

F.I.A. Recognition No. 5443

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. Cylinder-capacity 1975 cm.³ 120 in.³
 Serial No. of chassis/body 455429 ONWARDS Model VIVA FIRENZA
 Serial No. of engine 1000001 ONWARDS Manufacturer VAUXHALL
 Recognition is valid from Manufacturer VAUXHALL
 The manufacturing of the model described in this recognition form started on JANUARY 19 71
 and the minimum production of 5000 identical cars, in accordance with the specifications of
 this form was reached on SEPTEMBER 19 71

Photograph A, ¾ view of car from front



F.I.A. Stamp

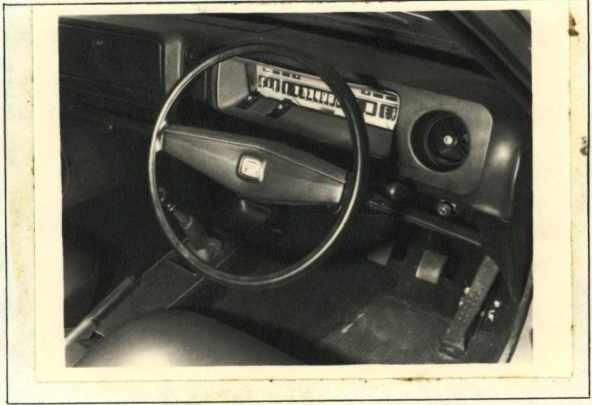
[Handwritten signature]

R.A.C. Stamp

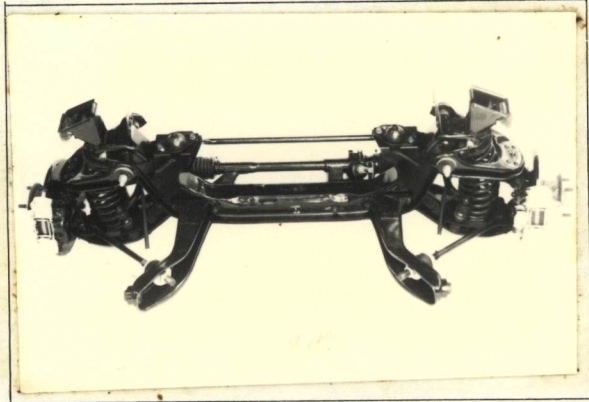
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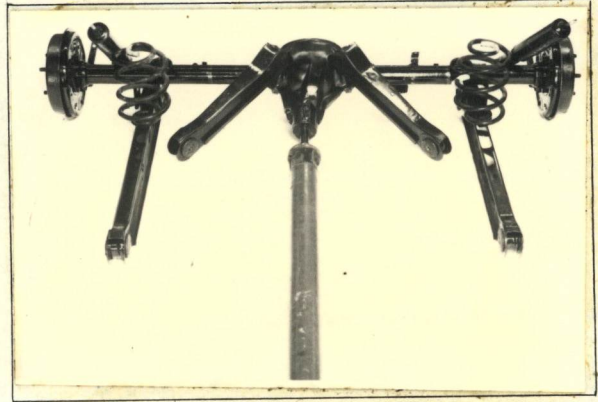
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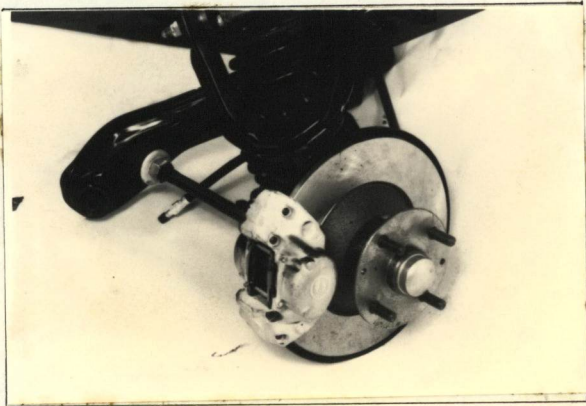
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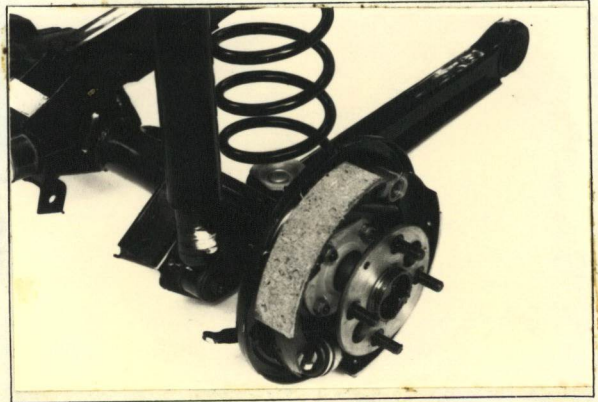
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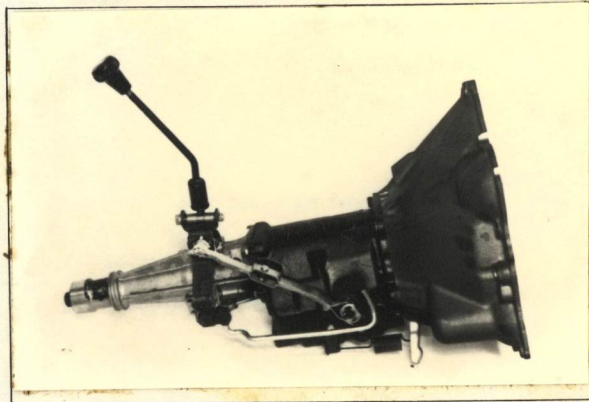
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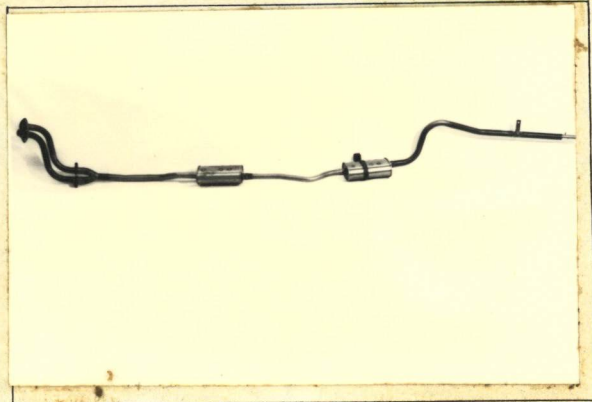
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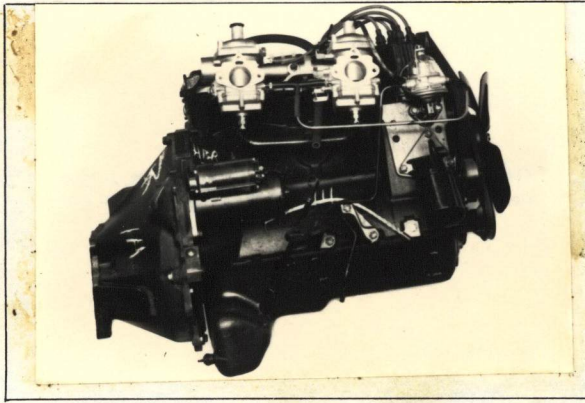
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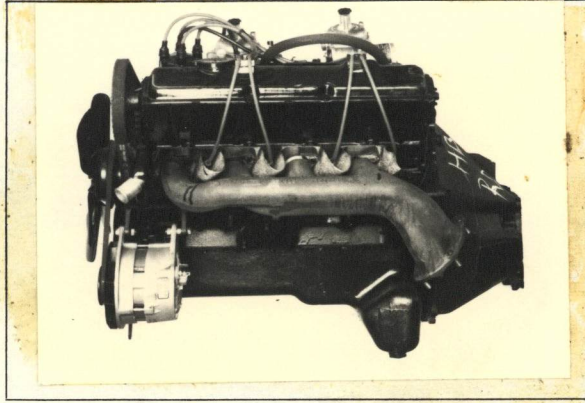
I



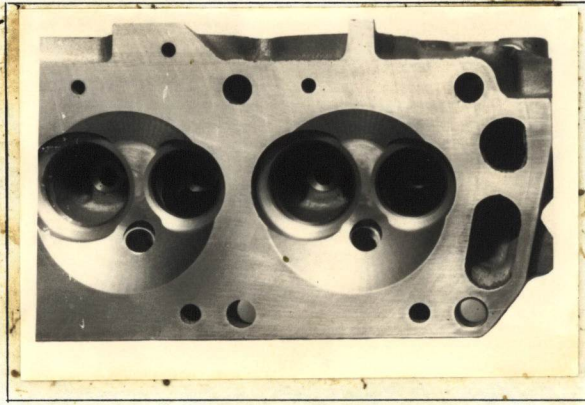
J



K



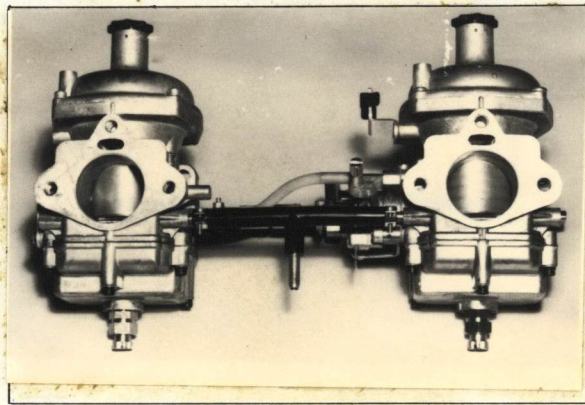
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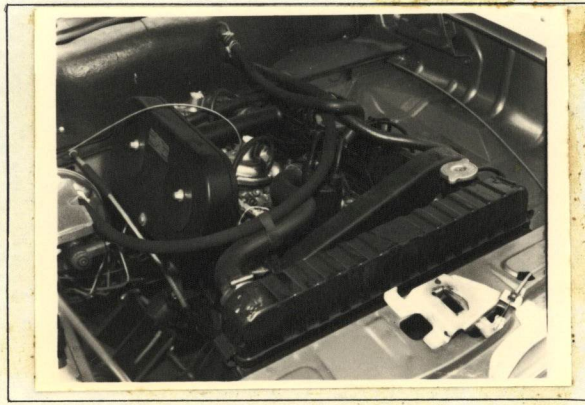
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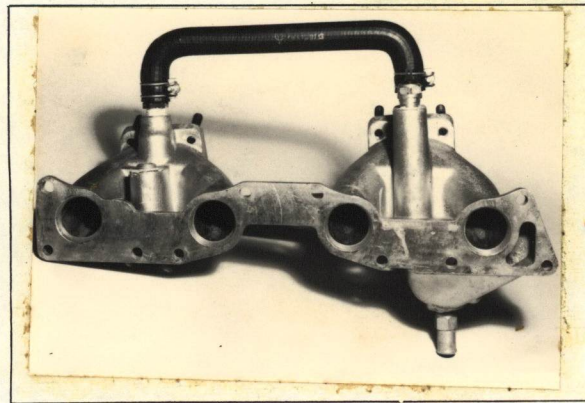
N



O



P



Q

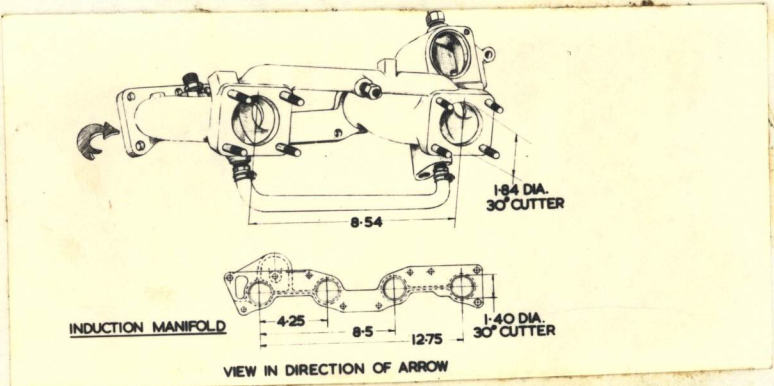


Make VAUXHALL.

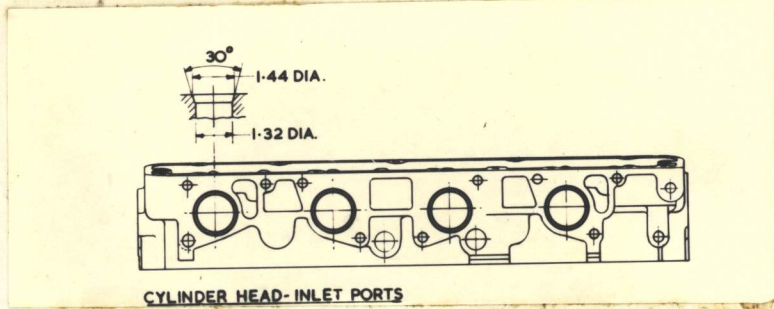
Model FIRENZA S L.

F.I.A. Rec. No. 5h3

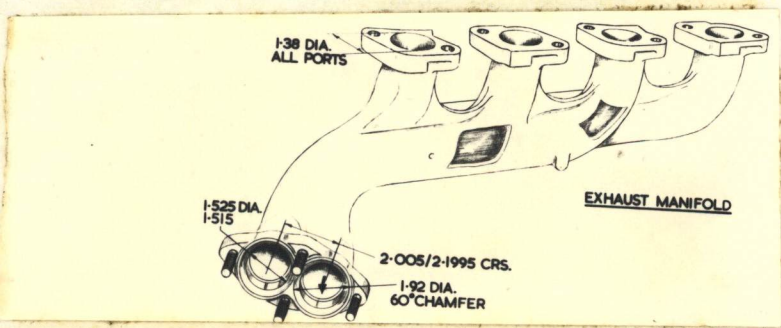
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



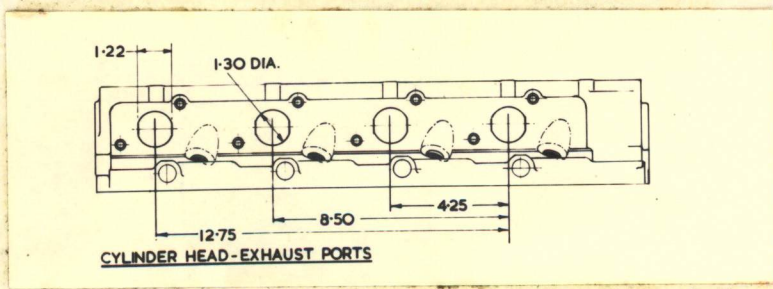
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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.

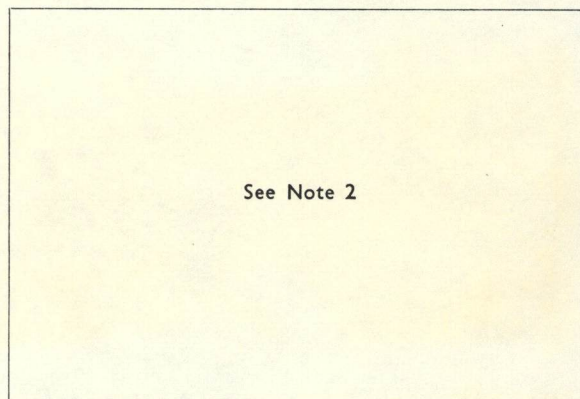
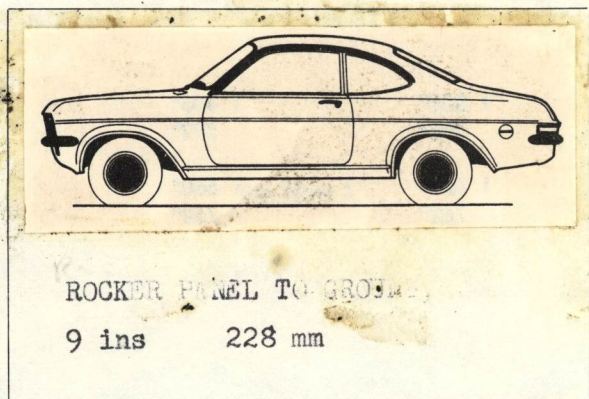


NOTE 1.

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

CAPACITIES AND DIMENSIONS

- | | | | | |
|----------------|------|-----|-------|--------|
| 1. Wheelbase | 2461 | mm. | 97 | inches |
| 2. Front track | | | | |
| | 1314 | mm. | 51,75 | inches |
| 3. Rear track | | | | |
| | 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 |
| 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 : | | | | |
| | 925 | kg. | 2040 | lbs. |
| | | | | 19,1 |
| | | | | 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 **FIRENZA SL**

F.I.A. Rec. No. **5hh3**

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 **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 **TUBULAR FRAME
BLOWN PVC**
- 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 **BLOWN P.V.C. SPRING CASE.**
- 44. Front bumper, material(s) **STEEL** Weight **3,6** kg. **8** lbs.
- 45. Rear bumper, material(s) **STEEL** Weight **3,1** kg. **7** lbs.

WHEELS

- 50. Type **DISC**
- 51. Weight (per wheel, without tyre) **5,6** kg. **12,4** 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 AND PINION**
- 61. Servo-assistance : **yes** — no
- 62. Number of turns of steering wheel from lock to lock **3,16**
- 63. In case of servo-assistance **-**

Make VAUXHALL

Model FIRENZA SL

F.I.A. Rec. No. 5463

SUSPENSION

- 70. Front suspension (photograph D), type **INDEPENDANT - 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 **TANDEM - ONE**
- 93. Number of cylinders per wheel **TWO**
- 94. Bore of wheel cylinder(s) **48,26** mm. **1,90** inches

Drum Brakes

- | | | | |
|-------------------------------|--|--------------------------|-------------------------------------|
| | | FRONT | ONE REAR |
| 95. Inside diameter | | mm. inches | 228,6 mm. 9 inches |
| 96. Length of brake linings | | mm. inches | 179,32 mm. 7,06 inches |
| 97. Width of brake linings | | mm. inches | 44,45 mm. 1,75 inches |
| 98. Number of shoes per brake | | | TWO |
| 99. Total area per brake | | mm. ² sq. in. | 16659 mm. ² 25,82sq. 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 Model FIRENZA SL F.I.A. Rec. No. 5hh3

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 **1975** cm.³ **120** 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) 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 **50,84** 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 **43,81** 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. **31,7** cm. **12,5** in.
- 157. Number of blades of cooling fan **8**

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** **9,2** kg. **20,3** lbs.
- 161. Flywheel with clutch (all turning parts) **15,4** 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.

FOUR STROKE ENGINES

170. Number of camshafts **ONE** 171. Location **HOUSING ON CYL. HD.**
 172. Type of camshaft drive **EXTERNAL TOOTHED BELT**
 173. Type of valve operation **CAM VIA INSERTED 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 **9,626** 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**
 203. Valves close at (with tolerance for tappet clearance indicated) **33,26**
 204. DIAMETER OUTLET ORIFICE EXHAUST MANIFOLD **1,92** ins. **4,8** mm X2

CARBURETION (photograph N)

210. Number of carburettors fitted **2** 211. Type **VARIABLE CHOKE**
 212. Make **ZENITH** 213. Model **175 CD**
 214. Number of mixture passages per carburettor **SINGLE VENTURI**
 215. Flange hole diameter of exit port(s) of carburettor **44,45** mm. **1,750** ins.
 216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU)
31,75 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**

Model **FIRENZA SL**

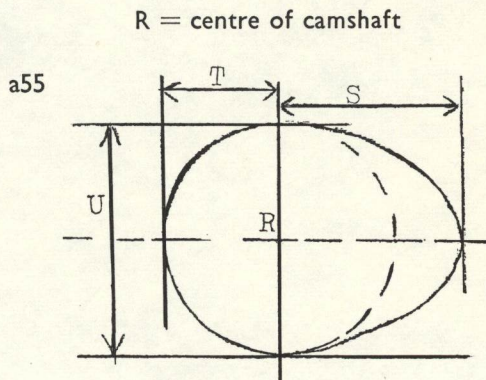
F.I.A. Rec. No. **5hh3**

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 **112** (type of horsepower: **BHP GROSS**) at **5250** r.p.m.
- 251. Max. r.p.m. output at that figure **NOT PUBLISHED**
- 252. Max. torque **127 LBS FT** at **3500** r.p.m.
- 253. Max. speed of the car **172** km./hour **107** miles/hour



Inlet cam

S =	28,879	mm.	1,137	inches
T =	19,05	mm.	,750	inches
U =	38,125	mm.	1,5	inches

Exhaust cam

S =	28,879	mm.	1,137	inches
T =	19,05	mm.	,750	inches
U =	37,82	mm.	1,489	inches

Make VAUXHALL

Model FIRENZA SL

F.I.A. Rec. No.

5hh3

DRIVE TRAIN

CLUTCH

- 260. Type of clutch DIAPHRAGM
- 261. No. of plates ONE
- 262. Dia. of clutch plates cm. 8,5 ins.
- 263. Dia. of linings, inside cm. 6,25 ins.
- outside cm. 8,44 ins.
- 264. Method of operating clutch CABLE LINKAGE

GEAR BOX (photograph H)

- 270. Manual type, make VAUXHALL Method of operation LEVER - DIRECT
- 271. No. of gear-box ratios forward 4
- 272. Synchronized forward ratios 4
- 273. Location of gear-shift FLOOR CENTRAL
- 274. Automatic, make GENERAL MOTORS type VH
- 275. No. of forward ratios 3
- 276. Location of gear shift FLOOR CENTRAL

277.	Manual		Automatic		Alternative manual/ automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.3:1	33/13	2.4:1 TO	4.8:1	3.3:1	33/13		
2	2.145:1	33/20	1.48:1 TO	2.9:1	2.141:1	28/17		
3	1.414:1	25/23	1.1 TO	2:1	1.362:1	22/21		
4	DIRECT				DIRECT			
5								
6								
reverse	3.064:1	33/14	1.92:1 TO	3.84:1	3.064:1	33/14		

- 278. Overdrive, type NOT FITTED
- 279. Forward gears on which overdrive can be selected
- 280. Overdrive ratio

FINAL DRIVE

- 290. Type of final drive HYPOID
- 291. Type of differential 2 PINION
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio 3.455:1
- Number of teeth 11/38

Make VAUXHALL

Model FIRENZA SL

F.I.A. Rec. No. 5hh3

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.

FINAL DRIVE - CODE 481

293 FINAL DRIVE RATIO 4.1/1

NUMBER OF TEETH 8/33

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.....VIVA FIRENZA

F.I.A. Recognition No. 5443

Amendment No. 1/IV

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. Reference No. GROUP ONE

VIVA FIRENZA

ALTERNATIVE GEAR RATIO'S

277.	2.521	30/14	1
	1.765	27/18	2
	1.353	23/20	3
		DIRECT	4
	2.773	33/14	REVERSE

ALTERNATIVE FINAL DRIVE RATIO

293. 3.727-1 11/41

Date amendment is valid from.....

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 FIRENZA

F.I.A. Recognition No. 5443

Amendment No. 2

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

ERRATUM

9 WEIGHT - SHOULD READ
925 KG. 2040 LBS. 18.2 CWTs.

Date amendment is valid from.....

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