

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." 28** Year of Manufacture **1962**

Serial No. of Chassis **SPC/9302 - onwards**

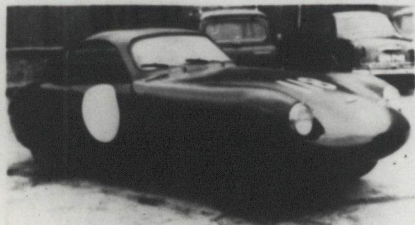
Engine **SPC/33333 - onwards**

Type of Coachwork **GRAND TOURING**

Recognition is valid from **29 JANV 1963**

In category **Grand Tourisme**

liste 9/19



Photograph to be affixed here $\frac{3}{4}$ view of car from front right.

SGT - 2B



Hubert [signature]

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

Form: R.F.I.A.

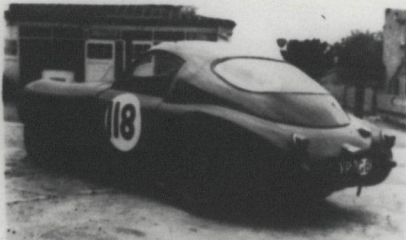
General description of car:

*Specify here materials 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 $\frac{1}{4}$ elliptic leaf springs.

Photographs to be affixed below.

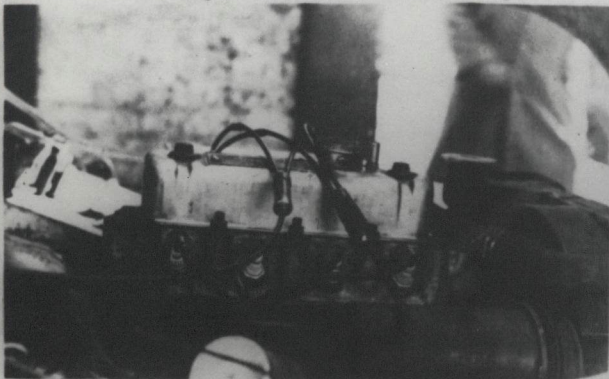
$\frac{3}{4}$ view of car from rear left



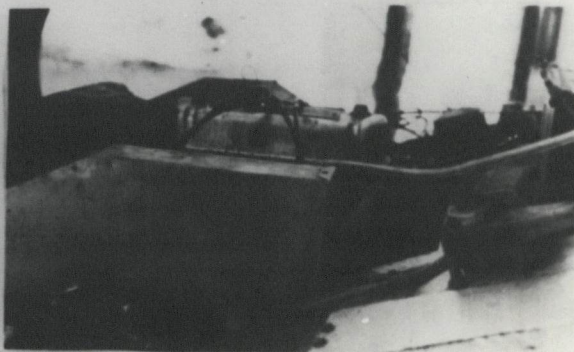
Interior view of car through driver's door.



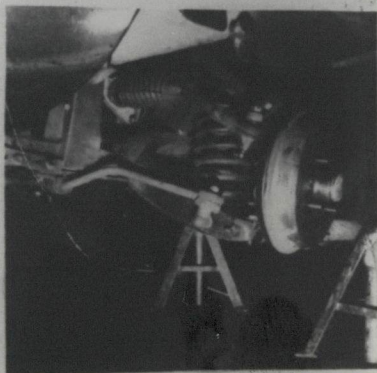
Engine unit with accessories from right.



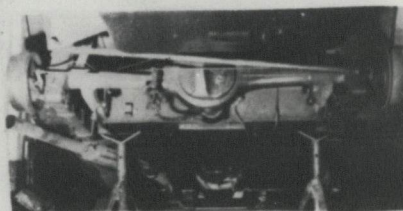
Engine unit with accessories from left.



Front axle complete (without wheels)



Rear axle complete (without wheels).



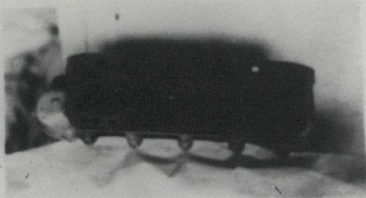
ENGINE

in line **YES**
 No. of cylinders **4** in V
 opposed
 Cycle **4** 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**
 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°**
 1/4 Maximum lift: Inlet **103°** Exhaust **103°**
 Valve springs: Inlet **HELICAL** Exhaust **HELICAL**
 Type **HELICAL**
 No. per valve **2**
 Carburettor: Type **HORIZONTAL** No. fitted **2**
 (up or down draft, horizontal)
 Make **SPEEDWELL** Model **389/390**
 Flange hole diameter **45** m.m. Choke diameter **38** m.m.
 Main jet identification No. **376/100**

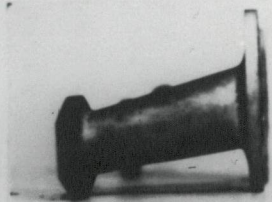
Air filter: Type **NONE** No. fitted **---**

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.

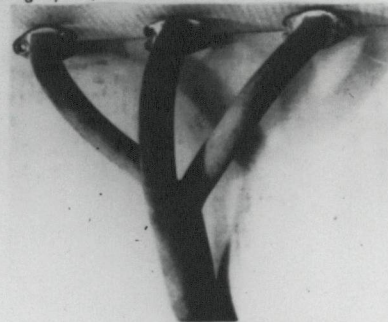


Exhaust manifold:
Diameter of flange hole at port **31.75** m.m.
Diameter of flange hole at connection to silencer inlet pipe **NONE** m.m.

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 |

Make **SPEEDWELL**

Model **"G.T" (B)**

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 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 preceding information:—