

" Sebring "



F.I.A. Recognition No. ~~51298~~ 47

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

Model Austin-Healey 'Sprite' Sebring. Year of Manufacture 1958 to date.

Serial No. of Chassis AN5.

Engine 90.

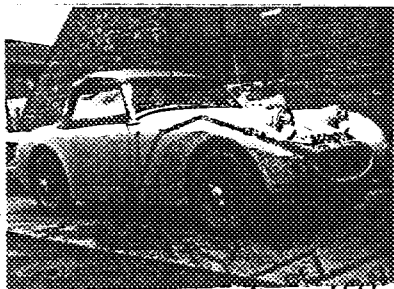
Type of Coachwork Open 2. seater.

Recognition is valid from

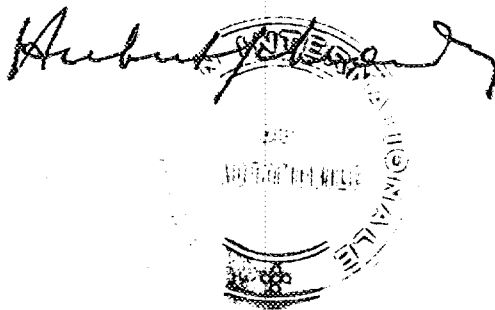
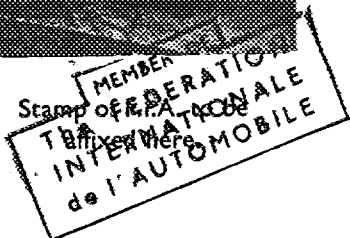
In category

Grand Touring

Photograph to be affixed here $\frac{1}{4}$ view of car from front right.



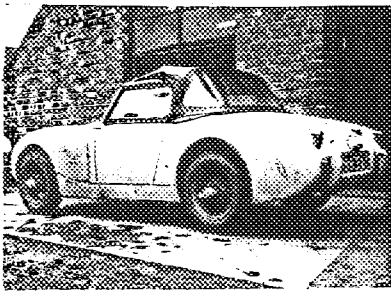
AHS/M.



General description of car:

Photographs to be affixed below.

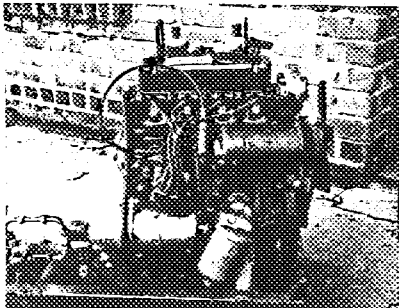
¾ view of car from rear left.



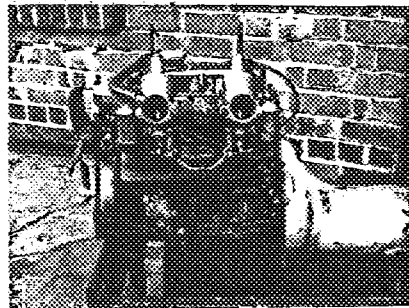
Interior view of car through driver's door.



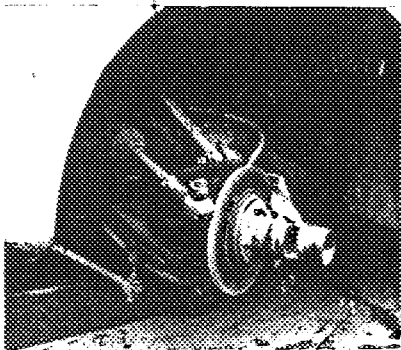
Engine unit with accessories from right.



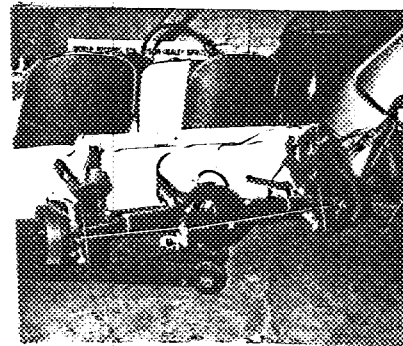
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).

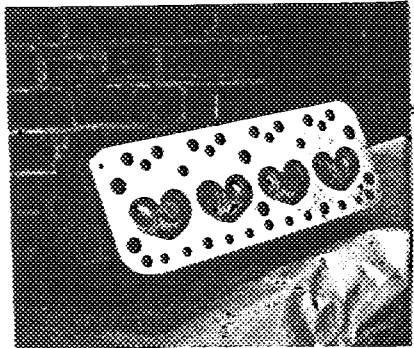


ENGINE

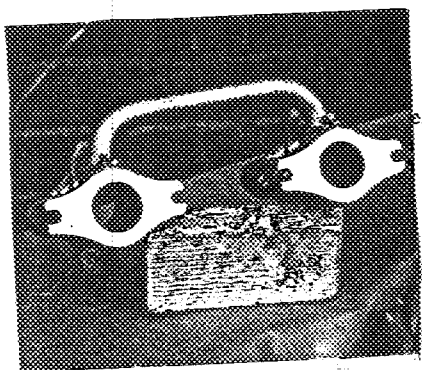
in line Yes.
 No. of cylinders 4. in V -
 opposed -
 Cycle 4 stroke. Firing order 1342.
 Capacity 960 c.c. Bore 63.53. m.m. Stroke 76.2. m.m.
 Maximum rebore +0.040" Resultant capacity 994. c.c.
 Material of cylinder block Cast Iron. Material of sleeves, if fitted N/A.
 Distance from crankshaft centre 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 24.5 c.c.
 Compression ratio 9.3:1
 Material of piston Aluminium. No. of piston rings 4.
 Distance from gudgeon pin centre line to highest point of piston crown 54.03. m.m.
 Bearings { Crankshaft main bearings: Type thinwall half brgs Dia. 44.5 m.m.
 Connecting rod big end: Type thinwall half brgs Dia. 41.34. m.m.
 Weights { Flywheel 6.35. kg.
 Crankshaft 9.52. kg.
 Connecting rod 0.695 kg.
 Piston with rings 0.219 kg.
 Gudgeon pin 0.0543 kg.
 No. of valves per cylinder 2. Method of valve operation Pushrod.
 No. of camshafts 1. Location of camshafts In cylinder block.
 Type of camshaft drive Chain.
 Diameter of valves: Inlet 31.6 m.m. Exhaust 27.8 m.m.
 Diameter of port at valve seat: Inlet 29.2 m.m. Exhaust 25.5 m.m.
 Tappet clearance for checking timing: Inlet 0.48 m.m. Exhaust 0.48 m.m.
 Valves open: Inlet 16° BTDC. Exhaust 15° BTDC.
 Valves close: Inlet 56° ABDC. Exhaust 21° ABDC.
 Maximum valve lift: Inlet 7.94. m.m. Exhaust 7.94. m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 104° Exhaust 104°
 ¾ Maximum lift: Inlet 55° Exhaust 55°
 Valve springs: Inlet Coil. Exhaust Coil.
 Type Coil. No. per valve 1.
 Carburettor: Type Semi down draft. No. fitted 2.
 (up or down draft, horizontal)
 Make S.U. Model 38.
 Flange diameter 38.1. m.m. Choke diameter 38.1. m.m.
 Main jet identification No. 0.030" (A.S. Needle).

Air filter: Type - - - - - No. fitted - - - - -

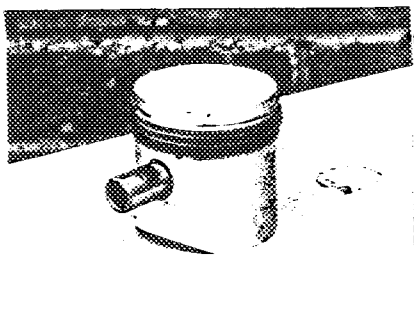
Inlet manifold:
Diameter of flange at carburettor 38.1 m.m.
Diameter of flange at port 31.75 m.m.



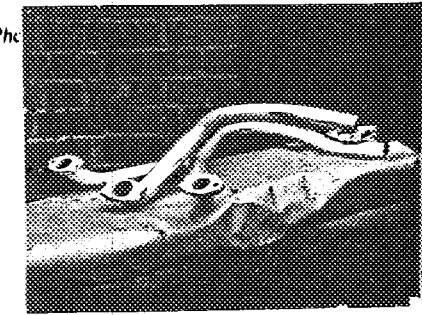
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Exhaust manifold:
Diameter of flange at port 31.75 m.m.
Diameter of flange at connection to silencer inlet pipe 34.925 m.m.



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ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted 1.
Method of operation Electric.
Type of ignition system Coil. coil or magneto
Make of ignition Lucas. Model J.EP7.
Method of advance and retard Centrifugal Lucas 20.0101.
Make of ignition coil Lucas. Model 14.10.
No. of ignition coils 1. Voltage 12.
Make of dynamo Lucas. Model 0.39 PV1.
Voltage of dynamo 12. Maximum output 12. amps.
Make of starter motor Lucas. Model H.35 GL.
Battery: No. fitted 1. Voltage 12. Capacity 20. amp. hour

Make A/H. Sprite. Model ANS. F.I.A. Recognition No. _____

TRANSMISSION

Make of clutch Borg & Beck. Type 6 1/4 A.G.
 Diameter of clutch plate 6 1/4" No. of plates 1.
 Method of operating clutch Hydraulic.
 Make of gearbox B.M.C. Type Syncromesh 2nd - 3rd - 4th.
 No. of gearbox ratios 4 forward - 1 reverse.
 Method of operating gearshift Remote control.
 Location of gearshift Floor change.
 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.	5.627	$\frac{28}{19} \times \frac{32}{13}$	5.198	$\frac{26}{20} \times \frac{32}{13}$				
2.	2.374	$\frac{28}{19} \times \frac{29}{18}$	1.911	$\frac{26}{20} \times \frac{28}{19}$				
3.	1.412	$\frac{28}{19} \times \frac{23}{24}$	1.357	$\frac{26}{20} \times \frac{24}{23}$				
4.	1.000		1.000					
REVERSE	4.66	$\frac{26}{19} \times \frac{18}{13} \times \frac{32}{14}$	4.115	$\frac{20}{20} \times \frac{18}{13} \times \frac{32}{14}$				

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

WHEELS

Type Wire Weight 5.443. kg.
 Method of attachment Knock on hub.
 Rim diameter 350.2. m.m. Rim width 68.9 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 22.225. m.m.

	Front		Rear
No. of wheel cylinders	4.		2.
Bore of wheel cylinders	38.1	m.m.	15.875
Inside diameter of brake drums	-	m.m.	203.2
No. of shoes per brake	-		2.
Outside diameter of brake discs	215.9	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	47.6 approx.	m.m.	196.85
	(Semi-elliptical)	m.m.	
Width	38.1	m.m.	38.1
Total area per brake	3662.4	m.m. ²	14,999.97

SUSPENSION

	Front		Rear
Type	Independant.		Quarter Elliptic.
Type of spring	Coil.		Leaf.
Is stabiliser fitted?	Yes.		- - - -
Type of shock absorber	Hydraulic Lever.		Hydraulic Leven
No. of shock absorbers	2.		2.

STEERING

Type of steering gear	Rack & Pinion.
Turning circle of car	9.6 m., approx.
No. of turns of steering wheel from lock to lock	2 1/3rd.

CAPACITIES AND DIMENSIONS

Fuel tank	27.5	litres	Sump	3.2	litres
Radiator	5.69	litres	without heater.		
Overall length of car	349.	cm.	Overall width of car	135.	cm.
Overall height of car, unladen (with hood up, if appropriate)			126.		cm.
Distance from floor to top of windscreen:					
Highest point	91.44	cm.	Lowest point	62.23	cm.
Width of windscreen:					
Maximum width	116.84	cm.	Minimum width	104.14	cm.
Interior width	106.84	cm.			
No. of seats	2				
Track: Front	116.	cm.	Rear	114.	cm.
Wheelbase	203.	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 570. 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.....

SEBRING SPRITE

Optional equipment affecting preceding information:—

Large Capacity Fuel Tank - 12 galls.	Q.2556.
Disc Wheel Conversion.	Q.225
Hardtop	
Oil Cooler (normally fitted standard on this car).	



AUSTIN HEALEY - SPRITE SEBRING

MARQUE ET MODELE

1960/

VALIDITE HOMOLOGATION

47

FICHE NR.

GT/1000

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 26/9/96 par [signature] visée ce jour le _____ par _____