

Manufacturers Reference No. for Application

P5/3/W



F.I.A. Recognition No.

1063

ROYAL AUTOMOBILE CLUB

(1962)

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

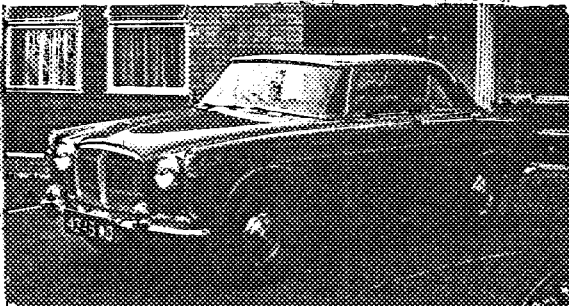
Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer Rover Co. Ltd.
 Model P.5 3 Litre Saloon Year of Manufacture 1962.
 Serial No. of Chassis 77000001.
 Engine 77000001.
 Type of Coachwork 4 Door Saloon.

Basic Recognition is valid from 10 JUIN 1961 In category T 'A'

~~with officials from~~
1962 Evolution of type from:

Photograph to be affixed here $\frac{3}{4}$ view of car from front right.



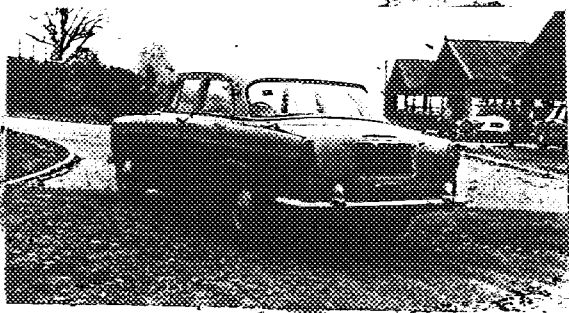
Stamp of F.I.A. to be affixed here.



General description of car:

Photographs to be affixed below.

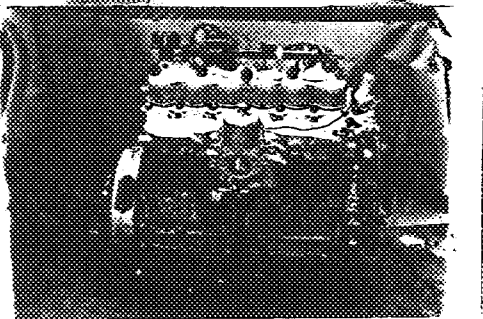
¾ view of car from rear left.



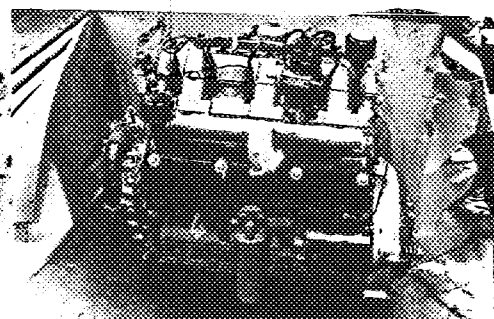
Interior view of car through driver's door.



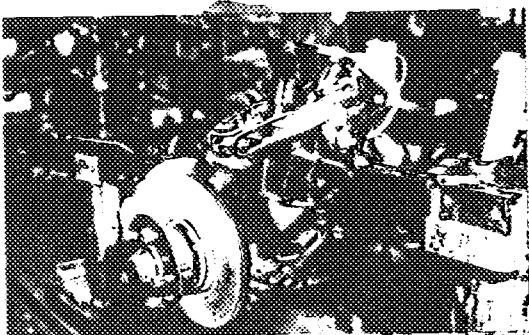
Engine unit with accessories from right.



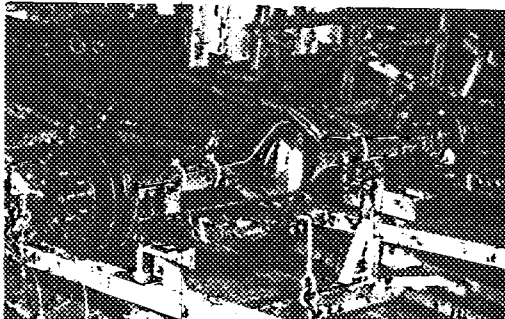
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).

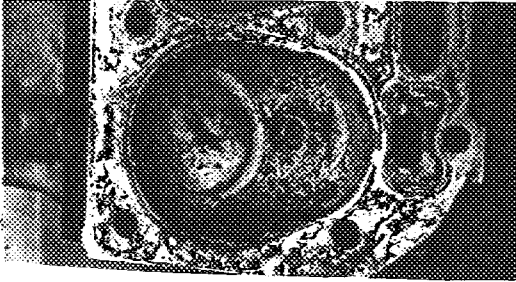


ENGINE

No. of cylinders	6	in line	Yes.	
		in V	-	
		opposed	-	
Cycle	4	Firing order		
Capacity	2995	c.c.	Bore	77.8 m.m.
			Stroke	105 m.m.
Maximum rebore	1 M.M.	Resultant capacity	3.02	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			318281	
Material of cylinder head	Aluminium Alloy	Volume of one combustion chamber	64.3	c.c.
Compression ratio	8.75 - 1.			
Material of piston	Aluminium Alloy	No. of piston rings	18	
Distance from gudgeon pin centre line to highest point of piston crown				m.m.
Bearings	Crankshaft main bearings: Type	Copper Lead	Dia.	60 m.m.
	Connecting rod big end: Type	Lead Bronze	Dia.	51.03 m.m.
Weights	Flywheel	9.038		kg.
	Crankshaft	22.989		kg.
	Connecting rod	.7202		kg.
	Piston with rings	.4099		kg.
	Gudgeon pin	.0851		kg.
No. of valves per cylinder	2	Method of valve operation	Push Rod.	
No. of camshafts	1	Location of camshafts	Side	
Type of camshaft drive	Chain			
Diameter of valves: Inlet	45.06	m.m.	Exhaust	32.01 m.m.
Diameter of port at valve seat: Inlet	39.03	m.m.	Exhaust	29.04 m.m.
Tappet clearance for checking timing: Inlet	.152	m.m.	Exhaust	.254 m.m.
Valves open: Inlet	13° B.T.D.C.		Exhaust	48° B.B.D.C.
Valves close: Inlet	45° A.B.D.C.		Exhaust	16° A.T.D.C.
Maximum valve lift: Inlet	1.05	m.m.	Exhaust	1.05 m.m.
Degrees of crankshaft rotation from zero to—				
Maximum lift: Inlet	119°		Exhaust	254°
¾ Maximum lift: Inlet	79°		Exhaust	225°
Valve springs:		Inlet	Exhaust	
Type	Coil		Coil.	
No. per valve	2		2	
Carburettor: Type	Horizontal	No. fitted	1	
	(up or down draft, horizontal)			
Make	S.U.	Model	H D 8.	
Flange hole diameter	54	m.m.	Choke diameter	variable. m.m.
Main jet identification No.	U.R.	U.K.		

Air filter: Type Paper Element. No. fitted 1.
 Inlet manifold:
 Diameter of flange hole at carburettor 50.79 m.m.
 Diameter of flange hole at port Gallery Head. m.m.

Photograph of combustion chamber to be affixed here.

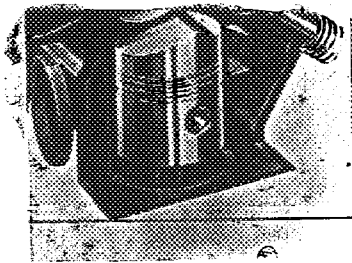


Photograph of inlet manifold to be affixed here.

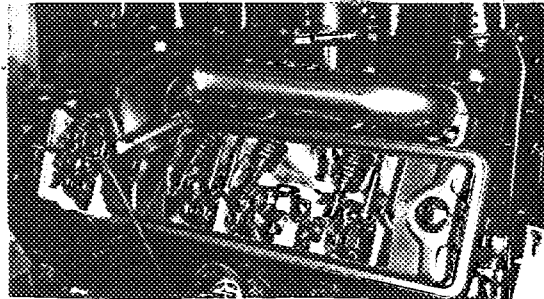


Exhaust manifold:
 Diameter of flange hole at port 50.79 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 50.79 m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

Make of fuel pump	<u>S.U.</u>	No. fitted	<u>2</u>
Method of operation	<u>Electric</u>		
Type of ignition system	<u>Coil</u>		<u>coil or magneto</u>
Make of ignition	<u>Lucas</u>	Model	<u>Distributor</u>
Method of advance and retard	<u>Centrifugal & Vacuum.</u>		
Make of ignition coil	<u>Lucas</u>	Model	<u>HA 12</u>
No. of ignition coils	<u>1</u>	Voltage	<u>12</u>
Make of dynamo	<u>Lucas</u>	Model	<u>C.42</u>
Voltage of dynamo	<u>12</u>	Maximum output	<u>30</u> amps.
Make of starter motor	<u>Lucas</u>	Model	<u>M 45 G.</u>
Battery: No. fitted	<u>1</u>	Voltage	<u>12</u>
		Capacity	<u>72</u> amp. hour

Make Rover Model 3 Litre F.I.A. Recognition No. P5/3/W.
 Manufacturers Reference No. of Application P5/3/W.

TRANSMISSION

Make of clutch Borg & Beck. Type Dry Plate.
 Diameter of clutch plate 10" No. of plates One
 Method of operating clutch Hydraulic.
 Make of gearbox Rover. Type 4 Forward 1 Reverse.
 No. of gearbox ratios 4 Forward 1 Reverse.
 Method of operating gearshift Manual.
 Location of gearshift Central on Floor.
 Is overdrive fitted? Yes.
 Method of controlling overdrive, if fitted Electrical.

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.376:1	$\frac{23 \times 37}{20 \times 19}$						
2.	2.043:1	$\frac{21 \times 29}{20 \times 22}$	1.887:1	$\frac{21 \times 28}{20 \times 23}$				
3.	1.377:1	$\frac{21 \times 27}{20 \times 24}$	1.274:1	$\frac{21 \times 28}{20 \times 23}$				
4.	1.0:1	DIRECT						
REVERSE	2.968:1	$\frac{21 \times 22 \times 37}{20 \times 17 \times 25}$						

Type of final drive Spiral Bevel.
Bevel.
 Type of differential Bevel.
 Final drive ratio 3.9 Alternatives 4.7 4.3 3.54
 No. of teeth 10-47 10-43 13-46.
 Overdrive ratio, if fitted .778:1. & .822-1.

WHEELS

Type Pressed. Weight 9.82 kg.
 Method of attachment 5 Stud.
 Rim diameter 380,238. m.m. Rim width 127.0 m.m.
 Tyre size: Front 710 x 15 or 670 x 15 Rear 710 x 15 or 670 x 15.

BRAKES

Method of operation Hydraulic.
 Is servo assistance fitted? Yes.
 Type of servo, if fitted Girling Vacuum Cylinder.
 No. of hydraulic master cylinders 1 Bore 19.04. m.m.

	Front		Rear	
No. of wheel cylinders	4		2	
Bore of wheel cylinders	60.579	m.m.	19.05	m.m.
Inside diameter of brake drums	-	m.m.	279.4	m.m.
No. of shoes per brake	-		2	
Outside diameter of brake discs	273.8	m.m.	-	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	95.37	m.m.	219.529	m.m.
	x 53.21.	m.m.		m.m.
Width	60.325	m.m.	57.15	m.m.
Total area per brake	8963.13	m.m. ²	25092.06	m.m. ²

SUSPENSION

	Front		Rear	
Type	Independent.		Leaf.	
Type of spring	Laminated Torsion-Bar.		Semi-Elliptic.	
Is stabiliser fitted?	Yes.		No.	
Type of shock absorber	Telescopic		Telescopic.	
No. of shock absorbers	2		2	

STEERING

Type of steering gear	Burman Recirculating Ball or Hydrosteer Power.		
Turning circle of car	11.73 M.		m., approx.
No. of turns of steering wheel from lock to lock	4 $\frac{1}{4}$	or	2 $\frac{1}{4}$

CAPACITIES AND DIMENSIONS

Fuel tank	63.4 or 110.	litres	Sump	5.7	litres
Radiator	13	litres			
Overall length of car	473.7	cm.	Overall width of car	177.8	cm.
Overall height of car, unladen (with hood up, if appropriate)	153	cm.			
Distance from floor to top of windscreen:					
Highest point	106.38	cm.	Lowest point	103	cm.
Width of windscreen:					
Maximum width	134.2	cm.	Minimum width	120.3	cm.
*Interior width of car	150.9.	cm.			
No. of seats	4				
Track: Front	140.97	cm.	Rear	142.24	cm.
Wheelbase	280.67.	cm.	Ground clearance	184.15.	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 1581. 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:—

SUMP GUARD.

Battery 12 V 57 AMP Hours.

BORG-WARNER AUTOMATIC TRANSMISSION.

CAM SHAFT.

Valves Open	Inlet 17°	B.T.D.C.	Exhaust 45°	B.B.D.C.
Valves Close	Inlet 41°	A.B.D.C.	Exhaust 13°	A.T.D.C.

Degree of crankshaft rotation from zero to:—

Maximum Lift	Inlet 102°	Exhaust 254°
$\frac{3}{4}$ Maximum Lift	Inlet 57°	Exhaust 209°

Alternative compression ratio 8-1.

