F.I.A. Recognition No. 5212

Group I SERIES PRODUCTION

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 1599 cm.³ 97.5 in.³

Manufacturer VAUXHALL MOTORS LTD., Model VICTOR

Serial No. of chassis/body 94369 8V100001 Manufacturer VAUXHALL MOTORS LTD.,

Serial No. of engine 3000001 Manufacturer VAUXHALL MOTORS LTD.,

Recognition is valid from 1st March 1968 List 1968/4

The manufacturing of the model described in this recognition form started on 1st SEPTEMBER 1967 and the minimum production of 5000 identical cars, in accordance with the specifications of this form was reached on 1st JANUARY 1968

Photograph A, ¾ view of car from front

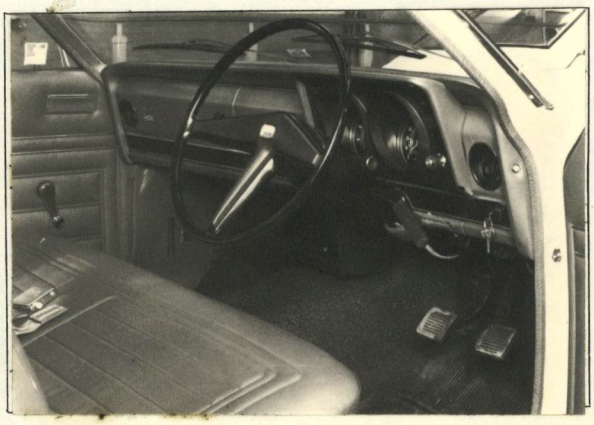
F.I.A. Stamp

Robert Schwantz

R.A.C. Stamp

B

C



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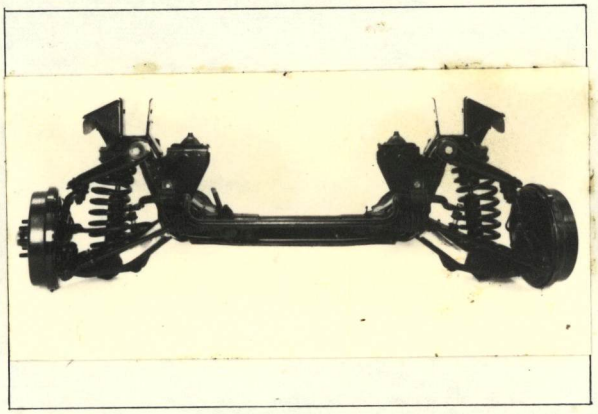

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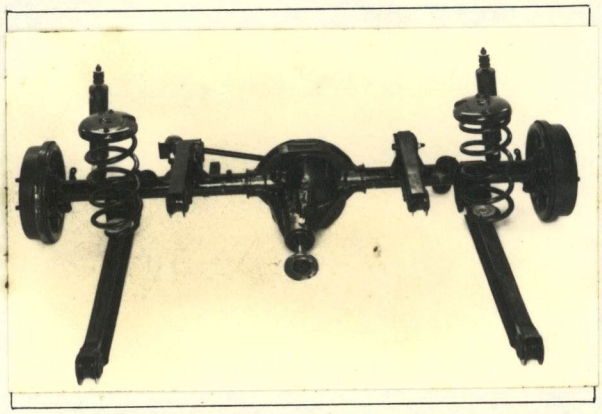

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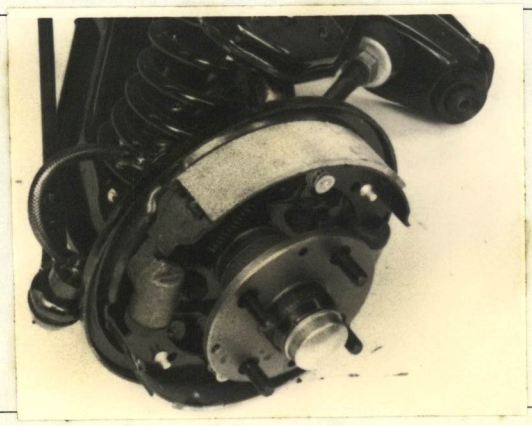

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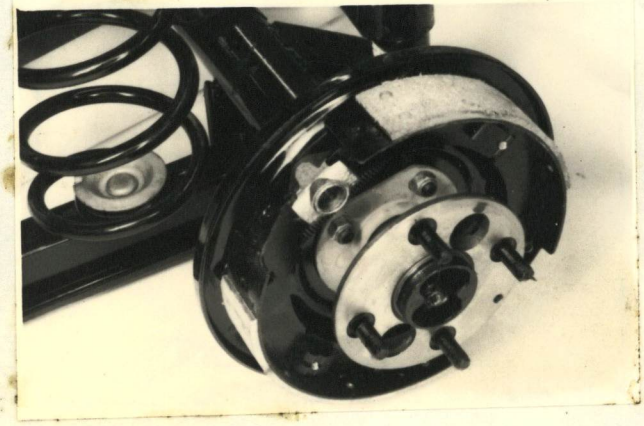

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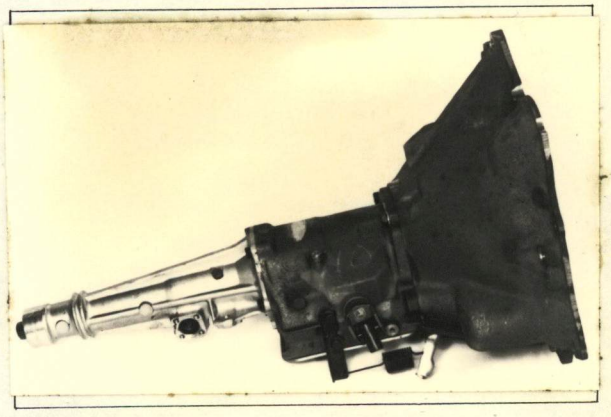

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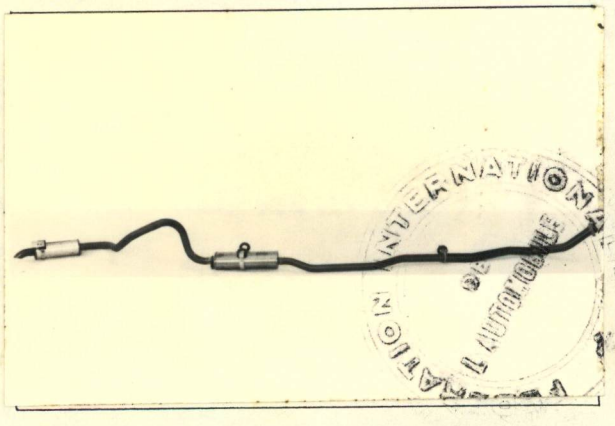
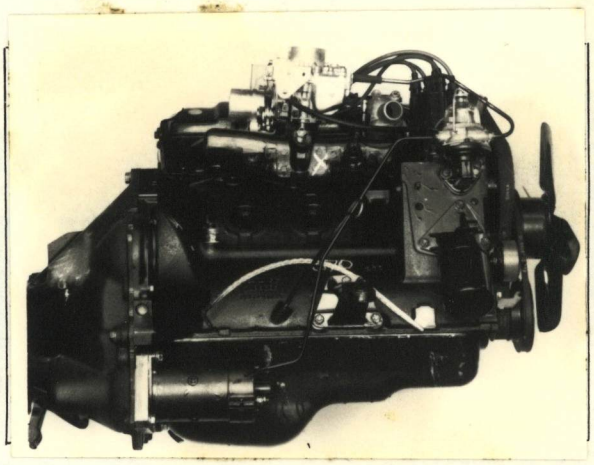


5212

J



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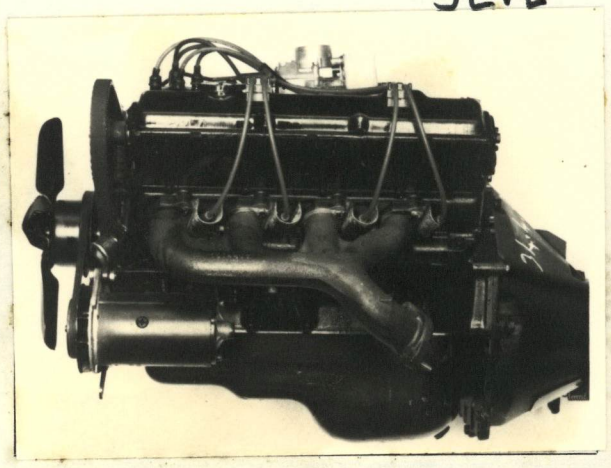

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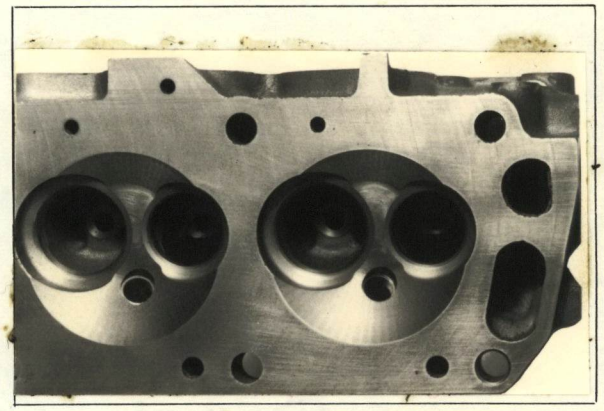

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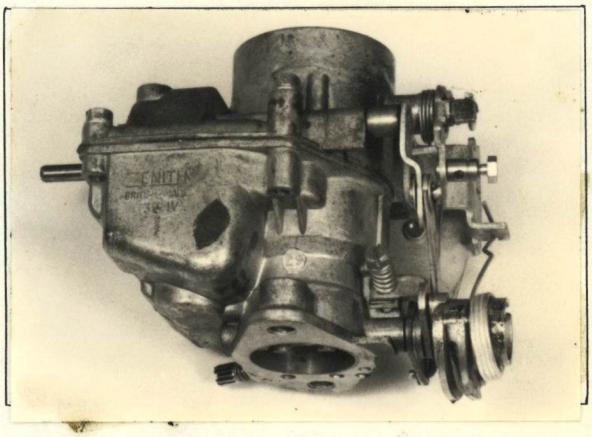
N



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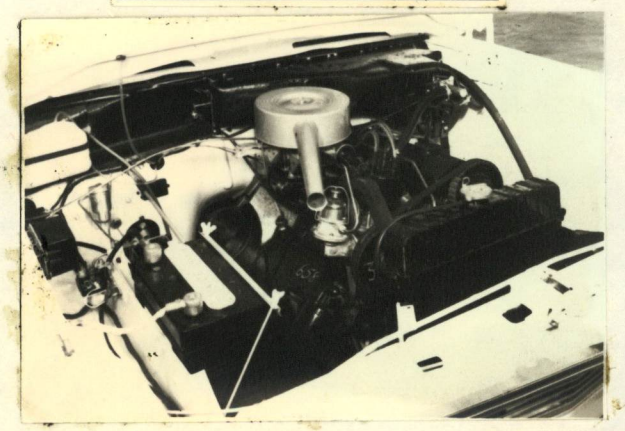

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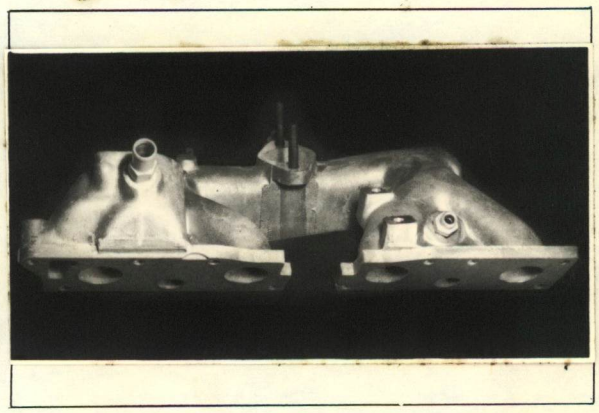
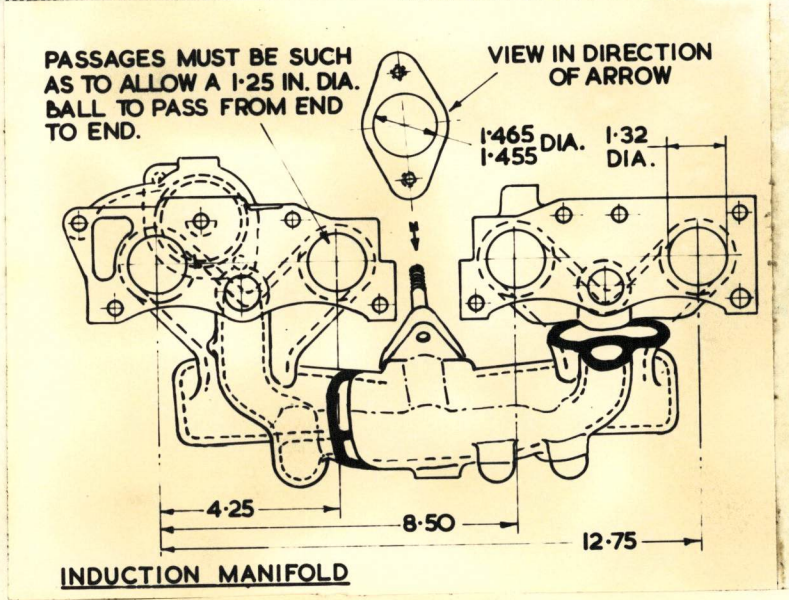


1.87 INS. 47.5 M.

Make VAUXHALL Model VICTOR F.I.A. Rec. No. 5212

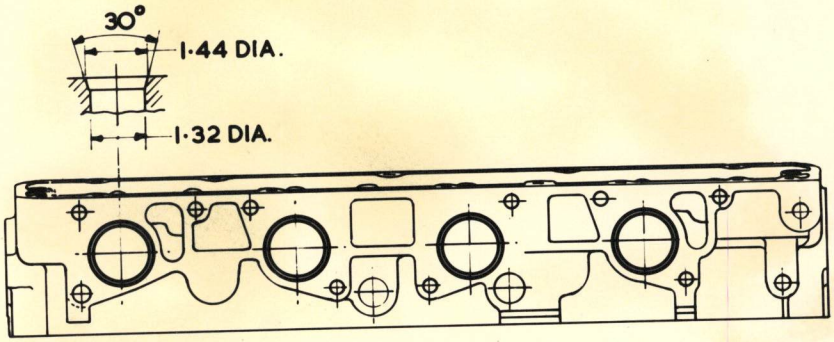
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



INDUCTION MANIFOLD

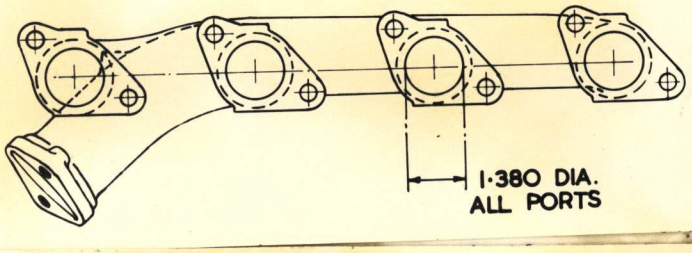
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

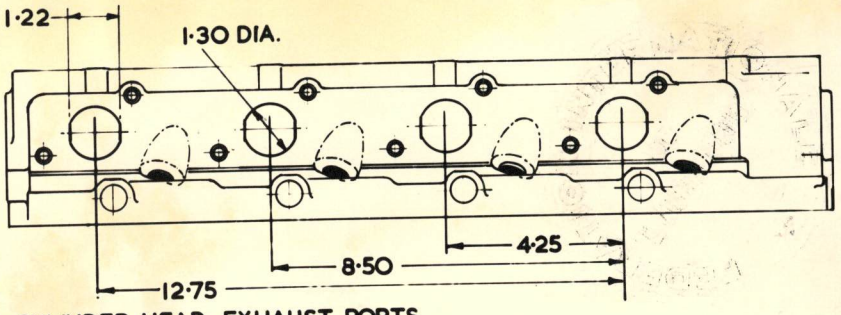
Drawing of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



CYLINDER HEAD - INLET PORTS

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





CYLINDER HEAD - EXHAUST PORTS

Allowable variation on dimensions is ± .25 mm. ± .01 ins. unless otherwise specified.

Make VAUXHALL Model VICTOR F.I.A. Rec. No. 5212

NOTE 1.

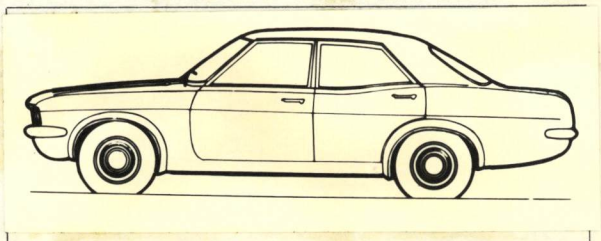
All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

1. Wheelbase 2590.8mm. 102 inches

2. Front track 1371.6 mm. 54 inches

3. Rear track 1379 mm. 54.3 inches



ROCKER PANEL TO GROUND

FRONT 9.35 INS. 237.5 MM. REAR 10 INS. 254 MM.

See Note 2

4. Overall length of the car 448.0 cm. 176.6 inches

5. Overall width of the car 170.1 cm. 67.0 inches

6. Overall height of the car 132.0 cm. 52.0 inches

7. Capacity of fuel tank (reserve included)

54.5 ltrs. 14.4 gall. U.S. 12 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 :

997.9 kg. 2200 lbs. 19.64 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 VAUXHALL Model VICTOR F.I.A. Rec. No. 5212

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction: ~~xxpexxxx~~/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 4 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 LAMINATED OR TOUGHENED GLASS
29. Material(s) of front-door windows LAMINATED OR TOUGHENED GLASS
30. Material(s) of rear-door windows LAMINATED OR TOUGHENED GLASS
31. Sliding system of door windows GEAR OPERATED DROP GLASS
32. Material(s) of rear-quarter light -

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes — ~~xxx~~
39. Air conditioning : ~~xyes~~ — no
40. Ventilation : yes — ~~xx~~
41. Front seats, type of seat and upholstery WIRE FRAME
42. Weight of front seat(s), complete with supports and rails, out of the car : 27.216 kg. 60 lbs.
43. Rear seats, type of seat and upholstery WIRE FRAME
44. Front bumper, material(s) STEEL Weight 4.35 kg. 9.6 lbs.
45. Rear bumper, material(s) STEEL Weight 4.17 kg. 9.2 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 m. 13 ins. 54. Rim width 139.7 mm. 5.5 ins.

STEERING

60. Type RACK AND PINION
61. Servo-assistance : ~~xx~~ — ~~xxx~~ NO.
62. Number of turns of steering wheel from lock to lock 4.4
63. In case of servo-assistance

Make VAUXHALL Model VICTOR F.I.A. Rec. No. 5212

SUSPENSION

70. Front suspension (photograph D), type INDEPENDENT - WISHBONE UPPER ARM SINGLE LOWER ARM - 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 4 PARALLEL LINK WITH CONTROL ROD
79. Type of spring COIL
80. Stabiliser (if 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
92. Number of hydraulic master cylinders ONE
93. Number of cylinders per wheel TWO
94. Bore of wheel cylinder(s) 22.2 mm. .875 inches

	FRONT	REAR
Drum Brakes		
95. Inside diameter	228.6 mm. 9 inches	228.6 mm. 9 inches
96. Length of brake linings	179.3 mm. 7.06 inches	179.3 mm. 7.06 inches Leading 219.4 mm. 8.64 inches Trailing
97. Width of brake linings	44.4 mm. 1.75 inches	44.4 mm. 1.75 inches
98. Number of shoes per brake	2	2
99. Total area per brake	15936.4 mm.² 24.7 sq. in.	17678.5 mm.² 27.47 sq. in.
Disc Brakes		
100. Outside diameter	mm. inches	mm. inches
101. Thickness of disc	mm. 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		
105. Total area per brake	mm.² sq. in.	mm.² sq. in.

Make VAUXHALL Model VICTOR F.I.A. Rec. No. 5212

ENGINE (photographs J and K)

130. Cycle 4 STROKE
131. Number of cylinders 4
132. Cylinder Arrangement 45° IN LINE
133. Bore 85.69 mm. 3.374 in.
134. Stroke 69.2 mm. 2.726 in.
135. Capacity per cylinder 399.5 cm.³ 24.38 cu. in.
136. Total cylinder capacity 1598 cm.³ 97.52 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 4
141. Number of exhaust ports 4
142. Compression ratio 8.5:1 (7.3:1 OPT.)
143. Volume of one combustion chamber 50.84 cm.³ 3.1 cu. in.
144. Piston, material ALUMINIUM ALLOY
145. Number of rings 3
146. Distance from gudgeon pin centre line to highest point of piston crown 43.8 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 dia. 63.5 m.m. 2.5 in.
159. Connecting rod big end, type dia. 50.7 m.m. 1.998 in.

Weights

160. Flywheel (clean) 9.21 kg. 20.3 lbs.
161. Flywheel with clutch (all turning parts) 14.46 kg. 31.882 lbs.
162. Crankshaft 17.09 kg. 37.69 lbs.
163. Connecting rod .785 kg. 1.731 lbs.
164. Piston with rings and pin .698 kg. 1.539 lbs.

Make VAUXHALL Model VICTOR F.I.A. Rec. No. 5212

FOUR STROKE ENGINES

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

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 9.65 mm. .380 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) .2032 mm. .008 ins.
187. Valves open at (with tolerance for tappet clearance indicated) 33.26 BBDC
188. Valves close at (with tolerance for tappet clearance indicated) 65.26 ATDC
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 9.65 mm. .380 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) .2032 mm. .008 ins.
202. Valves open at (with tolerance for tappet clearance indicated) 65.26 BBDC
203. Valves close at (with tolerance for tappet clearance indicated) 33.26 ATDC

CARBURETION (photograph N)

210. Number of carburettors fitted 1 211. Type DOWNDRAUGHT
212. Make ZENITH 213. Model 36 IV
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 F.I.A. Rec. No. 5212

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 ENGINE COMPARTMENT

241. Voltage of battery 12 volts

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

250. Max. engine output 83 (type of horsepower: BHP GROSS) at 5800 r.p.m.

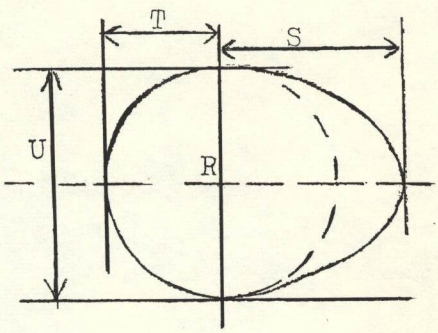
251. Max. r.p.m. 6500 output at that figure NOT AVAILABLE FOR PUBLICATION

252. Max. torque 90 LB/FT (GROSS) at 3200 r.p.m.

253. Max. speed of the car 146.5 km./hour 91 miles/hour

R = centre of camshaft

a55



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 F.I.A. Rec. No. 5212

DRIVE TRAIN

CLUTCH

260. Type of clutch DIAPHRAGM

261. No. of plates ONE

262. Dia. of clutch plates 19.1 cm. 7.52 ins.

263. Dia. of linings, inside 13.6 cm. 5.36 ins.

outside 19.1 cm. 7.52 ins.

264. Method of operating clutch MECHANICAL CABLE

GEAR BOX (photograph H)

270. Manual type, make VAUXHALL Method of operation LEVER AND LINKAGE

271. No. of gear-box ratios forward 3 (4 OPT.) 272. Synchronized forward ratios ALL

273. Location of gear-shift 3 SPEED ON COLUMN 4 SPEED - FLOOR

274. Automatic, make type

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

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.186:1	32/13			3.285:1	33/13		
2	1.635:1	24/19			2.130:1	28/17		
3	DIRECT				1.355:1	22/21		
4					DIRECT			
5								
6								
reverse	3.050:1	33/14			3.050:1	33/14		

278. Overdrive, type LAYCOCK TYPE 'J'

279. Forward gears on which overdrive can be selected THIRD AND TOP

280. Overdrive ratio 0.778:1

FINAL DRIVE

290. Type of final drive HYPOID 291. Type of differential BEVEL

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

293. Final drive ratio 4.125:1 OR 3.9:1 Number of teeth 8/33 OR 10/39

Make VAUXHALL Model VICTOR F.I.A. Rec. No. 5212

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.

group II only

NO.	REF.NO.	HEAVY DUTY SUSPENSION
1	71	8810415 - FRONT SPRING (2 off)
	79	8810416 RH 8810457 LH - REAR SPRING
		HEAVY DUTY AXLE
	78	7211474 - REAR AXLE 8/33
		7211468 - REAR AXLE 10/39

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

Manufacturer VAUXHALL MOTORS LTD
Model VICTOR 1600
F.I.A. Recognition No. 5212
Amendment No. 1/1E

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. | Reference No.

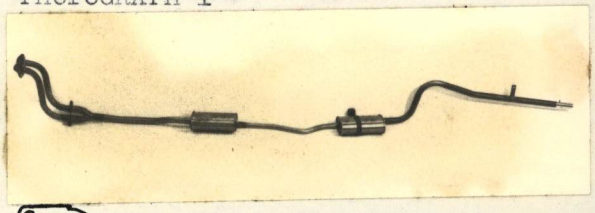
CAMSHAFT

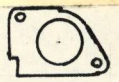
		INLET			EXHAUST	
A55	S	26.98 MM.	1.062 INS	S	27.38 MM.	1.077 INS.
	T	18.82 MM.	.741 INS.	T	19.05 MM.	.750 INS.
	U	37.82 MM.	1.489 INS.	U	38.1 MM.	1.500 INS.

EXHAUST SYSTEM

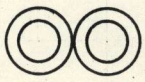
PHOTOGRAPH Q

PHOTOGRAPH I





EXHAUST MANIFOLD PORT.
CYLINDER HEAD 1.38 DIA.



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

195 CAST IRON

EXHAUST PORT OF CYLINDER HEAD UNCHANGED

Date amendment is valid from 1/4/70
List 70/4

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