F.I.A.	Recognition No.	1569
	2- 10	•



ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.I

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 VIVA 1600 DE LUXE
Serial No. of chassis/body 933118E1000000 ONNAR	Manufacturer VAUXHALL MOTORS
Serial No. of engine 3000001,	Manufacturer VAUXHALL MOTORS
Serial No. of engine 3000001. Recognition is valid from 1x1 July 1969	List 1969/
The manufacturing of the model described in this recog	nition form started onJUNE_1st1968
and the minimum production of 1,000 in	dentical cars, in accordance with the specifications of
this form was reached on APRIL 1st 19 6	

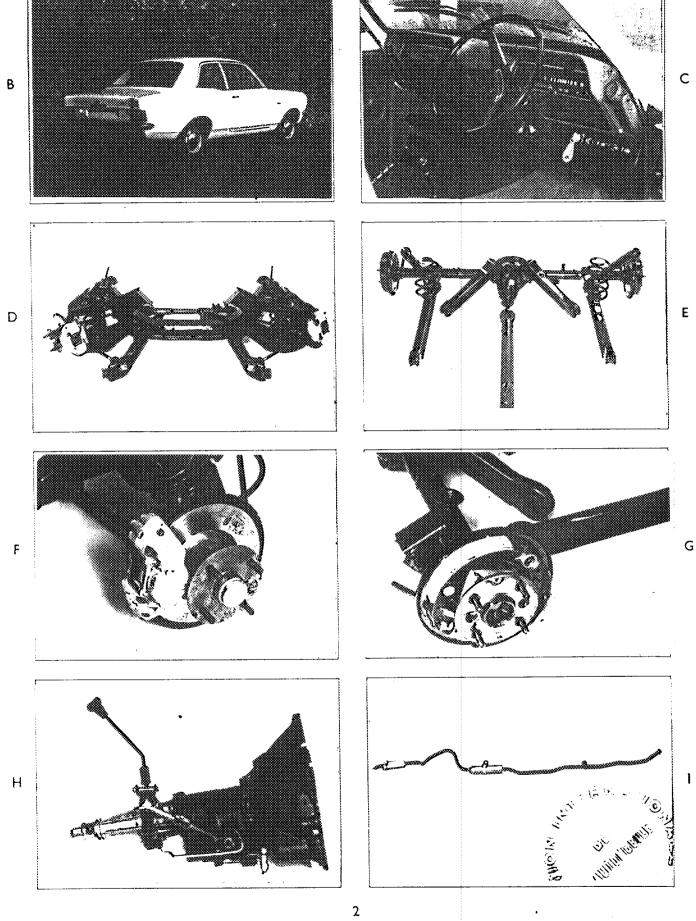
Photograph A, 3 view of car from front

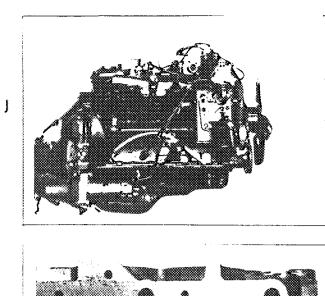


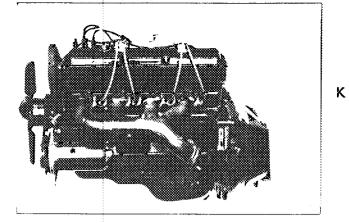
F.I.A. Stamp

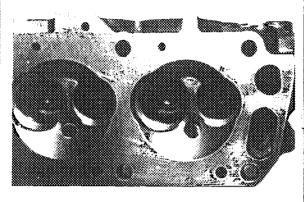
R.A.C. Stamp

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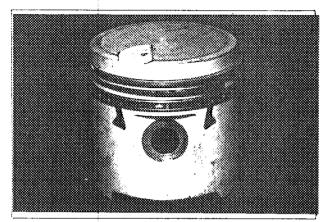




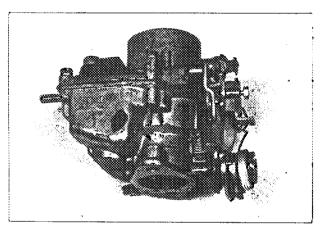
L

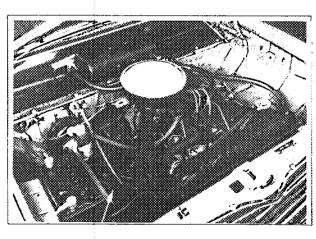
N

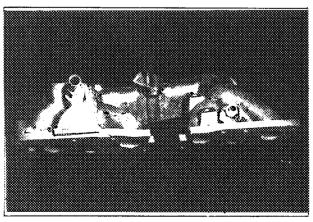
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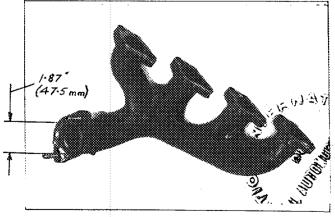


M









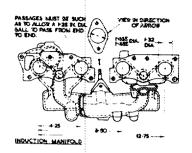
3

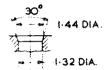
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

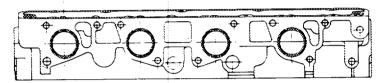
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

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

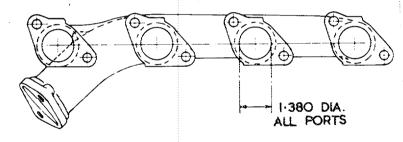
Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



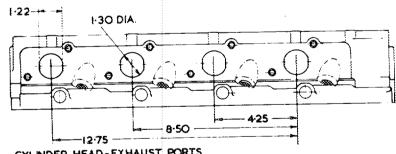




CYLINDER HEAD-INLET PORTS



EXHAUST MANIFOLD



CYLINDER HEAD-EXHAUST PORTS

NOTE 1.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase

2433.3

mm.

95.8

inches

2. Front track

3. Rear track

1295

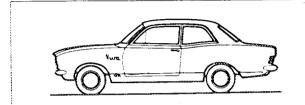
51

inches

1295

mm.

51 inches



mm.

Rocker panel to ground Rear 8.0 ins. 203.2 mm. Front 8.2 ins. 208.2 mm. See Note 2

4. Overall length of the car

409.45

cm. 161.2

inches

5. Overall width of the car

160,02

cm. 63

inches

6. Overall height of the car

135.39

cm.

inches

7. Capacity of fuel tank (reserve included)

36.37 ltrs.

9.61

gall. U.S.

8.0

53.3

gall. Imp.

- 8. Seating Capacity.
- 9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools:

863.64

kg.

1904

lbs.

17

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.	l quart US
I foot/pied	— 30.4794	cm.	1 pint (pt)
1 sq. inch/pouce carre	— 6.452	cm.²	1 gallon Imp.
1 cubic inch/pouce cube	<u> </u>	cm.3	1 gallon US
l pound/livre (lb)	— 453.593	gr.	I hundred weight (cwt.)



CHASSIS AND COACHWORK (Photographs A, B and C)

20.	Chassis/body construction: sexamene unitary construction		
21.	Unitary construction, material(s)	Steel	
22.	Separate construction, Material(s) of chassis	923	
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	Glass	
28.	Material(s) of windscreen	Laminat	ted or toughened glass
29.	Material(s) of front-door windows	Glass	8244
30.	Material(s) of rear-door windows	None	
31.	Sliding system of door windows		erated drop glass
32.	Material(s) of rear-quarter light	Glass	oravoa arob grass

ACCESSORIES AND UPHOLSTERY

38.	Interior heating	: yes — 🚱	39. Air conditioning	: xxex — no
40.	Ventilation	: yes — n oc	41. Front seats, type	of seat and upholstery Blown PVC
42.	Weight of front	seat(s), complete with su	pports and rails, out of the	car:
			0.012	ka a the

Glass

					9.843	kg.	21.7	lbs.
4 3.	Rear seats, type of seat and	upholstery	Blown	PVC .	- spring	case		
44.	Front bumper, material(s)	Steel	Weight		3.209	kg.	7.076	lbs.
4 5.	Rear bumper, material(s)	Steel	Weight		3.299	kg.	7.274	lbs.

WHEELS

50,	Туре	Disc				
51.	Weight (p	er wheel, without tyre)	1	kg.	8.41	lbs.
52	Method of	attachment / G =	•	ŭ	0.41	

34.	Method of at	tachment	4 S	tud						
53.	Rim diameter	304.8	mm.	12	ins.	54. Ri	m width	12 7 nm.	5.0	ins.
	or STEERING	330.2		13				139.7	5.5	のはまる

- 60. Type Rack & Pinion
- 61. Servo-assistance : yxxxx no
- 62. Number of turns of steering wheel from lock to lock 3.2
- 63. In case of servo-assistance

SUSPENSION

- Independent wishbone 70. Front suspension (photograph D), type
- 71. Type of spring Coil
- 72. Stabiliser (if fitted) Not fitted
- 74. Type 73. Number of shock absorbers Telescopic - double acting Two
- 78. Rear suspension (photograph E), type Beam axle 4 link suspension
- 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 Suspended vacuum

92.	Number of hydraulic master cylinders	One (option - twin master	cylinder - Code 494-
93.	Number of cylinders per wheel	Two FRONT	One REAR

94.	Bore of wheel cylinder(s)	48.26	mm.	1.90 inches	17.78 mm.	0.70 inches
	Drum Brokes					

95.	Inside diameter	mm.	inches	203.2 mm.	8.0	inches
~ .			· t			. ,

76. Length of brake linings	HIEFF.	inchez	159.57mm	6 •∠8	inches

	97.	Width of brake i	inings		mm.		inches	31.75mm.	1.25	inches
--	-----	------------------	--------	--	-----	--	--------	----------	------	--------

Disc Brakes

98. Number of shoes per brake

100. Outside diameter	213.36 ° m	nm. 8.4inches	mm.
101. Thickness of disc	9,53 m	nm. 37jnches	mm.

104. Number of pags per brake	TWO	

inches

inches

130. Cycle	4 stroke	131. Number of cylinders Fe	our
		· ·	

157 Number of blades of cooling fan

Bearings

Weights

INLET (see page 4)*

180. Material(s) of inlet manifold Aluminium alloy casting

181. Diameter of valves ins. 43.05 1.695

9.65 mm. •380 in. 182. Max. valve lift 183. Number of valve springs

184. Type of spring Helical coil 185. Number of valves per cylinder One

186. Tappet clearance for checking timing (cold) .203 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 mm. ins. 36.07 1.695

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) ins. mm. ,203 **.**008

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 One 211. Type Downdraught

213. Model 36IV 212. Make Zenith

214. Number of mixture passages per carburettor Single choke

1.418 ins. 215. Flange hole diameter of exit port(s) of carburettor mm. 36.02

216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example: SU)

1.142 ins. mm. 29

INJECTION (if fitted)

225. Minimum diameter of inlet pipe

221. Number of plungers 220. Make of pump

222. Model or type of pump 223. Total number of injectors

224. Location of injectors

* For additional information concerning two-stroke engines and super-charged engines, see page 13.

ENGINE ACCESSORIES

- 230. Fuel pump: mechanical and/sociations.
- 231. No. fitted One
- 232. Type of ignition system Coil
- 233. No. of distributors One

- 234. No. of ignition coils
- 0ne
- 235. No. of spark plugs per cylinder One
- 236. Generator, type: xixmante/alternator—number

- 237. Method of drive Belt
- 238. Voltage of generator

volts 12

239. Battery, number

0ne

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
- 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.

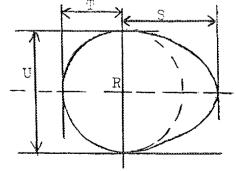
inches

inches

- 253. Max. speed of the car
- 149.66
- km./hour
- 93 miles/hour

R = centre of camshaft

a55



Inlet cam

$$S = 28.879$$

$$T = 19.050$$

$$S = 28.879$$

 $T = 18.821$

$$U = 37.821$$

$$U = 37.82$$

mm. mm.

mm.

mm.

mm.

mm.

1.137

0.750

inches

10

DRIVE TRAIN

CLUTCH

260. Type of clutch Diaphragm	261. No. of plates	One		
262. Dia. of clutch plates	20.39	cm.	8,03	ins.
263. Dia. of linings, inside	14.63	cm.	5.76	ins.
outsid e	20,39	cm.	8.03	ins.

264. Method of operating clutch Cable linkage

GEAR BOX (photograph H)

270. Manual type, make Vauxhall Method of operation

Lever and linkage

271. No. of gear-box ratios forward

272. Synchronized forward ratios

273. Location of gear-shift

Floor central

274. Automatic, make

Borg Warner

type Model 35

275. No. of forward ratios

Three

276. Location of gear shift

Central - floor

277.	Manual Ratio No.	Aut teeth Ratio	omatic No. teeth	Ratio	Alternative man	nual/automatic Ratio	No. teetl
1	2,786:1 30	/14 2.39 t	0 4.78:1			-	
2	1.981:1 32	/21 1.45 t	0 2.9:1				
3	1.413:1 25	/23 1.1 to	2:1				
4	Direct		!				
5			i				
6						į	
reverse	3.064:1 33	1/14 2.09 t	ω 4.18:1				

278. Overdrive, type

279. Forward gears on which overdrive can be selected

280. Overdrive ratio

FINAL DRIVE

290. Type of final drive

Hypoid

291. Type of differential

Bevel

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

293. Final drive ratio

4.125:1 3.9:1

Number of teeth

8/33 or 9/

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	19rec. no	List	on	19 rec. no.	List
				19 rec. no.	
				19 rec. no.	
				19 rec. no	
				19 rec. no	
O/1	17 Fec. 110	LI3 t		i i i i i i i i i i i i i i i i i i i	

Optional equipment affecting preceding information. This to be stated together with reference number.

- Tandem master cylinder (Code 494) Heavy duty suspension (Code 357)
- 8810415 Front spring (2 off) 71
- 8810416 RH 8810457 LH Rear spring 79
- 78 Heavy duty axle
- Fuel tank Fart No. 7211279 7 54.5 litres 14.4 U.S. Galls. 12 Imp Galls.

Manufacturing Tolerances

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



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

MUXHA	ILL- VIVA.	1600 DECUTE	7/69	1569
	MARQUE ET MOD	ELE	VALIDITE HOMOLOGATION	FICHE NR.
				2/1600
				GROUPE / CLASSE
EXTENSIONS	DEBUT VALIDITE	DESC	RIPTION	NOTES
Autres homologat	ons du modèle			
	, 1			
Vérifiée le . 25	Mor Ju	visée ce jour le .	par _	
ŕ	·			PAG. AIA