

verification de points

Manufacturers Reference No. for Application

ADO. 41/64



F.I.A. Recognition No. 161

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 in association with Donald Healey Motor Co. Ltd.

Model Austin Healey Sprite MK III Year of Manufacture 1964

Serial No. of Chassis HAN - 8

Engine 1000 -Da- H or L

Type of Coachwork G.T.

Recognition is valid from 11th April 1964 In category Grand Touring

Handwritten signature and notes:
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H. J. [unclear]



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

Form: R.F.I.A.

Make Austin Healey Mode Sprite MK III F.I.A. Recognition No.

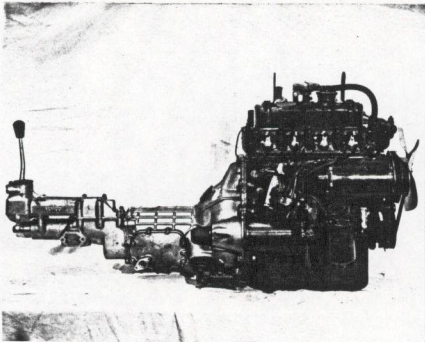
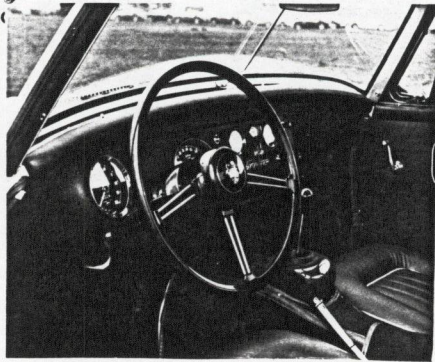
General description of car:

Specify here material/s of chassis/body construction

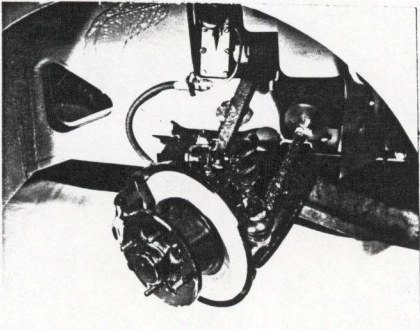
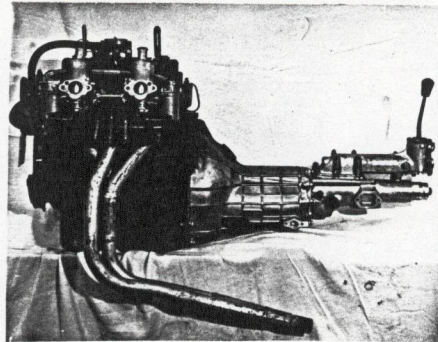
Two seater G.T. of steel/aluminium unitary construction powered by 4 cylinder OHV engine driving hypoid final drive through synchromesh 4 speed gearbox. Front suspension 3/4 floating axle, semi elliptic leaf springs.



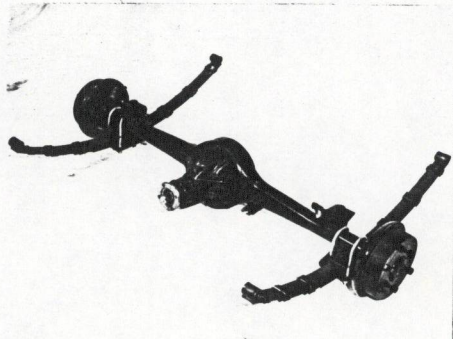
Photographs to be affixed



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(els).



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

ENGINE

in line Yes Catalogued B.H.P. 61
No. of cylinders 4 in V at R.P.M. 5750
opposed

Cycle 4 stroke Firing order 1, 3, 4, 2

Capacity 1098 c.c. Bore 64.58 m.m. Stroke 83.72 m.m.

Maximum rebore 1.2 mm Resultant capacity 1138 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 218.3 / 218.57 m.m.

Material of cylinder head Cast Iron Volume of one combustion chamber 28.29 c.c.

Compression ratio 8.9:1

Material of piston Aluminium Alloy No. of piston rings 4

Distance from gudgeon pin centre line to highest point of piston crown 30.33 m.m.

Bearings { Crankshaft main bearings: Type Copper Lead Dia. 50.8 m.m.
Connecting rod big end: Type Copper Lead Dia. 41.28 m.m.

Weights { Flywheel 9.5 kg.
Crankshaft 10.0 kg.
Connecting rod 0.68 kg.
Piston with rings 0.183 kg.
Gudgeon pin 0.057 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 35.6 m.m. Exhaust 30.9 m.m.

Diameter of port at valve seat: Inlet 33.7 m.m. Exhaust 28.9 m.m.

Tappet clearance for checking timing: Inlet 0.41 m.m. Exhaust 0.41 m.m.

Valves open: Inlet 50° BTDC Exhaust 75° BBDC

Valves close: Inlet 70° ABDC Exhaust 45° ATDC

Maximum valve lift: Inlet 10.01 m.m. Exhaust 10.01 m.m.

Degrees of crankshaft rotation from zero to—
Maximum lift: Inlet 152° Exhaust 152°

$\frac{3}{4}$ Maximum lift: Inlet 93° Exhaust 93°

Valve springs: Inlet Exhaust
Type Coil Coil
No. per valve 2 2

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

Make S.U. Model HS2 or H4

Flange hole diameter 31.75 m.m. Choke diameter Variable m.m.

Main jet identification No. 0.090"

Alternative carburettor equipment:-

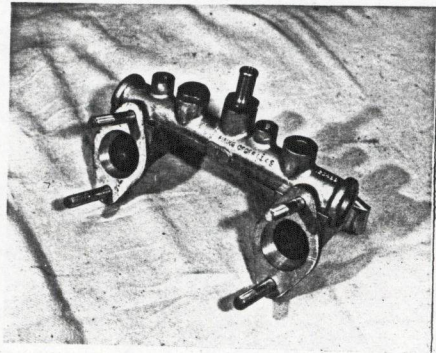
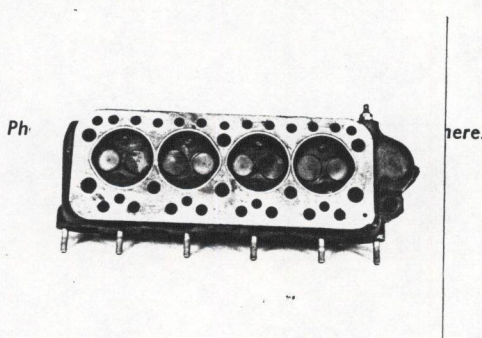
Type - horizontal No. fitted - 1 Make - Weber

Model - 45DCOE Complete with manifold - AEA.603/4

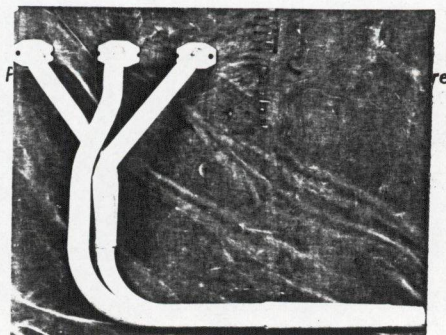
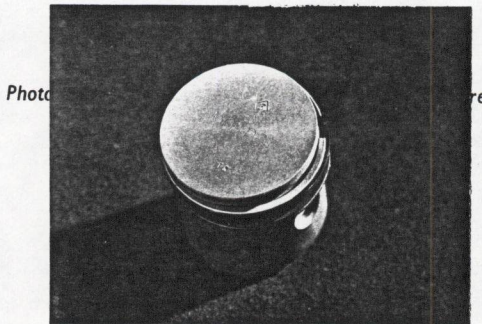
Make Austin Healey Model Sprite MK III F.I.A. Recognition No.

Air filter: Type Dry replacement element No. fitted 2

Inlet manifold:
 Diameter of flange hole at carburettor 33.33 m.m.
 Diameter of flange hole at port 31.75 m.m.



Exhaust manifold:
 Diameter of flange hole at port Outer 22.2 x 26.9 Centre 25.4 x 26.98 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 38.1 m.m.



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 25D4
 Method of advance and retard Centrifugal & vacuum
 Make of ignition coil Lucas Model LA12
 No. of ignition coils 1 Voltage 12
 Make of dynamo Lucas Model C40
 Voltage of dynamo 12 Maximum output 22 amps.
 Make of starter motor Lucas Model M35G
 Battery: No. fitted 1 Voltage 12 Capacity 43 amp. hour
 Oil Cooler (if fitted) type Capacity pints

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TRANSMISSION

Make of clutch Borg & Beck Type Single plate 7 $\frac{1}{2}$ "
 Diameter of clutch plate 7 $\frac{1}{4}$ " No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox B.M.C. Type Synchro 2nd, 3rd, Top
 No. of gearbox ratios 4 forward, 1 reverse
 Method of operating gearshift Manual
 Location of gearshift Central, between seats
 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	$\frac{26}{20} \times \frac{32}{13}$	3.627:1	$\frac{28}{19} \times \frac{32}{13}$	2.93:1	$\frac{25}{21} \times \frac{32}{13}$		
2.	1.918:1	$\frac{26}{20} \times \frac{28}{19}$	2.374:1	$\frac{28}{19} \times \frac{29}{18}$	1.754:1	$\frac{25}{21} \times \frac{28}{19}$		
3.	1.357:1	$\frac{26}{20} \times \frac{24}{23}$	1.412:1	$\frac{28}{19} \times \frac{23}{24}$	1.242:1	$\frac{25}{21} \times \frac{24}{23}$		
4.	1.0:1		1.0:1		1.0:1			
6.R.	4.114:1	$\frac{20}{20} \times \frac{18}{13} \times \frac{32}{14}$	4.66:1	$\frac{28}{19} \times \frac{18}{13} \times \frac{32}{14}$	3.768:1	$\frac{25}{21} \times \frac{18}{13} \times \frac{32}{14}$		

Type of final drive Hypoid
 Type of differential Bevel or limited slip
 Final drive ratio 4.22:1 Alternatives 4.55:1, 5.375:1, 3.727:1, 3.9:1, 4.875:1
 No. of teeth 9/38 9/41, 8/43, 11/41, 10/39, 8/39
 Overdrive ratio, if fitted _____

WHEELS

Type Disc or wire spoke Weight 5.209 kg.
 Method of attachment 4 stud or centre lock cap
 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 19.05 m.m.

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	Front	Rear
No. of wheel cylinders	<u>4</u>	<u>2</u>
Bore of wheel cylinders	<u>50.8</u> m.m.	<u>19.05</u> m.m.
Inside diameter of brake drums m.m.	<u>177.8</u> m.m.
No. of shoes per brake	<u>2</u>
Outside diameter of brake discs	<u>209.5</u> m.m. m.m.
No. of pads per brake	<u>2</u>
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	<u>Approx. 58.9</u> m.m.	<u>177.7</u> m.m.
 m.m. m.m.
Width	<u>Approx. 41.6</u> m.m.	<u>31.8</u> m.m.
Total area per brake	<u>Approx. 4900</u> m.m. ²	<u>11302.</u> m.m. ²

SUSPENSION

	Front	Rear
Type	<u>Independent</u>	<u>Semi elliptic</u>
Type of spring	<u>Coil</u>	<u>Leaf</u>
Is stabiliser fitted?	<u>No</u>	<u>No</u>
Type of shock absorber	<u>Lever arm - hydraulic</u>	<u>Lever arm - hydraulic</u>
No. of shock absorbers	<u>2</u>	<u>2</u>

STEERING

Type of steering gear	<u>Rack & pinion</u>
Turning circle of car	<u>9.6</u> m., approx.
No. of turns of steering wheel from lock to lock	<u>2.25</u>

CAPACITIES AND DIMENSIONS

Fuel tank	<u>27.24</u> litres	Sump	<u>5.69</u> litres
Radiator	<u>4.114</u> litres		
Overall length of car	<u>349.5</u> cm.	Overall width of car	<u>134.6</u> cm.
Overall height of car, unladen (with hood up, if appropriate)	<u>126.4</u> cm.		
Distance from floor to top of windscreen:			
Highest point	<u>91.44</u> cm.	Lowest point	<u>88.9</u> cm.
Width of windscreen:			
Maximum width	<u>118.75</u> cm.	Minimum width	<u>118.75</u> cm.
*Interior width of car	<u>119.38</u> cm.		
No. of seats	<u>2</u>		
Track: Front	<u>117.9</u> cm.	Rear	<u>114.9W or 111.12D</u> cm.
Wheelbase	<u>203.2</u> cm.	Ground clearance	<u>127.0</u> 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 578.0 kgs.

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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

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Optional equipment affecting preceding information:—

Low compression & touring equipment

Exhaust manifold - 12G.420

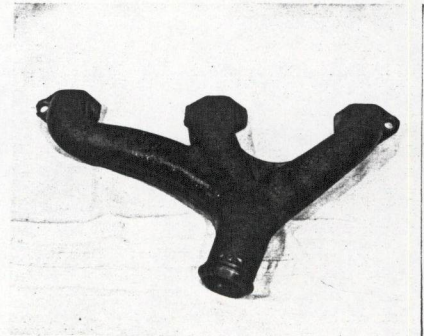
Cylinder head - Inlet valve diameter - 30.94 mm
Exhaust valve diameter - 25.4mm

Sump protection plate - Q 2338

Anti roll bar - AHA.7013

Fuel tank - 55 litres

Fuel tank - 85 litres



The Royal Automobile Club

Pall Mall, London, S.W.1



Please address all Communications to
THE SECRETARY
Quoting the following Reference:

C

Telegrams: AUTOMOBILE LONDON
Telephone: WHITEHALL 2345 (26 lines)

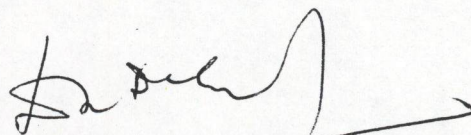
1st April 1964

AUSTIN-HEALEY SPRITE MARK III

MANUFACTURERS REFERENCE NO: OF APPLICATION FOR HOMOLOGATION

ADO.41/64

I certify that the necessary production of this car
has been achieved to enable recognition as a Grand Touring
car.



D. H. Delament
Manager, Competitions Department