

Manufacturers Reference No. for Application

VBS2/61



F.I.A. Recognition No.

1118

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer The Austin Motor Company Limited

Model Vanden Plas Princess 3 litre Mk. II Year of Manufacture 1961

Serial No. of Chassis V-BS2 or V-BS2L

Engine 29VA/OUH, 29VA/AH, 29VA/OUL, or 29VA/AL

Type of Coachwork Saloon - 4 door

Recognition is valid from 27 FEV 1962 In category Touring

liste générale 9
.. ad. di. honnelle 7



Photo

right.

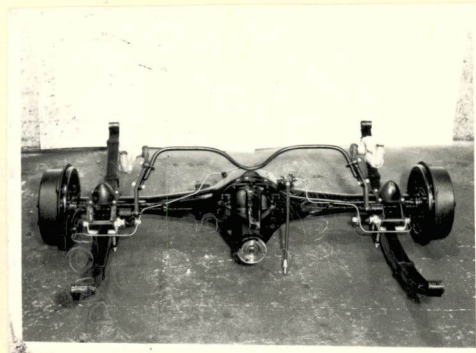
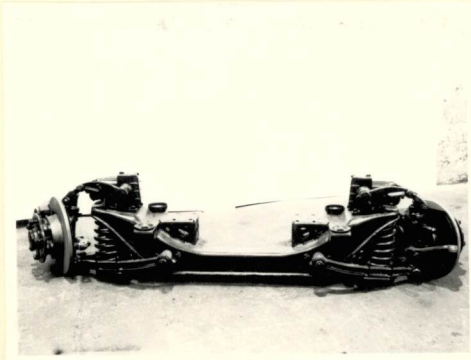
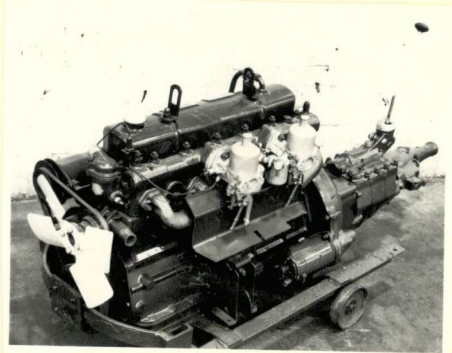
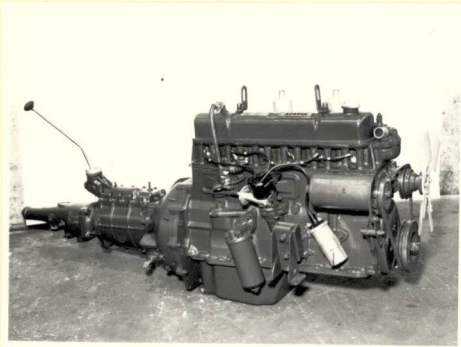


Stamp of F.I.A. to be
affixed here.

General description of car:

4 door steel saloon of unitary construction powered by 6 cylinder OHV engine driving rear axle through synchromesh or automatic gearbox. Suspension - Independent by coil spring at front three quarter floating axle at rear using semi-elliptic leaf spring.

Photographs to be affixed below.



ENGINE

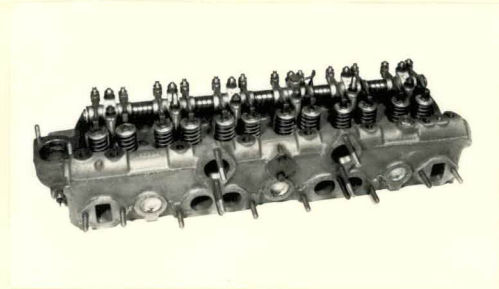
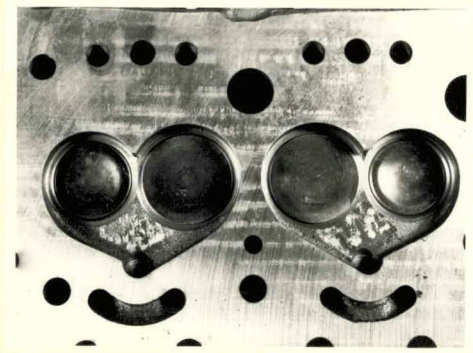
in line Yes
 No. of cylinders 6 in V -
 opposed -
 Cycle 4 stroke Firing order 1,5,3,6,2,4.
 Capacity 2912 c.c. Bore 83.5 m.m. Stroke 89.012 m.m.
 Maximum rebore 1.016mm Resultant capacity 2983.45 c.c.
 Material of cylinder block Cast Iron Material of sleeves, if fitted -
 Distance from crankshaft centre line to top face of block at centre line of cylinders 260.35 m.m.
 Material of cylinder head Cast Iron Volume of one combustion chamber 48.2 c.c.
 Compression ratio 9.5 or 8.3:1
 Material of piston Aluminium alloy No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 47.625 m.m.
 Bearings { Crankshaft main bearings: Type Lead - indium Dia. 60.31 m.m.
 Connecting rod big end: Type Lead - indium Dia. 34.137 m.m.
 Weights { Flywheel 12.7 kg.
 Crankshaft 26.75 kg.
 Connecting rod .987 kg.
 Piston with rings .498 kg.
 Gudgeon pin .136 kg.
 No. of valves per cylinder 2 Method of valve operation Push rod & rocker
 No. of camshafts 1 Location of camshafts Cylinder block
 Type of camshaft drive Chain
 Diameter of valves: Inlet 42.86 m.m. Exhaust 36.0 m.m.
 Diameter of port at valve seat: Inlet 35.115 m.m. Exhaust 30.365 m.m.
 Tappet clearance for checking timing: Inlet 0.61 m.m. Exhaust 0.61 m.m.
 Valves open: Inlet 5° BTDC Exhaust 51° BBDC
 Valves close: Inlet 45° ABDC Exhaust 21° ATDC
 Maximum valve lift: Inlet 9.266 m.m. Exhaust 9.266 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 145° Exhaust 139°
 $\frac{3}{4}$ Maximum lift: Inlet 96° Exhaust 86°
 Valve springs: Inlet Exhaust
 Type Coil Coil
 No. per valve 2 2
 Carburettor: Type Horizontal No. fitted 2
 (up or down draft, horizontal)
 Make S.U. Model H4
 Flange hole diameter 38.099 m.m. Choke diameter 34.925 m.m.
 Main jet identification No. 0.090" - needle M5

Air filter: Type Paper element No. fitted 1

Inlet manifold:

Diameter of flange hole at carburettor 38.099 m.m.

Diameter of flange hole at port 41.273 m.m.



Exhaust manifold:

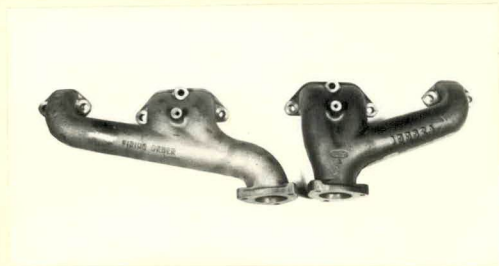
Diameter of flange hole at port Outer 25.4 x 42.86 centre 34.925 m.m.

Diameter of flange hole at connection to silencer inlet pipe 44.45 m.m.

Photograph



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ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted 1

Method of operation Electrical

Type of ignition system Coil coil or magneto

Make of ignition Lucas Model 25D6

Method of advance and retard Vacuum & centrifugal

Make of ignition coil Lucas Model HA12

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C12

Voltage of dynamo 12 Maximum output 30 amps.

Make of starter motor Lucas Model M1L8G

Battery: No. fitted 1 Voltage 12 Capacity 58 or 72 amp. hour

Princess

Make Vanden Plas Model 3 litre Mk. II F.I.A. Recognition No.
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TRANSMISSION

Make of clutch Borg & Beck Type Single dry plate
 Diameter of clutch plate 10" No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox B.M.C. Type 3 speed/O-drive, 4 speed or automatic
 No. of gearbox ratios 3 forward, 1 reverse or 4 forward, 1 reverse
 Method of operating gearshift Manual or automatic
 Location of gearshift Central on floor
 Is overdrive fitted? Yes
 Method of controlling overdrive, if fitted Push-pull control on dash panel

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.095:1	$\frac{26}{18} \times \frac{30}{14}$	2.87:1	$\frac{25}{20} \times \frac{13}{30}$				
2.	1.65:1	$\frac{26}{18} \times \frac{24}{21}$	2.06:1	$\frac{25}{20} \times \frac{17}{20}$				
3.	1.0:1		1.31:1	$\frac{25}{20} \times \frac{22}{23}$				
4.			1.0:1					
$\frac{1}{R}$	3.00:1	$\frac{26}{18} \times \frac{27}{13}$	3.72:1					

Type of final drive Hypoid - Three quarter floating
 Type of differential Bevel
 Final drive ratio 3.909:1 Alternatives 3.545:1, 4.1:1, 4.3:1
 No. of teeth 11/43 11/39, 10/41, 10/43
 Overdrive ratio, if fitted 0.7:1

WHEELS

Type Disc Weight with tyre - 18.6 kg.
 Method of attachment Nut & stud
 Rim diameter 355.6 m.m. Rim width 127 m.m.
 Tyre size: Front 7.00 x 14 Rear 7.00 x 14

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? Yes
 Type of servo, if fitted Suspended vacuum
 No. of hydraulic master cylinders 1 Bore 22.25 m.m.

	Front		Rear
No. of wheel cylinders	4		2
Bore of wheel cylinders	53.97	m.m.	20.32
Inside diameter of brake drums	-	m.m.	254.0
No. of shoes per brake	-		2
Outside diameter of brake discs	274.3	m.m.	-
No. of pads per brake	2		-
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)			

	Front		Rear
Length	Segmental 136.5 x 82.55 x 55 x 45°	m.m.	241.3
		m.m.	m.m.
Width	-	m.m.	76.2
Total area per brake	9352	m.m. ²	36770
			m.m. ²

SUSPENSION

	Front	Rear
Type	Independent	Semi elliptic spring
Type of spring	Coil	leaf
Is stabiliser fitted?	Yes	Yes
Type of shock absorber	Hydraulic lever	Hydraulic lever
No. of shock absorbers	2	2

STEERING

Type of steering gear	Cam & roller
Turning circle of car	12.5
	m., approx.
No. of turns of steering wheel from lock to lock	4 $\frac{1}{8}$

CAPACITIES AND DIMENSIONS

Fuel tank	72.7	litres	Sump	6.54	litres
Radiator	4.83	litres			
Overall length of car	477.5	cm.	Overall width of car	174	cm.
Overall height of car, unladen (with hood up, if appropriate)	150	cm.			
Distance from floor to top of windscreen:					
Highest point	111.	cm.	Lowest point	80.0	cm.
Width of windscreen:					
Maximum width	139.7	cm.	Minimum width	124.4	cm.
*Interior width of car	139.7	cm.			
No. of seats	4				
Track: Front	136.6	cm.	Rear	135.2	cm.
Wheelbase	279.4	cm.	Ground clearance	179	m.m.

*(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel 1360 kgs.

Additional information for cars fitted with two-cycle engines

System of cylinder scavenging.....

Type of lubrication.....

Size of inlet port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of exhaust port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of transfer port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of piston port:

Length measured around piston..... m.m.

Height..... m.m. Area..... m.m.²

Method of pre-compression.....

Bore and stroke of pre-compression cylinder, if fitted..... m.m.

Distance from top of cylinder block to lowest point of inlet port..... m.m.

Distance from top of cylinder block to highest point of exhaust port..... m.m.

Distance from top of cylinder block to highest point of transfer port..... m.m.

Drawing of cylinder ports.

Supercharger, if fitted

Make..... Model or Type No.....

Type of drive..... Ratio of drive.....

Fuel injection, if fitted

Make of pump..... Model or Type No.....

Make of injectors..... Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—

Export suspension
Low compression pistons - 7.2:1