Manufacturers Reference No. for Application

SGT - 2A

F.I.A. Recognition No. 9[illegible]

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 SPEEDWELL PERFORMANCE CONVERSIONS LTD.

Model SPEEDWELL "G.T." 2A Year of Manufacture 1962

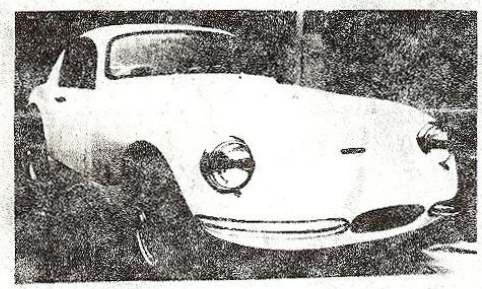
Serial No. of Chassis SPC/9302 - onwards

Engine SPC/33333 - onwards

Type of Coachwork GRAND TOURING

Recognition is valid from 2[illegible] JAN 1963 In category [illegible]

Liste 9/19



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

SGT - 2A

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

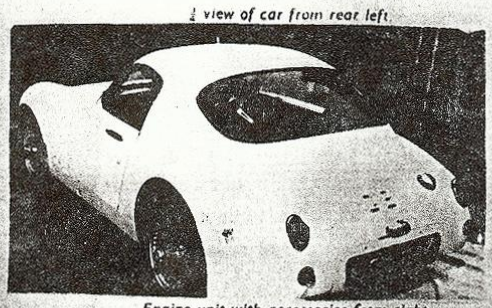
General description of car:

Specify here materials of chassis body construction

2 seat 2 door G.T. car having integral chassis/body structure of composite steel, aluminium alloy, and glass fibre/resin laminate independant front suspension via coil springs. Rear axle carried on ¼ elliptic leaf springs

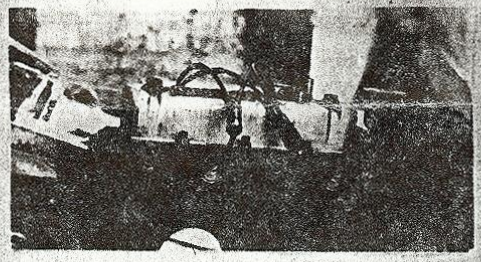
Photographs to be affixed below.

¾ view of car from rear left



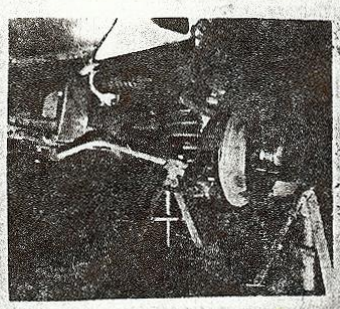
Interior view of car through driver's door.

Engine unit with accessories from right.

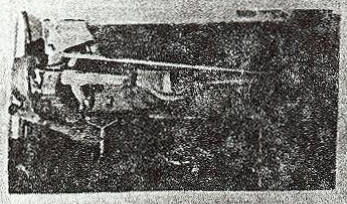


Engine unit with accessories from left.

Front axle complete (without wheels)



Rear axle complete (without wheels).



ENGINE

No. of cylinders 4 — In line YES — In V — opposed

Cycle 4 — Firing order 1.3.4.2.

Capacity 1080 c.c. — Bore 67 m.m. — Stroke 76.2. m.m.

Maximum rebore 67.75 mm — Resultant capacity 1098 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 218.4 m.m.

Material of cylinder head ALUMINIUM ALLOY — Volume of one combustion chamber 22 c.c.

Compression ratio 12:1

Material of piston ALUMINIUM ALLOY — No. of piston rings 3

Distance from gudgeon pin centre line to highest point of piston crown 34.09 m.m.

Bearings: Crankshaft main bearings: Type PLAIN — Dia. 44.463 m.m.

Connecting rod big end: Type PLAIN — Dia. 41.298 m.m.

Weights:

Flywheel	5.9	kg.
Crankshaft	11	kg.
Connecting rod	0.750	kg.
Piston with rings	0.241	kg
Gudgeon pin	0.070	kg

No. of valves per cylinder 2 — Method of valve operation O.H.V. PUSH ROD

No. of camshafts 1 — Location of camshafts BLOCK

Type of camshaft drive CHAIN

Diameter of valves	Inlet	35.0 m.m.	Exhaust	28.56	m.m.
Diameter of port at valve seat	Inlet	33.0 m.m.	Exhaust	25.4	m.m.
Tappet clearance for checking timing	Inlet	1.4 m.m.	Exhaust	1.4.	m.m.
Valves open	Inlet	10° BTDC	Exhaust	45° BBDC	
Valves close	Inlet	50° ABDC	Exhaust	15° ATDC	
Maximum valve lift	Inlet	12.3. m.m.	Exhaust	12.3	m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift	Inlet	120°	Exhaust	120°
½ Maximum lift	Inlet	103°	Exhaust	103°

Valve springs: Inlet — Exhaust

Type HELICAL — HELICAL

No. per valve 2 — 2

Carburettor: Type HORIZONTAL (up or down draft, horizontal) — No. fitted 4

Make SPEEDWELL — Model 389/390

Flange hole diameter 45 m.m. — Choke diameter 38 m.m.

Main jet identification No. 376/100

Location of injectors

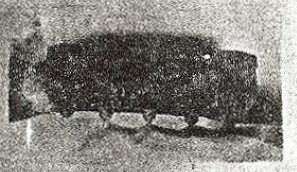
Air filter: Type NONE No. fitted

Inlet manifold:

Diameter of flange hole at carburettor 45 m.m.

Diameter of flange hole at port 57 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here

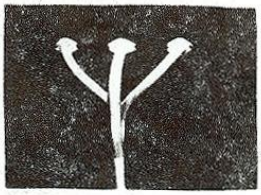
Exhaust manifold:

Diameter of flange hole at port 31.75 m.m.

Diameter of flange hole at connection to silencer inlet pipe NONE 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 SPEEDWELL / S.U. No. fitted 4

Method of operation ELECTRICAL

Type of ignition system COIL coil or magneto

Make of ignition LUCAS / BOSCH Model SPEEDWELL

Method of advance and retard AUTOMATIC

Make of ignition coil LUCAS / BOSCH Model TK 12A9 - HA 12

No. of ignition coils ONE Voltage 12V

Make of dynamo LUCAS Model C41

Voltage of dynamo 12V Maximum output 19 amps.

Make of starter motor LUCAS Model M35

Battery: No. fitted 1 Voltage 12 Capacity 43

Oil Cooler (if fitted) type SECONDARY SURFACE Capacity ONL

SPEEDWELL Model "G.T" (A) F.I.A. Recognition No. —

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TRANSMISSION

Make of clutch BORG AND BECK Type DRY PLATE

Diameter of clutch plate 158.75 No. of plates 1

Method of operating clutch HYDRAULIC

Make of gearbox SPEEDWELL - BMC Type "A"

No. of gearbox ratios 5

Method of operating gearshift MANUAL

Location of gearshift 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.	2.569	13/32	3.627	13/32	3.2	13/32		
2.	1.681	18/29	2.374	18/29	1.916	19/28		
3.	1.233	22/26	1.412	23/24	1.357	23/24		
4.	1.000	-	1.000	-	1.000	-		
5.	3.3	13/18 14/32	4.664	13/18 14/32	4.114	13/18 14/32		

Type of final drive HYPOID BEVEL

Type of differential LIMITED SLIP

Final drive ratio 4.875 Alternatives 5.38, 5.1, 4.55, 4.22, 3.9, 3.7

No. of teeth 8/39 8/43 8/41 9/41 9/38 10/39 11/41

Overdrive ratio, if fitted NONE

WHEELS

Type RUDGE WHITWORTH Weight 4.75 kg.

Method of attachment CENTRE LOCK

Rim diameter 330 m.m. Rim width 101.5 m.m.

Tyre size: Front 5.25 x 13 Rear 5.25 x 13

BRAKES

Method of operation HYDRAULIC

Is servo assistance fitted? NO

Type of servo, if fitted NONE

No. of hydraulic master cylinders 1 Bore 22.2 m.m.

General description of car:

	Front		Rear	
No. of wheel cylinders	2		1	
Bore of wheel cylinders	50.8	m.m.	20	m.m.
Inside diameter of brake drums	---	m.m.	177.8	m.m.
No. of shoes per brake	---		2	
Outside diameter of brake discs	219	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	60	m.m.	178	m.m.
		m.m.		m.m.
Width	42	m.m.	31	m.m.
Total area per brake	5040	m.m.²	11036	m.m.²

SUSPENSION

	Front	Rear
Type	INDEPENDANT	¾ ELLIPTIC
Type of spring	COIL	LEAF
Is stabiliser fitted?	YES	NO
Type of shock absorber	HYDRAULIC	HYDRAULIC
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: 2.25

CAPACITIES AND DIMENSIONS

Fuel tank: 85 litres Sump: 4 litres

Radiator: 5.68 litres

Overall length of car: 370 cm. Overall width of car: 143 cm.

Overall height of car, unladen (with hood up, if appropriate): 122 cm.

Distance from floor to top of windscreen:

Highest point: 91.5 cm. Lowest point: 91.5 cm.

Width of windscreen:

Maximum width: 98 cm. Minimum width: 96 cm.

*Interior width of car: 114 cm.

No. of seats: 2

Track: Front: 120 cm. Rear: 121 cm.

Wheelbase: 203 cm. Ground clearance: 130 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: 520 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:—

Equipment declared in homologation application
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