

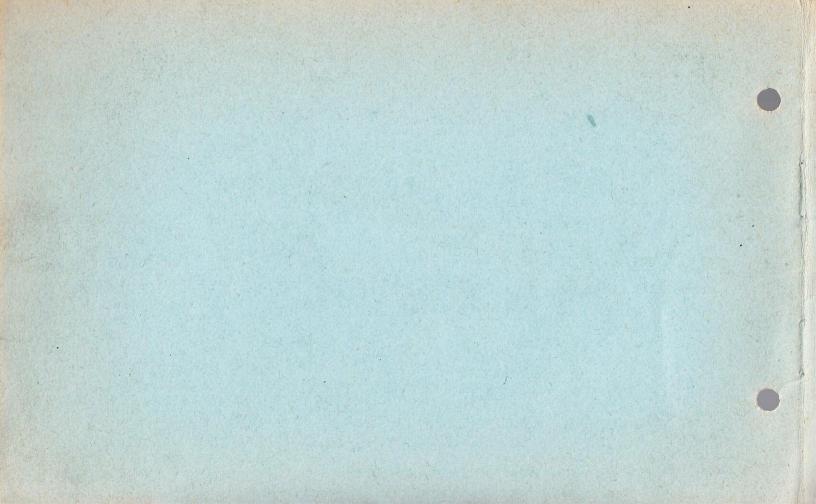


By Appointment To His Royal Highness The Duke of Chinburgh Suppliers of Vespa Scooters



MODEL VSC I (180 c.c.)

SUPPLEMENT TO VESPA G.S. V.S.B. I MODEL SERVICE STATION MANUAL FOR MACHINES PREFIXED "V.S.C. I."







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DOUGLAS (SALES & SERVICE) LTD., KINGSWOOD, BRISTOL

Telephone: Bristol 67-1881

A DIVISION OF THE WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED





PERFORMANCE AND SPECIFICATION

Consumption (according to CUNA Standards): 2.8 Lt/100 Km. (85 mls./U.S. gal.; 102 mls./imp. galls. approx.). Petrol-oil mixture i.e. 5% oil.

Max. Speed (CUNA Standards) 105 Km/h (65.3 m.p.h. approx.).

MAIN SPECIFICATIONS

Wheel base	 1230 mm. (48.4")
Handlebar width	 670 mm. (26.3")
Total length	 1770 mm. (69.6")
Max. height	 1065 mm. (41.9")
Min. ground clearance	 120 mm. (4.7")
Turning radius	 1400 mm. (55.0")
Total dry weight	 99.5 Kg. (219.3 lbs.)

Engine-wheel transmission ratio:

1st Gear	1:14.466
2nd Gear	1:10.088
3rd Gear	1: 7.461
4th Gear	1: 5.710

ENGINE: single horizontal cylinder two stroke engine with cross flow scavenging and flat top piston.

Bore 62 mm. (2.44"). Stroke 60 mm. (2.36"). Cylinder displacement 181.145 c.c. Compression ratio 7.7:1.

H.T. Flywheel external coil ignition.

Spark advance: $26^{\circ} \pm 1^{\circ}$ before T.D.C.

Sparking plug types: Marelli CW 250 L-T, CW 240 G or CW 240 B; Champion NA 8; Bosch W 240

T2; K.L.G. FE 80; Lodge 2 H LN.

Model Prefix	Year	Engine Stroke Bore Capacity mm. mm. cm.	Mixture	Carburettor Del'Iorto	Timing ±1°	Sparking Plug	Tyre I	Pressure R.
VSC I 1965	1965	60 62 181.14	5% Pure mineral oil	SI 27/23	26°	Champion NA8 KLG FE80 Lodge 2 HLN	Dunlop 16 Pirelli 16	Dunlop Solo 20 Pirelli 22 Dunlop with
		4 Speed gear box	See Lubrication Chart				Tyres - 3	Pillion 32 Pirelli 32 3.50–10″

Note: The fuel consumption and maximum speed figures must not be accepted as binding. Many factors outside our control can considerably affect them once the machine is in the hands of the owner and in service.

LUBRICATION CHART

Part to be lubricated		Lubrication					
Every 2,500	Every 5,000	*Shell	*B.P.	Esso	Castrol	Mobil	
See	over	Shell 2T Two- Stroke Oil or Shell X-100 30	Energol Two- Stroke Oil or Energol SAE 30	Esso Extra Motor Oil 20W/30	Castol XL	Mobiloil A	
Front suspension Felt pad on fly- wheel cam Joints on brake control Speedo flexible drive	Control Cables Gear-change quadrant	Retinax A	Energrease L.2	Esso Multi-purpose Grease H	Castrolease L.M.	Mobilgrease M.P.	
Engine at each re-fuelling		Shell 2T Two- Stroke Oil in ratio of 5% or ½-pint to I¼-galls. petrol	Energol Two- Stroke Oil in ratio of 5% or $\frac{1}{2}$ -pint to $\frac{1}{4}$ -galls. petrol	Essolube 30 in ratio of 5% or ½-pint to 1¼-galls. petrol. Esso Two-Stroke Motor Oil in ratio of 3¼-pint to 1½-galls. petrol	Castrol XL in ratio of 5% or ½-pint to 1½-galls. petrol. Castrol Two-Stroke Oil in ratio of ¾-pint to 1¼-galls. petrol	Mobiloil A in ratio of 5% or $\frac{1}{2}$ -pint to $\frac{1}{4}$ -galls. petrol or Mobil-Mix in ratio of $\frac{3}{4}$ -pint to $\frac{1}{4}$ -galls. petrol	

^{*} Marketed also by National Benzole Co. Ltd., by arrangement with B.P. & Shell-Mex Ltd.

APPROVED PETROL/OIL MIXTURE

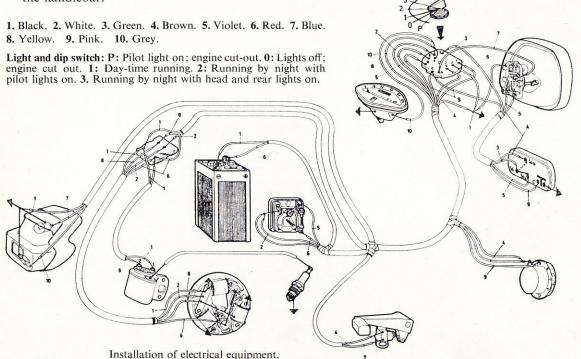
Make	Description
Shell	2T Two-Stroke Mixture
B.P.	B.PZoom
National Benzole Co. Ltd.	Hi-Fli

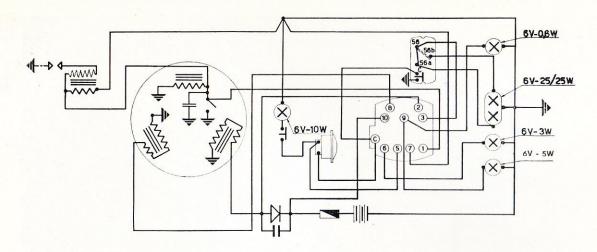
Hydraulic Dampers	When not working efficientty, consult your Dealer. If servicing is required, they should always be returned to the Works.
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The greases specified on this chart should also be used for the speedometer pinion and front wheel bearings and for the main bearing of the F/side of c/shaft during overhaul.

ELECTRICAL EQUIPMENT

On this machine the electrical plant is provided with a 6V. 12 Ah battery, which feeds the horn, stop light and pilot lights; the battery is fed by the flywhell magneto by means of a rectifier-diode. On the handlebars, located on the headlamp housing, there is a 5 way lighting switch which includes an ignition switch. A dip switch which includes the horn button, is mounted on the right hand side of the handlebar.





Wiring diagram.

Connections on Switch Unit. P: contacts 1-3 and separately 10-9-6. 0: contacts 1-7. 1: contacts 10-5. 2: contacts 10-9-5-6 and separately 2-8. 3: contacts 10-5 and separately 2-3-8-9.

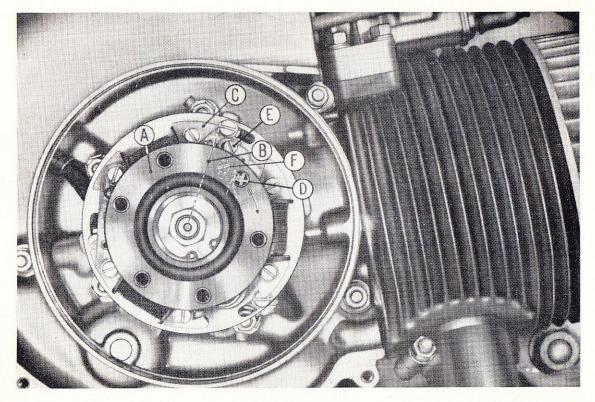
Following lighting and signalling devices are supplied:

— with a.c. (from the six pole flywheel magneto) in the position 3 of the main switch (p. 6) for feeding: a 25/25 W bulb (main

and dipped beam); a 5W bulb (number plate light); a 0.6W bulb (speedo. light).

— with d.c. (6V 12Ah battery fed by the flywheel magneto by means of a rectifier-diode) for feeding the horn; a 3W bulb (pilot light); a 5W bulb (number plate light); a 0.6W bulb (speedo, light); a 10W bulb (stop light), in the position 2 of the main switch (p. 6).

CHECKING AND SETTING THE FLYWHEEL MAGNETIC TIMING



See Following Page.

To check the Magnetic Timing (Phasing) of the flywheel Magneto carry out the following operations:—

- 1. Remove rotor "A" from centre hub.
- 2. Position gearbox in neutral, rotate hub until line "B" if extended, coincides with the extreme edge of coil "C".
- 3. In this position the C.B. points "D" should just separate. The maximum point gap must be between 0.011" and 0.019".
- 4. To adjust points, slacken screw "E" and rotate eccentric cam "F" using small screwdriver.

Caution. It is not advisable to disturb the coil securing screws unless the replacement of a coil becomes necessary.

CARBURETTOR DATA

Type Del'lorto S.I. 27/23.

Main Jet 120

Pilot Jet 50

Starter Jet 60

Diffuser BE. 3

Main Air Bleed 160

TOOLING

Same as for VSB 1 160 c.c. model G.S. with exception of the flywheel holding tool Pt. No. TOO 27383. An additional 3 holes of 19 mm. dia. must be drilled equidistant between the existing holes to accommodate the 6 rotor securing bolts which this model incorporates.

STEERING LOCK

To withdraw steering lock it is not necessary to remove steering column. Carefully prise off chrome cover and rivet. Insert key and rotate anti-clockwise and slide barrel unit out from housing.

If key is not available the barrel unit must be drilled out using a 9 mm.—10 mm. drill.

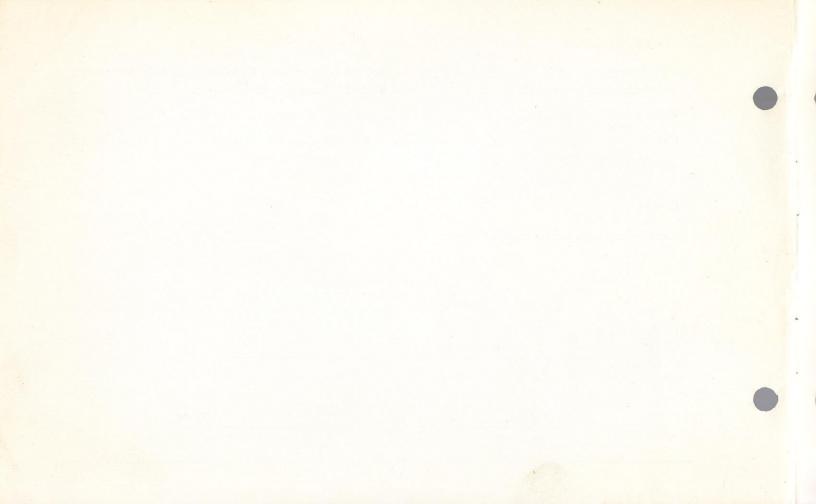
Caution: Take care when carrying out this operation to ensure drill is at 90° to chassis, otherwise lock housing can be damaged rendering the chassis U/S.

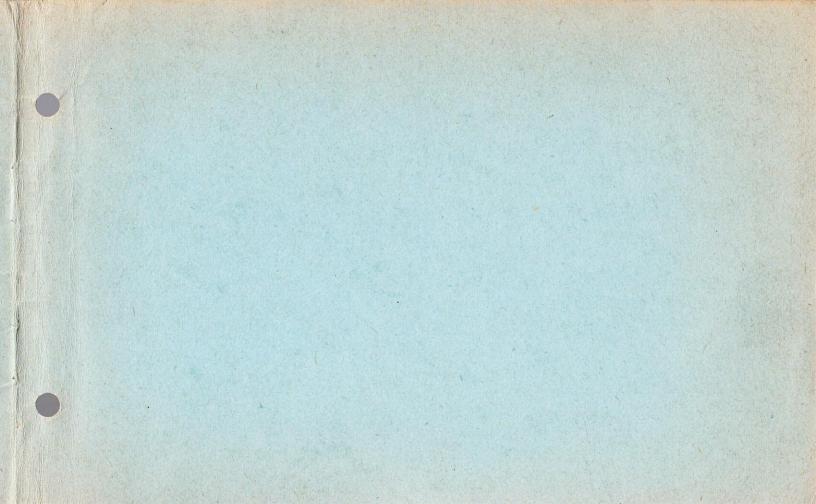
Note:

Replacement keys can be obtained from:

DOUGLAS (SALES AND SERVICE) LIMITED
Spares Department,
Kingswood,
Bristol

When referring to this Publication please quote this reference: VSC.1. SSM/Supplement/LB6762/3.







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