

F.I.A. Recognition No. 1525

Group 2 - 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 Ltd. Cylinder-capacity 3294 cm.³ 201 in.³
Model Ventora
Serial No. of chassis/body 94869V/117766 Onward Manufacturer Vauxhall
Serial No. of engine 2500001 Onward Manufacturer Vauxhall
Recognition is valid from 1st May 1968 List 1968/6
The manufacturing of the model described in this recognition form started on Sept. 1st 1967
and the minimum production of 1000 identical cars, in accordance with the specifications of
this form was reached on Mar 1st 1968

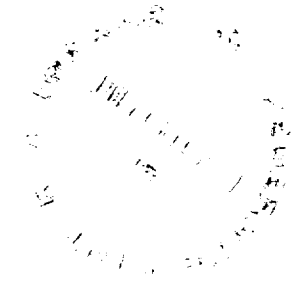
Photograph A. $\frac{1}{2}$ view of car from front



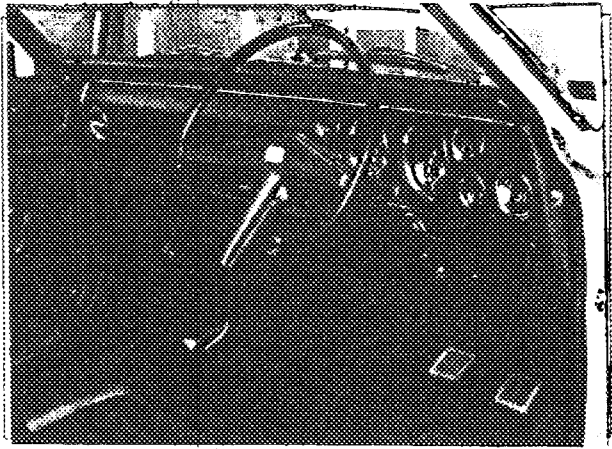
F.I.A. Stamp

Hubert [Signature]

R.A.C. Stamp

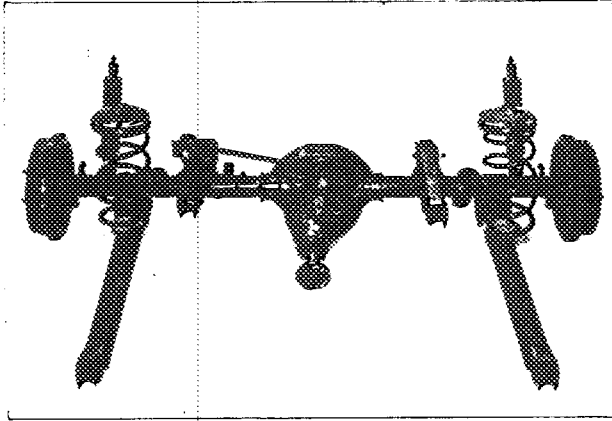
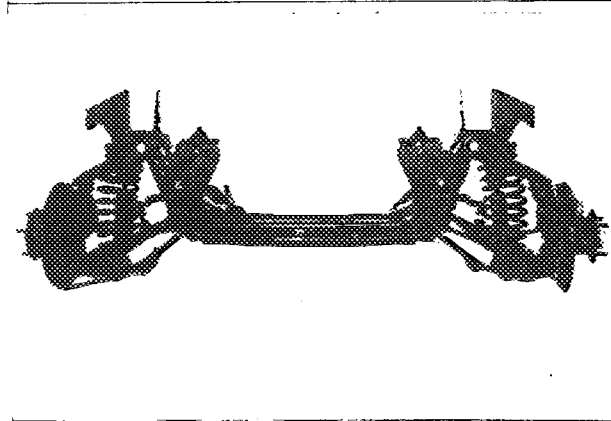


B



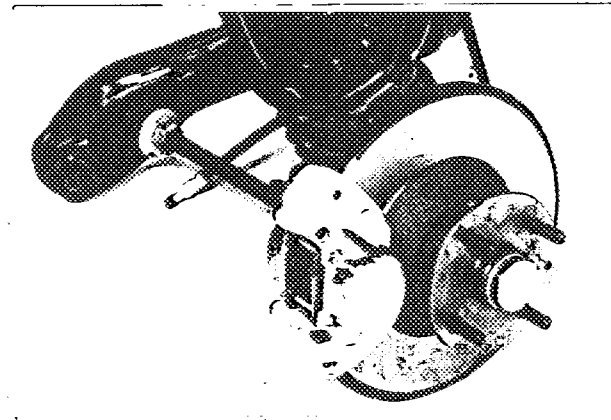
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D



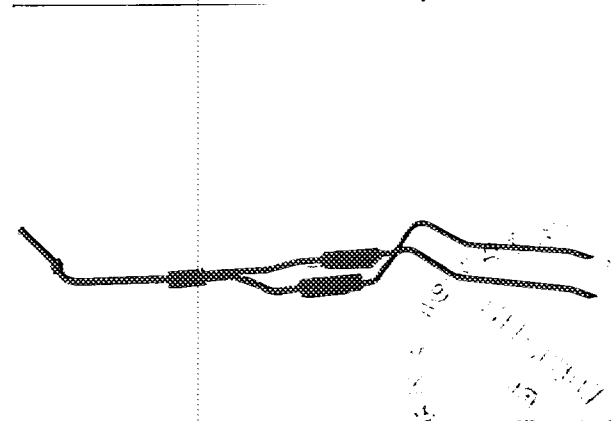
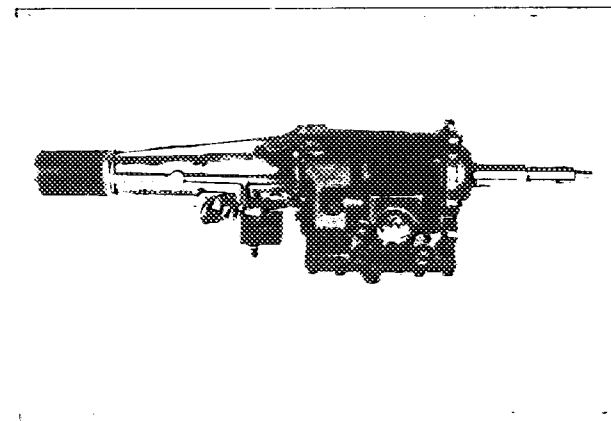
E

F

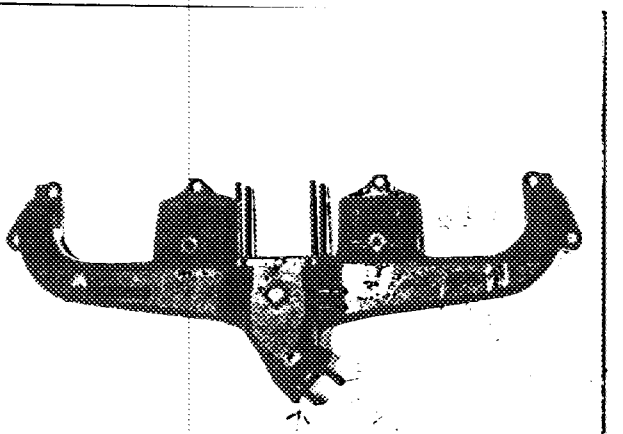
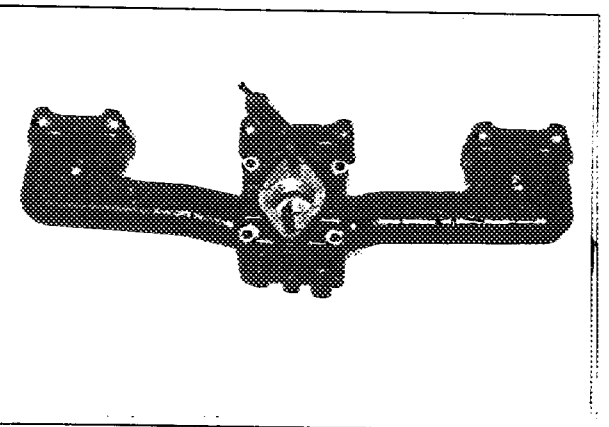
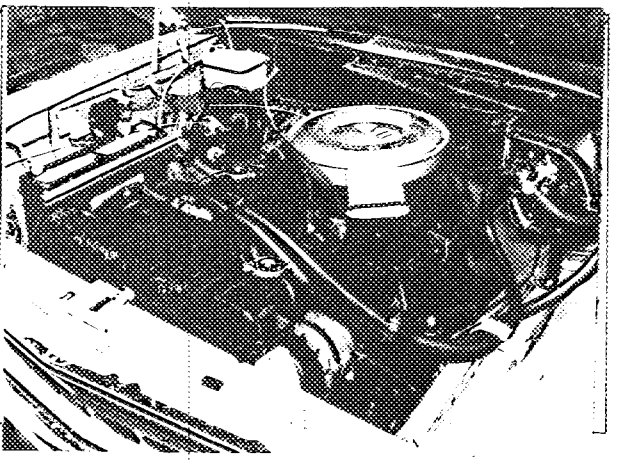
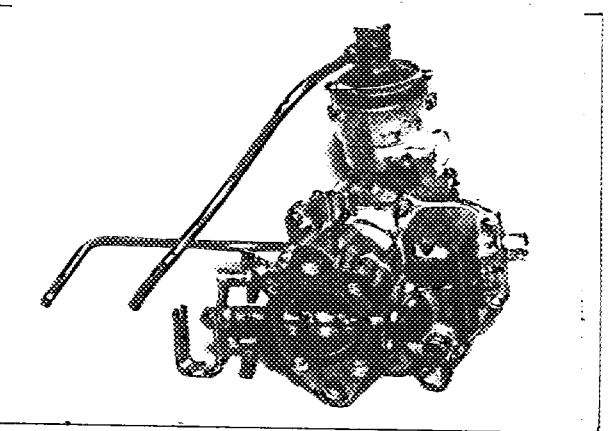
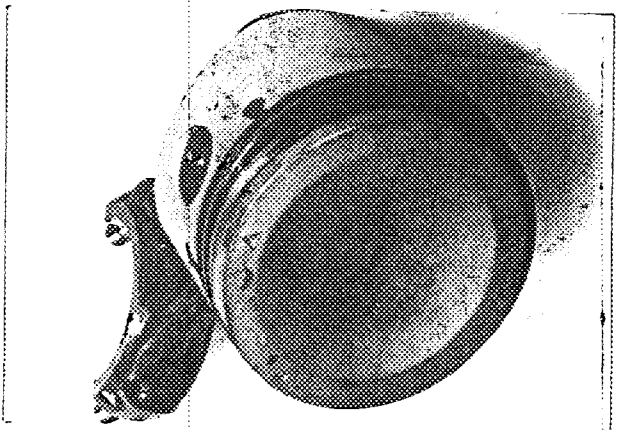
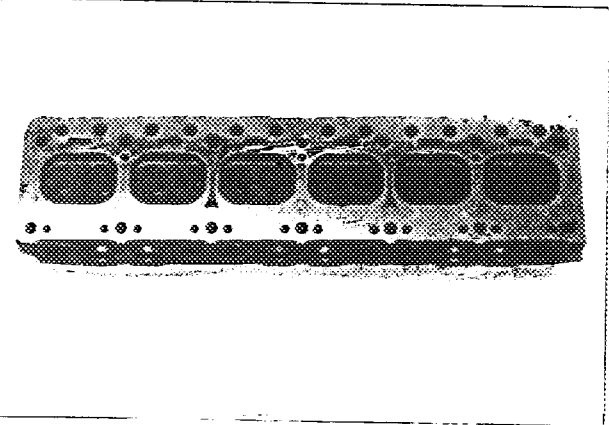
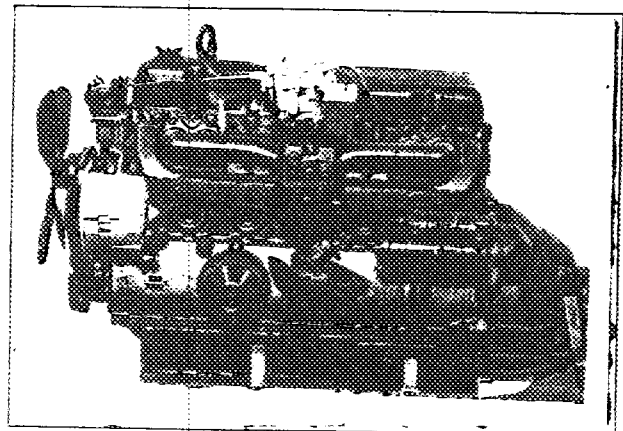
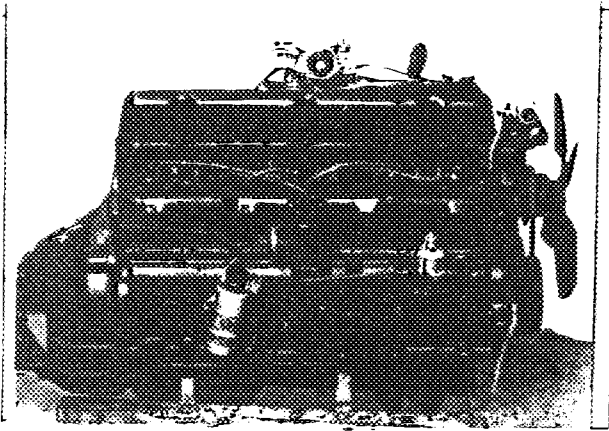


G

H

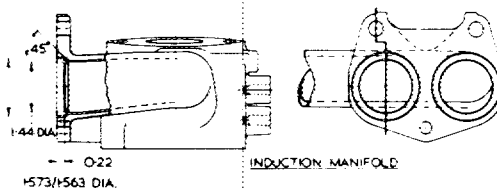


I

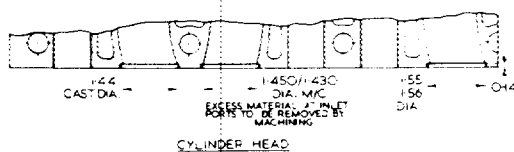


3 1.9 INS 48.26 MM 2.24 INS 56 MM TOTAL

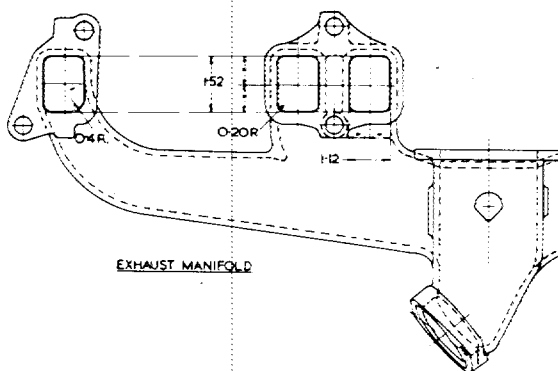
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



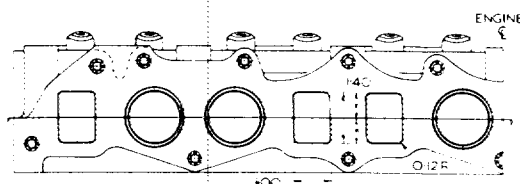
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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.

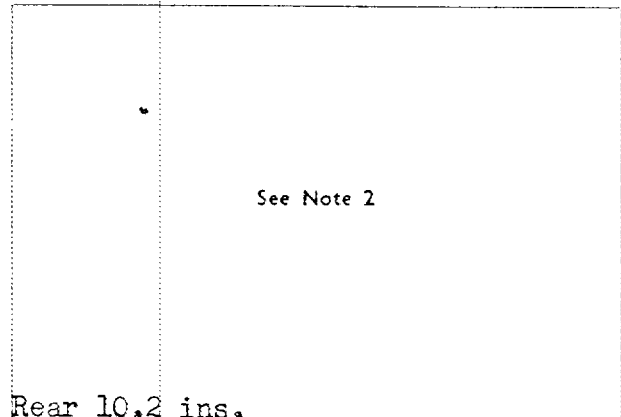
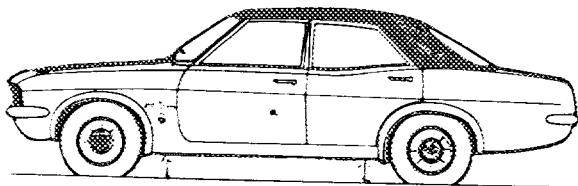


NOTE 1.

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	inches



Rocker Panel to Ground Front 9.6 ins. Rear 10.2 ins.
 " 243.8 mm. " 259. mm.

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	133.3	cm.	52.5	inches
7. Capacity of fuel tank (reserve included)	54.5	ltrs.	14.4	gall. U.S.
			12	gall. Imp.
8. Seating Capacity.	4/5			
9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools:	1139.4	kg.	2512	lbs.
			22.43	cwts.

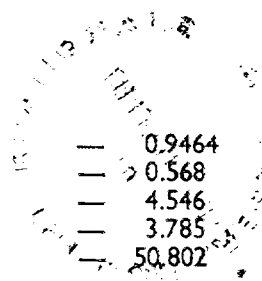
NOTE 2.

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 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 " " " "
- 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 **STEEL FRAME**
MOULDED POLYETHER
RUBBER DIAPHRAGM
- 42. Weight of front seat(s), complete with supports and rails, out of the car : **14.06** kg. **31** lbs.
- 43. Rear seats, type of seat and upholstery **FORMED WIRE MOULDED POLYETHER**
- 44. Front bumper, material(s) Weight **4.37** kg. **9.640** lbs.
- 45. Rear bumper, material(s) 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 INDEPENDANT, WISHBONE UPPER ARM, SINGLE LOWER ARM CONTROL ROD, RUBBER MTD.
- 71. Type of spring COIL
- 72. Stabiliser (if fitted) FITTED
- 73. Number of shock absorbers 2
- 74. Type TELESCOPIC DOUBLE ACTING
- 78. Rear suspension (photograph E), type BEAM AXLE 4 PARALLEL LINK WITH PANHARD ROD
- 79. Type of spring COIL
- 80. Stabiliser (if fitted) PANHARD ROD
- 81. Number of shock absorbers 2
- 82. Type TELESCOPIC & DOUBLE ACTING

BRAKES (photographs F and G)

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

93. Number of cylinders per wheel	TWO	FRONT	ONE	REAR
94. Bore of wheel cylinder(s)	54	mm. 2.125	inches 19.05	mm. 0.75

Drum Brakes

95. Inside diameter	mm.	inches	223.6	mm.	9	inches
96. Length of brake linings	mm.	inches	179.3	mm.	7.06	inches
97. Width of brake linings	mm.	inches	219.4	mm.	8.64	inches
98. Number of shoes per brake			44.4	mm.	1.75	inches
99. Total area per brake	mm. ²	sq. in.	16659	mm. ²	25.8	sq. in.

Disc Brakes

100. Outside diameter	256.5	mm.	10.01	inches	mm.	inches
101. Thickness of disc	12.7	mm.	0.5	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	6710	mm. ²	10.4	sq. in.	mm. ²	sq. in.

ENGINE (photographs J and K)

- 130. Cycle 4 STROKE
- 131. Number of cylinders 6
- 132. Cylinder Arrangement IN LINE
- 133. Bore 92.07 mm. 3.625 in.
- 134. Stroke 82.5 mm. 3.250 in.
- 135. Capacity per cylinder 549.1 cm.³ 33.5 cu. in.
- 136. Total cylinder capacity 3294 cm.³ 201 cu. in.
- 137. Material(s) of cylinder block CHROME CAST IRON
- 138. Material(s) of sleeves (if fitted) NOT FITTED
- 139. Cylinder head, material(s) CHROME CAST IRON Number fitted one
- 140. Number of inlet ports 6
- 141. Number of exhaust ports 6
- 142. Compression ratio 8.5:1 (7.0:1 OPTION)
- 143. Volume of one combustion chamber 55.4 cm.³ 3.39 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 44.4 mm. 1.75 in.
- 147. Crankshaft: ~~molued~~/stamped
- 148. Type of crankshaft: integral/YES
- 149. Number of crankshaft main bearings 4
- 150. Material of bearing cap STEEL
- 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 8.97 ltrs. 15.8 pts. 9.48 quarts U.S.
- 156. Cooling fan (if fitted) dia. 37.4 cm. 14.75 in.
- 157. Number of blades of cooling fan 4

Bearings

- * 158. Crankshaft main, type WHITE METAL & ALUMINIUM dia. 63.5 m.m. 2.5 in.
TIN
- 159. Connecting rod big end, type COPPER LEAD TIN dia. 52.3 m.m. 2.06 in.
ALLOY

Weights

- 160. Flywheel (clean) 10.71 kg. 23.61 lbs.
- 161. Flywheel with clutch (all turning parts) 17.01 kg. 37.50 lbs.
- 162. Crankshaft 30.2 kg. 66.6 lbs.
- 163. Connecting rod .74 kg. 1.64 lbs.
- 164. Piston with rings and pin .735 kg. 1.62 lbs.

FOUR STROKE ENGINES

- 170. Number of camshafts ONE
- 171. Location CYLINDER BLOCK
- 172. Type of camshaft drive CHAIN
- 173. Type of valve operation PUSH ROD

INLET (see page 4)*

- 180. Material(s) of inlet manifold ALUMINIUM ALLOY CASTING
- 181. Diameter of valves 41.35 mm. 1.628 ins.
- 182. Max. valve lift 10. mm. 0.397 in.
- 183. Number of valve springs ONE
- 184. Type of spring
- 185. Number of valves per cylinder ONE
- 186. Tappet clearance for checking timing (cold) .33 mm. .013 ins.
- 187. Valves open at (with tolerance for tappet clearance indicated) 39° BTDC
- 188. Valves close at (with tolerance for tappet clearance indicated) 84° ABDC
- 189. Air filter, type PAPER ELEMENT

EXHAUST (see page 4)*

- 195. Material(s) of exhaust manifold CAST IRON
- 196. Diameter of valves 36 mm. 1.420 ins.
- 197. Max. valve lift 10 mm. 0.397 in.
- 198. Number of valve springs ONE
- 199. Type of spring HELICAL COIL
- 200. Number of valves per cylinder ONE
- 201. Tappet clearance for checking timing (cold) .33 mm. .013 ins.
- 202. Valves open at (with tolerance for tappet clearance indicated) 81° BBDC
- 203. Valves close at (with tolerance for tappet clearance indicated) 42° ATDC

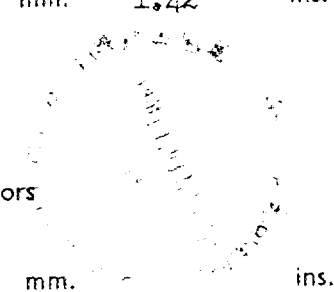
CARBURETION (photograph N)

- 210. Number of carburetors fitted ONE
- 211. Type DOWNDRAUGHT
- 212. Make ZENITH
- 213. Model 42 WI&T
- 214. Number of mixture passages per carburettor SINGLE CHOKE
- 215. Flange hole diameter of exit port(s) of carburettor 42 mm. 1.654 ins.
- 216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU) 36 mm. 1.42 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 MOTORS

Model VENTORA

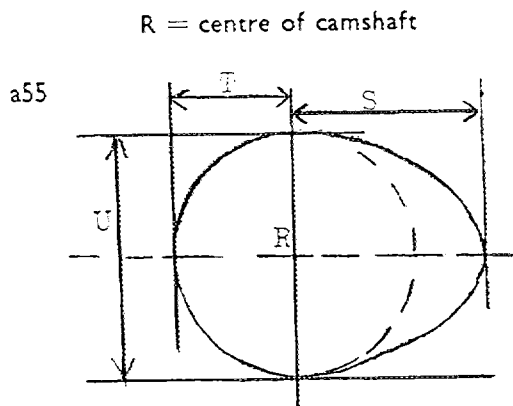
F.I.A. Rec. No.

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 ENGINE COMPARTMENT
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 140 (type of horsepower: B.H.P.) at 4800 r.p.m.
- 251. Max. r.p.m. 6000 output at that figure NOT AVAILABLE FOR PUBLICATION
- 252. Max. torque 135.7 at 2400 r.p.m.
- 253. Max. speed of the car 163 km./hour 105 miles/hour

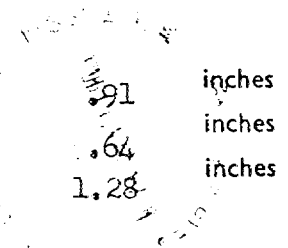


Inlet cam

S =	23.11	mm.	.91	inches
T =	16.25	mm.	.64	inches
U =	32.51	mm.	1.28	inches

Exhaust cam

S =	23.11	mm.	.91	inches
T =	16.25	mm.	.64	inches
U =	32.51	mm.	1.28	inches



DRIVE TRAIN

CLUTCH

260. Type of clutch Diaphragm 261. No. of plates One
262. Dia. of clutch plates 21.59 cm. 8.5 ins.
263. Dia. of linings, inside 15.875 cm. 6.25 ins.
- outside 21.59 cm. 8.50 ins.
264. Method of operating clutch Cable Linkage

GEAR BOX (photograph H)

270. Manual type, make Vauxhall Method of operation Lever
271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 4
273. Location of gear-shift Floor
274. Automatic, make General Motors type Powerglide
275. No. of forward ratios 2 276. Location of gear shift Console on Transmission Tunnel

277.	Manual		Automatic		Alternative manual/automatic		
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	No. teeth
1	2.521	30/14	1.82 to 4.37	- 1			
2	1.765	27/18	1.1 to 2.4	- 1			
3	1.353	23/20					
4	Direct						
5							
6							
reverse			1.82 to 4.37	- 1			

278. Overdrive, type DE NORMANVILLE SYSTEM (CODE 184) Option
279. Forward gears on which overdrive can be selected 3rd 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 3.455 - 1 or (4.125) Number of teeth 11/38 (or 8/33 Coded Option Code 276)

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.

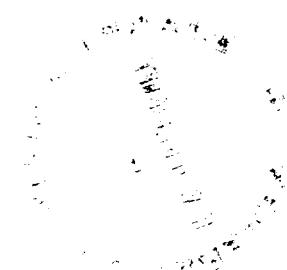
HEAVY DUTY SUSPENSION. CODE 357

71 8810415 - FRONT SPRING (2 OFF)

79 8810416 - RH 8810457 LH REAR SPRING

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%





FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Vauxhall - Ventura

MARQUE ET MODELE

5/68

VALIDITE HOMOLOGATION

1525

FICHE NR.

[Empty box for additional information]

2/3500

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérfiée le 22/1/95 par *[Signature]* visée ce jour le _____ par _____