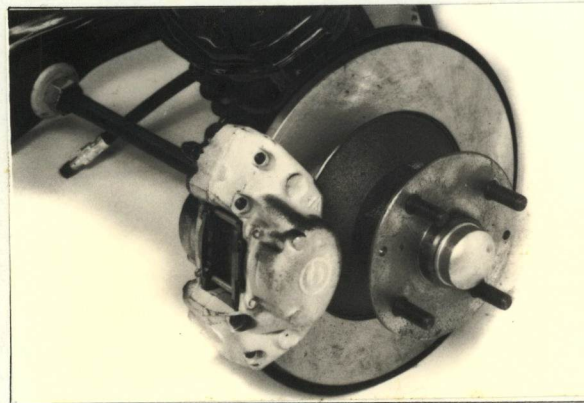
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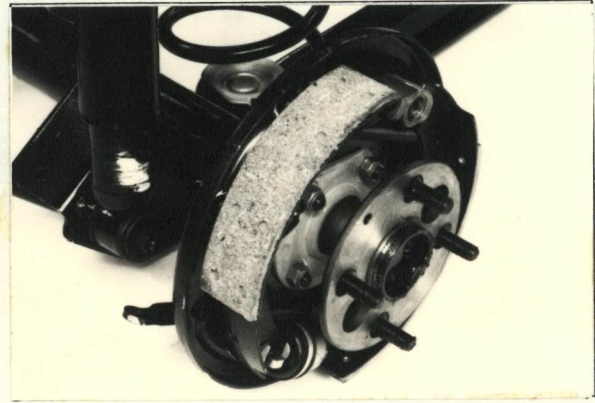
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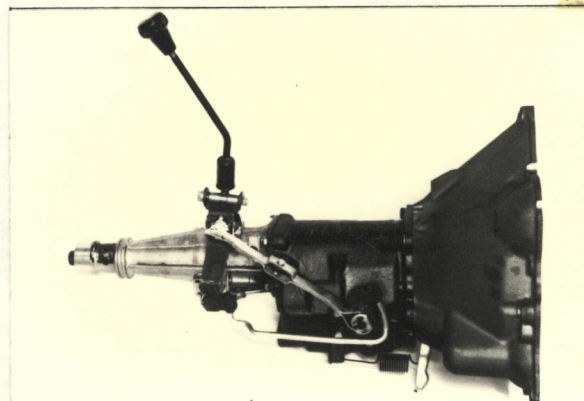
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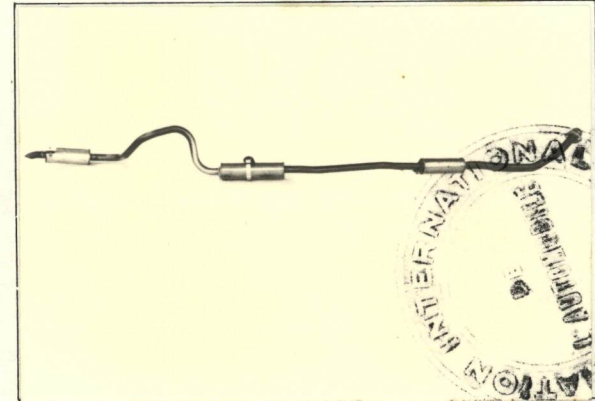
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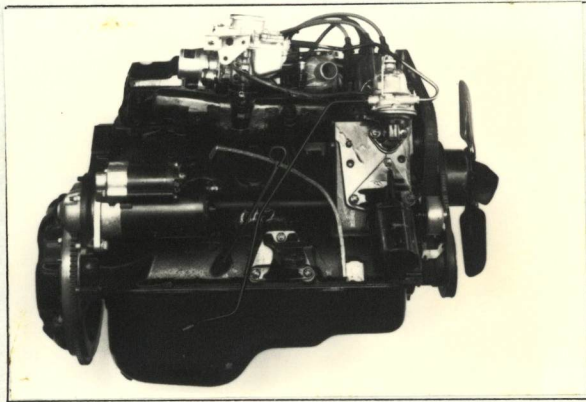
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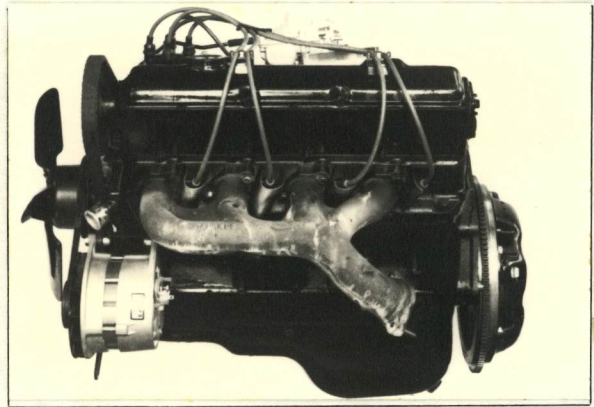
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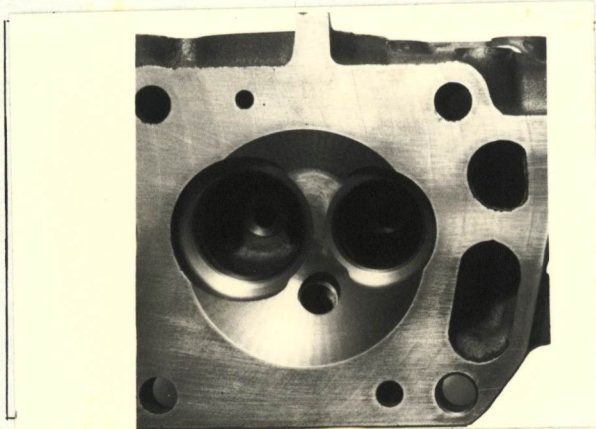
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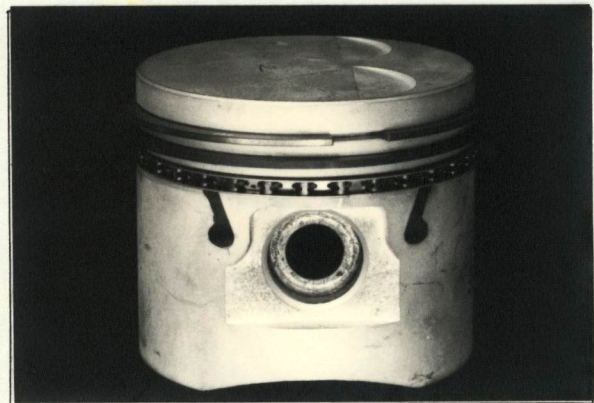
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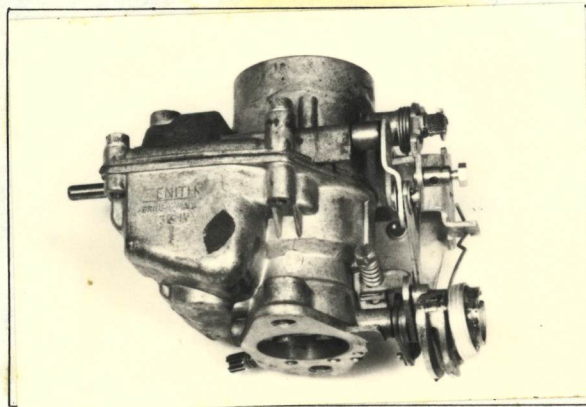
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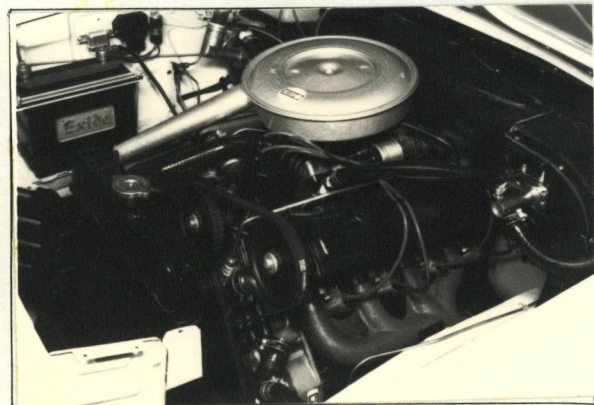
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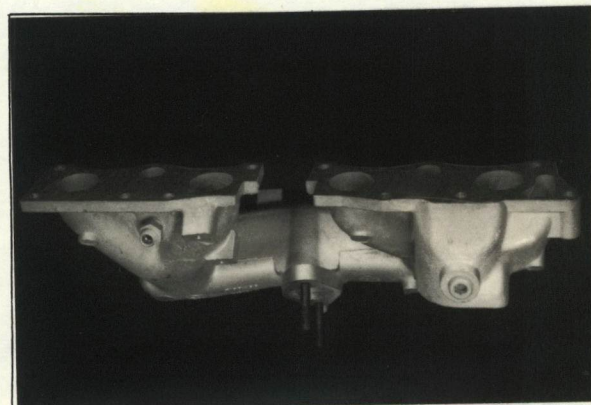
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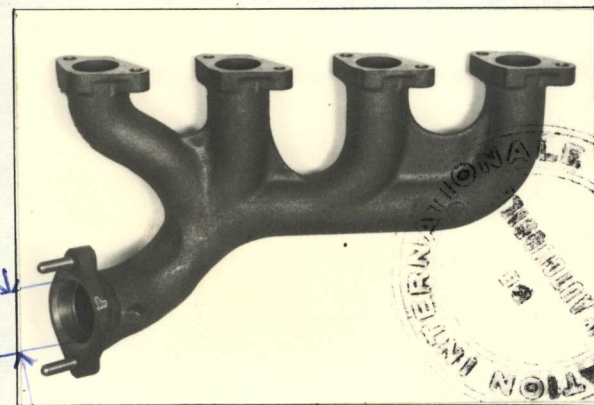
O



P



Q



3

1.87 INS. 47.5 MM.

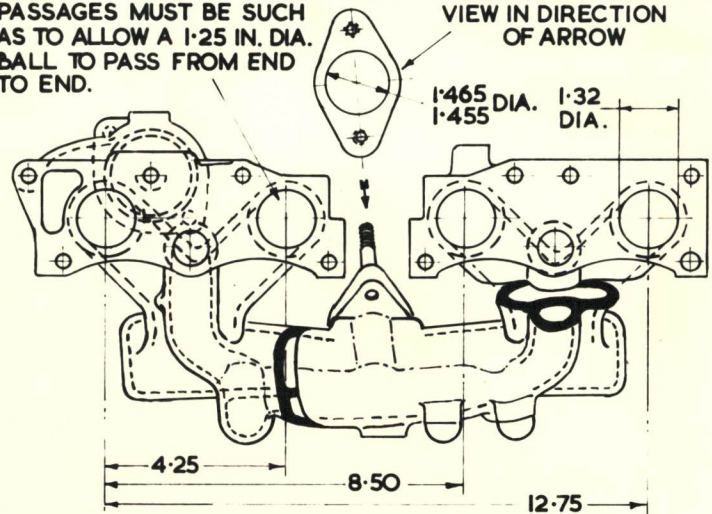
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

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

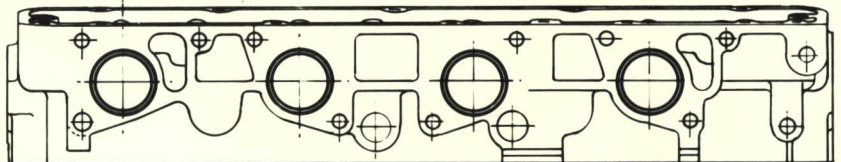
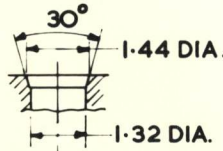
Drawing of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

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

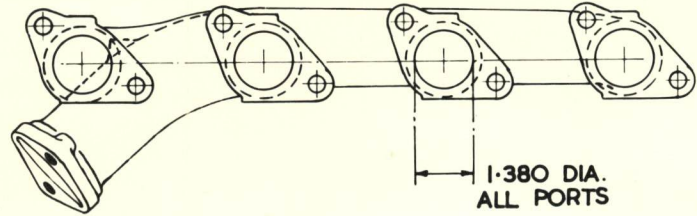
PASSAGES MUST BE SUCH AS TO ALLOW A 1.25 IN. DIA. BALL TO PASS FROM END TO END.



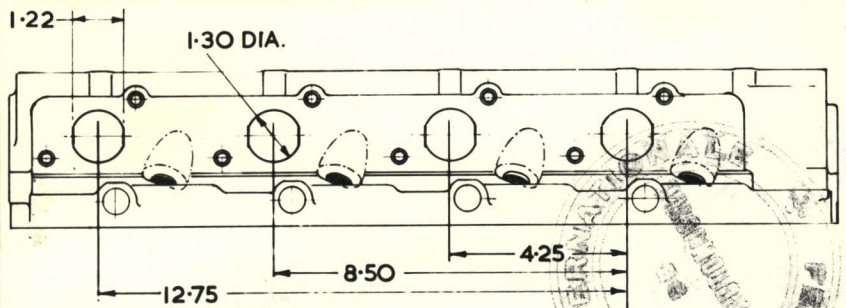
INDUCTION MANIFOLD



CYLINDER HEAD-INLET PORTS



EXHAUST MANIFOLD



CYLINDER HEAD-EXHAUST PORTS

Make VAUXHALL

Model VICTOR 2000

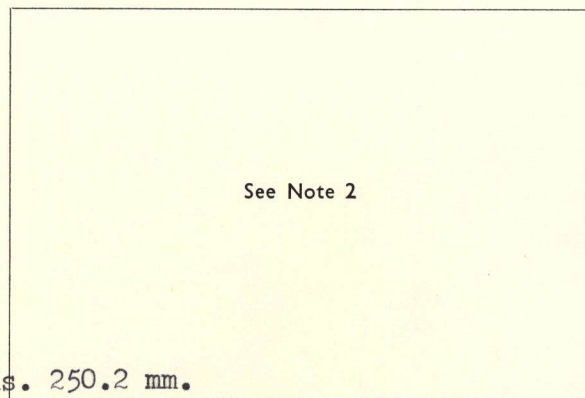
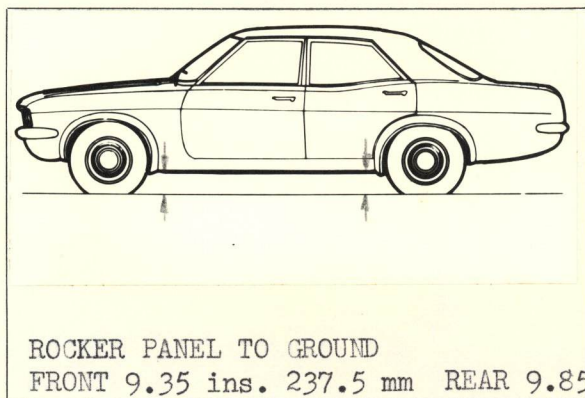
F.I.A. Rec. No.

NOTE 1.

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

CAPACITIES AND DIMENSIONS

- | | | | | |
|----------------|--------|-----|------|--------|
| 1. Wheelbase | 2590.8 | mm. | 102 | inches |
| 2. Front track | 1386.8 | mm. | 54.6 | inches |
| 3. Rear track | 1371.6 | mm. | 54.0 | inches |



- | | | | | | | |
|--|--------|-------|-------|------------|-------|------------|
| 4. Overall length of the car | 448.8 | cm. | 176.7 | inches | | |
| 5. Overall width of the car | 169.9 | cm. | 66.9 | inches | | |
| 6. Overall height of the car | 131.3 | cm. | 51.7 | inches | | |
| 7. Capacity of fuel tank (reserve included) | 54.32 | ltrs. | 14.35 | gall. U.S. | 11.95 | 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 : | 1061.8 | kg. | 2341 | lbs. | 20.9 | cwts. |

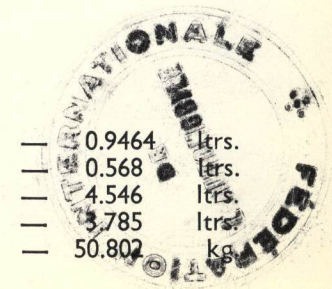
NOTE 2.

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.



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 -
- 23. Material(s) of coachwork STEEL
- 24. Number of doors Material(s) STEEL
- 25. Material(s) of bonnet STEEL
- 26. Material(s) of boot lid STEEL
- 27. Material(s) of rear-window LAMINATED OR TOUGHENED GLASS
- 28. Material(s) of windscreen " " " "
- 29. Material(s) of front-door windows " " " "
- 30. Material(s) of rear-door windows " " " "
- 31. Sliding system of door windows GEAR OPERATED DROP GLASS
- 32. Material(s) of rear-quarter light NONE

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 TUBULAR FRAME
— BLOWN P.V.C.
- 42. Weight of front seat(s), complete with supports and rails, out of the car :
13.66 kg. 30.12 lbs.
- 43. Rear seats, type of seat and upholstery FORMED WIRE SPRING FRAME — BLOWN P.V.C.
- 44. Front bumper, material(s) STEEL Weight 4.37 kg. 9.640 lbs.
- 45. Rear bumper, material(s) STEEL Weight 4.17 kg. 9.200 lbs.

WHEELS

- 50. Type DISC
- 51. Weight (per wheel, without tyre) 5.41 kg. 11.920 lbs.
- 52. Method of attachment 4 STUD
- 53. Rim diameter 330.2 mm. 13 ins. 54. Rim width 139.7 mm. 5.5 ins.

STEERING

- 60. Type RACK & PINION
- 61. Servo-assistance : ~~yes~~ — no
- 62. Number of turns of steering wheel from lock to lock 4.4
- 63. In case of servo-assistance -



SUSPENSION

70. Front suspension (photograph D), type **INDEPENDENT - WISHBONE UPPER ARM - SINGLE LOWER ARM WITH CONTROL ROD**
71. Type of spring **COIL**
72. Stabiliser (if fitted) **0.76 dia. bar**
73. Number of shock absorbers **TWO** 74. Type **TELESCOPIC - DOUBLE ACTING**
78. Rear suspension (photograph E), type **BEAM AXLE - 4 PARALLEL LINK SUSPENSION WITH LATERAL PANHARD CONTROL ROD.**
79. Type of spring **COIL**
80. Stabiliser (if fitted) **NOT FITTED**
81. Number of shock absorbers **TWO** 82. Type **TELESCOPIC - DOUBLE ACTING**

BRAKES (photographs F and G)

90. Method of operation **HYDRAULIC**
91. Servo-assistance (if fitted), type **GIRLING DIRECT ACTING VACUUM SERVO**
92. Number of hydraulic master cylinders **ONE**

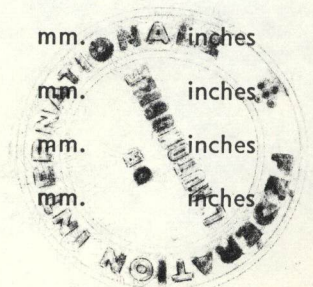
93. Number of cylinders per wheel	TWO	FRONT	ONE	REAR
94. Bore of wheel cylinder(s)	48.26	mm. 1.90 inches	19.05 mm.	0.75 inches

Drum Brakes

95. Inside diameter	mm.	inches	228.6 mm.	9.00 inches	LEADING
96. Length of brake linings	mm.	inches	179.32 mm.	7.06 inches	LEADING
97. Width of brake linings	mm.	inches	219.46 mm.	8.64 inches	TRAILING
98. Number of shoes per brake				2	
99. Total area per brake	mm. ²	sq. in.	16659 mm. ²	25.82 sq. in.	

Disc Brakes

100. Outside diameter	254.8	mm.	10.03 inches	mm.	inches
101. Thickness of disc	9.65	mm.	0.38 inches	mm.	inches
102. Length of brake linings		mm.	inches	mm.	inches
103. Width of brake linings		mm.	inches	mm.	inches
104. Number of pads per brake			2		
105. Total area per brake	5742.3	mm. ²	8.9 sq. in.	mm. ²	sq. in.



ENGINE (photographs J and K)

- | | | | |
|---|----------------------|---|---|
| 130. Cycle | 4 - STROKE | 131. Number of cylinders | 4 |
| 132. Cylinder Arrangement | 45° IN LINE | | |
| 133. Bore | 95.25 mm. 3.750 in. | 134. Stroke | 69.24 mm. 2.726 in. |
| 135. Capacity per cylinder | | | 493.38 cm. ³ 30.11 cu. in. |
| 136. Total cylinder capacity | | | 1973.52 cm. ³ 120.43 cu. in. |
| 137. Material(s) of cylinder block | CHROMIDIUM CAST IRON | 138. Material(s) of sleeves (if fitted) | NOT FITTED |
| 139. Cylinder head, material(s) | CHROMIDIUM CAST IRON | Number fitted | ONE |
| 140. Number of inlet ports | 8.5:4 (OPT.) | 141. Number of exhaust ports | 4 |
| 142. Compression ratio | 8.5:1 (OPT. 7.3:1) | | |
| 143. Volume of one combustion chamber | | 50.84 cm. ³ | 3.1 cu. in. |
| 144. Piston, material | ALLUMINIUM ALLOY | 145. Number of rings | 3 |
| 146. Distance from gudgeon pin centre line to highest point of piston crown | | 43.81 mm. | 1.725 in. |
| 147. Crankshaft: moulded/ stamped | | 148. Type of crankshaft: integral/..... | YES..... |
| 149. Number of crankshaft main bearings | 5 | | |
| 150. Material of bearing cap | CAST IRON | | |
| 151. System of lubrication: dry sump /oil in sump | | | |
| 152. Capacity, lubricant | 4.83 ltrs. 8.5 pts. | 5.1 quarts U.S. | |
| 153. Oil cooler: yes /no | | 154. Method of engine cooling | WATER |
| 155. Capacity of cooling system | 7.67 ltrs. 13.5 pts. | 8.1 quarts U.S. | |
| 156. Cooling fan (if fitted) dia. | | 34.93 cm. | 13.75 in. |
| 157. Number of blades of cooling fan | 4 | | |

Bearings

- | | | | |
|-----------------------------------|-------------|-------------------------|-------------------|
| 158. Crankshaft main, type | COPPER/LEAD | dia. 63.513/63.500 m.m. | 2.5005/2.5000 in. |
| 159. Connecting rod big end, type | COPPER/LEAD | dia. 50.762/50.737 m.m. | 1.9985/1.9975 in. |

Weights

- | | | | |
|---|----------------------|---------------------|----------------------|
| 160. Flywheel (clean) | WITH RING GEAR | 9.21 kg. | 20.30 lbs. |
| 161. Flywheel with clutch (all turning parts) | | 15.42 kg. | 33.99 lbs. |
| 162. Crankshaft | 17.09 kg. 37.69 lbs. | 163. Connecting rod | 0.785 kg. 1.731 lbs. |
| 164. Piston with rings and pin | | 0.834 kg. | 1.839 lbs. |

FOUR STROKE ENGINES

- 170. Number of camshafts ONE
- 171. Location HOUSING MOUNTED ON CYLINDER HEAD
- 172. Type of camshaft drive EXTERNAL TOOTHED BELT
- 173. Type of valve operation CAM VIA INVERTED BUCKET TAPPET DIRECT TO VALVE

INLET (see page 4)*

- 180. Material(s) of inlet manifold ALUMINIUM ALLOY CASTING
- 181. Diameter of valves 43.05 mm. 1.695 ins.
- 182. Max. valve lift 9.626 mm. 0.379 in.
- 183. Number of valve springs TWO
- 184. Type of spring HELICAL COIL
- 185. Number of valves per cylinder ONE
- 186. Tappet clearance for checking timing (cold) 0.1778/0.2286 mm. .007/.009 ins.
- 187. Valves open at (with tolerance for tappet clearance indicated) 33° 26' BTDC
- 188. Valves close at (with tolerance for tappet clearance indicated) 65° 26' ABDC
- 189. Air filter, type PAPER ELEMENT

EXHAUST (see page 4)*

- 195. Material(s) of exhaust manifold CAST IRON
- 196. Diameter of valves 36.07 mm. 1.420 ins.
- 197. Max. valve lift 9.626 mm. 0.379 in.
- 198. Number of valve springs TWO
- 199. Type of spring HELICAL COIL
- 200. Number of valves per cylinder ONE
- 201. Tappet clearance for checking timing (cold) 0.3556/0.4318 mm. .014/.017 ins.
- 202. Valves open at (with tolerance for tappet clearance indicated) 65° 26' BBDC
- 203. Valves close at (with tolerance for tappet clearance indicated) 33° ATDC

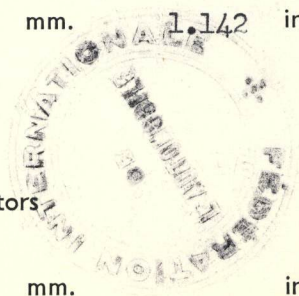
CARBURETION (photograph N)

- 210. Number of carburettors fitted 1
- 211. Type DOWNDRAUGHT
- 212. Make ZENITH
- 213. Model 361V
- 214. Number of mixture passages per carburettor SINGLE CHOKE
- 215. Flange hole diameter of exit port(s) of carburettor 36.02 mm. 1.418 ins.
- 216. Minimum diameter of venturi/~~minimum diam., with piston at maximum height (example: SU)~~ 29 mm. 1.142 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 VAUXHALL

Model VICTOR 2000

F.I.A. Rec. No.

ENGINE ACCESSORIES

230. Fuel pump : mechanical ~~and/or electrical~~

231. No. fitted ONE

232. Type of ignition system 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

237. Method of drive BELT

238. Voltage of generator 12 volts

239. Battery, number ONE

240. Location IN ENGINE COMPARTMENT

241. Voltage of battery 12 volts

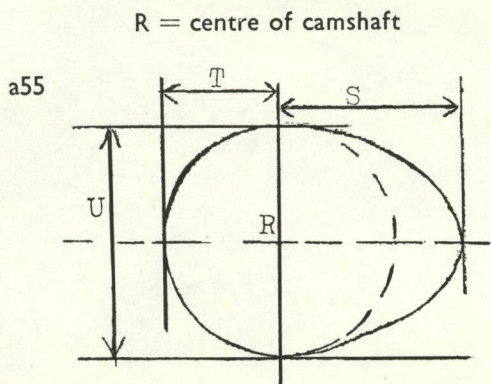
ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

250. Max. engine output 104 (type of horsepower: BHP (GROSS) at 5,800 r.p.m.

251. Max. r.p.m. 6,500 output at that figure NOT AVAILABLE FOR PUBLICATION

252. Max. torque 116 LB/FT (GROSS) at 3,200 r.p.m.

253. Max. speed of the car 152.9 km./hour 95 miles/hour

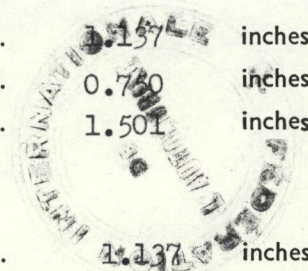


Inlet cam

S =	28.879	mm.	1.137	inches
T =	19.050	mm.	0.750	inches
U =	38.125	mm.	1.501	inches

Exhaust cam

S =	28.879	mm.	1.137	inches
T =	18.821	mm.	0.741	inches
U =	37.821	mm.	1.489	inches



Make VAUXHALL

Model VICTOR 2000

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.

NO. REF. NO.

HEAVY DUTY SUSPENSION - CODE 357

1 71 8810415 - FRONT SPRING (2 OFF)
79 8810416 RH, 8810457 LH:- REAR SPRING

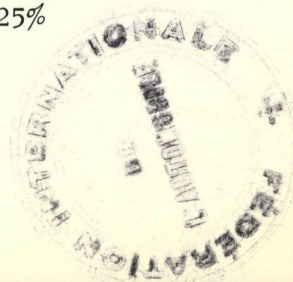
HEAVY DUTY AXLE - CODE 397

2 78 7211474 - REAR AXLE 8/33
7211468 - REAR AXLE 10/39

} - group 2 only.

Manufacturing tolerances.

- 1. For all machined surfaces allow .075%
2. For all non machined surfaces allow 2%
3. For weights of all part machined parts allow 2.5%
4. For weights of all completely machined parts allow 1.25%





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer Vauxhall Motors Ltd.

Model Victor

F.I.A. Recognition No. 5186/1/1V

Amendment No. 1 to F.I.A. No. 5186

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. Reference No. 68/2

1

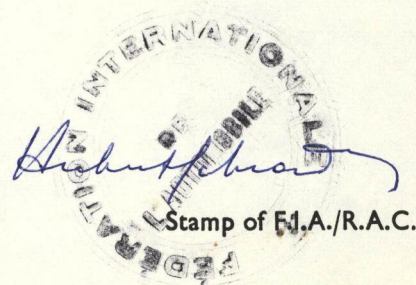


Photograph A $\frac{3}{4}$ view of car from front.

Group 2

Date amendment is valid from

18 March 1968.
List 1968/4





MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer Vauxhall Motors Ltd.

Model Victor

F.I.A. Recognition No. 5186/2/2V

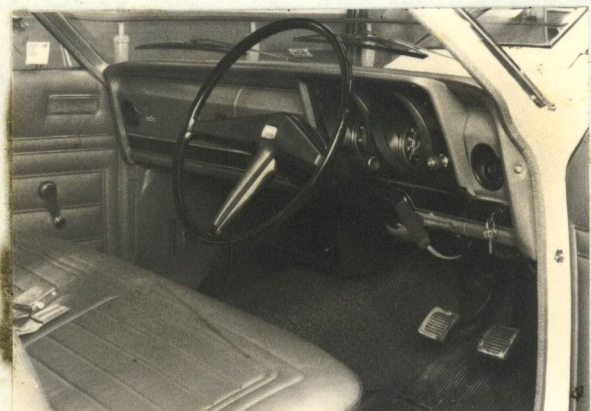
Amendment No. 2 to F.I.A. No. 5186

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. Référence No. 68/2

2



Photograph B $\frac{3}{4}$ view
of car from Rear

Photograph C interior view of
car through Drivers door

3 Identical with Victor 2000 (F.I.A. Recognition No. 5186) Apart from
trim styles and materials.

4 9 Weight - Total weight of car with normal equipment - water - oil
spare wheel but without fuel or repair tools.

1032.37 KG

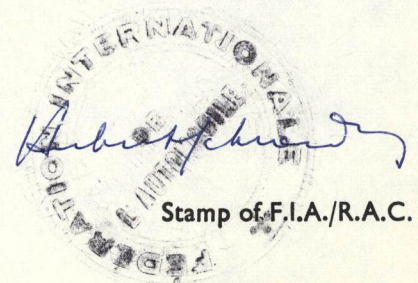
2276 LBS

20.3 CWTs

Group 2

Date amendment is valid from 1st March 1968

list 1968/24



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



MOTOR SPORT DIVISION
The Royal Automobile Club,
31 Belgrave Square, London, S.W.1

Manufacturer VAUXHALL MOTORS LTD.

Model VICTOR 2000

F.I.A. Recognition No. 5186

Amendment No. 3/3U

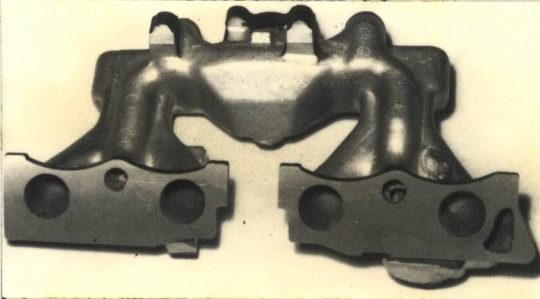
Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

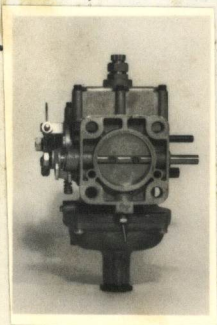
No.

Reference No. INLET MANIFOLD AND CARBURETTOR

PHOTOGRAPH P.



PHOTOGRAPH N
INLET MANIFOLD
CARBURETTOR PORT.
1.84 INS DIA.
30° CUTTER.



INLET MANIFOLD
PORTS. CYLINDER
HEAD SIDE.
1.44 INS DIA.
30° CUTTER.

180 MATERIAL. ALUMINIUM ALLOY.

210 NUMBER OF CARBURETTORS. 1

211 TYPE. VARIABLE CHOKE

212 MAKE. ZENITH

213 MODEL. 175 CD.

215 FLANGE HOLE DIA. 44.45 MM 1.750 INS.

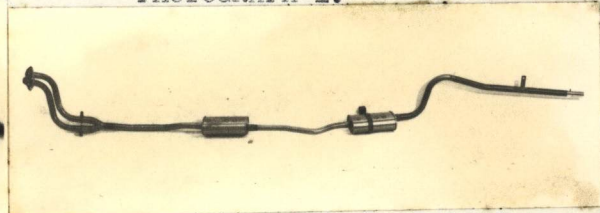
216 MINIMUM DIA. OF VENTURI. 31.75 MM. 1.250 INS.

EXHAUST SYSTEM

PHOTOGRAPH Q.



PHOTOGRAPH I.



EXHAUST MANIFOLD
PORT. CYLINDER HEAD
SIDE. 1.38 INS DIA.

195 CAST IRON

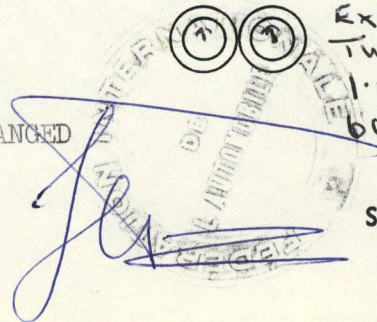
EXHAUST PORT OF CYLINDER HEAD UNCHANGED



EXHAUST MANIFOLD.
TWIN EXIT.
1.92 INS DIA.
60° CHAMFER.

Date amendment is valid from 1/1/70

70/1



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