



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 HERLEY MOTOR CO.

Model AUSTIN-HERLEY SPITE 'SEBRING MkII. Year of Manufacture 1962.

Chassis R.N.G.

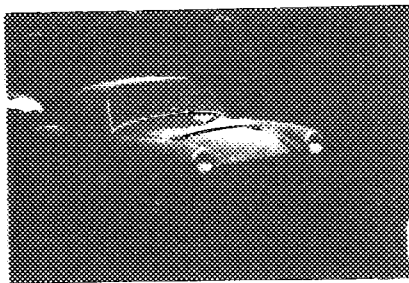
Serial No. of

Engine DC 45P.

Type of Coachwork OPEN 2 SEATER.

Recognition is valid from 1-3-1962 In category E7

Photograph to be affixed here $\frac{1}{2}$ view of car from front right.

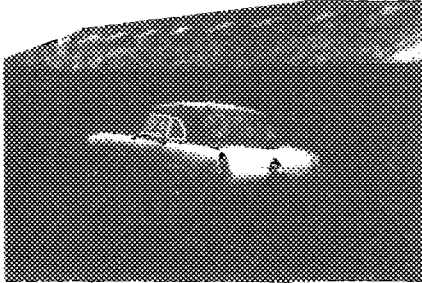


Stamp of F.I.A. to be
affixed here.

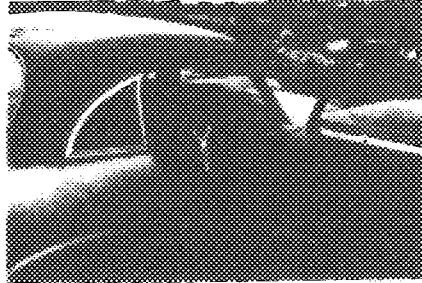
General description of car:

Photographs to be affixed below.

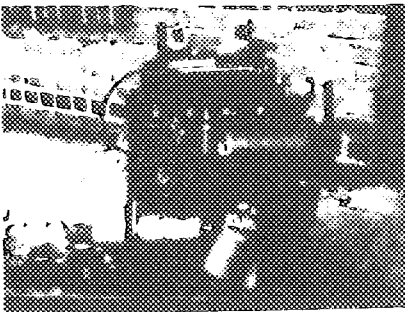
¾ view of car from rear left.



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)



No. of cylinders 4 in V opposed
 Cycle 4 STROKE Firing order 1342
 Capacity 320 c.c. Bore 63.53 m.m. Stroke 76.2 m.m.
 Maximum rebore +0.040" Resultant capacity 395 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 34.05 m.m.
 Bearings { Crankshaft main bearings: Type THINWALL HALF BEARINGS Dia. 44.5 m.m.
 Connecting rod big end: Type THINWALL HALF BEARINGS Dia. 41.34 m.m.
 Weights { Flywheel 6.35 kg.
 Crankshaft 3.52 kg.
 Connecting rod 0.695 kg.
 Piston with rings 0.219 kg.
 Gudgeon pin 0.0643 kg.
 No. of valves per cylinder 2 Method of valve operation PUSH ROD
 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 26.5 m.m.
 Tappet clearance for checking timing: Inlet 0.48 m.m. Exhaust 0.48 m.m.
 Valves open: Inlet 16° B.T.D.C. Exhaust 51° B.B.D.C.
 Valves close: Inlet 56° A.B.D.C. Exhaust 21° A.T.D.C.
 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°
 ½ Maximum lift: Inlet 55° Exhaust 55°
 Valve springs: Inlet Exhaust
 Type COIL COIL
 No. per valve 1 1
 Carburettor: Type SEMI-DOWN DRAFT No. fitted 2
 (up or down draft, horizontal)
 Make S.U. Model H.A.
 Flange hole diameter 38.1 m.m. Choke diameter 38.1 m.m.
 Main jet identification No. 0.080 (A.J. NEEDLE)

ALTERNATIVE CARBURETTOR EQUIPMENT ART. 265.

MAKE :- WEBER.

MODEL :- 45 DCOE9.

FLANGE HOLE DIAMETER :- 45 m.m.

CHOKE DIA :- 36 m.m.

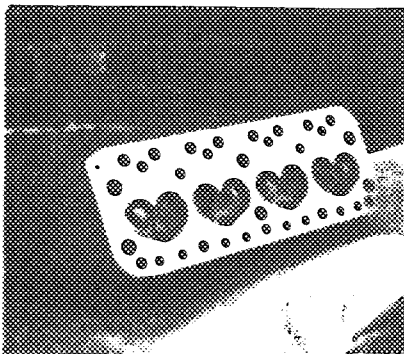
MAIN JET No :- 155.

Air filter: Type No. fitted 2

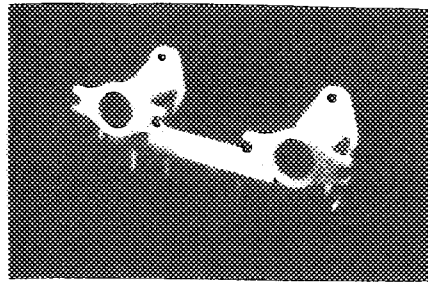
Inlet manifold:

Diameter of flange hole at carburettor 38.1 m.m.

Diameter of flange hole at port 31.75 m.m.



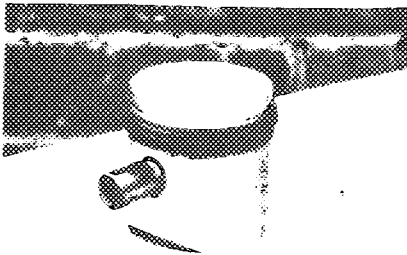
ed here.



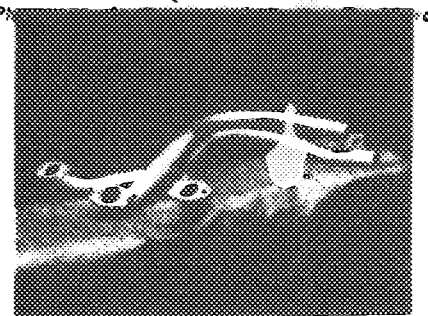
Exhaust manifold:

Diameter of flange hole at port m.m.

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



ed here.



ed here.

ENGINE ACCESSORIES

Make of fuel pump	<u>S.U. OR LUCAS</u>	No. fitted	<u>2 or 1.</u>
Method of operation	<u>ELECTRIC.</u>		
Type of ignition system	<u>COIL</u>		coil or magneto
Make of ignition	<u>LUCAS</u>	Model	<u>D.2.P.4</u>
Method of advance and retard	<u>CENTRIFUGAL AND VACUUM CONTROL</u>		
Make of ignition coil	<u>LUCAS</u>	Model	<u>LA12</u>
No. of ignition coils	<u>1.</u>	Voltage	<u>12.</u>
Make of dynamo	<u>LUCAS</u>	Model	<u>C39. P.V.2.</u>
Voltage of dynamo	<u>12.</u>	Maximum output	<u>19</u> amps.
Make of starter motor	<u>LUCAS</u>	Model	<u>M35G1</u>
Battery: No. fitted	<u>2</u>	Voltage	<u>6 V.</u>
		Capacity	<u>32.</u> amp. hour

SEBRING II.

TRANSMISSION

Make of clutch *BORG & BECK* Type *6 1/4 AG.*
 Diameter of clutch plate *6 1/4"* No. of plates *1.*
 Method of operating clutch *HYDRAULIC.*
 Make of gearbox *B.M.C.* Type *SYNCHRONESH 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.	<i>3.627</i>	<i>28/14</i>	<i>3.198</i>	<i>26/16</i>	<i>2.93</i>	<i>25/21</i>		
2.	<i>2.374</i>	<i>28/12</i>	<i>1.911</i>	<i>26/14</i>	<i>1.754</i>	<i>25/14</i>		
3.	<i>1.412</i>	<i>28/20</i>	<i>1.367</i>	<i>26/19</i>	<i>1.242</i>	<i>24/21</i>		
	<i>1.000</i>		<i>1.000</i>		<i>1.00</i>			
Reverse	<i>4.60</i>	<i>28/18</i>	<i>4.115</i>	<i>26/15</i>	<i>3.768</i>	<i>24/16</i>		

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 4.875:1*
 No. of teeth *8/38* *8/41 8/43 11/41 10/39 8/39*
 Overdrive ratio, if fitted *-*

WHEELS

Type *WIRE* Weight *5.443* kg.
 Method of attachment *KNOCK ON HUB.*
 Rim diameter *330.2* m.m. Rim width *88.9 or 101.6* 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.

No. of wheel cylinders	4		2	
Bore of wheel cylinders	38.1	m.m.	15.875	m.m.
Inside diameter of brake drums	-	m.m.	203.2	m.m.
No. of shoes per brake	-		2	
Outside diameter of brake discs	215.9	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	47.6 APPROX	m.m.	190.85	m.m.
	(SEMI-ELLIPTICAL)	m.m.		m.m.
Width	38.1	m.m.	38.1	m.m.
Total area per brake	3662.4	m.m. ²	14,999.97	m.m. ²

SUSPENSION

	Front		Rear	
Type	INDEPENDENT		QUATER ELLIPTIC	
Type of spring	COIL		LEAF	
Is stabiliser fitted?	YES		-	
Type of shock absorber	HYDRAULIC LEVER		HYDRAULIC LEVER	
No. of shock absorbers	2		2	

STEERING

Type of steering gear	RACK AND PINION	
Turning circle of car	9.6	m., approx.
No. of turns of steering wheel from lock to lock	2 1/8	

CAPACITIES AND DIMENSIONS

Fuel tank	27.3	litres	Sump	3.2	litres
Radiator	5.63	litres	WITHOUT HEATER		
Overall length of car	350	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 of car	116.84	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	668	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.....

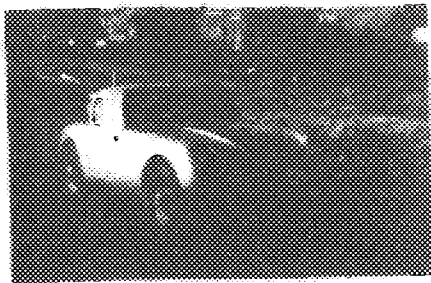
Fuel injection, if fitted

Make of pump..... Model or Type No.....

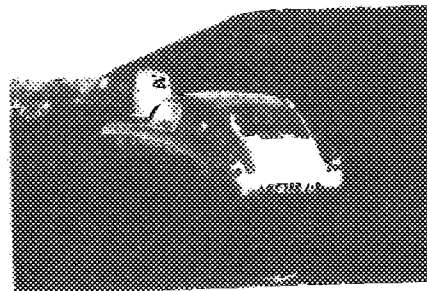
Make of injectors..... Model or Type No.....

Location of injectors.....

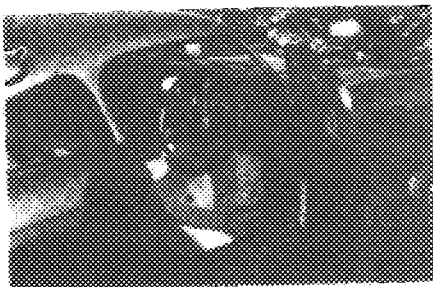
LARGE CAPACITY FUEL TANK	70 LITRES	Q 2675.
DISC WHEEL CONVERSION		Q 2552.
HARDTOP.		RHR 3345
OIL COOLER (NORMALLY FITTED STANDARD ON THIS CAR.)		
TOURING CRANKSHAFT.		RER 630



3/4 VIEW OF CAR FROM FRONT
OPTIONAL BODY



3/4 VIEW OF CAR FROM REAR.
OPTIONAL BODY.



INTERIOR VIEW OF CAR THROUGH DRIVERS
DOOR. OPTIONAL BODY.

WARWICK

ENGLAND

DRAWING ALTERATION NOTE

No....FIA.62.....

Drg. No....FIA.62.....

Issue...3 MAY 62..

Date...1 MAY 63....

Drg. Title..Austin-Healey "Sprite" Sebring MK II

Used on.....

Reason for Alteration:-

Form Incorrect

Description of Alteration:-

For "Valve Springs: No. per Valve 1"

Read "Valve Springs: No. per Valve 2"

Alteration to take effect IMMEDIATELY on work in progress
All PREVIOUS issues of above drawing SUPERCEDED.

Copies to:-

R.A.C.

Signed.....

Chief Draughtsman.

