F.I.A. Recognition No. 26

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. Year of Manufacture 1960

Serial No. of Chassis

Engine

Type of Coachwork GRAND TOURING

Recognition is valid from 16 Nov 1960 In category GT.

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SGT/1

FÉDÉRATION INTERNATIONALE DE L'AUTOMOBILE

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General description of car:

The Speedwell G.T. is a two seater Grand Touring car, capable of high cruising speeds with good petrol economy.

The mechanical components are based on the Austin Healey Sprite with certain modifications designed to improve the handling and comfort.

The body is aerodynamically designed ensuring the minimum of wind noise when travelling speed.

The bonnet is designed to hinge forward for maximum engine accessibility.

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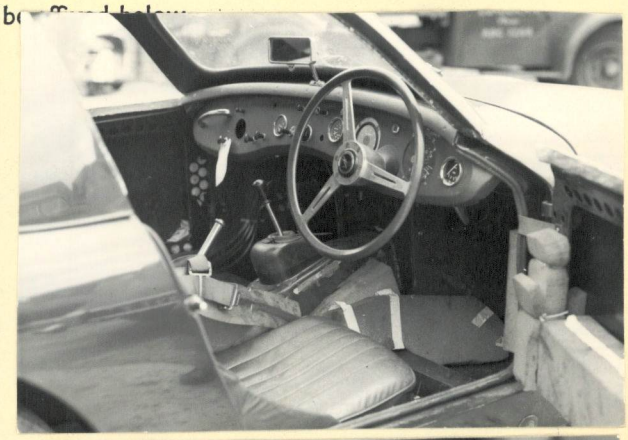
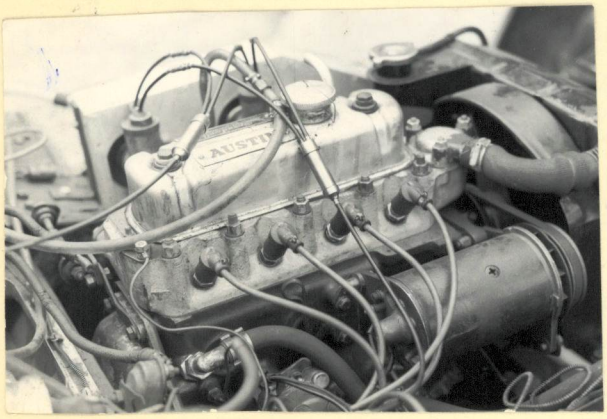
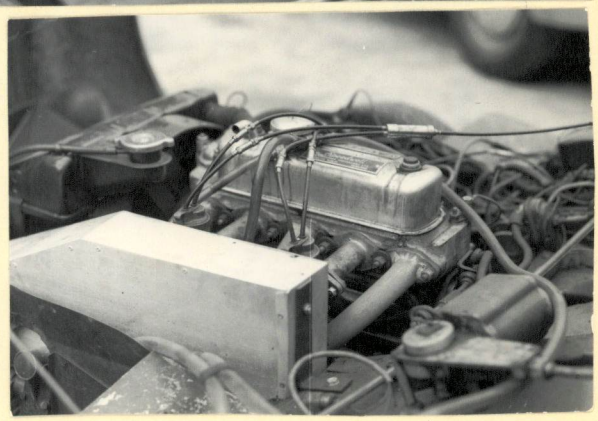
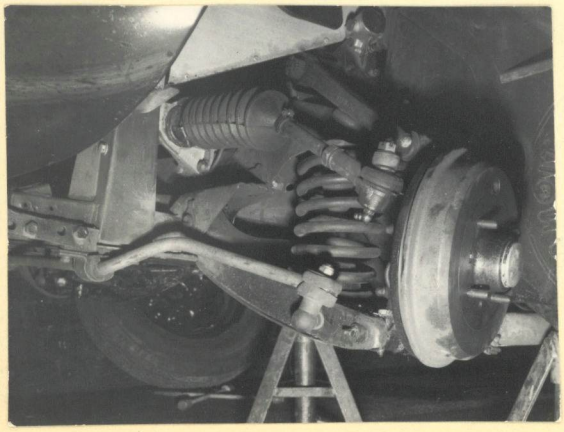
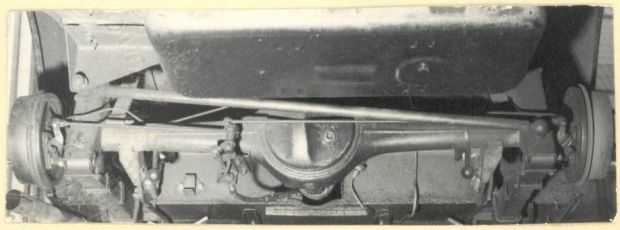






Rear axle complete (without wheels).





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 -

Distance from crankshaft centre line to top face of block at centre line of cylinders 218.4 m.m.

Material of cylinder head CAST IRON Volume of one combustion chamber 23.5 c.c.

Compression ratio 10.5

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 9.05 kg.
- Connecting rod 0.580 kg.
- Piston with rings 0.230 kg.
- Gudgeon pin 0.055 kg.

No. of valves per cylinder 2 Method of valve operation OHV PUSHROD

No. of camshafts 1 Location of camshafts BLOCK

Type of camshaft drive CHAIN

Diameter of valves:	Inlet	33.5 m.m.	Exhaust	28.56 m.m.
Diameter of port at valve seat:	Inlet	31.75 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	11.6 m.m.	Exhaust	12.30 m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift:	Inlet	120°	Exhaust	120°
¾ 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 2

Make AMAL Model SPEEDWELL

Flange diameter 31.75 m.m. Choke diameter 30 m.m.

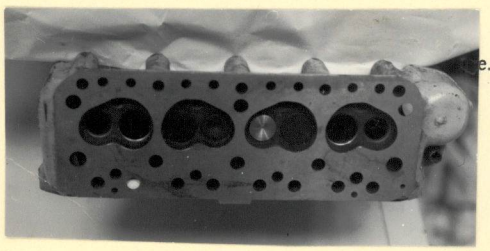
Main jet identification No. 376/100

Air filter: Type NONE No. fitted -

Inlet manifold:

Diameter of flange at carburettor 31.75 m.m.

Diameter of flange at port 31.75 m.m.



Exhaust manifold:

Diameter of flange at port 31.75 m.m.

Diameter of flange at connection to silencer inlet pipe NONE m.m.

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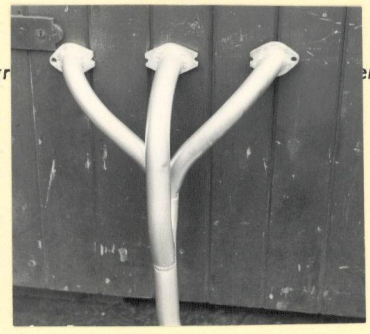


ENGINE ACCESSORIES

Make of fuel pump SU No. fitted 3

Method of operation ELECTRIC

Type of ignition system COIL coil or magneto

Make of ignition LUCAS/BOSCH/SCINTILLA Model SPEEDWELL

Method of advance and retard AUTOMATIC

Make of ignition coil LUCAS/BOSCH Model HA 12

No. of ignition coils 1 Voltage 12

Make of dynamo LUCAS Model C 39 PV 2

Voltage of dynamo 12 V. Maximum output 19 amps.

Make of starter motor LUCAS Model M 35 G1

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

Make SPEEDWELL Model G.T. F.I.A. Recognition No.

TRANSMISSION

Make of clutch BORG & BECK Type SINGLE DRY PLATE

Diameter of clutch plate 6½" No. of plates 1

Method of operating clutch FOOT PEDAL

Make of gearbox BMC SPEEDWELL 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				
2.	1.681	18/29	2.374	18/29				
3.	1.233	22/26	1.412	23/24				
4.	1.000	- 13/18	1.000	- 13/18				
5.	3.3	14/32	4.664	14/32				

Type of final drive HYPOID

Type of differential EPICYCLIC BEVEL

Final drive ratio 4.55 Alternatives 5.38 5.1 4.9 4.22 3.9 3.73

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

Overdrive ratio, if fitted NONE

WHEELS

Type DISC Weight 4.525 kg.

Method of attachment NUTS & STUDS

Rim diameter 33 m.m. Rim width 87 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	177.8	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	171.4	m.m.	171.4	m.m.
		m.m.		m.m.
Width	31.75	m.m.	31.75	m.m.
Total area per brake	10883	m.m.²	10883	m.m.²

SUSPENSION

	Front	Rear
Type	INDEPENDENT	¼ ELLIPTIC
Type of spring	COIL	LEAF
Is stabiliser fitted?	YES	YES
Type of shock absorber	HYDRAULIC	HYDRAULIC
No. of shock absorbers	2	2

STEERING

Type of steering gear RACK & 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 60 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 114 cm.

No. of seats 2

Track: Front 116 cm. Rear 115.6 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 533 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.....

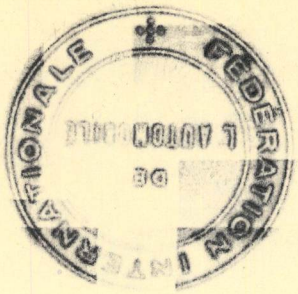
Fuel injection, if fitted

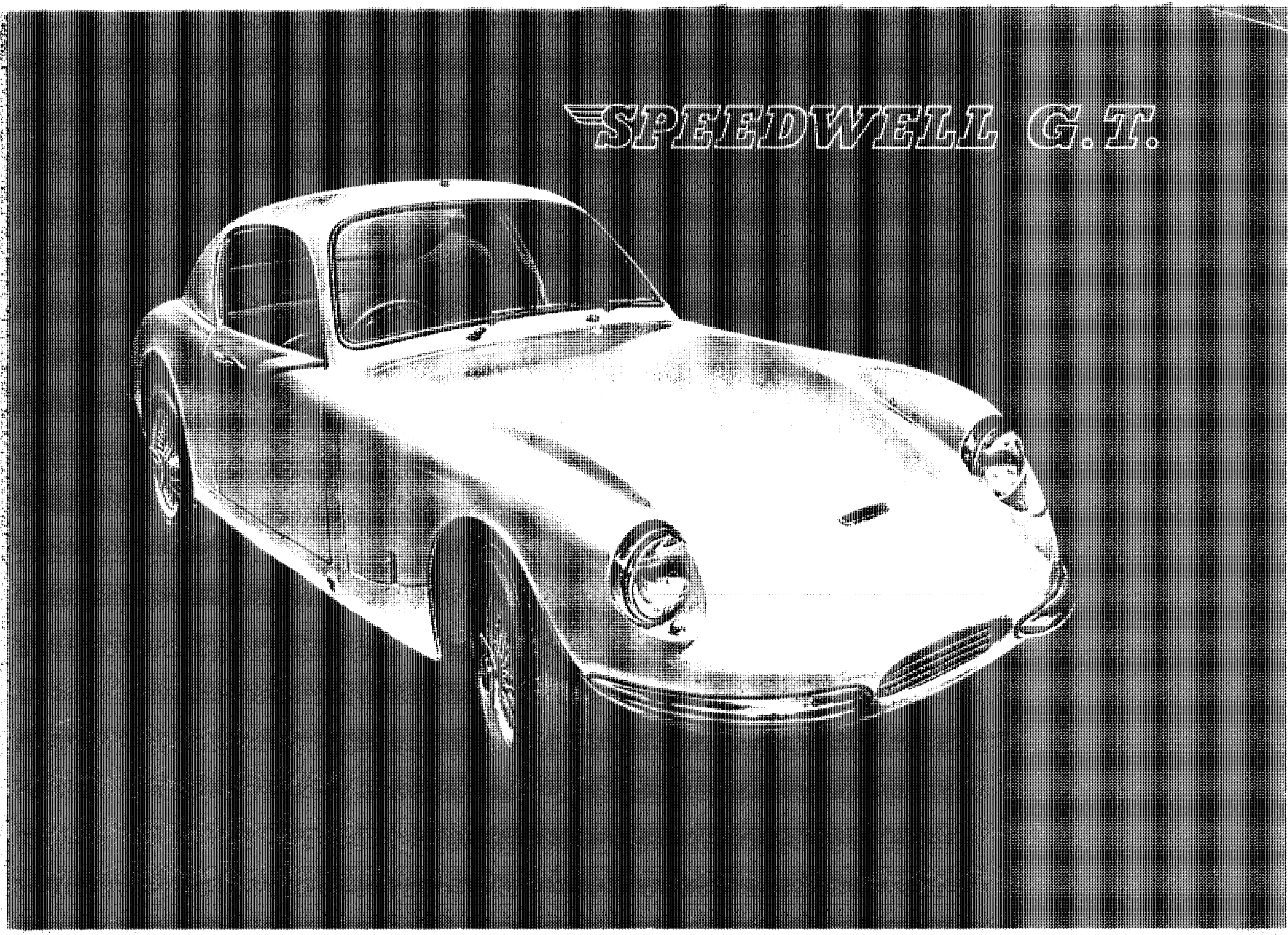
Make of pump..... Model or Type No.....

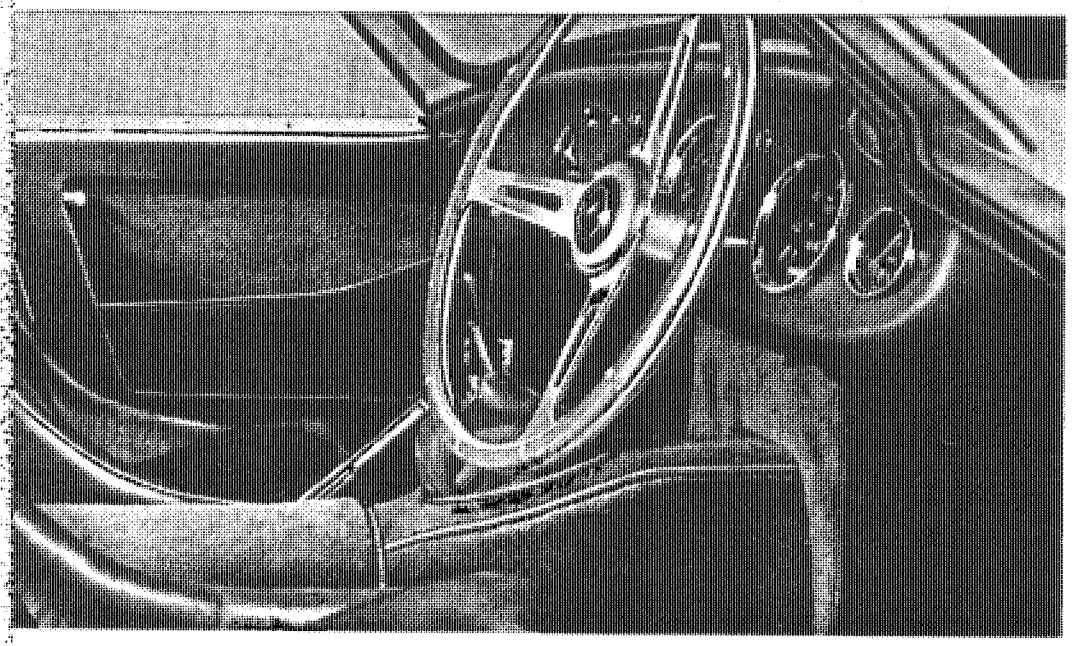
Make of injectors ..... Model or Type No.....

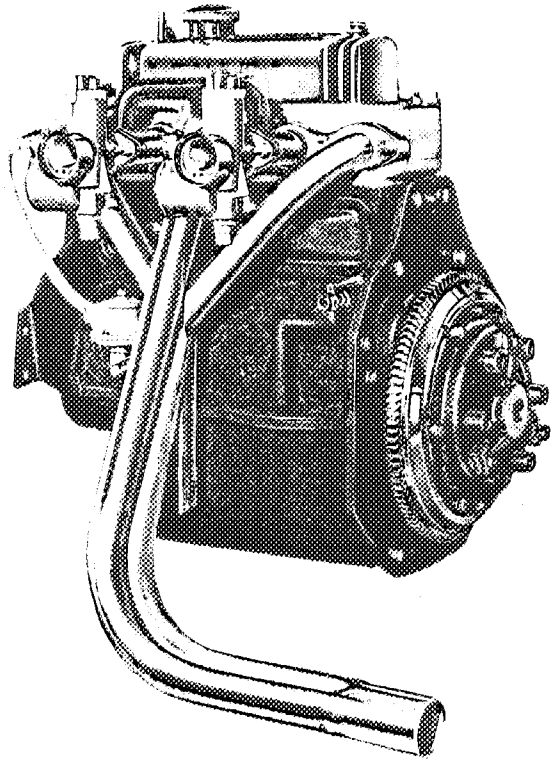
Location of injectors.....

Optional equipment affecting preceeding information:—



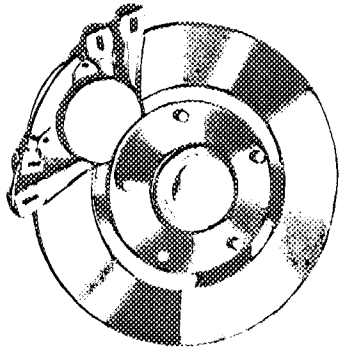

SPEEDWELL G.T.





interior — perfect braking — powerful 60 B.H.P. engine!

gine is developed from racing experience
ties of reliability and outstanding flexible
arburettors play an important part in the
ce of the car as well as its efficient low-
is in no way fussy and requires no more
nd service. An oil cooler in the lubrica-
or all bearing surfaces by maintaining oil



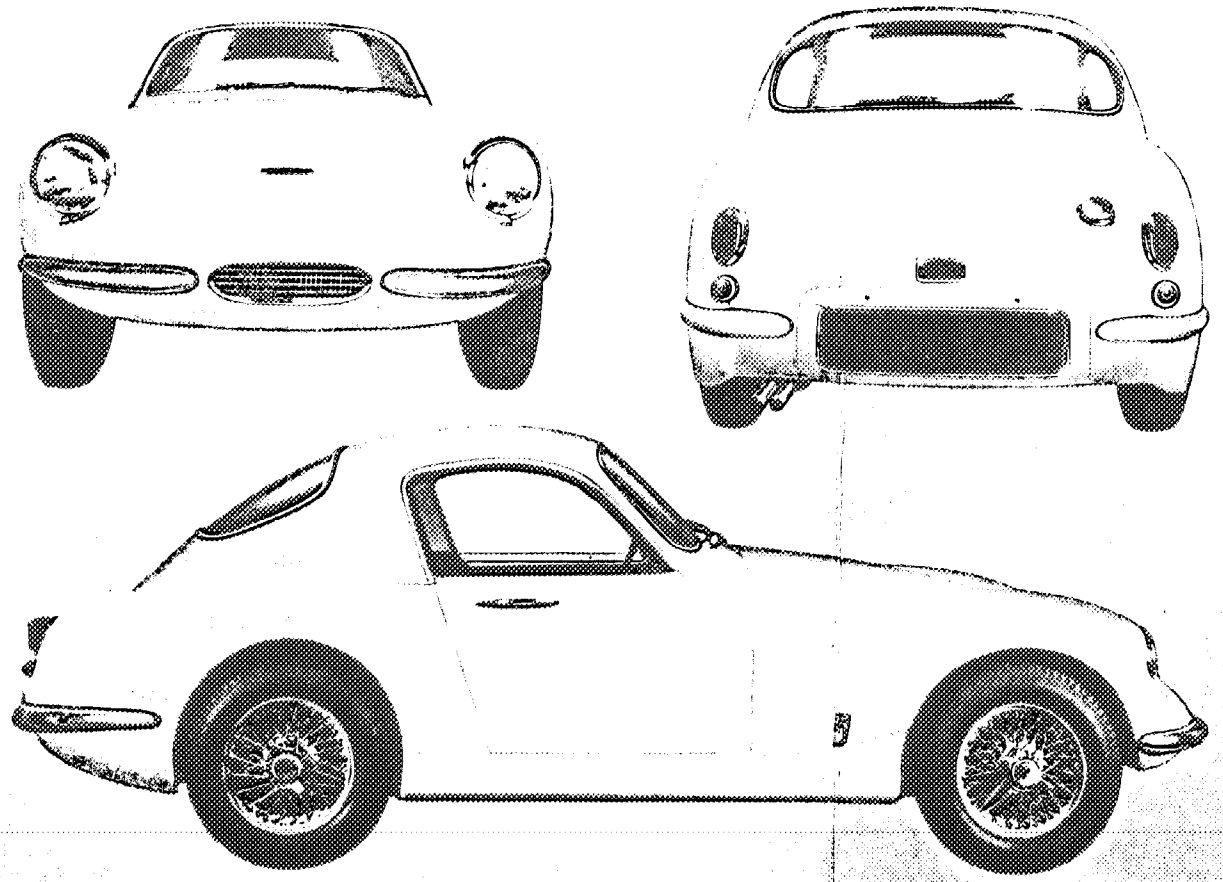
Front discs optional.

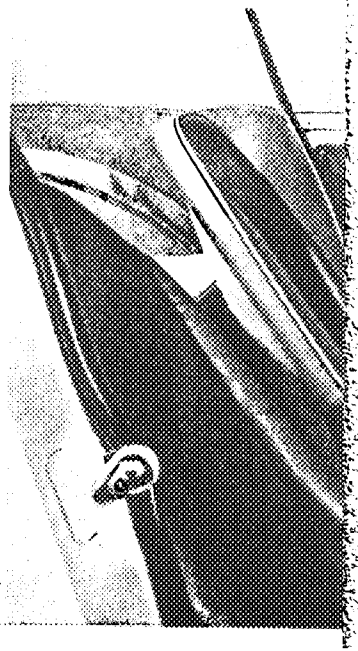
The coil spring independent front suspension is controlled by a heavy duty stabiliser bar. Specially tempered quarter elliptic rear springs with axle movement controlled by a Panhard rod ensure that the road holding of the Speedwell GT is one of the best

Wire wheels ensure maximum cooling for the hydraulic drum brakes which are fitted with anti-fade linings. Front disc brakes are available as optional equipment.

If you want to go Grand Touring

then the Speedwell GT is the car for you.





Aero-dynamic styling – all round visibility – luxurious

The Speedwell GT is a true Grand Touring car designed to incorporate all the requirements of the fastidious sporting motorist in a unique combination of sleek body lines, personal comfort, delightful road holding, smooth running balanced power unit and brakes that inspire confidence. A superb way to travel and motor in the real sense of the word.
The body is developed on the famous Austin-Healey Sprite chassis and every care is taken to ensure weather proofing, sound insulation, maximum luggage space and engine accessibility. The entire car is undersealed. The dashboard layout includes all necessary instrumentation and control switches and is faced in real hide.

The Speedwell Clubman 60 en
and combines the essential quali
performance. The twin Amal c
sustained high-speed performan
speed characteristics. The engin
than the usual regular attention
tion system ensures protection f
at safe running temperature.

SPEEDWELL GT SPECIFICATION

ENGINE

In-line 4-cylinder O.H.V. "A" type BMC unit, water-cooled, three bearing counter-balanced crankshaft. Bore 64.0. Stroke 76.2mm. Cubic capacity 980cc.. Maximum b.h.p. 60 at 6600 r.p.m. Maximum torque 50 at 4500 r.p.m. Speedwell Clubman 60 cylinder head giving a compression ratio of 9.8 : 1. Oversize inlet valves in EN 52, exhaust valves in KE 965 mounted on double valve springs. Flat top solid skirt pistons, complete crankshaft assembly static and dynamically balanced with lightweight flywheel. Vandervell lead-inium bearings fitted throughout. High speed camshaft.

Exhaust System: Three-branch full-flow tubular manifold and straight-through silencer fitted at rear fitted with twin chrome tail-pipes.

Fuel System: Twin monobloc amal carburettors (Twin HS2-S.U.-semi-downdraught optional). S.U. type electrical fuel pump fitted in engine compartment. Cold air box fitted to carburettors. Tank capacity 9 gallons (40 litres).

Lubrication System: Full pressure feed, wet sump. Vane type pump driven from camshaft. Full-flow external oil filter with renewable element. Oil cooler. Sump capacity 6 pints (3.4 litres) plus 2 pints (1.1 litre) for filter and cooler.

Ignition System: Bosch coil and distributor. K.L.G. Plugs.

Cooling System: Aero-dynamic cooling air entry ducted to pressurise radiator with pump, fan and thermostat. Capacity 11 pints (6.2 litres).

MECHANICAL

Clutch: Single dry plate 6¼ in. (15.88 c.m.) with Speedwell springs. Hydraulically operated by pendant pedal.

Gearbox: Four-speed synchromesh on second, third and top. Ratios—first 3.628; second 2.374; third 1.412; top 1.00; reverse 4.664. Remote control gear lever centrally placed on floor. Oil capacity 2.3 pints (1.33 litres).

Propeller Shaft: Open, with needle roller bearing universal joints. Sliding splines in gearbox.

Rear Axle: Hypoid, three-quarter floating, banjo type. Ratio—choice of 3.7; 4.2; 4.5; 4.9; 5.1; 5.3. Oil capacity approximately 1.75 pints (1 litre).

Steering: Rack and pinion—2.3 turns of steering wheel, lock to lock. Two spoke-16 in. diameter steering wheel. Turning circle approximately 31 ft. 6 in. (9.60 m.).

Suspension: Front—independent, with wishbones, coil springs, shock absorbers and anti-roll bar. Rear—quarter elliptic leaf springs with shock absorbers, radius arms and Panhard rod to control axle movement. Lever type hydraulic shock absorbers.

Brakes: Foot—pendant pedal operating on drum brakes fitted with anti-fade linings. Hand—centre pull-up lever operating on rear wheels through compensator.

Road Wheels: 13 in. centre knock Balanced wire wheels, 61-spoke fitted with 5.20 × 13 high speed tyres and tubes.

ELECTRICAL

12 volt, 38 amp./hr. capacity battery. Double dipping headlamps with foot-operated dip switch, side lamps combined with front flashers, twin stop tail-lamps combined with reflectors, twin flashing direction indicators, rear number plate lamp, twin self-parking windscreen wipers. Matched pair of horns, combined ignition and starter switch, easy click-action switches operating lamps and other electrical accessories.

INSTRUMENTS

120 m.p.h. speedometer with trip and total mileage recorder. 8,000 r.p.m. electronic rev. counter. Combined water temperature and oil pressure gauge, petrol gauge, oil temperature gauge. Warning lamps to indicate no dynamo charge and headlamp high beam position. Warning lamp to show flashers working. Concealed instrument illumination.

BODYWORK

Closed two-door, two-seater Grand Touring car. Aero-dynamic body shape. Main chassis structure consists of Sprite all-steel mono-construction with aluminium top and bonnet (bonnet may be in fibreglass). The aluminium top is not removable. Complete bonnet assembly comprising front wings, radiator ducting, headlamps, etc. is hinged at the front and is opened as a complete assembly for maximum engine accessibility. Double curvature laminated glass front windscreen. Double curvature perspex rear screen. Double curvature removable sidescreens. Each door has an open pocket and is fitted with an internal catch release as well as external sliding door handle. The two bucket seats have foam rubber cushions and the back of the seats tip forward to allow access to the luggage compartment in which the spare wheel is housed horizontally. Complete body is undersealed and sound insulated. The entire interior is covered with close fitting carpet. Dashboard faced in hide and rest of interior is finished in P.V.C.-coated fabric. Roof is trimmed in light washable material. A windscreen washer operated from the dash is fitted as standard equipment.

HEATING SYSTEM

Complete fresh-air heating and ventilating equipment with windscreen demisting is fitted as standard equipment.

OPTIONAL EXTRAS

Radio, close ratio gears, Super de-luxe all leather interior with light-weight seats, front disc brakes with 8 in. rear drums.
Alternative Axle Ratios.
Nine-spring competition clutch.
Competition shock absorber valves.
Speedwell Clubman 70 racing head with rocker gear, inlet manifolds and Amal carburettors.
Racing side exhaust system.
Wood rimmed steering wheel.

DIMENSIONS

Length: 11 ft. 6 in. (3.5 m.)
Width: 4 ft. 8 in. (1.43 m.)
Height: 4 ft. (1.26 m.)
Weight: Approximately 12 cwt. (600 kg.)

PERFORMANCE DATA

Overall gear ratios—

3.7 axle	First	13.53		4.9 axle	First	17.70	
18.9 m.p.h. per	Second	8.86	(100 *miles an*	14.46 *m.p.h. per*	Second	11.59	(90 *miles an*
1000 r.p.m.	Third	5.27	*hour at* 5740	1000 *r.p.m.*	Third	6.89	*hour at* 6760
	Top	3.73	r.p.m.)		Top	4.88	*r.p.m.*)
	Reverse	17.40			Reverse	22.76	
4.2 axle	First	15.31		5.1 axle	First	18.59	
16.7 m.p.h. per	Second	10.02	(100 *miles an*	13.75 *m.p.h. per*	Second	12.17	(90 *miles an*
1000 r.p.m.	Third	5.96	*hour at* 6510	1000 *r.p.m.*	Third	7.24	*hour at* 7100
	Top	4.22	*r.p.m.*)		Top	5.13	*r.p.m.*)
	Reverse	19.68			Reverse	23.90	
4.5 axle	First	16.52		5.3 axle	First	19.50	
15.45 *m.p.h. per*	Second	10.82	(100 *miles an*	13.13 *m.p.h. per*	Second	12.76	(80 *miles an*
1000 *r.p.m.*	Third	6.43	*hour at* 7020	1000 *r.p.m.*	Third	7.59	*hour at* 6630
	Top	4.56	*r.p.m.*)		Top	5.38	*r.p.m.*)
	Reverse	21.25			Reverse	25.07	

Maximum rev. limit 6,800 r.p.m. Sustained 5,800 r.p.m.

NOTE: 4.5 ratio for continuous town traffic conditions, mountain areas, etc. 4.2 ratio for town traffic conditions, but also some longish fast runs. 3.7 ratio mainly fast, long distance runs.
Other ratios are only recommended for closed track competition work.

Due to possible supply difficulties we reserve the right to alter specification, design or equipment without prior notice.

SPEEDWELL
PERFORMANCE CONVERSIONS LTD.
763 FINCHLEY ROAD, LONDON, N.W.11
Telephone: SPEedwell 2266 Telegrams: "Speedercon" London, N.W.11

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

SPEEDVELL - CAT	11/60	26
MARQUE ET MODELE	VALIDITE HOMOLOGATION	FICHE NR.

	AT / 1000
	GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 26/10/95 par _____ visée ce jour le _____ par _____