Manufacturers reference No. for Application

SGT - 2B

F.I.A. Recognition No. 93

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." 2B Year of Manufacture 1962

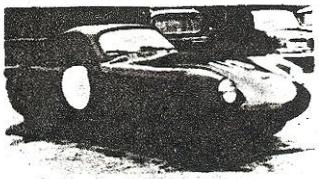
Serial No. of Chassis SPC/9302 - onwards

Engine SPC/33333 - onwards

Type of Coachwork GRAND TOURING

Recognition is valid from 29 JAN 1963 In category Grand Tourisme

liste 9/19



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

SGT - 2B

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

Form: R.F.I.A.

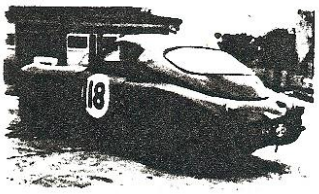
General description of car:

Specify here material s of chassis body construction

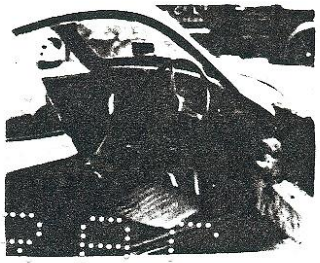
2 seat 2 door "GT" car having intergral chassis/body structure of composite steel, aluminium alloy, and glass fibre/resin laminate. Independant front suspension via coil springs, rear axle carried on ½ elliptic leaf springs.

Photographs to be affixed below.

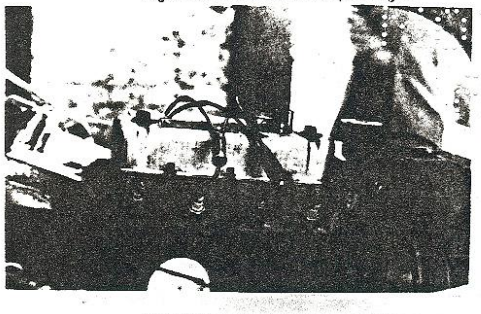
¾ view of car from rear left



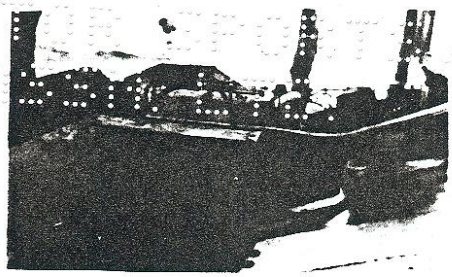
Interior view of car through driver's door.



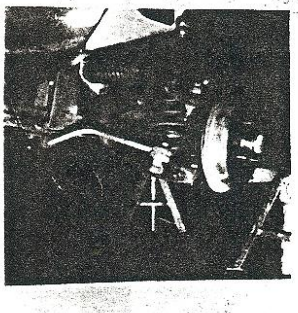
Engine unit with accessories from right.



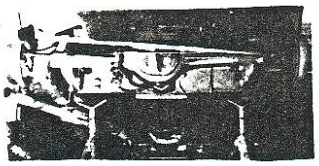
Engine unit with accessories from left.



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 980.5. c.c. — Bore 64 m.m. — Stroke 76.2 m.m.

Maximum rebore 0.020 inches — Resultant capacity 996 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 20 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 0.690 kg.
- Piston with rings 0.234 kg.
- Gudgeon pin 0.057 kg.

No. of valves per cylinder 2 — Method of valve operation OHV PUSH ROD

No. of camshafts 1 — Location of camshafts BLOCK

Type of camshaft drive CHAIN

		Inlet		Exhaust	
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—

	Inlet	Exhaust
Maximum lift:	120°	120°
¾ Maximum lift:	103°	103°

Valve springs:

	Inlet	Exhaust
Type	HELICAL	HELICAL
No. per valve	2	2

Carburettor: Type HORIZONTAL (up or down draft, horizontal) — No. fitted 2

Make SPEEDWELL — Model 389/390

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

Main jet identification No. 376/100

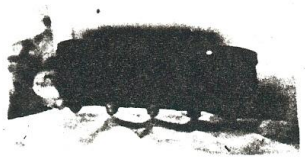
Air filter: Type NONE No. fitted --

Inlet manifold:

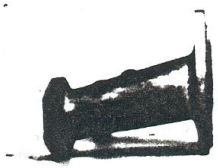
Diameter of flange hole at carburettor 45 m.m.

Diameter of flange hole at port 32 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



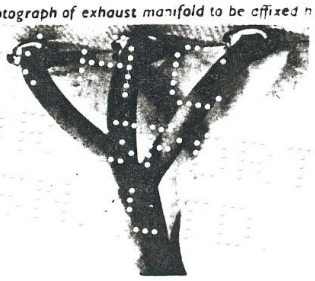
Exhaust manifold:

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 3

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 1 Voltage 12

Make of dynamo LUCAS Model C41

Voltage of dynamo 12 Maximum output 19 amps.

Make of starter motor LUCAS Model M35

Battery: No. fitted 1 Voltage 12 Capacity 43 amp. hour

Oil Cooler (if fitted) type SECONDARY SURFACE Capacity 1 pints

Air filter: Type NONE No. fitted --

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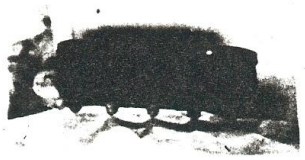
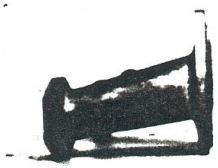


Photograph of inlet manifold to be affixed here.



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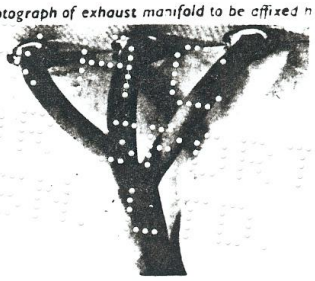

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Make SPEEDWELL Model "G.T" (B) F.I.A. Recognition No.

Manufacturers Reference No. of Application SGT - 2B

TRANSMISSION

Make of clutch BORG AND BECK Type DRY PLATE

Diameter of clutch plate 158.75 MM 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.	3.300	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 DISC Weight 4.05 kg.

Method of attachment NUTS AND STUDS

Rim diameter 330 m.m. Rim width 87/114 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 2 Bore 22.2 m.m.

	Front		Rear	
No. of wheel cylinders	2		1	
Bore of wheel cylinders	20	m.m.	20	m.m.
Inside diameter of brake drums	203.2	m.m.	177.8	m.m.
No. of shoes per brake	2		2	
Outside diameter of brake discs		m.m.		m.m.
No. of pads per brake				

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	193	m.m.	178	m.m.
		m.m.		m.m.
Width	38.1	m.m.	31	m.m.
Total area per brake	14006.6	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 37 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 116 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:—