11

Manufacturers Reference No. for Application .....

F.I.A. Recognition No. 62

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.

Model AUSTIN-HEALEY SPRITE 'SEBRING MKII. Year of Manufacture 1962.

Serial No. of Chassis A.N.G.

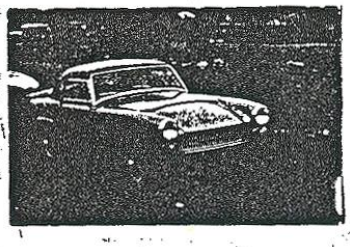
Engine 9C X 5A.

Type of Coachwork OPEN 2 SEATER.

Recognition is valid from 3 MAY 1962 In category GT

Additional List n° 10
to general List n° 9.

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



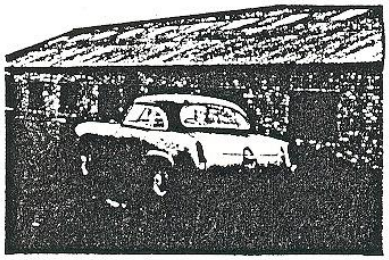
Stamp of F.I.A. to be affixed here.

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

General description of car:

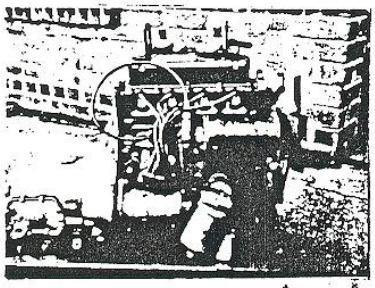
Photographs to be affixed below.

¾ view of car from rear left.

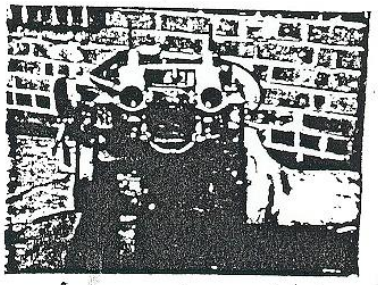


Interior view of car through driver's door.

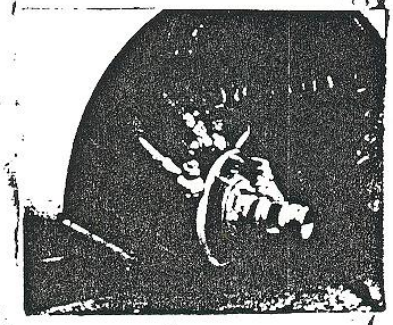
Engine unit with accessories from right.



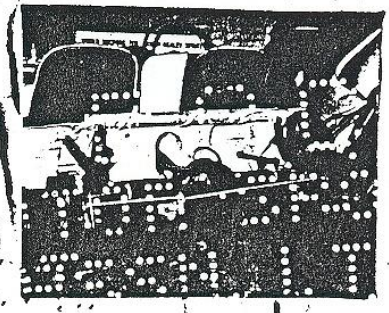
Engine unit with accessories from left.



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 995 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 34.03 m.m.

Bearings
- Crankshaft main bearings: Type THINWALL HALF BEARING Dia. 44.5 m.m.
- Connecting rod big end: Type THINWALL HALF BEARINGS 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 PUSH ROD

No. of camshafts 1. Location of camshafts IN CYLINDER BLOCK

Type of camshaft drive CHAIN.

		Inlet		Exhaust	
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° 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—

		Inlet		Exhaust	
Maximum lift:	Inlet	104°		Exhaust 104°	
¾ Maximum lift:	Inlet	55°		Exhaust 55°	

Valve springs:

	Inlet	Exhaust
Type	COIL	COIL
No. per valve	2.	2.

Carburettor: Type SEMI-DOWN DRAUGHT. (up or down draft, horizontal) No. fitted 2.

Make S.U. Model H4.

Flange hole diameter 38.1 m.m. Choke diameter 38.1 m.m.

Main jet identification No. 0.090 (A.J. NEEDLE).

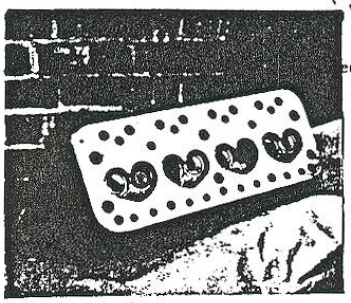
ALTERNATIVE CARBURETTER EQUIPMENT – REF. 265.
MAKE :- WEBER – MODEL :- 45 DCOE9.
FLANGE HOLE DIAMETER :- 45 m.m. – CHOKE DIA :- 36 m.m.
MAIN JET No :- 155.

Air filter: Type — No. fitted 1—

Inlet manifold:

Diameter of flange hole at carburettor 38.1 m.m.

Diameter of flange hole at port 31.75 m.m.



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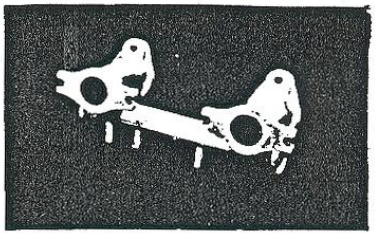
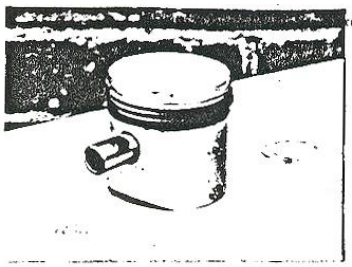


Exhaust manifold:

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

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



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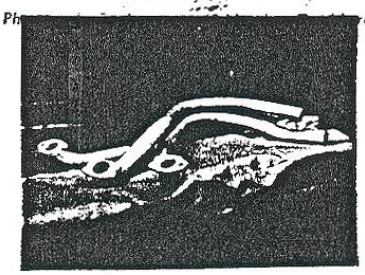

ENGINE ACCESSORIES

Make of fuel pump S.U OR LUCAS No. fitted 2 OR 1.

Method of operation ELECTRIC.

Type of ignition system COIL coil or magneto

Make of ignition LUCAS Model D.2.P.4

Method of advance and retard CENTRIFUGAL AND VACUUM CONTROL

Make of ignition coil LUCAS Model LA12

No. of ignition coils 1. Voltage 12.

Make of dynamo LUCAS Model C39. PV2

Voltage of dynamo 12. Maximum output 19. amps.

Make of starter motor LUCAS Model M35G1

Battery: No. fitted 2 Voltage 6V. Capacity 32. amp. hour

Make A/H. SPRITE SEBRING MK II Model A.N.6 F.I.A. Recognition No.

Manufacturers Reference No. of Application

TRANSMISSION

Make of clutch BORG & BECK Type 6¼ AG.

Diameter of clutch plate 6¼" No. of plates 1.

Method of operating clutch HYDRAULIC.

Make of gearbox B.M.C. Type SYNCHRONISED 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.	3·627	29/19 × 32/13	3·198	26/20 × 32/13	2·93	25/21 × 32/13		
2.	2·374	28/19 × 29/18	1·911	26/20 × 28/19	1·754	25/21 × 28/19		
3.	1·412	28/19 × 23/24	1·357	26/20 × 24/23	1·242	26/21 × 24/23		
4.	1·000		1·000		1·00			
REVERSE	4·66	29/19 × 18/18 × 32/14	4·115	26/20 × 19/13 × 32/14	3·768	25/21 × 18/18 × 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 4·875:1

No. of teeth 9/38 9/41 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 5·20×13 Rear 5·20×13

BRAKES

Method of operation HYDRAULIC

Is servo assistance fitted? NO

Type of servo, if fitted —

No. of hydraulic master cylinders 1 Bore 22·225

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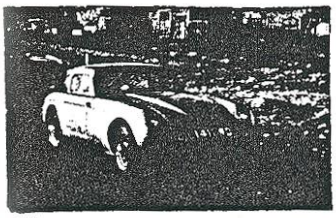
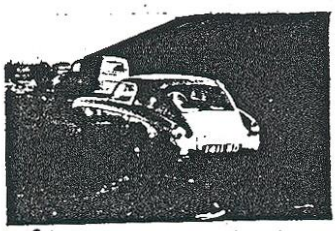
Optional equipment affecting preceeding information:—

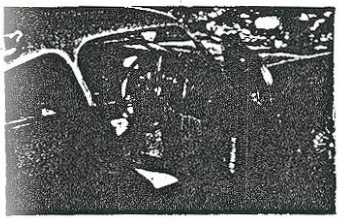
LARGE CAPACITY FUEL TANK 70 LITRES. Q 2675.
DISC WHEEL CONVERSION Q 2552.
HARD TOP. AHR 3345
OIL COOLER (NORMALLY FITTED STANDARD ON THIS CAR.)
TOURING CAMSHAFT. REA 630



¾ VIEW OF CAR FROM FRONT
OPTIONAL BODY



¾ VIEW OF CAR FROM REAR.
OPTIONAL BODY.



INTERIOR VIEW OF CAR THROUGH DRIVERS DOOR. OPTIONAL BODY.