OPERATION AND MAINTENANCE





PIAGGIO



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OPERATION AND MAINTENANCE

VESPA 125 Sprint VESPA 150 Sprint





INTRODUCTION

The **« Piaggio Co. »** wishes to welcome you into the family of Vespa owners and takes this opportunity of thanking you for your preference.

We feel sure that this scooter will give you complete satisfaction.

Because of its characteristics (comfort, limited consumption, easy driving, quiet engine, clean lines, etc.) the Vespa has a wide range of use: for practical operation, pleasure trips, along the main highways or country roads. Long journeys on the Vespa will not fatigue you and you will no doubt be quick to appreciate its first class performance.

This booklet, with its simple instructions on operation and maintenance will furnish you all the information necessary for gaining a complete working knowledge of your vehicle.

N. B. - This booklet illustrates the models of Vespa «Sprint», provided with 150 cc. and with 125 cc. engine. The operation and maintenance instructions are valid for both models; the specific characteristics of each model are reported at page 41.

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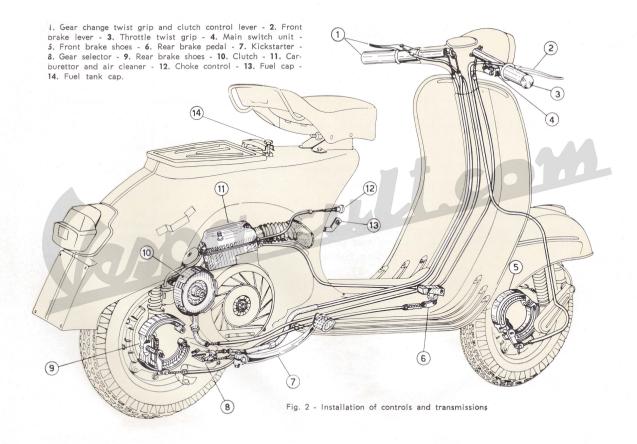
NOTICE

To maintain your Vespa in perfect running order and not to invalidate the guarantee offered by the contract, it is advisable to consult your dealer or Service Station, recognisable by the mark shown here, regarding repairs.

Demand exclusively original Piaggio spares.

All PIAGGIO spare parts are produced from the same specific materials, have been subjected to the same machining operation and inspection as the component parts of your machine. This is guarantee for durability, performance and your personal safety.





| OPERATION | INSTRUCTIONS | NOTES |
|---|---|---|
| SECURITY LOCK | The vehicle is provided with two security locks, the one relates to the steering column (locking and unlocking the handlebar) and the other one for locking the tool box. Both actioned by a common key. | Both the locks should not be lubricated. |
| Steering lock a) Locking the handlebars | To lock the vehicle turn the handlebars anticlockwise up to the limit stop; rotate the key and push inwards, so that it thrusts the sliding bar against the steering column (see fig. 3). To ease the insertion of the sliding bar into the hole of the steering column, slightly turn the handlebars from the limit stop clockwise. When the handlebars are locked the key will now spring back to its original position and can then be withdrawn. | The key can be ex- tracted from the lock with handlebars lo- cked or free. |

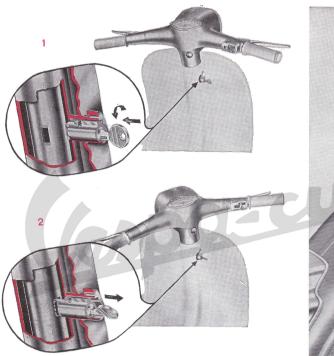


Fig. 3 - Steering lock

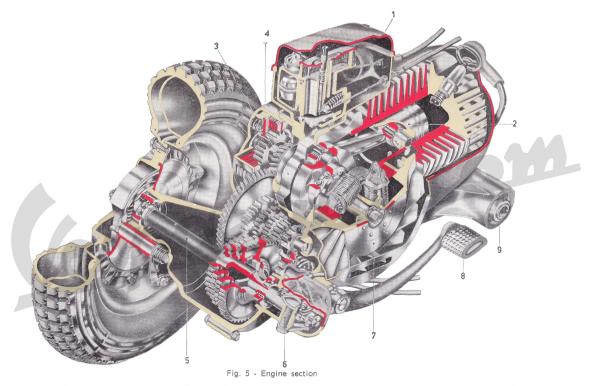
Normal position - 2. Locked position.
 Note - The arrows indicate the operation to be carried out for locking (1) and for unlocking (2).



Fig. 4 - Application of dualseat

N. B. - For access to fuel tank push the button indicated by arrow and pivot the seat on its forward edge.

| OPERATION | INSTRUCTIONS | NOTES |
|-----------------------------|---|---|
| b) Unlocking the handlebars | To release the handlebars, insert the key in the lock, turn it to the left and pull it back ; then turn the handlebars in the normal position. | |
| FUEL SUPPLY | Use a mixture of oil and gasoline (petrol) i. e. 2% Pure Mineral Oil SAE 30 (i. e. about 1/4 pint of oil per 1½ gals of gasoline (petrol); following oils can be used: Esso 2-T Motor Oil; Shell Golden Motor Oil; Shell X-100 2T; Total 2T. Do not use detergent oils. | Ensure that the fuel tank breather is always clean. |
| ACCESS TO FUEL TANK | The fuel tank is provided with a hinged cap located under the saddle. For access to fuel tank when the dual seat is fitted pivot the seat on its forward edge, after having released the rear attachment as shown at fig. 4. | |



1. Group carburettor air cleaner - 2. Piston - 3. Crankshaft - 4. Clutch - 5. Mainshaft and pinion assy. - 6. Gear shifter - 7. Flywheel magneto - 8. Kickstarter - 9. Crankcase swinging arm clutch side (pivoted to the frame).

| OPERATION | INSTRUCTIONS | NOTES |
|------------------------------|---|-------|
| BEFORE OPERATING THE VEHICLE | Unscrew the plug on the gear box marked «OLIO» second detail, bottom, L. H., fig. 18) and check that the oil is level with the hole when the vehicle is standing upright. | |
| RUNNING - IN PERIOD | For running - in the first 2000 Km. (1200 mls), do not keep the throttle fully open for long periods. | |
| MAP | After first 1000 Km. (600 mls) change oil in gear box (see fig. 18) and check that all nuts and bolts are tight. Check that the carburettor is tight on the crankcase to avoid any possibility of air leaks. | |
| TYRE PRESSURE | Front 1.2 Kg/cm² (17 p.s.i.): Rear 1,75 Kg/cm² (25 p.s.i.) solo; Rear 2.5 Kg/cm² (35.5 p.s.i.): with passenger. | |



A: Open the fuel tap - B: Selector in neutral - C: Pull out the choke control (with cold engine) - D: Bring throttle twist grip to idling position - E: Operate kickstarter.

| OPERATION | INSTRUCTIONS | NOTES |
|-------------------------------|--|--|
| STARTING | — Carry out the operations indicated on fig. 6. Do not use the choke when the engine is warm; as soon as the engine is running smoothly bring the choke control back to its normal position. | In case of hard starting see page 16. |
| SETTING THE SCOOTER IN MOTION | With the engine running at idling speed declutch and rotate the gear change twist grip to the position of first gear (fig. 6). For setting the vehicle in mo- tion slowly let in the clutch and gra- dually open the throttle. | |
| GEAR CHANGE | Close the throttle, declutch and rotate the gear change grip to a higher or lower gear, as the case may be (fig. 7). | When it is necessary to decellerate do not hesitate in changing down. |
| STOPPING THE ENGINE | Before stopping the engine change to « neutral » and then switch off the ignition. | |

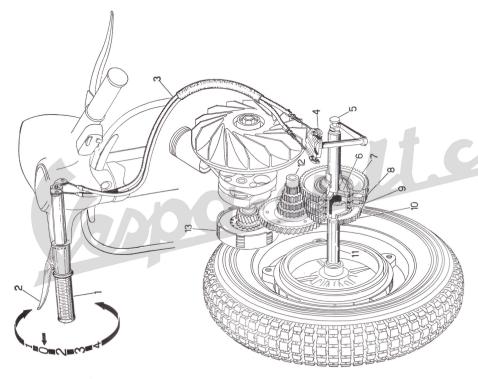


Fig. 7 - Gear transmission

- Gear change cables -1st gear 8. 2nd gear Selector spider lever - 2. Clutch control stem - 6. Gear change twist grip shifter -Gear
 - 13. Clutch. gear 12. Spring Mainshaft ter - 5. Selector s - 10. Top gear -3rd gear
- E. The positions 1-2-3-4 on the gear change twist grip correspond to bot-

neutral.

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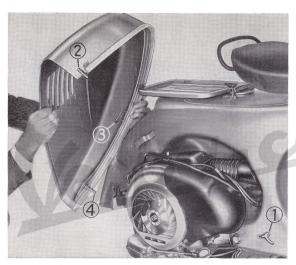


Fig. 8 - Removing engine cowl.

1. Lever for locking cowl. - 2. Front locating pin - 3. Clasp securing cowl, to chassis - 4. Rear hooked pivot pin.

REMOVAL OF ENGINE COWLING

- Pull the lever «1» and turn to release it from cowling. Swing the cowling outwards so that the front locating pin «2» is free of its housing.
- Lift the cowling upwards from the front pivoting on its rear section: so as release the clasp «3» from the chassis bracket.
- Pull the cowling outwards on the locating pin « 4 » so as the latter clears its housing, thus releasing the cowling.

For reassembly carry out the reverse procedure.

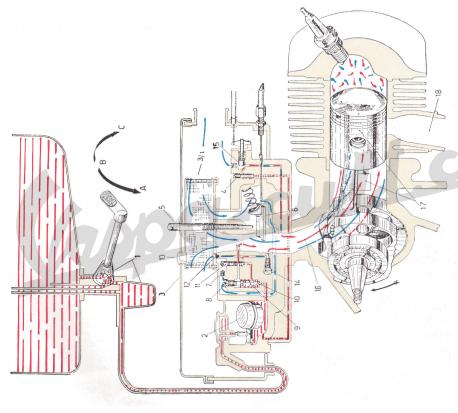


Fig. 9 - Fuel supply and distribution diagram

- B) Open; C) Closed 4. Starter jet filter cleaner sediment ai. and and Carburettor tap Combined Float
 - air calibrator Throttle screw slide set Throttle
- 14. Slow running adjuster 18. Exhaust port. Slow running jet 12. Slow running jet air calibrator - 13. Oil filler plug - 16. Inlet port 9. Mixer mixer valve on 15. Starter Air calibrator screw

ADJUSTMENT ON CARBURETTOR

For adjusting the idling turn the slow running adjuster screw (fig. 9, n. 5).

- On the carburettor body a set screw is provided for adjusting the throttle cable play; this screw is to be reset only if necessary or on dismantling and reassembly operations.
- On the air cleaner case, opposite to said screw, is a plugged hole. When this plug is removed the spring loaded idler adjusting screw is accessible (Fig. 9, n. 14).

To avoid carburations troubles, we recommend that this adjustment is carried out by a Vespa dealer.

STARTING UP when the engine is flooded:

In the case of difficulties caused by flooding (presence of unvaporised mixture in the cylinder), the following methods can be used:

- Attempt push starting: engage the 2nd gear, declutch, push the vehicle to a certain speed, sharply release the clutch and when the engine fires declutch immediately.
- Close the fuel tap, remove the sparking plug (Fig. 10) and clean; then kick over the engine several times. Screw in the sparking plug securely, open the fuel tap and start the engine.

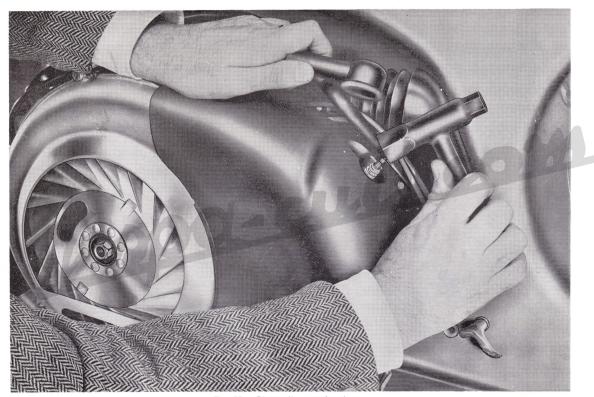


Fig. 10 - Dismantling spark - plug

| OPERATION | INSTRUCTIONS | NOTES |
|---------------------------|--|---|
| SPARKPLUG REMO- VAL | Remove engine cowl (Fig. 8), disconnect the H.T. lead and extract the sparkplug using the box wrench as indicated in fig. 10. | On reassembling the sparkplug ensure that it is entered into the threaded hole at the correct |
| CHANGING OIL IN GEAR BOX | Drain off through hole (second detail, letter «S», fig. 18). Introduce a small quantity of flushing oil, run the engine a few minutes to ensure thorough circulation and cleaning and drain off again. Refill gear box with about 250 grs. of new oil (up to level of filling hole). | This operation of changing oil should be carried out with warm engine. |
| DISMANTLING AIR FILTER | — For extracting the air filter «A» (fig. 11) from the air filter case remove the engine cowl (fig. 8) and air cleaner case cap, fig. 11. Unscrew the two screws « B » securing the air filter and extract the latter component. | The air cleaner case cap can be extracted by dismantling the two securing screws. |

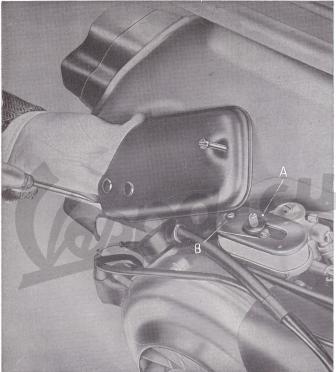
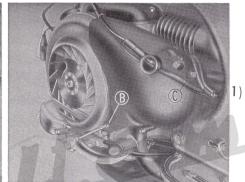


Fig. 11 - Dismantling the air cleaner

Note - If the air cleaner case is taken off, it is also possible to gain access to the carburettor.



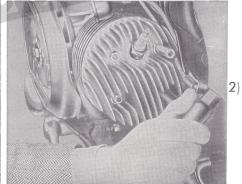


Fig. 12 - Dismantling cooling hood from engine (1) and head (2).

| OPERATION | INSTRUCTIONS | NOTES |
|------------------------------|--|---|
| DISMANTLING CYLINDER HEAD | — Strip off engine cowling, (Fig. 8), disconnet the H. T. lead, dismantle the « Cooling hood » (fastenings « B » - « C », fig. 12) and unscrew the 4 securing nuts by means of a box wrench. | -014 |
| CHANGING WHEELS AND TYRES | For dismantling the wheels from the vehicle remove the nuts (Fig. 13). When a tyre has to be removed, first deflate and then remove the nuts joining the two wheel rims (fig. 17). | The front and rear wheel are interchangeable one with another providing that the tyre pressures is regulated accordingly (page 10). |
| BRAKE ADJUSTMENT | Brakes are properly adjusted if: — the wheel rotates freely when respective control lever or pedal are in resting position. — the braking action starts as soon as respective controls are operated - These conditions are obtained adjusting the screws indicated with an arrow in Fig. 14. | On reassembly tighten said screws alternately and progressively. |

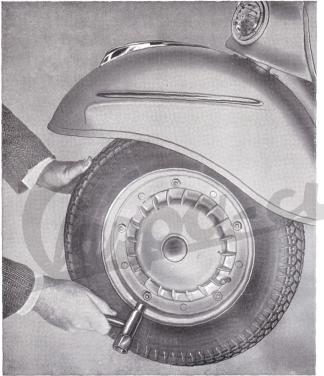
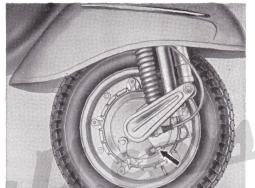


Fig. 13 - Removing wheel from vehicle



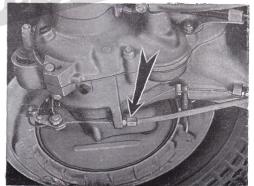


Fig. 14 - Front and rear brake adjustement

| OPERATION | INSTRUCTIONS | NOTES |
|--|--|---|
| CHECKING AND SET- TING THE FLY- WHEEL MAGNETIC TIMING | 1) Selector in neutral (fig. 7); take off the plug located in the hole of the flywheel rotor and rotate the rotor by hand until the contact breaker group (fig. 15) is seen through the hole. | In order not to disturb ignition timing, do not slacken the stator plate or coil securing screws. |
| | 2) The contact breaker points « A » should start to open at the position indicated on the figure when the extremity of the coil is at a distance of 2÷4 mm. (0.078"÷ 0.15") from the respective pole shoe. | If necessary to adjust the spark advance, consult the Service Station. |
| | 3) By rotating again the rotor by hand, the max. opening of the contact breaker points should enter between the limits 0.3 to 0.5 mm. (0".011 to 0".019). | |
| | 4) If the conditions as per points 2) - 3) are not obtained, unscrew the screw «B» and rotate the cam «C» until these conditions are obtained. | Ensure screw « B » is tightened after having finished the operation. |

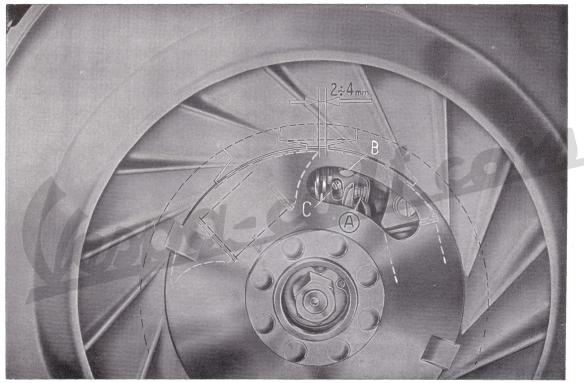


Fig. 15 - Operations for checking the « magnetic » timing of the flywheel.

| OPERATION | INSTRUCTIONS | NOTES |
|---------------------------|--|--|
| REPLACING BULBS | Should one of the headlamp bulbs fail, be- fore fitting a replacement, check the rear light bulb for serviceability and vice versa. | Before switching on the new light bulbs, check (on assy.), that the socket con- tact points are ef- |
| SETTING THE HEAD- LAMP | The correct setting of the main beam can be obtained both horizontally and vertically as follows: Check that both front and rear tyres are inflated to correct pressures; i. e. 1.2 and 2.5 Kg/cm² (15.5 and 35.5 p.s.i.). Place the | ficient. Do not wipe down with a cloth or contact with finger the reflector. |
| | scooter on a level floor in front of a white wall as seen in Fig. 16. Start the engine, hold the throttle control twist grip at about 1/3 and set the switch on «main beam». With two persons on the Vespa, slacken the screw securing the headlamp, then move the latter as required, in order that the beam axis coincides with point « + » on the wall. Tighten the screw firmly. | This operation can be carried out also with the driver only sitting on the machine. In this case, of course, the beam alignement should be altered whenever the scooter is beeing ridden by both driver and passenger. |

SETTING THE HEADLAMP

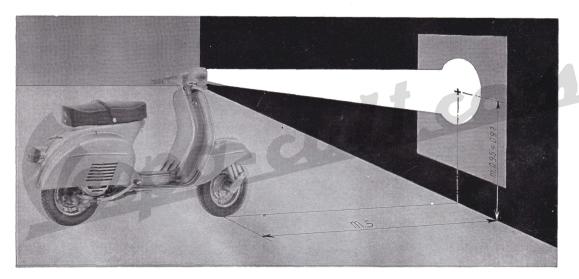


Fig. 16 - Setting the headlamp

N. B. - The point « + » is valid for setting with one or two persons mounted.

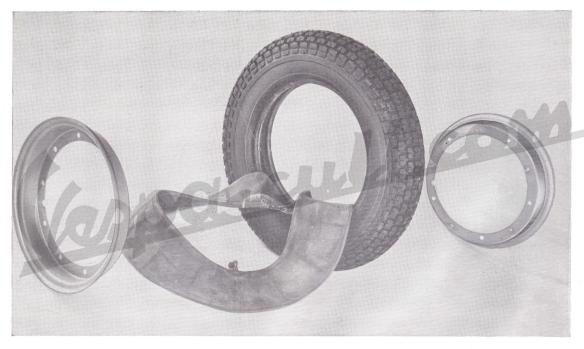


Fig. 17 - Tyre removal

MAINTENANCE

When difficulties of starting or running occur, check the spark pluq:

— Clean the spark plug electrodes with a wire brush or emery cloth and adjust the gap 0,6 mm. (0".023). Check porcelain insulation: if cracked or broken change the plug.

Clean in neat gasoline (petrol).

It is advisable not to change the type of spark plug as recommended by the manufacturer.

Every 4000 Km (2400 mls):

- 1) Check oil level in gear box.
- 2) De-coke the engine (cylinder head, piston crown and cylinder ports). Ensure that not residual carbon deposits remain inside the cylinder. Clean the exhaust pipe using a hooked steel wire.

- 3) Grease front hub through the appropriate nipples and lubricate the speedometer drive and transmission, the brake lever and gear selector.
- 4) Remove the air filter, (see page 18), clean by agitating in an oil gasoline (petrol) bath and if possible air blast dry.

Every 8000 Km (4800 mls):

- 1) Change oil in gear box (see page 18).
- 2) Lubricate control cables transmissions and felt lubricating pad on flywheel. (Consult your Service Station).
- 3) Clean, and if necessary, reset the contact breaker points (fig. 15). To avoid faulty ignition or other defects **consult your Service Station for this operation.**

SUMMARY OF INSTRUCTIONS FOR MAINTENANCE AND LUBRICATION

| PRINCIPAL OPERATIONS TO CARRY OUT | | LUBRICANTS |
|---|--|---|
| EVERY 4000 Km. (2400 mls) | EVERY 8000 Km. (4800 mls) | LODRICANTO |
| Gear box (top up) | Gear box (change oil) | Oil SAE 30 (+) |
| Fulcrum points of brake lever and pedal Gear selector Front suspension Speedometer drive and transmission Cleaning air filter, in gasoline (petrol). Decoking cylinder head and piston | Greasing control cables * Felt lubricat, pad on flywheel * | Esso Beacon 3 Shell Retinax A Mobilgrease MP Total Multis |
| Cleaning and adjusting sparking plug electrodes Decoking silencer. | Cleaning and adjusting contact breaker points (check timing *) | |
| Engine: At each refilling (lubricated by oil in mixture). | | 2% by volume pure mineral Oil SAE 30 (+) Esso Univis J 43 |
| Front and rear dampers (only if defective) * | | Shell Tellus Oil 13 Mobilfluid 62 |

⁽ +) e. g.: Esso 2 - T Motor Oil; Shell Golden Motor Oil - Shell X - 100 2 T - Total 2 T.

^{*} Consult your Service Station.

BEACON

ESSO

Notice - On the 2nd detail L. H., the oil draining hole is indicated with the letter «S»

LAYING UP

We recommend that the following operations be carried out:

- 1) Clean down the vehicle.
- 2) With the engine stationary and throttle fully opened, introduce 40 cc. of **OIL SAE 30** through the appropriate hole on the air cleaner case (n. 13, fig. 9). After said operation depress the kickstarter three or four times.
- 3) Drain off all fuel contained in the fuel tank; then grease over all unpainted metallic parts; next raise the wheel off the ground by placing wooden chocks under the footrest.

CLEANING THE VEHICLE

Notice:

Washing and polishing operations should not be carried out in the sun, particularly during the summer when the bodywork is warm

Under no circumstances should petrol or Diesel oil be used for washing painted surfaces or plastic material as they will deteriorate.

Always wash the scooter before polishing.

1) Engine

For cleaning the exposed surface of the engine use paraffin, a brush and clean rags.

2) Bodywork.

Washing.

Painted parts should be washed down using a low pressure hose. Do not use a high pressure system as grit may be forced into the paint. When the dirt and grime becomes soft, sponge off using one of the «car type» shampoos available (use a product of the type Rolene and Teepol, which are employed in aqueous solution, $3 \div 5\%$ by weight). First, lightly wash the painted surface of the scooter, in order to avoid scratching. Trohoughly rinse with plenty of water. Dry off using a clean chamois leather to eliminate water marks.

— Spots.

To remove spots caused by tar, grease, insects, etc., rub gently with a soft cloth dipped in oil or turpentine. More persistent marks can be removed with a solution of warm water and car shampoo.

Carry out this procedure pediodically, to eliminate permanent paintwork damage.

- Polishing.

If after washing, as previously described, the original condition is not restored, apply evenly a thin coat of good quality wax polish and shine with a soft cloth, rubbing gently in a side to side manner.

FAULT FINDING

When the machine does not run properly, inspect and rectify as explained below.

If the suggested remedies are not sufficient in eliminating the trouble, consult your Dealer.

| Fault finding | Remedies | Notes |
|--|---|--|
| HARD STARTING 1 Fuel system - Carburation - Ignition. Lack of fuel. | Turn to Reserve and refil as soon as | |
| Filter, jets, fuel tap, carburettor body | possible. Remove, wash in gasoline and blow | |
| clogged or dirty. Engine flooding. | See page 16. | |
| Air cleaner chocked or dirty. Sparking plug dirty - Porcelain of sparking plug cracked. | See page 18. Disconnect the plug lead. Check if sparking occurs between lead and crankcase when the kickstarter is operated. | 3 |
| Breaker points dirty, worn or pitted; gap between breaker points in- correct. | Consult your Dealer. | Fig. 19 - Ignition circuit 1. Flywheel coil 2. H. T. coil - 3. Flywheel cam - 4. Contact breaker - 5. Condenser - 6. Spar- king plug - 7. Engine cut - out. |

| Fault fiinding | Remedies | Notes |
|---|---|---|
| VARIOUS RUNNING DEFECTS | | |
| Lack of nower - High fuel consumption - Defective elect. equipment. | | |
| Spark plug misfiring (see fig. 19). | Clean or substitute. Clean the contact breaker - Check the electrode gap of the sparking plug; check the flywheel timing (see page 22). | Notice: When the carburettor is defective, the engine lacks com- |
| Silencer (or engine) chocked. | Clean (see page 27). | pression, noisy engine, defective suspension and brakes, general |
| Sparking plug loose on the cylinder head. | Screw down with a wrench. | mechanical failures, consult your Dealer. |
| Cylinder head joint loose. | Set head accurately and tighten nuts. | When overhauling the front su- |
| Air filter chocked or dirty or choke incorrectly set. | Wash in neat gasoline (petrol), air blast dry. Check choke control mechanism. | spension, grease the wheel bearings with FIAT JOTA 3 or SHELL ALVANIA 3 (or SHELL RETINAX A). |
| Wire terminals disconnected or carelessy connected. | Carefully check and connect. | |
| Headlight beam incorrectly set. | Adjust (see page 24). | |
| Defective bulbs. | See page 24 for substituting. | |
| | | |

GENERAL SPECIFICATION

Engine (see fig. 5): Single horizontal cylinder two stroke rotary distribution: i. e., carburated mixture is regulated by the crankshaft rotation. Performance and specifications concerning Vespa 150 cc. and 125 cc. at pages 42-43 and fig. 5. The engine is pivoted to the vehicles chas-

The engine is pivoted to the vehicles chassis through the crankcase swinging arm, clutch side (fig. 20). The rear wheel is fitted on the outer side of the drive shaft.

Lubrication of engine components (piston, cylinder, crankshaft, main bearing) is effected by the oil in the fuel mixture. The clutch and gear box function in oil bath.

Fuel supply (see fig. 9): gravity feed with mixture of oil and gasoline (petrol).

3 way tap: « closed », « open », « reserve ». Carburettor located in the air filter housing, provided with a throttle slide.

Ignition by means of a H.T. flywheel maneto external coil

Clutch (see fig. 5): multiplate on the crankshaft. The unit is operated by a lever located on L. H. handlebars and adjustable cable.

Gear box (see fig. 7): four speed drive with mesh gears. Operated by the twist grip on L. H. handlebars which functions in conjunction with the **clutch** control lever. Transmission ratio engine to driving wheels see at pages 42 - 43.

Starting (see fig. 6): by means of a kick-starter on the R. H. side of the vehicle.

Cooling: by means of a centrifugal fan.

Air intake: located inside the frame.

Muffler: expansion and absorption type.

Integral châssis (fig. 1): pressed sheet steel, streamlined monocoque type structure.

Handlebars: Light alloy casting comprising **speedometer.** All transmission cables and various controls are concealed therein.



Steering column, suspension: On the lower end of the steering column is pivoted the front wheel swinging hub. Front and rear suspensions with helical spring and double acting hydraulic damper.

Wheels: Intercangeable and made up of 2.10" pressed steel flanges; 3.50 - 10" tyres. Saddle: single saddle or dualseat (optionally instead of single one and luggage rack).

Brakes: cable operated expanding type. Front brake is operated by hand-lever (R. H. handlebars); the rear brake is pedal operated on R. H. foorboard.

Parking stand: a two legged stand with a central return spring.

Steering lock: with a sliding bar acting on the steering column.

STANDARD TOOL KIT

1 four ended box wrench (11-14-21-22 mm.); two double open-ended wrenches (11-14 and 7-10 mm.); one single open-

ended wrench (8 mm.). One **screwdriver**. These tools are contained in a canvas roll together with this booklet in the tool box, left side of vehicle.

ACCESSORIES

On request the vehicle can be furnished with the following accessories:

Dualseat of a special long shape suitable for two persons (driver and passenger), provided with a hand grips for passenger.

Rear passenger saddle can be secured on the frame instead of the luggage rack, the central spring can be adjusted to the passengers weight. In place of it can be supplied: a foam rubber pillion seat to be applied on the luggage rack; the latter being issued as standard equipment.

Spare wheel and bracket which can be secured to the frame.

Windscreen: extremity easy to be secured on the handlebars.

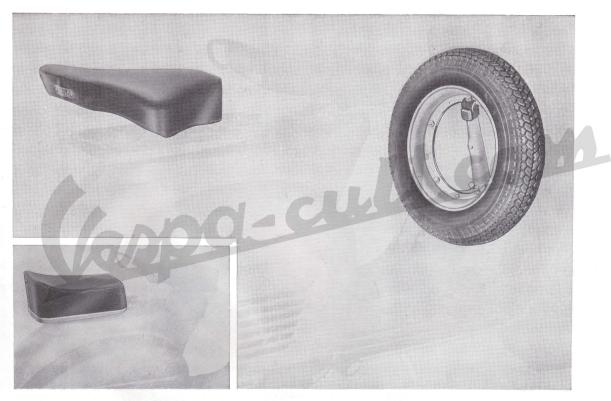
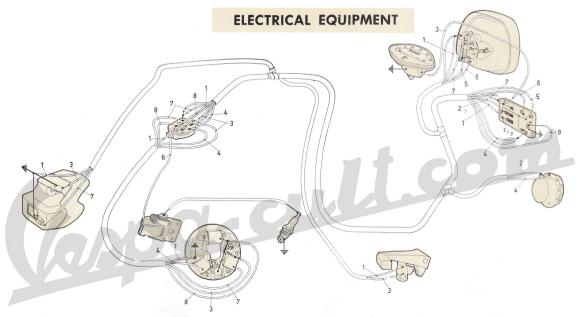


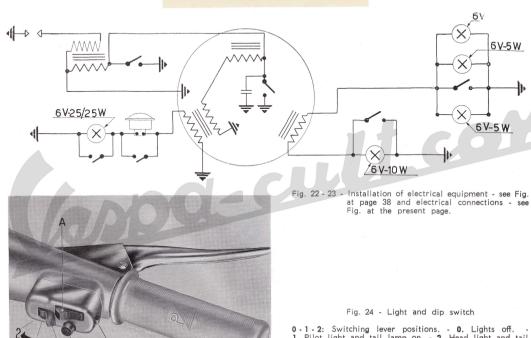
Fig. 21 - Application of accessories (passenger saddle, pillion seat, spare wheel).



1. Black - 2. White - 3. Green - 4. Brown - 5. Red - 6. Blue - 7. Yellow - 8. Violet.

The electrical equipment is fed by alternating current, nominal voltage 6V. This equipment consists of the following lighting and signalling devices: The headlamp, trapezoidal shaped, has a 6 V - 25/25 W bulb (main and dipped beam); front pilot light and light for registration plate 6V - 5W; Speedometer light 6V - 0.6W; Stop light 6V - 10W; Horn 6V a. c.. The flywheel is provided with 6 poles.

ELECTRICAL EQUIPMENT



0-1-2: Switching lever positions. - 0. Lights off. - 1. Pilot light and tail lamp on. - 2. Head light and tail lamp on - A: Main and dipped beam switch - B: Horn button - M: Engine cut - out.

6V-5W

IDENTIFICATION DATA

They consist of a prefix VLB 1 for Vespa « 150 Sprint » and VNL 2 for Vespa « 125 Sprint » and progressive number.

The chassis prefix and serial number, stamped on the frame and engine, identify the vehicle as prescribed by law, are always carried out on the documents pertaining to the vehicle: these numbers should be quoted when ordering spare parts.

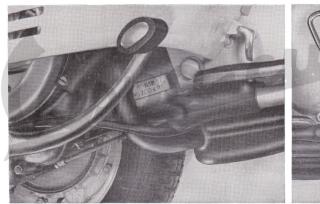




Fig. 25 - Serial number stamped on frame and on engine

SPECIFIC CHARACTERISTICS AND PERFORMANCE

Vespa «150 Sprint »: PERFORMANCE AND SPECIFICATIONS

| Consumption (according to CUNA Stan- |
|---|
| dards): 2.1 lt/100 Km. (107.4 mls/U.S. |
| gal.; 129.2 mls/imp. gals.) approx., ga- |
| soline (petrol) - oil mixture i. e. 2% oil. |
| |
| Max. speed (CUNA Standards) 94 Km/h |
| (58.4 mph), approx. |
| Carrying capacity 2 persons |
| and 10 Kg. (22 lbs.) of luggage. |
| Range, approx 370 Km (230 mls) |
| Max fuel capacity: 7.7 lt. (2.03 U.S. galls |
| or 1.7 imp. galls) (incl. 1.4 lt 0.37 U.S. |
| galls or 0.3 imp. galls of reserve). |
| |
| Wheel base 1200 mm (47."2) |
| Handlebars width 670 mm (26."3) |
| Total length 1770 mm (69."6) |
| 1045 mans / 41" 0) |
| Max height 1045 mm (41".0) |
| Min. ground clearance 220 mm (8".7) |
| |

ENGINE: single horizontal cylinder, two stroke rotary distribution: ie, carburated mixture is regulated by the crankshaft rotation.

Bore mm. 57 (2".24) - Stroke mm. 57 (2".24) - Cylinder displacement 145.45 cc. Compression ratio 7.5:1.

H. T. external coil ignition.

Spark advance: 22° ± 1° before T.D.C.

Sparking plug types: Marelli CW 225 N - T; AC 43 F; Champion L 86; Bosch W 225 T 1; K.L.G. F 70 or F 75.

Transmission ratio engine to driving wheels:

| Botte | om (| gear | | | 1:14.46 | |
|-------|------|------|--|--|----------|--|
| 2nd | gea | r. | | | 1:10.28 | |
| 3rd | gear | | | | 1: 7.31 | |
| 4th | dear | . , | | | 1 . 5 36 | |

Vespa «125 Sprint»: PERFORMANCE AND SPECIFICATIONS

| Consumption (accord to CUNA Standard): 2.1 lt/100 Km. (112.6 mls/U.S. gal.; 135.3 mls/imp. gal.), approx., gasoline (petrol) - oil mixture i. e. 2% oil. | | | | | | | |
|--|--|--|--|--|--|--|--|
| Max. speed (CUNA Standards) 88 Km/h 53.5 mph.), approx. | | | | | | | |
| Carrying capacity 2 persons and 10 Kg. (22 lbs) of luggage. | | | | | | | |
| Range, approx 370 Km (229,9 mls) | | | | | | | |
| Max fuel capacity: 7,7 lt. (2.0 U.S. galls or 1.7 imp. galls (incl. 1.4 lt 0.37 U.S. galls or 0.31 imp. galls - of reserve). | | | | | | | |
| Wheel base 1200 mm (47".24) | | | | | | | |
| Handlebars width 670 mm (26".38) | | | | | | | |
| Total length 1770 mm (69".6) | | | | | | | |
| Max height 1045 mm (41".00) | | | | | | | |
| Min. ground clearance 220 mm (8".7) | | | | | | | |
| Turning radius 1400 mm (55".00) | | | | | | | |
| Total dry weight, approx. 89 Kg. (195 lbs.) | | | | | | | |

ENGINE: two stroke rotary distribution: i. e., carburated mixture is regulated by the crankshaft rotation.

Displacement 123.4 cc. - 7.53 cu. in. Bore 52.5 mm - 2".07 Stroke 57 mm - 2".24. Compression ratio 1:7.8.

H. T. flywheel magneto external coil ignition.

Spark advance: $21^{\circ} \pm 1^{\circ}$ before T. D. C.

Sparking plug: Bosch W 225 T1; Champion L 86; AC 43 F; Marelli CW 225 N-T; KLG F 70 or 75.

Transmission ratio engine to driving wheels:

| Bottor | n ge | ear | | | 1 | :] | 4.46 |
|--------|------|-----|--|----|---|-----|------|
| 2nd g | gear | | | | 1 | :1 | 0.28 |
| 3rd g | ear | | | | 1 | : | 7.31 |
| 4th g | ear | | | ٠. | 1 | : | 5.36 |

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S.I.A.T. - Ufficio Pubblicazioni Tecniche

DIS. N. 153184

4.a EDIZIONE/R, 20.000/6905

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