

Manufacturers Reference No. for Application

KJ.2.



F.I.A. Recognition No. 117

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 A.C. CARS LIMITED, HIGH STREET, THAMES DITTON, SURREY.

Model A.C. ACE BRISTOL Year of Manufacture 1963

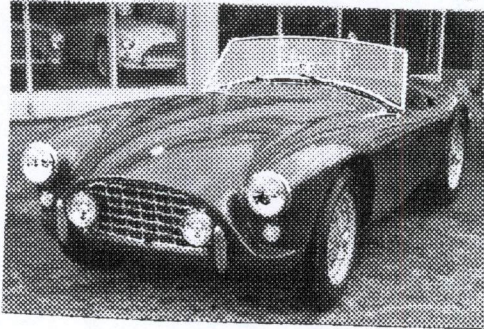
Serial No. of Chassis BE and BEX

Engine "B" "C" "D" and "BS"

Type of Coachwork OPEN SPORTS WITH TWO SEATS

Recognition is valid from Regularisation le 9/5/63 In category G.T.

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.

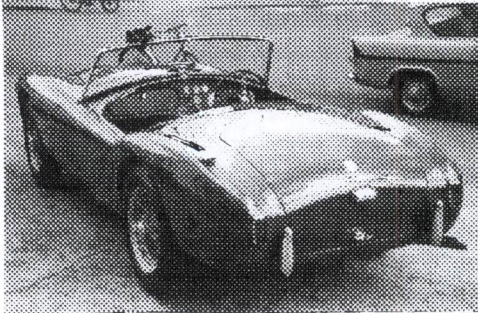
Form: R.F.I.A.

General description of car:

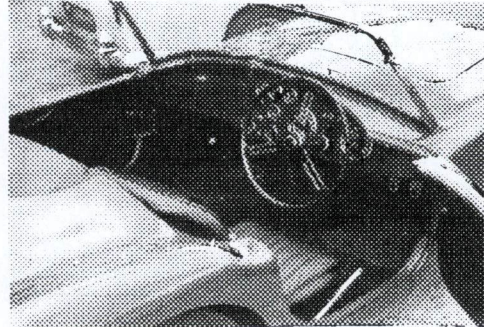
Specify here material/s of chassis/body construction

Photographs to be affixed below.

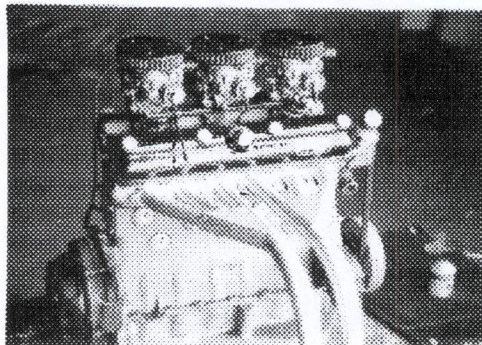
¾ view of car from rear left.



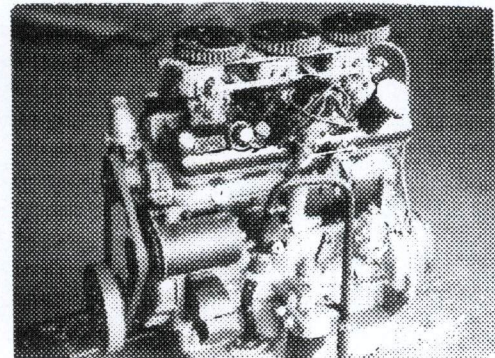
Interior view of car through driver's door.



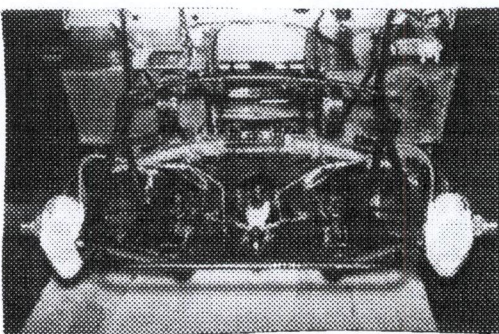
Engine unit with accessories from right.



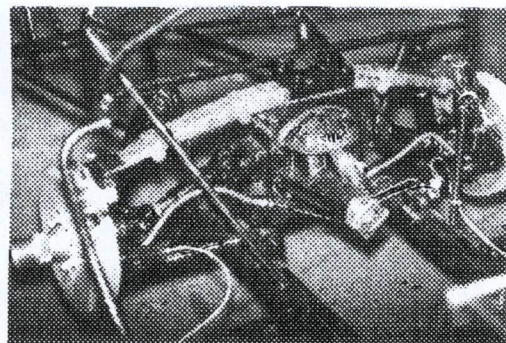
Engine unit with accessories from left.



Front axle complete (without wheels)



Rear axle complete (without wheels).



ENGINE

in line IN LINE
 No. of cylinders SIX in V =
 opposed =
 Cycle FOUR Firing order 1-5-3-6-2-4
 Capacity 1971 c.c. Bore 2.59" 66 m.m. Stroke 3.78" 96 m.m.
 Maximum rebore Re line to standard Resultant capacity 1971 c.c.
 Material of cylinder block CAST IRON Material of sleeves, if fitted BRIVADIL[®] DRY
 Distance from crankshaft centre line to top face of block at centre line of cylinders 255.27 m.m.
 Material of cylinder head ALUMINIUM Volume of one combustion chamber 68 c.c.
 Compression ratio 9:1 or 9.5:1
 Material of piston ALUMINUM ALLOY No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 9.5 to 1 60.5 58.98 m.m. 9 to 1
 Bearings { Crankshaft main bearings: Type SHELL Dia 53.9624 m.m.
 Connecting rod big end: Type SHELL Dia 44.9851 m.m.
 Weights { Flywheel 7.48 kg.
 Crankshaft 20.8 kg.
 Connecting rod .596 kg.
 Piston with rings .28349 kg. 9.5 to 1 piston
 Gudgeon pin .06024 kg. 8.5 piston .31184 Kg. with rings and gudgeon
 No. of valves per cylinder TWO Method of valve operation PUSHROD SPIN.
 No. of camshafts ONE Location of camshafts IN CYLINDER BLOCK
 Type of camshaft drive CHAIN
 Diameter of valves: Inlet 1.6 40.64 m.m. Exhaust 1.310 33.27 m.m.
 Diameter of port at valve seat: Inlet 1.5 38.10 m.m. Exhaust 1.380 29.72 m.m.
 Tappet clearance for checking timing: Inlet 1.118 m.m. Exhaust 1.118 Cold 28.40 m.m.
 Valves open: Inlet 10° BTDC Exhaust 50° BBDC
 Valves close: Inlet 50° ABDC Exhaust 10° ATDC
 Maximum valve lift: Inlet 343" 8.79 m.m. Exhaust 343" 8.79 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 172° Exhaust 172°
 ¼ Maximum lift: Inlet 113° Exhaust 113°
 Valve springs: Inlet Type COIL SPRING Exhaust Type COIL SPRING
 No. per valve TWO TWO
 Carburettor: Type DOWNDRAFT No. fitted THREE
 (up or down draft, horizontal)
 Make SOLEX Model B.32PB 1-6
 Flange hole diameter 33.338 m.m. Choke diameter 28 m.m.
 Main jet identification No. 125

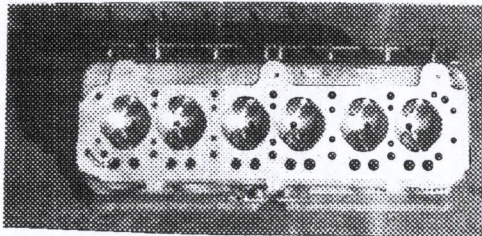
Air filter: Type..... DRY ELEMENT No. fitted THREE

Inlet manifold:

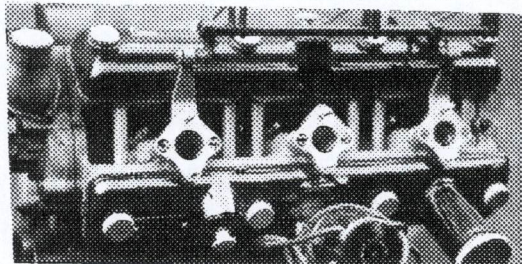
Diameter of flange hole at carburettor..... 31.0 m.m.

Diameter of flange hole at port..... 29.97 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.

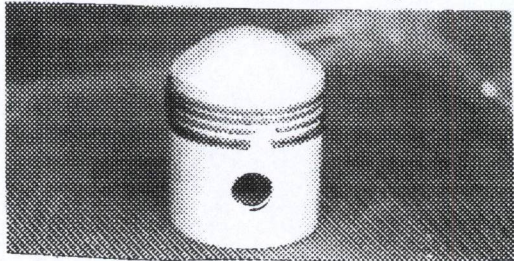


Exhaust manifold:

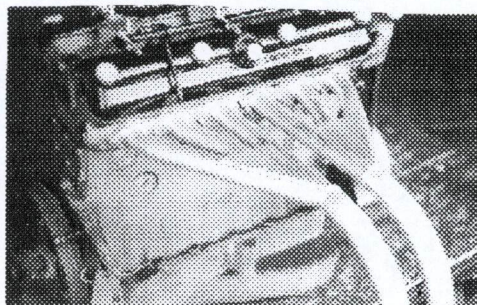
Diameter of flange hole at port..... 31.75 m.m.

Diameter of flange hole at connection to silencer inlet pipe..... 3 1.75 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..... A.C. TYPE No. fitted ONE

Method of operation..... DRIVEN OFF CAMSHAFT

Type of ignition system..... LUCAS 12 VOLT COIL HA12 coil or magneto

Make of ignition..... DISTRIBUTOR LUCAS Model DXH 6A 40551A

Method of advance and retard..... AUTOMATIC AND MANUAL

Make of ignition coil..... LUCAS HA 12 Model HA 12

No. of ignition coils..... ONE Voltage 12 VOLT

Make of dynamo..... LUCAS Model C.39 PV.2

Voltage of dynamo..... LUCAS C39 PV-2 Maximum output 24 amps.

Make of starter motor..... LUCAS M35G/1 Model TYPE WG.3

Battery: No. fitted ONE Voltage 12 Capacity 60 amp. hour

Oil Cooler (if fitted) type GALLAY Capacity $\frac{1}{2}$ APPROX. pints

	Front	Rear
No. of wheel cylinders	TWO EACH WHEEL	ONE EACH WHEEL
Bore of wheel cylinders	54.97 m.m.	22.225 m.m.
Inside diameter of brake drums	m.m.	279.4 m.m.
No. of shoes per brake	TWO PADS EACH BRAKE	TWO SHOES EACH BRAKE
Outside diameter of brake discs	295.275 m.m.	NIL m.m.
No. of pads per brake	TWO	NIL
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	90 m.m.	250.825 m.m.
	m.m.	273.00 m.m.
Width	58/61 m.m.	44.45 m.m.
Total area per brake	11100 9096.8 sq. m.m. ²	23064.6 sq. 23284 m.m. ²

SUSPENSION

	Front	Rear
Type	INDEPENDENT	INDEPENDENT
Type of spring	TRANSVERSE LEAF PLATE	TRANSVERSE LEAF PLATE
Is stabiliser fitted?	NO	NO
Type of shock absorber	ARMSTRONG TELESCOPIC	ARMSTRONG TELESCOPIC
No. of shock absorbers	TWO	TWO

STEERING

Type of steering gear.....CAM

Turning circle of car.....10.363 m., approx.

No. of turns of steering wheel from lock to lock.....TWO

CAPACITIES AND DIMENSIONS

Fuel tank.....59.097 litres Sump.....12 pints 6.81 litres

Radiator.....10.226 litres

Overall length of car.....384.81 cm. Overall width of car.....151.13 cm.

Overall height of car, unladen (with hood up, if appropriate).....124.49 cm.

Distance from floor to top of windscreen:

 Highest point.....92.71 cm. Lowest point.....88.90 cm.

Width of windscreen:

 Maximum width.....137.16 cm. Minimum width.....116.8 cm.

*Interior width of car.....127 cm.

No. of seats.....TWO

Track: Front.....127 cm. Rear.....127 cm.

Wheelbase.....228.6 cm. Ground clearance.....152.4 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.....1.685 764.303 Kgs. 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:—

Double fuel pump

Fuel tank capacity	20 Gallons	90.92 litres	
Low compression	Inlet Valve dia.	1.540	39.12
Cylinder Head	Inlet Port dia.	1.125	35.56

Exhaust valves as High Compression head.

Manufacturers Reference No. for Application

732



F.I.A. Recognition No.

732 A

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Amendment to Form of Recognition

Manufacturer..... A.C. CARS LIMITED, HIGH STREET, THAMES DITTON, SURREY.

Model..... A.C. ACE BRISTOL (1971 cc)

Add to Optional Equipment :

Anti-roll bar, front and rear.

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

Date amendment is valid from

26th 8/74
November 4th 1963

Form: R.F.I.B.

