Manufacturers Reference No. for Application

SPRITE MK II

F.I.A. Recognition No. 52

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.I.

Federation Internationale de l'Automobile.

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

Manufacturer Austin Motor Co.Ltd. in association with Donald Healey Motor Co Ltd.

Model Austin Healey Sprite - Mk.II. Year of Manufacture 1961

Serial No. of Chassis H-AN6L , H-AN6 / 101

Engine 9CG-U-H & XSP.

Type of Coachwork Two Seater Sports

Recognition is valid from 15 FEV 1962 In category G.T.

Photograph to be affixed here ¾ view of car from front right.

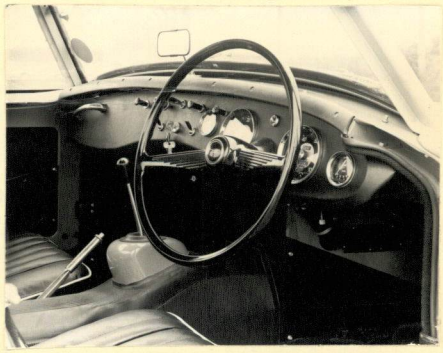
Stamp of F.I.A. to be affixed here.

General description of car:

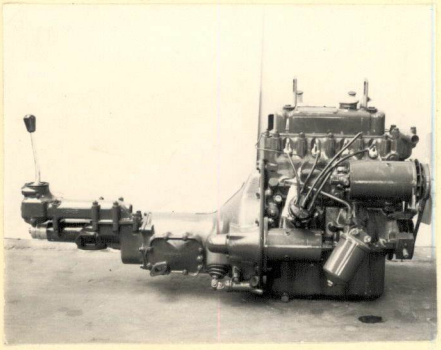
Photographs to be affixed below.

¾ view of car from rear left.

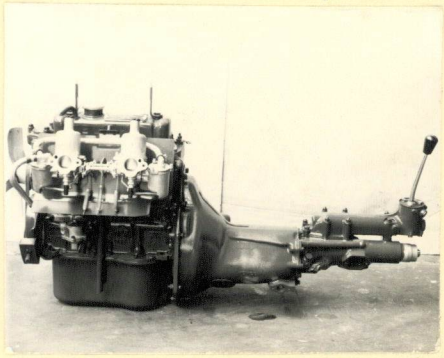
Interior view of car through driver's door.



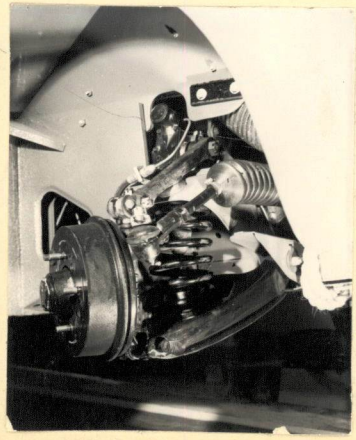
Engine unit with accessories from right.



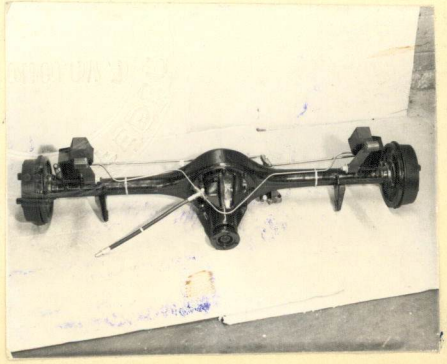
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

No. of cylinders 4 — in line YES; in V -; opposed -

Cycle Four Stroke — Firing order 1342

Capacity 948.9 c.c. — Bore 62.94 m.m. — Stroke 76.2 m.m.

Maximum rebore 63.956 — Resultant capacity 979.62 c.c.

Material of cylinder block Cast Iron — Material of sleeves, if fitted Cast Iron

Distance from crankshaft centre line to top face of block at centre line of cylinders 218.44 m.m.

Material of cylinder head Cast Iron — Volume of one combustion chamber 29.598 c.c.

Compression ratio 9.1 : 1

Material of piston Aluminium Alloy — No. of piston rings 3

Distance from gudgeon pin centre line to highest point of piston crown 34.024 m.m.

Bearings:
- Crankshaft main bearings: Type Steel backed lead indium — Dia. 44.47 m.m.
- Connecting rod big end: Type Steel backed lead indium — Dia. 41.29 m.m.

Weights:
- Flywheel 9.513 kg.
- Crankshaft 9.17 kg.
- Connecting rod .69 kg.
- Piston with rings .224 kg.
- Gudgeon pin .055 kg.

No. of valves per cylinder 2 — Method of valve operation Push rod

No. of camshafts 1 — Location of camshafts Cylinder Block

Type of camshaft drive Chain

Diameter of valves: Inlet 29.36 m.m. — Exhaust 25.4 m.m.

Diameter of port at valve seat: Inlet 26.19 m.m. — Exhaust 23.019 m.m.

Tappet clearance for checking timing: Inlet 0.533 m.m. — Exhaust 0.533 m.m.

Valves open: Inlet 5° BTDC — Exhaust 51° BBDC

Valves close: Inlet 45° ABDC — Exhaust 21° ATDC

Maximum valve lift: Inlet 7.97 m.m. — Exhaust 7.97 m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet 130 degrees — Exhaust 136 degrees) .015"

¾ Maximum lift: Inlet 81 degrees — Exhaust 83 degrees) clearance) at valve

Valve springs:

	Inlet	Exhaust
Type	Coil	Coil
No. per valve	2	2

Carburettor: Type Semi - down draft (up or down draft, horizontal) — No. fitted 2

Make S.U. — Model H.S.2 or H.4.

Flange hole diameter 31.75 or 38.1 m.m. — Choke diameter 31.75 or 38.1 m.m.

Main jet identification No. .090" Bore.

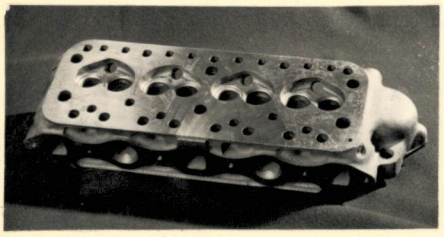
Air filter: Type Dry - Replaceable element No. fitted 2

Inlet manifold:

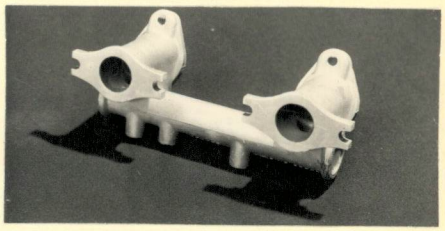
Diameter of flange hole at carburettor 33.337 m.m.

Diameter of flange hole at port 30.1623 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



Centre 25.4 x 26.987
Outers 22.2242 x 26.987

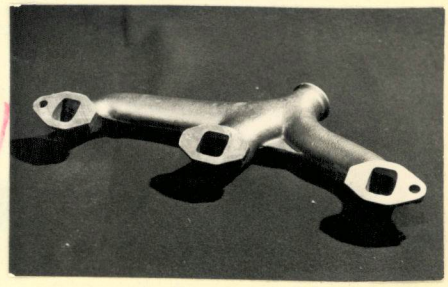
Exhaust manifold:

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

Diameter of flange hole at connection to silencer inlet pipe 28.575 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 AC. Delco No. fitted 1

Method of operation Mechanical diaphragm operated by camshaft

Type of ignition system Coil coil or magneto

Make of ignition Lucas Model DM 2

Method of advance and retard Centrifugal and Vacuum

Make of ignition coil Lucas Model 6 LA 12

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C 39 PV 2

Voltage of dynamo 12 Maximum output 19 amps.

Make of starter motor Lucas Model M 35 G

Battery: No. fitted 1 Voltage 12 Capacity 43 amp. hour

Make Austin Healey Model Sprite F.I.A. Recognition No.

Manufacturers Reference No. of Application

TRANSMISSION

Make of clutch Borg and Beck Type 6.1/4 AG

Diameter of clutch plate 6.1/4 ins. No. of plates 1

Method of operating clutch Hydraulic

Make of gearbox Austin. Type Synchromesh 2,3 & Top

No. of gearbox ratios 4 forward 1 reverse

Method of operating gearshift Remote control lever

Location of gearshift Central floor

Is overdrive fitted? No

Method of controlling overdrive, if fitted -

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.2 : 1							
2.	1.916 : 1							
3.	1.357 : 1							
4.	1.00 : 1							
5.	4.114 : 1							

Type of final drive Hypoid

Type of differential Bevel

Final drive ratio 4.22 : 1 Alternatives -

No. of teeth 9 / 38

Overdrive ratio, if fitted -

WHEELS

Type Disc Weight 5.209 kg.

Method of attachment 4 Studs

Rim diameter 330.2 m.m. Rim width 132.08 ? m.m.

Tyre size: Front 5.20 x 13 Rear 5.20 x 13

BRAKES

Method of operation Hydraulic

Is servo assistance fitted? No

Type of servo, if fitted -

No. of hydraulic master cylinders 1 Bore 22.22 m.m.

	Front	Rear
No. of wheel cylinders	2	1
Bore of wheel cylinders	23.81 or 56. m.m.	22.22 m.m.
Inside diameter of brake drums	177.8 m.m.	177.8 m.m.
No. of shoes per brake	2	2
Outside diameter of brake discs	221 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	171.45 OR 59 m.m.	171.45 m.m.
	- m.m.	- m.m.
Width	31.75 OR 42 m.m.	31.75 m.m.
Total area per brake	- m.m.^{2}	- m.m.^{2}

SUSPENSION

	Front	Rear
Type	Independent	Quarter elliptic
Type of spring	Coil	Leaf
Is stabiliser fitted?	No	No
Type of shock absorber	Lever arm	Lever arm
No. of shock absorbers	Two	Two

STEERING

Type of steering gear: Rack and pinion

Turning circle of car: 9.60 m., approx.

No. of turns of steering wheel from lock to lock: 2.25

CAPACITIES AND DIMENSIONS

Fuel tank: 27.24 litres Sump: 3.69 litres

Radiator: 4.114 litres

Overall length of car: 349.5 cm. Overall width of car: 134.6 cm.

Overall height of car, unladen (with hood up, if appropriate): 126.4 cm.

Distance from floor to top of windscreen:

Highest point: 92.71 cm. Lowest point: 91.44 cm.

Width of windscreen:

Maximum width: 108.585 cm. Minimum width: 106.68 cm.

*Interior width of car: 119.38 cm.

No. of seats: 2

Track: Front: 116.2 cm. Rear: 113.8 cm.

Wheelbase: 203.2 cm. Ground clearance: 127 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: 690.4 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 preceeding information:—

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

MARQUE ET MODELE	VALIDITE HOMOLOGATION	FICHE NR.
AUSTIN HEALEY - SPRITE MK II	2/62 -	52.

	GROUPE / CLASSE
	GT / 1000

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 26/2/96 par [signature] visée ce jour le _____ par _____