

Manufacturers Reference No. for Application

P4/4.



F.I.A. Recognition No.

1205

# 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..... ROVER  
Model..... '110' ..... Year of Manufacture..... 1962  
Serial No. of Chassis..... 76500001  
Engine..... 76500001  
Type of Coachwork..... SALOON.  
Recognition is valid from..... 9/5/63 ..... In category..... TOURING.

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



Stamp of F.I.A./R.A.C. to be  
affixed here.

Form: R.F.I.A.

General description of car:

*Specify here material/s of  
chassis/body construction*

Photographs to be affixed below.

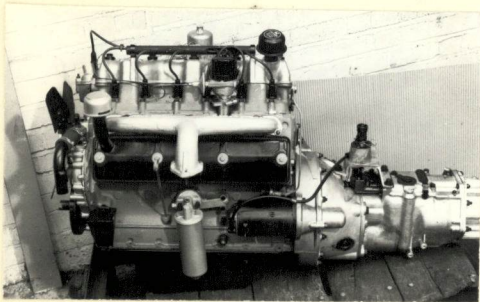
*$\frac{3}{4}$  view of car from rear left.*



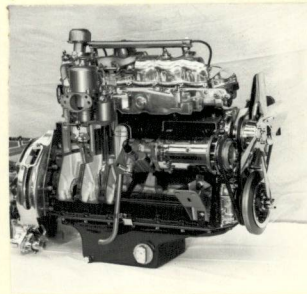
*Interior view of car through driver's door.*



*Engine unit with accessories from right.*



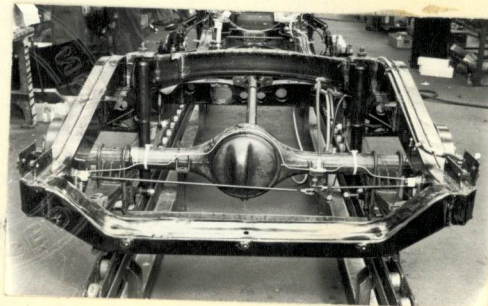
*Engine unit with accessories from left.*



*Front axle complete (without wheels).*



*Rear axle complete (without wheels).*



# ENGINE

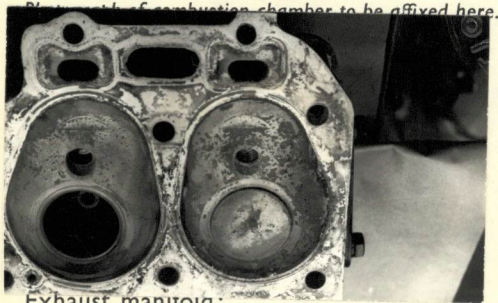
No. of cylinders..... 6 ..... in line ..... yes. ....  
 ..... in V ..... - .....  
 ..... opposed ..... - .....  
 Cycle..... 4 ..... Firing order.....  
 Capacity..... 2625 ..... c.c. Bore..... 77.8 ..... m.m. Stroke..... 92.075 ..... m.m.  
 Maximum rebore..... 1mm ..... Resultant capacity..... 3.02 ..... 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 ..... m.m.  
 Material of cylinder head..... alluminium ..... Volume of one combustion chamber..... 56.1 ..... c.c.  
 Compression ratio..... 8.8 ..... 7.8 opt. ....  
 Material of piston..... alluminium 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. 57.1 m.m.  
 Connecting rod big end: Type Lead Bronze Dia. 47.6 m.m.  
 Weights { Flywheel..... 12.1 ..... kg.  
 Crankshaft..... 24.3 ..... kg.  
 Connecting rod..... .935 ..... kg.  
 Piston with rings..... .44 ..... 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..... 46.3 ..... m.m. Exhaust..... 32.8 ..... m.m.  
 Diameter of port at valve seat: Inlet..... 39.03 ..... m.m. Exhaust..... 29.04 ..... m.m.  
 Tappet clearance for checking timing: Inlet..... .006 ..... m.m. Exhaust..... .010 ..... m.m.  
 Valves open: Inlet..... 11° B.T.D.C. .... Exhaust..... 46° B.B.D.C. ....  
 Valves close: Inlet..... 47° A.B.D.C. .... Exhaust..... 18° A.T.D.C. ....  
 Maximum valve lift: Inlet..... 9.828 ..... m.m. Exhaust..... 9.828 ..... m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet..... 11U ..... Exhaust..... 256 .....  
 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..... 50.8 ..... m.m. Choke diameter..... 50.8 ..... m.m.  
 Main jet identification No..... S.U. needle UG. ....

Air filter: Type paper element No. fitted 1

Inlet manifold:

Diameter of flange hole at carburettor 50.8 m.m.

Diameter of flange hole at port 38.6 m.m.

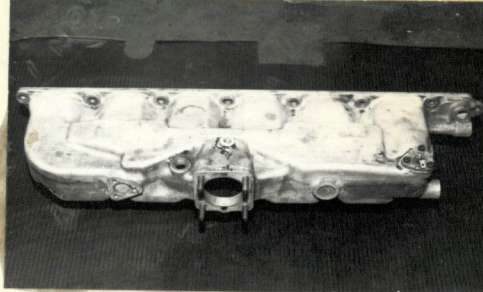


Exhaust manifold:

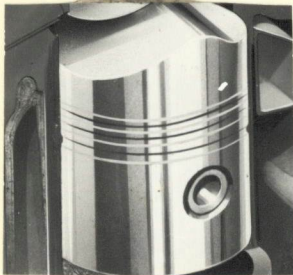
Diameter of flange hole at port 50.79 m.m.

Diameter of flange hole at connection to silencer inlet pipe 50.72 m.m.

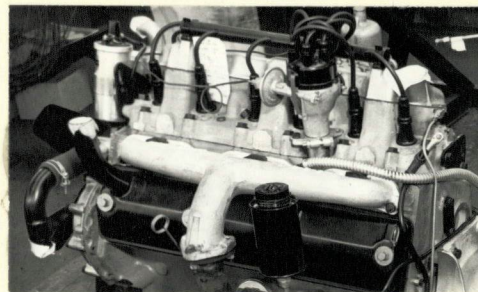
Photograph of inlet manifold to be affixed here.



Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



## ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted 2

Method of operation electrical

Type of ignition system coil coil or magneto

Make of ignition Lucas Model 12 V

Method of advance and retard centrifugal & vacuum.

Make of ignition coil Lucas Model HA 12.

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C.40

Voltage of dynamo 12 Maximum output 22 amps.

Make of starter motor Lucas Model

Battery: No. fitted 1 Voltage 12 Capacity 57 amp. hour

Oil Cooler (if fitted) type - Capacity - pints

Make..... Model 110 F.I.A. Recognition No.....  
 Manufacturers Reference No. of Application..... P4/4

**TRANSMISSION**

Make of clutch..... Borg & Beck Type..... Dry Plate  
 Diameter of clutch plate..... 9" No. of plates..... 1  
 Method of operating clutch..... Mechanical  
 Make of gearbox..... Rover Type..... Synchromesh  
 No. of gearbox ratios..... 4  
 Method of operating gearshift..... Manual  
 Location of gearshift..... 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          | 20 x $\frac{31}{17}$ x 37. |                    |              |       |              |       |              |
| 2. | 2.043          | 20 x $\frac{31}{22}$ x 29. |                    |              |       |              |       |              |
| 3. | 1.377          | 20 x $\frac{31}{27}$ x 24. |                    |              |       |              |       |              |
| 4. | 1.             |                            |                    |              |       |              |       |              |
| 5. |                |                            |                    |              |       |              |       |              |

Type of final drive..... crown wheel.  
 Type of differential..... spiral bevel.  
 Final drive ratio..... 4.3 Alternatives..... 3.9  
 No. of teeth..... 10 - 43 10 - 39.  
 Overdrive ratio, if fitted..... .778

**WHEELS**

Type..... Pressed steel Weight..... 9.82 kg.  
 Method of attachment..... 5 stud.  
 Rim diameter..... 380.238 m.m. Rim width..... 127.0 m.m.  
 Tyre size: Front..... 640/15 Rear..... 640/15

**BRAKES**

Method of operation..... Hydraulic.  
 Is servo assistance fitted?..... yes.  
 Type of servo, if fitted..... Girling vacuum.  
 No. of hydraulic master cylinders..... 1 Bore..... 25.4 m.m.

|   | Front |      | Rear          |
|---|-------|------|---------------|
| No. of wheel cylinders  | N/A   |      | one per wheel |
| Bore of wheel cylinders   | N/A   | m.m. | 19.050 m.m.   |
| Inside diameter of brake drums  | N/A   | m.m. | 279.4 m.m.    |
| No. of shoes per brake  | N/A   |      | 2             |
| Outside diameter of brake discs   | 274   | m.m. | N/A m.m.      |
| No. of pads per brake   | 2     |      | N/A           |
| 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               | 153   | m.m.              | 220 m.m.                |
|                      | -     | m.m.              | - m.m.                  |
| Width                | 60.33 | m.m.              | 57 m.m.                 |
| Total area per brake | 9225  | m.m. <sup>2</sup> | 25080 m.m. <sup>2</sup> |

### SUSPENSION

|                        | Front       |  | Rear                |
|------------------------|-------------|--|---------------------|
| Type                   | independant |  | solid axle.         |
| Type of spring         | coil        |  | semi elliptic leaf. |
| Is stabiliser fitted?  | yes         |  | No.                 |
| Type of shock absorber | hydraulic   |  | hydraulic.          |
| No. of shock absorbers | 2           |  | 2                   |

### STEERING

|  |                 |             |
|--|-----------------|-------------|
| Type of steering gear                            | worm and nut    |             |
| Turning circle of car                            | 11.25           | m., approx. |
| No. of turns of steering wheel from lock to lock | 4 $\frac{1}{2}$ |             |

### CAPACITIES AND DIMENSIONS

|   |        |        |                      |        |        |
|---|--------|--------|----------------------|--------|--------|
| Fuel tank   | 52     | litres | Sump                 | 6      | litres |
| Radiator  | 10     | litres |                      |        |        |
| Overall length of car   | 453    | cm.    | Overall width of car | 167    | cm.    |
| Overall height of car, unladen (with hood up, if appropriate) | 162    | cm.    |                      |        |        |
| Distance from floor to top of windscreen :                    |        |        |                      |        |        |
| Highest point   | 10.411 | cm.    | Lowest point         | 10.411 | cm.    |
| Width of windscreen :   |        |        |                      |        |        |
| Maximum width   | 11.684 | cm.    | Minimum width        | 10.922 | cm.    |
| *Interior width of car  | 13.722 | cm.    |                      |        |        |
| No. of seats  | 415    |        |                      |        |        |
| Track: Front  | 133    | cm.    | Rear                 | 131    | cm.    |
| Wheelbase   | 282    | cm.    | Ground clearance     | 181    | 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 1437. 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.<sup>2</sup>

Size of exhaust port:

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

Height..... m.m. Area..... m.m.<sup>2</sup>

Size of transfer port:

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

Height..... m.m. Area..... m.m.<sup>2</sup>

Size of piston port:

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

Height..... m.m. Area..... m.m.<sup>2</sup>

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:—