



F.I.A. Recognition No. 5476

Group 1

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.

Serial No. of chassis/body 145574

Serial No. of engine 153607

Recognition is valid from

Cylinder-capacity 2279 cm.³ 139 in.³

Model HC. VIVA FIRENZA 2300

Manufacturer VAUXHALL MOTORS LTD.

Manufacturer VAUXHALL MOTORS LTD.

List

The manufacturing of the model described in this recognition form started on 1ST JANUARY 1972

and the minimum production of 5000 identical cars, in accordance with the specifications of
this form was reached on 31ST MAY 1972

Photograph A, 3/4 view of car from front

F.I.A. Stamp

R.A.C. Stamp



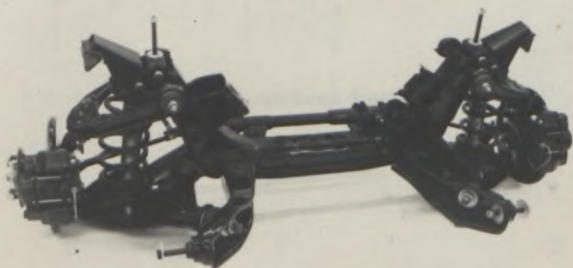
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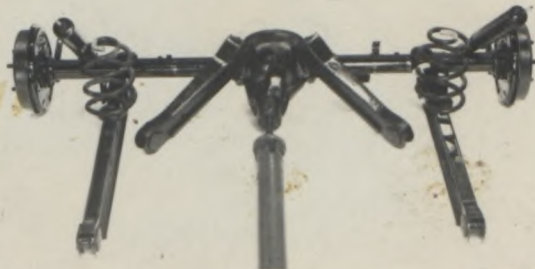
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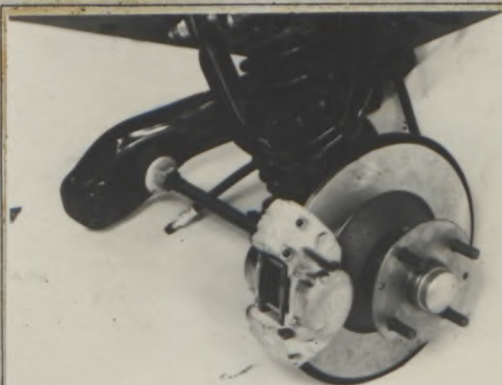
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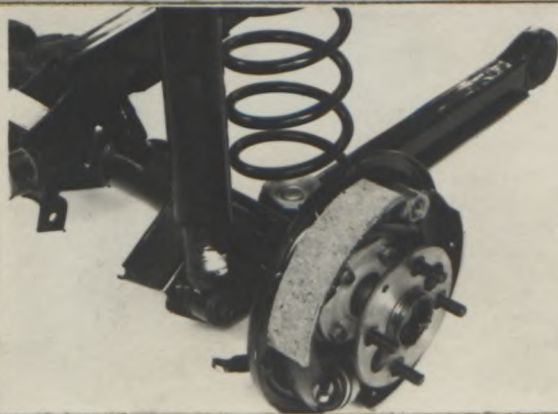
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F



G



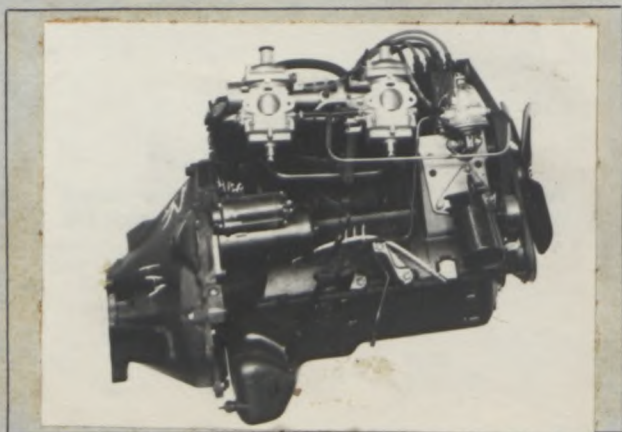
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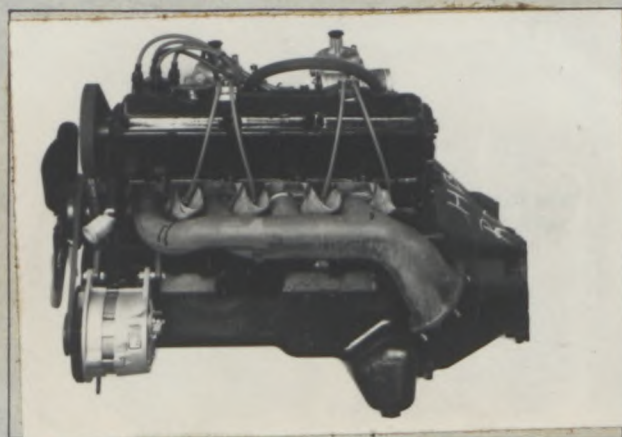
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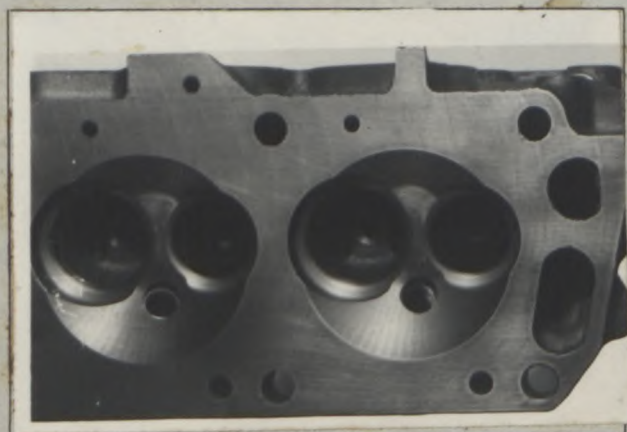
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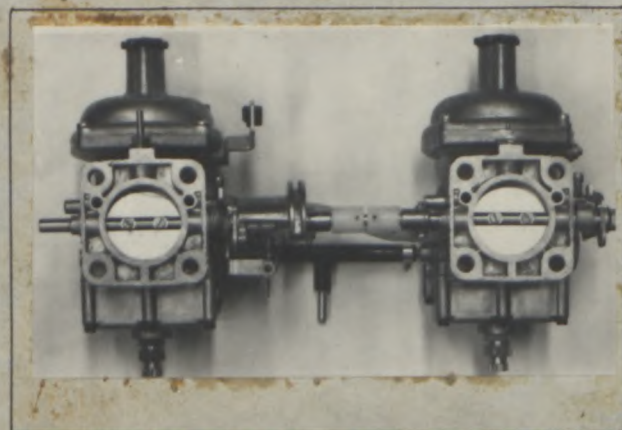
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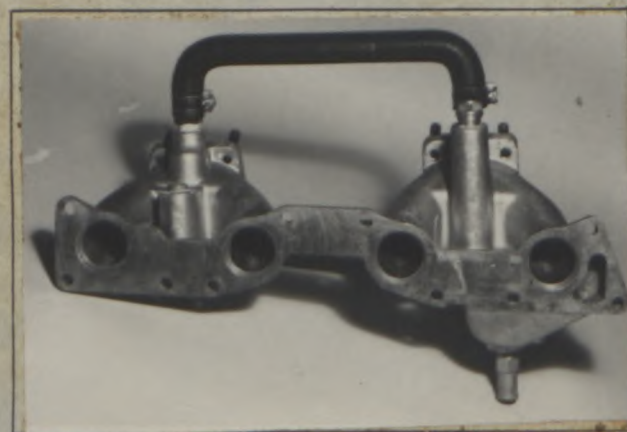
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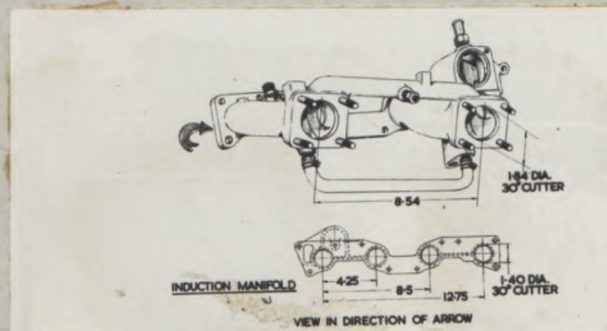
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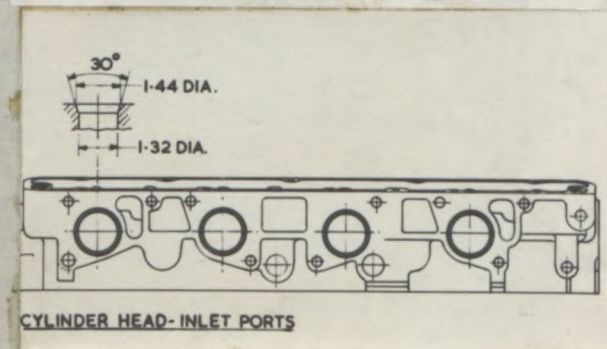
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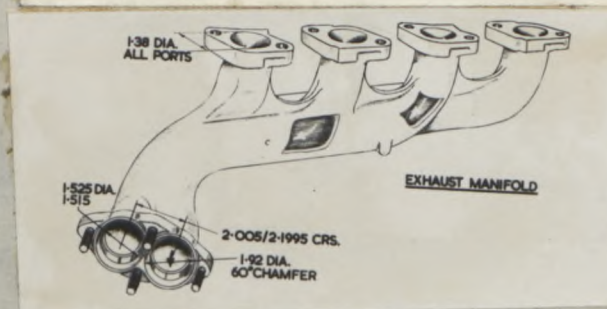
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



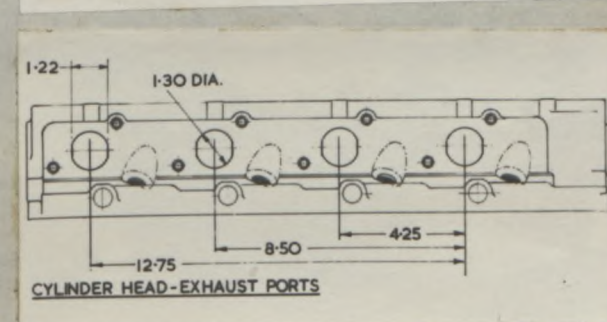
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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.



Make VAUXHALL MOTORS LTD. Model HC VIVA FIRENZA 2300 F.I.A. Rec. No.

NOTE 1.

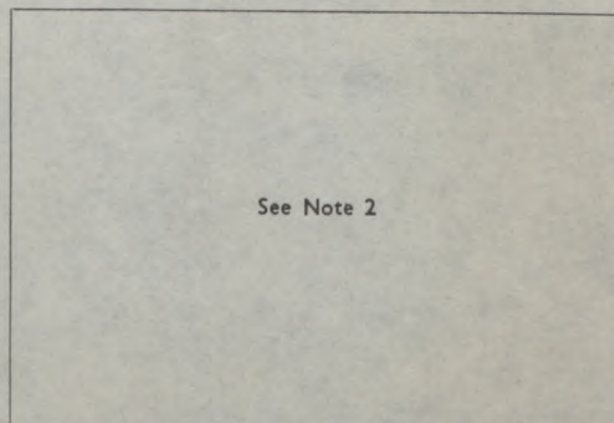
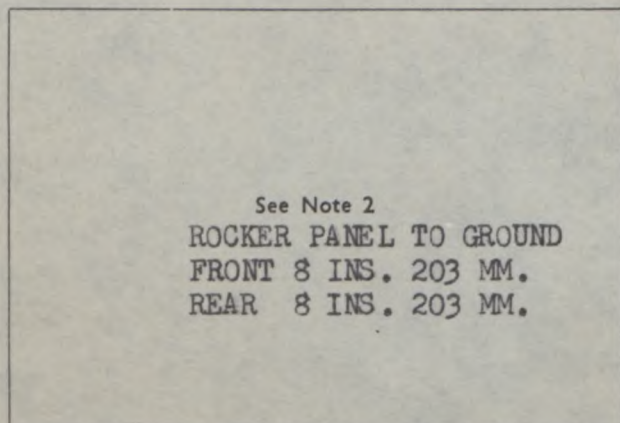
All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

- | | | | | |
|----------------|------|-----|----|--------|
| 1. Wheelbase | 2461 | mm. | 97 | inches |
| 2. Front track | | | | |
| 3. Rear track | | | | |

1314 mm. 51,75 inches

1314 mm. 51,75 inches



- | | | | | |
|--|-------|-------|-------|------------|
| 4. Overall length of the car | 413,5 | cm. | 162,8 | inches |
| 5. Overall width of the car | 164,3 | cm. | 64,7 | inches |
| 6. Overall height of the car | 132,6 | cm. | 52,2 | 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 : | | | | |

920 kg. 2030 lbs. 18,12 cwt.

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 MOTORS LTD. Model HC VIVA FIRENZA 2300 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) | STEEL |
| 22. Separate construction, Material(s) of chassis | - |
| 23. Material(s) of coachwork | STEEL |
| 24. Number of doors 2 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 | NONE |
| 31. Sliding system of door windows | GEAR OPERATED DROP GLASS |
| 32. Material(s) of rear-quarter light | LAMINATED OR TOUGHENED 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 <u>TUBULAR FRAME</u>
<u>BLOWN PVC</u> |
| 42. Weight of front seat(s), complete with supports and rails, out of the car : | 10,4 kg. 23 lbs. |
| 43. Rear seats, type of seat and upholstery <u>SPRING CASE. PVC</u> | |
| 44. Front bumper, material(s) <u>STEEL</u> Weight 3,6 kg. | 8 lbs. |
| 45. Rear bumper, material(s) <u>STEEL</u> Weight 3,1 kg. | 7 lbs. |

WHEELS

- | | |
|--|--|
| 50. Type <u>DISC</u> | |
| 51. Weight (per wheel, without tyre) | 6,8 kg. 15 lbs. |
| 52. Method of attachment <u>4 STUD</u> | |
| 53. Rim diameter <u>330,2</u> mm. <u>13</u> ins. | 54. Rim width <u>140</u> mm. <u>5'5</u> ins. |

STEERING

- | |
|---|
| 60. Type <u>RACK AND PINION</u> |
| 61. Servo-assistance : yes — no |
| 62. Number of turns of steering wheel from lock to lock <u>3,16</u> |
| 63. In case of servo-assistance |

Make VAUXHALL MOTORS LTD • Model HC VIVA FIRENZA 2300 F.I.A. Rec. No.

SUSPENSION

70. Front suspension (photograph D), type		INDEPENDENT - WISHBONE
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 LINK
79. Type of spring		COIL
80. Stabiliser (if fitted)		FITTED
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	DIRECT ACTING VACUUM SERVO
92. Number of hydraulic master cylinders	ONE DUAL TANDEM
93. Number of cylinders per wheel	TWO FRONT ONE REAR
94. Bore of wheel cylinder(s)	48,2 mm. 1,90 inches 19,05 mm. 0,75 inches

Drum Brakes

95. Inside diameter	mm. inches	228,6 mm. 9 inches
96. Length of brake linings	mm. inches	179,3 mm. 7,06 inches
97. Width of brake linings	mm. inches	44,5 mm. 1,75 inches
98. Number of shoes per brake		TWO
99. Total area per brake	mm. ² sq. in.	166,6 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	TWO	
105. Total area per brake	5742 mm. ² 8,9 sq. in.	mm. ² sq. in.

Make VAUXHALL MOTORS LTD Model HC VIVA FIRENZA 2300 F.I.A. Rec. No.

ENGINE (photographs J and K)

130. Cycle	4 STROKE	131. Number of cylinders	4
132. Cylinder Arrangement	45° IN LINE		
133. Bore	97,59 mm. 3,842 in.	134. Stroke	76,2 mm. 3 in.
135. Capacity per cylinder		569,7 cm. ³	34,7 cu. in.
136. Total cylinder capacity		2279 cm. ³	139 cu. in.
137. Material(s) of cylinder block	CHROMIUM CAST IRON	138. Material(s) of sleeves (if fitted)	NOT FITTED
139. Cylinder head, material(s)	CHROMIUM CAST IRON	Number fitted	ONE
140. Number of inlet ports	4	141. Number of exhaust ports	4
142. Compression ratio	8.5-1 (OPT 7.3.-1)		
143. Volume of one combustion chamber		50,8 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		39 mm.	1,535 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	5 ltrs. 8,75	pts. 5,26	quarts U.S.
153. Oil cooler : yes/no		154. Method of engine cooling	WATER
155. Capacity of cooling system	4,83 ltrs. 8,5	pts. 5,1	quarts U.S.
156. Cooling fan (if fitted) dia.		32 cm.	12,5 in.
157. Number of blades of cooling fan	8		

Bearings

158. Crankshaft main, type	WHITE METAL/COPPER LEAD	dia.	63,5 m.m.	2,500 in.
159. Connecting rod big end, type	COPPER LEAD TIN	dia.	50,76 m.m.	1,998 in.

Weights

160. Flywheel (clean)		9,2 kg.	20,3 lbs.
161. Flywheel with clutch (all turning parts)		15,46 kg.	33,9 lbs.
162. Crankshaft	17 kg. 37,6 lbs.	163. Connecting rod	0,78 kg. 1,7 lbs.
164. Piston with rings and pin		0,83 kg.	1,8 lbs.

Make VAUXHALL MOTORS LTD Model HC VIVA FIRENZA 2300 F.I.A. Rec. No.

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 | | |
| 181. Diameter of valves | 42,98 | mm. | 1,688 ins. |
| 182. Max. valve lift | 10,69 | mm. .412 in. | 183. Number of valve springs TWO |
| 184. Type of spring | COIL | | 185. Number of valves per cylinder ONE |
| 186. Tappet clearance for checking timing (cold/warm) | 20 | mm. | .008 ins. |
| 187. Valves open at (with tolerance for tappet clearance indicated) | 31° 36 BTDC | | |
| 188. Valves close at (with tolerance for tappet clearance indicated) | 63° 36 ABDC | | |
| 189. Air filter, type | PAPER ELEMENT | | |

EXHAUST (see page 4)*

- | | | | |
|--|-------------|--------------|--|
| 195. Material(s) of exhaust manifold | CAST IRON | | |
| 196. Diameter of valves | 35,94 | mm. | 1,415 ins. |
| 197. Max. valve lift | 10,69 | mm. .412 in. | 198. Number of valve springs TWO |
| 199. Type of spring | COIL | | 200. Number of valves per cylinder ONE |
| 201. Tappet clearance for checking timing (cold/warm) | 0,43 | mm. | .017 ins. |
| 202. Valves open at (with tolerance for tappet clearance indicated) | 63° 36 BBDC | | |
| 203. Valves close at (with tolerance for tappet clearance indicated) | 31° 36 ABDC | | |
| 204. Diameter outlet orifice exhaust manifold | 48 | mm. | 1,92 ins. X2 |

CARBURETION (photograph N)

- | | | | |
|--|----------------|------------|----------------|
| 210. Number of carburettors fitted | 2 | 211. Type | VARIABLE CHOKE |
| 212. Make | ZENITH | 213. Model | 175 C.D. |
| 214. Number of mixture passages per carburettor | SINGLE VENTURI | | |
| 215. Flange hole diameter of exit port(s) of carburettor | 44,5 | mm. | 1,750 ins. |
| 216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU) | 31,7 | mm. | 1,250 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.

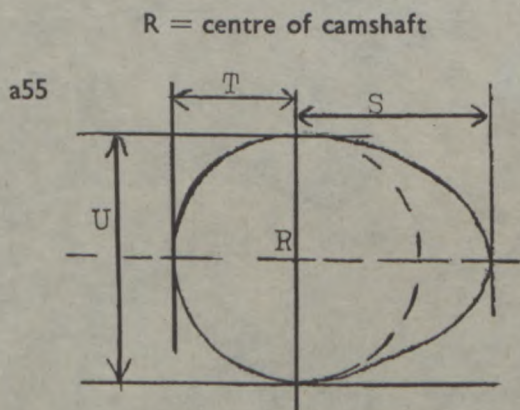
Make **VAUXHALL MOTORS LTD** Model **HC VIVA FIRENZA 2300** F.I.A. Rec. No.

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 **122** (type of horsepower: **BHP GROSS**) at **5500** r.p.m.
251. Max. r.p.m. output at that figure **NOT PUBLISHED**
252. Max. torque **150LB/FT** at **3200** r.p.m.
253. Max. speed of the car **km./hour** **miles/hour** **NOT PUBLISHED**



Inlet cam

S =	29,5	mm.	1,162	inches
T =	19	mm.	.750	inches
U =	38,1	mm.	1,500	inches

Exhaust cam

S =	29,5	mm.	1,162	inches
T =	18,8	mm.	.741	inches
U =	37,7	mm.	1,487	inches

Make

CLUTCH

264. Method of operating clutch

GEAR BOX (photograph H)

275. No. of forward ratios

reverse

280. Overdrive ratio

FINAL DRIVE

293. Final drive ratio

$$\begin{array}{r} 3.455-1 \\ 4.1 \end{array}$$
Number of teeth
11

11/38
10/41

Make **VAUXHALL MOTORS LTD.** Model **HC VIVA FIRENZA 2300** 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.
TERRITORY OPTION. COACHLINES.

DECALS VIVA, ENVOY, EPIC, FIRENZA, SL, SPORTS.

133. FACTORY MAXIMUM OVERBORE +.040 INS. 1 MM. 3.882 INS. 98.43 MM.

157. TERRITORY OPTION. COOLING FAN 4 BLADE 34.93 CM. 13.75 INS.

78. HEAVY DUTY REAR SUSPENSION. ADJUSTABLE SHOCK ABSORBERS.

293. HEAVY DUTY FINAL DRIVE RATIO. 3.727-1. 11/41.

TERRITORY OPTION, SINGLE PIECE PROPELLOR SHAFT

TOLERANCES:- 1. MACHINED SURFACES 1% 2. NON MACHINED SURFACES 2%
3. WEIGHTS OF PART MACHINED PARTS 2.5%
4. WEIGHTS OF MACHINED PARTS 1.5%



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

Manufacturer VAUXHALL MOTORS LTD

Model VIVA FIRENZA 2300

F.I.A. Recognition No. 5476

Amendment No. 1/IV

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

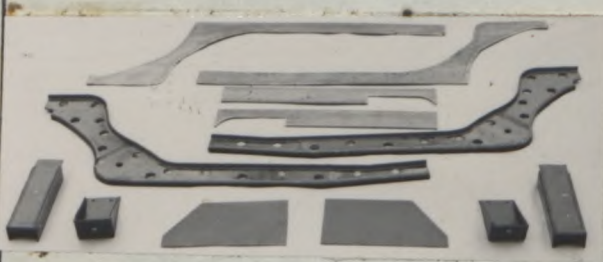
Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

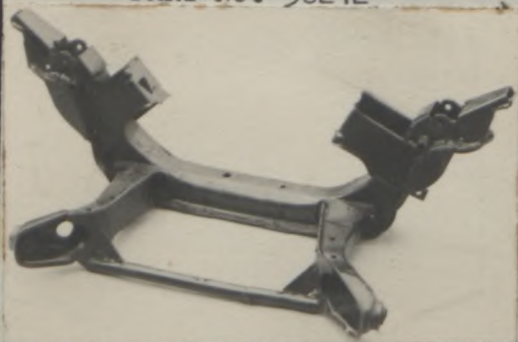
No.

Reference No. GROUP 2

AUXILIARY CHASSIS AND SUSPENSION KIT PART NO. 56222.



HEAVY DUTY FRONT SUSPENSION
PART NO. 56212



ALLOY DIFFERENTIAL COVER
PART NO. 44188



VENTILATED DISC BRAKE PT NO 2381CP



HEAVY DUTY SOLID DISC BRAKE PT NO 55611



Date amendment is valid from.....

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

[Handwritten signature]



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

Manufacturer VAUXHALL MOTORS LTD

Model VIVA FIRENZA 2300

F.I.A. Recognition No. 5476

Amendment No. 1/IV

"valable en Groupe 2 uniquement"
"valid for Group 2 only"

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No. GROUP 2

HEAVY DUTY AXLE RACING.
PART NO. 44166R

HEAVY DUTY AXLE RALLY.
PART NO. 44166 CC



HEAVY DUTY AXLE RATIOS 3.7 3.9 4.1 4.6
11/41 10/59 10/41 8/37

HEAVY DUTY CLUTCH PART NO. CC2242WB

206 DIAPHRAGM NO. OF PLATES 2

262 CLUTCH PLATE DIA. 7.2 INS 184 MM.

263 LINING DIA. INSIDE 5.2 INS. 132 MM. OUTSIDE 7.2 INS 184 MM.

Date amendment is valid from.....

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

Manufacturer Vauxhall Motors
Model Viva Firenze 2300
F.I.A. Recognition No. 5476
Amendment No. 1/IV

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. _____ Reference No. GROUP 2
Wing Extensions

"valable en Groupe 2 uniquement"
"valid for Group 2 only"



CAPACITIES AND DIMENSIONS - TRACK CHANGES.

13x7	55 ins	1397 mm	13x10	58 ins	1473 mm
13x8	56 ins	1422 mm	13x11	58 ins	1473 mm
13x9	58 ins	1473 mm	13x12	58 ins	1473 mm
$\frac{3}{8}$ or $\frac{3}{4}$ SPACERS.					

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

Manufacturer VAUXHALL MOTORS LTD
Model VIVA FIRENZA 2300
F.I.A. Recognition No. 5476
Amendment No. 2/21

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No. GROUP ONE

OPTIONS

WHEELS

(50) DISC (51) 6.5 KG. 15 LBS. (53) 330 MM 13 INS. (54) 127 MM 5 INS.
(2) FRONT TRACK 134.6 CM 53 INS.

EXHAUST SYSTEM - NON EMISSION 8835130.



Date amendment is valid from.....

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

[Handwritten signature and circular stamp of the Federation Internationale de l'Automobile]



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

Manufacturer... VAUXHALL MOTORS LTD

Model... VIVA FIRENZA 2300

F.I.A. Recognition No. 5476

Amendment No. 3/1E

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

- | | | |
|-----|---|----------------------------------|
| No. | Reference No. | GROUP ONE |
| | EVOLUTION | |
| 99 | TOTAL AREA PER BRAKE | 207 MM 32.1 SQ. INS. |
| 155 | CAPACITY OF COOLING SYSTEM | 7.96 LTRS. 14 PTS. 8.4 U.S. QTS. |
| 277 | GEARBOX | |
| | 1. 3.3-1 | 33/13. |
| | 2. 2.141-1 | 33/20. |
| | 3. 1.362-1 | 25/13. |
| | 4. DIRECT | |
| | REVERSE | 3.064 33/14. |
| | AUTOMATIC AND ALTERNATIVE RATIOS UNCHANGED. | |
| 144 | PISTON MATERIAL | ALUMINIUM ALLOY. |



Date amendment is valid from.....

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



MOTOR SPORT DIVISION
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Model FIRENZA 2300

F.I.A. Recognition No. 5476

Amendment No. 4/2E

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.	Reference No.	ERRATA	
		Gearbox Ratios should read:	
277	Ratio	Teeth	
	1 3.3 - 1	33/13	
	2 2.141 - 1	28/17	
	3 1.362 - 1	22/21	
	4 Direct		
	Reverse 3.064 - 1	33/14	

Date amendment is valid from 1773

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