

GILERA WOULD LIKE TO THANK YOU

for choosing one of its products. We have prepared this manual to help you to get the very best from your scooter. Please read it carefully before riding the scooter for the first time. It contains information, tips and precautions for using your scooter. It also describes features, details and devices to assure you that you have made the right choice. We believe that if you follow our suggestions, you will soon get to know your new vehicle and it will serve you well for a long time to come. This booklet forms an integral part of the scooter; should the scooter be sold, it must be transferred to the new owner.

# Runner 50 SP



The instructions given in this manual are intended to provide a clear, simple guide to using your scooter; details are also given of routine maintenance procedures and regular checks that should be carried out on the vehicle at an **Authorised PIAGGIO Dealer or Service Centre**. The booklet also contains instructions for simple repairs. Any operations not specifically described in this manual require the use of special tools and/or particular technical knowledge: to carry out these operations refer to any **authorised PIAGGIO Dealer or Service Centre**.



### **Personal safety**

Failure to completely observe these instructions will result in serious risk of personal injury.



### **Safeguarding the environment**

Sections marked with this symbol indicate the correct use of the vehicle to prevent damaging the environment.



### **Vehicle intactness**

The incomplete or non-observance of these regulations leads to the risk of serious damage to the vehicle and sometimes even the invalidity of the guarantee.

*The signs that you see on this page are very important. They are used to highlight those parts of the booklet that should be read with particular care. As you can see, each sign consists of a different graphic symbol, making it quick and easy to locate the various topics.*



# INDEX

<b>VEHICLE</b> .....	7	Removing the air filter.....	31
Dashboard.....	8	Secondary air system.....	32
Instruments.....	9	Cooling fluid level.....	32
Digital lcd display.....	10	Checking the brake oil level.....	34
Setting the total and trip odometers.....	10	Battery.....	35
Setting the hour/minutes function.....	11	Checking the electrolyte level.....	36
Key switch.....	12	Long periods of inactivity.....	36
Locking the steering wheel.....	12	Fuses.....	38
Releasing the steering wheel.....	12	Front light group.....	39
Switch direction indicators.....	13	Headlight adjustment.....	40
Horn button.....	13	Front direction indicators.....	41
Light switch.....	13	Rear optical unit.....	41
Start-up button.....	14	Rear turn indicators.....	43
Fuel tank.....	14	Rear-view mirrors.....	43
Opening the saddle.....	14	Idle adjustment.....	44
Keys.....	15	Front and rear disc brake.....	45
Identification.....	15	Puncture.....	46
<b>USE</b> .....	17	Periods of inactivity.....	46
Checks.....	18	Cleaning the vehicle.....	46
Refuelling.....	18	<b>TECHNICAL DATA</b> .....	51
Tyre pressure.....	20	Kit equipment.....	55
Running in.....	21	<b>SPARE PARTS AND ACCESSORIES</b> .....	57
Starting up the engine.....	21	Warnings.....	58
Difficult start up.....	22	<b>PROGRAMMED MAINTENANCE</b> .....	59
Stopping the engine.....	23	Scheduled maintenance table.....	60
Catalytic silencer.....	23	Selènia Moto Rider.....	69
Automatic transmission.....	24		
Safe driving.....	24		
Air conveyors.....	26		
<b>MAINTENANCE</b> .....	27		
Hub oil level.....	28		
Tyres.....	29		
Spark plug dismantlement.....	30		



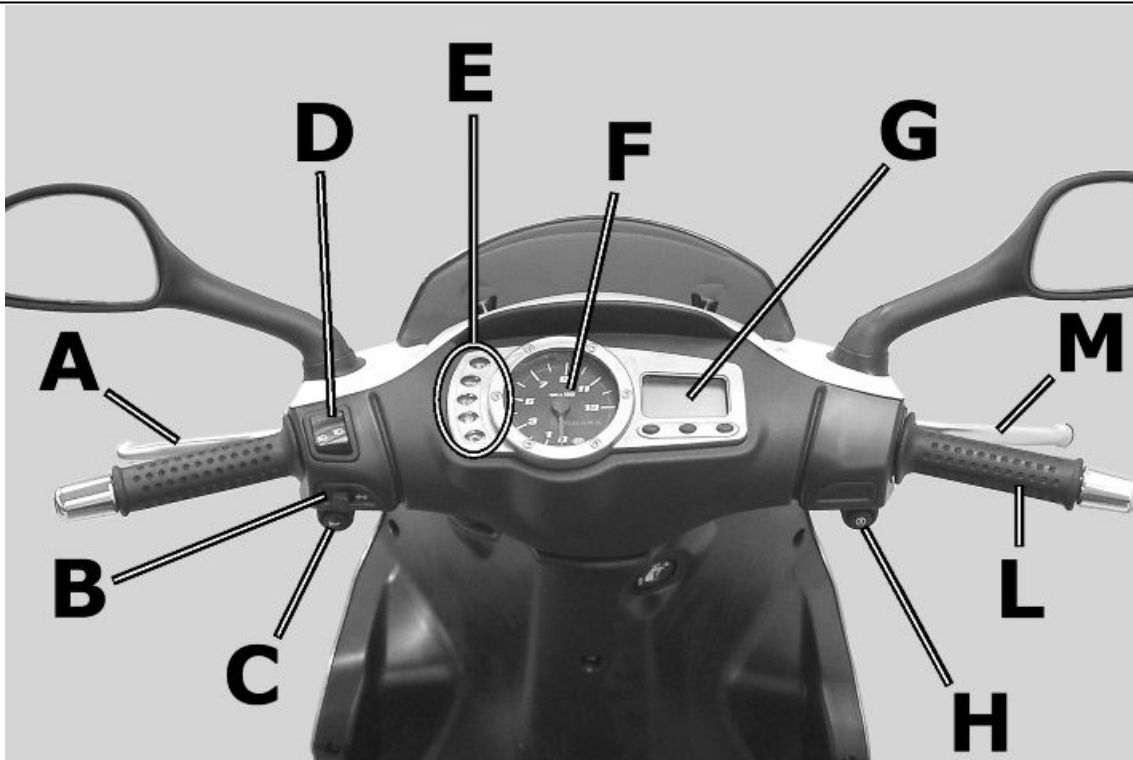
# Runner 50 SP



**GILERA®**



**Chap. 01  
Vehicle**



01\_01

### Dashboard (01\_01)

A = Rear brake control;



B = Turn indicator switch;

C = Horn button;

D = Lights switch;

E = Warning lights;

F = Rpm indicator;

G = Digital instrument panel;

H = Start-up button;

L = Throttle control;

M = Front brake control;

### Instruments (01\_02)

A= High-beam indicator light;

B= Oil reserve mixer indicator light;

C= Direction indicator light;

D= Fuel reserve indicator light;

E= Lights indicator light;

F= Rev counter;

G= "Mode" key;

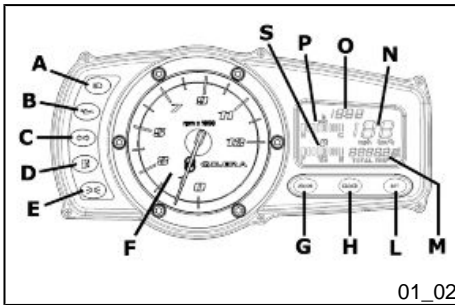
H= "Clock" key;

L= "Set" key;

M= Total/Trip odometer;

N= Speedometer;

O= Clock;





P= Coolant temperature indicator (for liquid-cooled vehicles);

S= Fuel level indicator;

### Digital lcd display (01\_03)

A= Fuel level gauge;

B= Coolant temperature gauge;

C= Digital clock;

D= Speedometer;

E= Odometer;

F= Partial odometer gauge;

G= Total odometer gauge;

### Setting the total and trip odometers

Pushing the "MODE" button for less than a second obtains, respectively, the functions of:

1. **TOTAL** - The word "TOTAL" appears and **Km/h** or **mph**. The value corresponds to the total distance travelled by the vehicle and it is not adjustable.
2. **PARTIAL**- The word "TRIP" appears and **Km/h** or **mph**. The value can be changed by pressing and holding the "SET" button for longer than three seconds.

#### N.B.

**IT IS POSSIBLE TO CHANGE THE DISPLAY FROM KILOMETRES (km/h) TO MILES (mph) BY PRESSING THE "MODE" AND "CLOCK" BUTTONS AT THE SAME TIME AND HOLDING THEM FOR LONGER THAN THREE SECONDS AFTER PUTTING THE KEY SWITCH IN THE «ON» POSITION.**

**ON THE DISPLAY THE WORD "SET" WILL APPEAR FOR ONE SECOND**

**CAUTION**

**IT IS STRONGLY ADVISED NOT TO USE THE FUNCTIONS OF THE DIGITAL DISPLAY PANEL WHILE THE VEHICLE IS MOVING.**

**Setting the hour/minutes function**

To set the clock push and hold the «**CLOCK**» button for longer than three seconds. The figures showing the hours start to flash.

Set the hours using the «**SET**» button.

Push the «**CLOCK**» button again and the minutes numbers start flashing.

Set the minutes using the «**SET**» button.

Press the «**CLOCK**» button again to start the clock moving normally.

During the reset process, not pressing any buttons for 8 seconds ends the process and the display will automatically show the modified time.

**N.B.**

**WHEN THE TIME IS «P.M.» THE NUMBER "0" IS DISPLAYED AFTER THE NUMBER "11". WHEN THE TIME IS «A.M.» THE NUMBER «12» IS DISPLAYED.**

**CAUTION**

**THE «CLOCK» BUTTON IS ENABLED ONLY WHEN THE ENGINE IS OFF AND THE KEY IS TURNED TO «ON».**



## Key switch (01\_04)

**LOCK** = Ignition disabled, extractable key, steering lock engaged, seat cannot be opened.

**OFF** = Ignition disabled, extractable key, steering lock disengaged, seat can be opened.

**ON** = Ignition enabled, antitheft protection disconnected, non-extractable key, seat can be opened.

To open the seat the key switch must be set to either the «**OFF**» or «**ON**» position.

## Locking the steering wheel

Turn the handlebar to the left (as far as it will go), turn the key to position «**LOCK**» and remove the key.

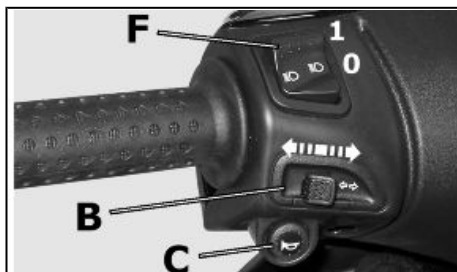
### CAUTION



**DO NOT TURN THE KEY TO «LOCK» OR «OFF» WHILE RIDING.**

## Releasing the steering wheel

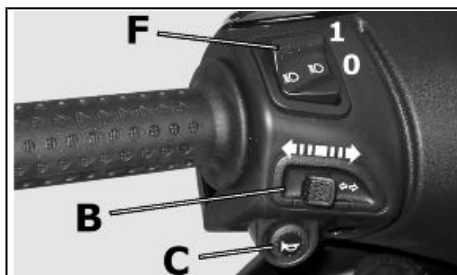
Reinsert the key and turn it to «**OFF**».



01\_05

### Switch direction indicators (01\_05)

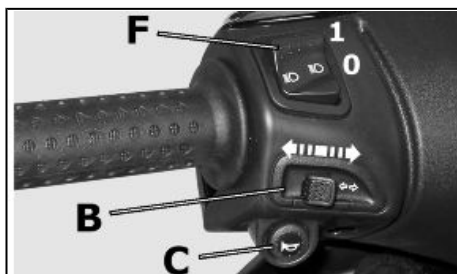
To set the left turn indicators flashing, move lever «**B**» to the left; to set the right turn indicators flashing, move it to the right. The lever automatically returns to the central position and the indicators remain on. To turn the indicators off, press the lever towards the switch.



01\_06

### Horn button (01\_06)

Push the «**C**» button to sound the horn.

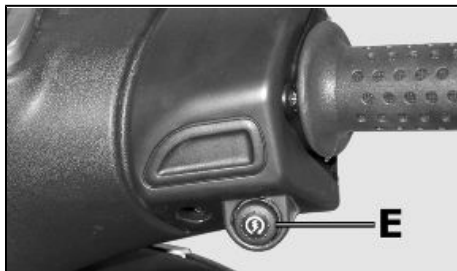


01\_07

### Light switch (01\_07)

0 = Dipped beam and position light

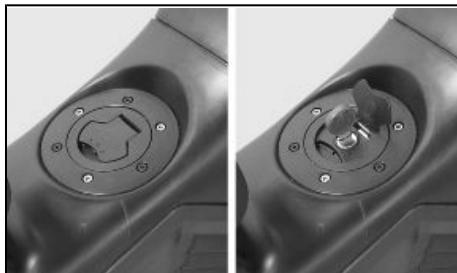
1 = High beam and position light



01\_08

### Start-up button (01\_08)

Press the button «E» to start the engine, after pulling one of the two brake levers



01\_09

### Fuel tank (01\_09)

Tilt up the lock protection cover; Insert the key and turn it counter-clockwise, then pull out the cover.



01\_10

### Opening the saddle (01\_10)

Push the key switch when it is in the «ON» or «OFF» position.

## Keys (01\_11)

The vehicle is provided with one key and one copy, which may be used to start up the vehicle and to open the fuel tank filler cap. The keys come with a plate bearing the identification number needed to request further copies.

### WARNING

**WE RECOMMEND KEEPING THE DUPLICATE KEY TOGETHER WITH ITS CODE IN A SAFE PLACE AND NOT ON THE VEHICLE**



01\_11

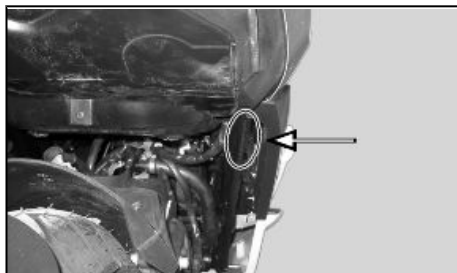
## Identification (01\_12, 01\_13)

The identification numbers consist of a prefix stamped on the chassis and on the engine, followed by a number. They should always be given when requesting spare parts. We recommend that you check that the prefix and chassis number stamped on the vehicle correspond with those in the vehicle documents.

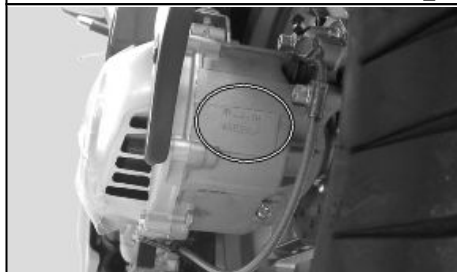
### CAUTION



**BE REMINDED THAT ALTERING IDENTIFICATION REGISTRATION NUMBERS CAN LEAD TO SERIOUS PENAL SANCTIONS (IMPOUNDING OF THE VEHICLE, ETC.).**



01\_12



01\_13





# Runner 50 SP



**GILERA®**

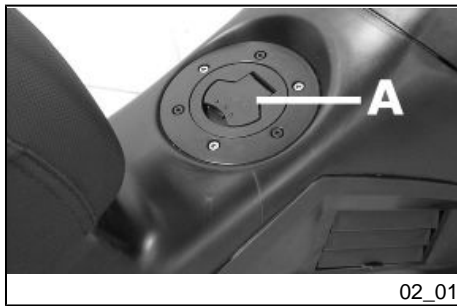


**Chap. 02**  
**Use**

## Checks

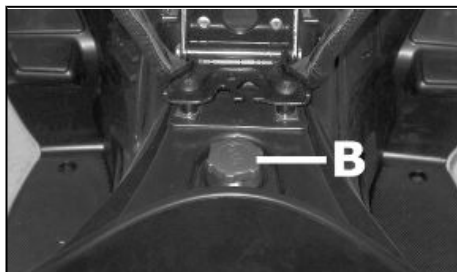
### BEFORE USING YOUR VEHICLE CHECK:

1. Check that the fuel and oil tanks are adequately filled.
2. Rear hub oil level.
3. Tire inflation pressure.
4. Lights and turn indicators.
5. Front and rear brakes.
6. Fluid level in the front and rear brake pump.
7. Coolant

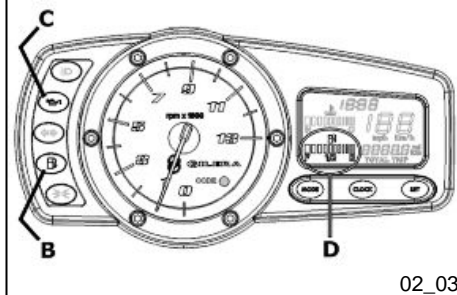


### Refuelling (02\_01, 02\_02, 02\_03)

Fill up the fuel tank «A» with unleaded petrol with min number of octanes of 95. When the fuel level inside the fuel tank reaches a minimum, a low-fuel warning light will light up on the dashboard. Refill the oil tank, «B», with the recommended oil. A low-oil level warning light, on the dashboard, will come on when the oil level reaches a minimum. The top-up should be carried out as soon as the warning light goes on or, by all means, before covering 150 km. The vehicle is fitted with an electronic system which performs a check on the low-fuel and oil warning lights. As the key is turned onto "ON" the low-oil warning light goes on for a few seconds, indicating it is working correctly; a similar check is run by the digital display at the same time. A failed check may indicate a fault within the dashboard. If this is the case, please contact an **Authorised Piaggio Service Station**. In the event of running out of oil, even if this has not damaged the engine, it will still be necessary to contact an **Authorised Piaggio Service Station** to bleed the oil pump. If this is the case, fill the fuel tank with at least 3 litres of petrol-oil mixture with 2% oil. Once this has been exhausted, revert to standard, petrol fill-ups.



02\_02



02\_03

**CAUTION**

**SHUT OFF THE ENGINE BEFORE REFUELLING WITH PETROL. PETROL IS HIGHLY FLAMMABLE. DO NOT LET PETROL SPILL FROM THE TANK OR WHILE REFUELLING**

**CAUTION**

**DO NOT BRING NAKED FLAMES OR CIGARETTES NEAR THE MOUTH OF THE FUEL TANK: FIRE HAZARD. ALSO AVOID INHALING HARMFUL VAPOURS.**

**CAUTION**

**THE USE OF OILS AND SPARK PLUGS OTHER THAN THOSE RECOMMENDED CAN SHORTEN THE LIFE OF THE ENGINE.**



**IF ONLY THE FIRST AND LAST SEGMENTS OF THE FUEL LEVEL GAUGE ARE BLINKING, PLEASE CONTACT AN AUTHORISED PIAGGIO SERVICE STATION SO THAT AN INSPECTION OF THE INDICATOR MAY BE CARRIED OUT.**

**WARNING**

**DO NOT RIDE WITH THE FUEL TANK ALMOST EMPTY, LACK OF FUEL CAN DAMAGE THE CATALYTIC CONVERTER.**

## Recommended products

### AGIP CITY TEC 2T

#### *Mixer oil*

synthetic oil for 2-stroke engines: JASO FC, ISO-L-EGD

## Characteristic

### Gas tank

In plastic, 7 lt. capacity (approximate value) including the ~ 1.7 l. reserves.

### Oil tank mixer

In plastic, 1.6 l. capacity (approximate value) including the ~ 0.6 l. reserves.

### Topping up the oil mixer tank

Topping up the oil mixer tank:  $0,7 \div 1$  lt.

## Tyre pressure

### CAUTION



**TYRE PRESSURE SHOULD BE CHECKED WHEN TYRES ARE COLD. INCORRECT TYRE PRESSURE CAUSES ABNORMAL TYRE WEAR AND MAKES RIDING DANGEROUS.**

**TYRES MUST BE REPLACED WHEN THE TREAD REACHES THE WEAR LIMITS SET FORTH BY LAW.**

## Characteristic

### Front wheel pressure:

1.7 bar

**Rear tyre pressure:**

2 bar

**Rear tyre pressure (rider and luggage)**

2.2 bar

**Running in (02\_04)****WARNING**

**DURING THE FIRST 1000 KM DO NOT RIDE THE VEHICLE OVER 80% OF ITS MAXIMUM SPEED. AVOID TWISTING THE THROTTLE GRIP FULLY OR KEEPING A CONSTANT SPEED ALONG LONG SECTIONS OF ROAD. AFTER THE FIRST 1000 KM, GRADUALLY INCREASE SPEED UNTIL REACHING THE MAXIMUM PERFORMANCE.**

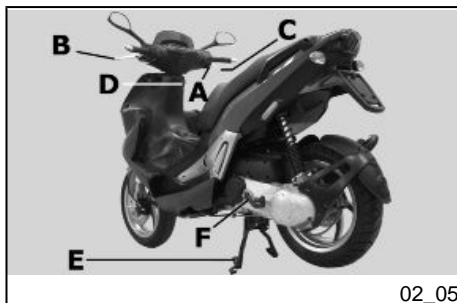
**Starting up the engine (02\_05)**

This vehicle is fitted with a continuously variable transmission (CVT) and automatic clutch. For this reason, the throttle must not be twisted when the engine is being started; to pull away, progressively increase the throttle opening. This vehicle is also equipped with a vacuum fuel tap and an electric choke device which are automatically engaged when the engine is started.

In order to start the engine, pull the right, «**C**», or left hand-side brake lever, «**B**», while pressing the engine starter button, «**A**», as this will disengage the starter safety switch.

Proceed as follows:

- 1:** Rest the vehicle on its centre-stand, «**E**», ensuring the rear wheel is not touching the ground.
- 2:** Maintain the throttle twist-grip in the idle position.



3: Insert the key into the ignition key-switch, «D», and turn it onto the «ON» position.

4: Press the start button, «A», whilst pulling either the rear, «B», or front, «C», brake lever.

#### CAUTION

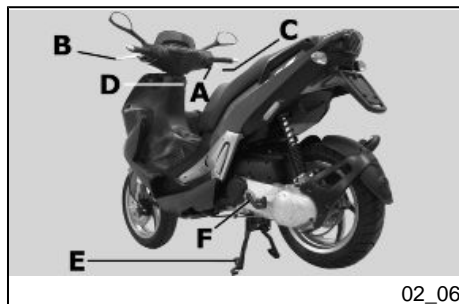


**DO NOT CARRY OUT THESE OPERATIONS IN CLOSED AREAS SINCE EXHAUST GASES ARE TOXIC.**

#### CAUTION



**DUE TO THE HIGH TEMPERATURES THE CATALYTIC CONVERTER CAN REACH, ALWAYS TAKE CARE, WHEN PARKING THE SCOOTER, THAT THE EXHAUST DOES NOT COME INTO CONTACT WITH FLAMMABLE MATERIALS, TO AVOID SERIOUS BURNS.**



02\_06

### Difficult start up (02\_06)

In the event of difficulties, it is possible to proceed as follows:

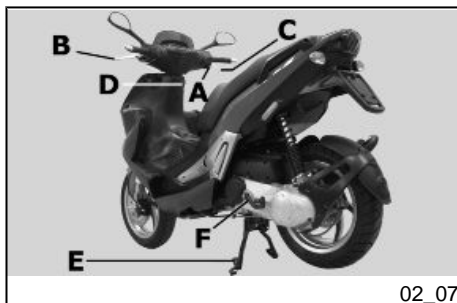
**1. Wet engine.** With the vehicle on its centre stand and its rear wheel lifted off the ground, give full throttle and repeatedly press the start button for approx. 5 seconds with 5 seconds pauses between each attempt. If the engine does not start after a few attempts, let it rest for a few minutes and try again following the same procedure just described. In any case do not keep the start button continuously pressed down for more than 20" when trying to start up the engine.

**2. Weak battery or inefficient starter motor.** Rest the vehicle on its centre stand, «E», and ensure the rear wheel is lifted off the ground; turn the key-switch, «D», onto «ON» and operate the kick-starter, «F».

**3. Out of fuel. After refilling the fuel tank**, start the vehicle using the start button, «A», with the throttle at idle. If the vehicle still fails to start, please contact your nearest **Piaggio - Gilera Authorised Service Centre**.

### Stopping the engine (02\_07)

Stop acceleration, then turn the key switch "D" to "OFF " to turn off the engine (extractable key).



### Catalytic silencer

#### CAUTION



**TAMPERING WITH THE CATALYTIC MUFFLER MAY CAUSE SEVERE DAMAGE TO THE ENGINE**

#### CAUTION



**WHEN PARKING THE VEHICLE, DUE TO THE HIGH TEMPERATURES THE CATALYTIC CONVERTER CAN REACH, ALWAYS BE CAREFUL THAT THE MUFFLER DOES NOT COME INTO CONTACT WITH FLAMMABLE MATERIALS, TO AVOID SERIOUS BURNS.**

**CAUTION**

**DO NOT SWITCH OFF THE ENGINE WHILE THE VEHICLE IS MOVING. UNBURNED FUEL COULD ENTER THE CATALYTIC CONVERTER AND BURN, CAUSING IT TO OVERHEAT AND POSSIBLY DESTROYING IT.**

**Automatic transmission**

To ensure simple, pleasurable riding, the vehicle is equipped with automatic transmission with regulator and centrifugal clutch. The system is designed to give the best possible performance in terms of both acceleration and consumption, on level ground and uphill, thanks to the adjustments made to engine speed and transmitted torque. If you have to stop on an uphill slope (traffic lights, traffic jam, etc.) only use the brake to keep the vehicle still, leaving the motor running at idling speed. Using the motor to keep the vehicle still can cause the clutch to overheat. This problem is due to the friction of the clutch parts on the clutch bell. It is therefore recommended to avoid conditions of prolonged clutch slippage leading to clutch overheating (for example, as well as the situation described above, riding uphill fully laden on steep slopes or starting off on slopes greater than 25%, etc.):

1. Do not continue riding in such conditions.
2. Let the clutch cool down with the motor at idling speed for a few minutes.

**Safe driving****WARNING**

**SOME SIMPLE TIPS ARE PROVIDED BELOW THAT WILL ENABLE YOU TO USE YOUR SCOOTER ON A DAILY BASIS IN GREATER SAFETY AND WITH MORE PEACE OF MIND.**



&lt;

Your ability and your knowledge of the vehicle form the basis of safe riding. We recommend trying out the vehicle in traffic-free zones to get to know your vehicle completely.

### **ALWAYS DRIVE WITHIN YOUR LIMITS**

1. Before riding off, remember to put on your helmet and fasten it correctly.
2. Reduce speed and ride cautiously on uneven roads.
3. Remember that after riding on a long stretch of wet road without using the brakes, the braking effect is initially lower. Given these conditions, it is a good idea to operate the brakes from time to time.
4. Do not brake hard on a wet surface, on dirt tracks or on any slippery road surface.
5. If you have to brake, use both brakes in order to divide the braking action between both wheels.
6. Avoid starting off by mounting the scooter while it is still resting on its stand. In any case, the rear wheel should not be turning when it comes into contact with the ground, in order to avoid abrupt departures.
7. If the vehicle is used on roads covered with sand, mud, snow mixed with salt, etc., clean the brake disc frequently with mild detergent in order to prevent abrasive substances from building up within the holes, which can result in early wear of the brake pads.
8. Any elaboration that modifies the vehicle's performances, such as tampering with original structural parts is strictly forbidden by law, and renders the vehicle not conforming to the approved type and therefore dangerous to ride.

**CAUTION**

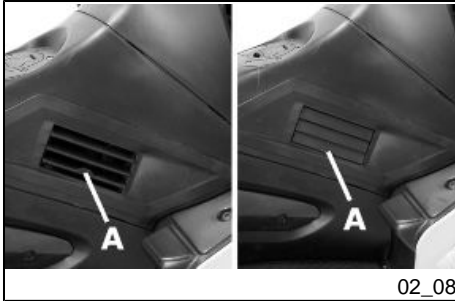


**DO NOT FORGET THAT DRIVING IN A STATE OF DRUNKENNESS, OR WHEN UNDER THE EFFECT OF DRUGS OR CERTAIN MEDICINES, CAN BE EXTREMELY DANGEROUS FOR ONESELF AND FOR OTHERS.**

**CAUTION**



**ANY CHANGES TO THE VEHICLE PERFORMANCE AS WELL AS ALTERATIONS TO ORIGINAL STRUCTURAL PARTS IS STRICTLY FORBIDDEN BY LAW, AND RENDERS THE VEHICLE NO LONGER CONFORMING TO THE APPROVED TYPE AND DANGEROUS FOR RIDING.**



**Air conveyors (02\_08)**

The vehicle is equipped with 2 air vents designed to draw hot air coming from the radiator to the rider, to make riding in winter or in low-temperature conditions more comfortable.

To open or close the air vents use the control "A" located on one of the wings.

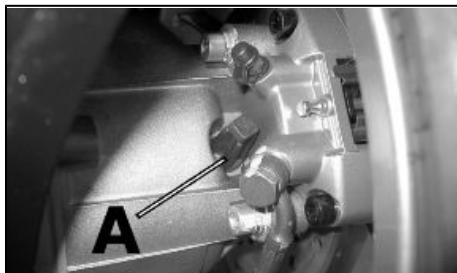
# Runner 50 SP



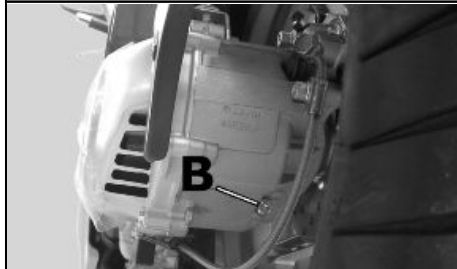
**GILERA®**



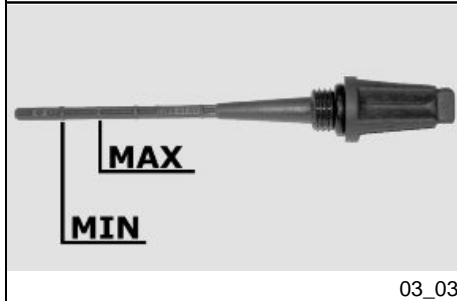
**Chap. 03  
Maintenance**



03\_01



03\_02



03\_03

## Hub oil level (03\_01, 03\_02, 03\_03)

To check the hub oil level, proceed as follows:

1. Rest the vehicle on its centre-stand and on flat ground;
2. Loosen the oil dipstick «A», dry it with a clean cloth and reinsert it, **screwing it in completely**;
3. Remove the dipstick again and check the oil level reaches **the 2nd notch from the bottom**;
4. Refit the oil dipstick and tighten it.

The screw «B» is the drainage stopper truncated oil.

### CAUTION



**USING THE ENGINE WITH INSUFFICIENT LUBRICATION OR WITH THE WRONG LUBRICANTS MAY INCREASE WEAR AND TEAR ON THE MOVING PARTS AND MAY CAUSE SERIOUS DAMAGE.**

### CAUTION



**USED OILS CONTAIN SUBSTANCES HARMFUL TO THE ENVIRONMENT. FOR OIL REPLACEMENT, CONTACT AN AUTHORISED SERVICE CENTRE, WHICH IS EQUIPPED TO DISPOSE OF USED OILS IN AN ENVIRONMENTALLY FRIENDLY AND LEGAL WAY.**

### N.B.

**THE NOTCHES ON THE HUB OIL LEVEL DIPSTICK, EXCEPT THOSE INDICATING THE MAXIMUM AND MINIMUM LEVELS, REFER TO OTHER MODELS BY THE MANUFACTURER, AND HAVE NO SPECIFIC FUNCTION FOR THIS MODEL.**

## Recommended products

**AGIP ROTRA 80W-90**

*Rear hub oil*

SAE 80W/90 Oil that exceeds the requirements of API GL3 specifications

### **Characteristic**

#### **Rear hub oil**

Quantity: approx. 75 cm<sup>3</sup>

### **Tyres (03\_04)**

#### **CAUTION**



**TYRE PRESSURE SHOULD BE CHECKED WHEN TYRES ARE COLD. INCORRECT TYRE PRESSURE CAUSES ABNORMAL TYRE WEAR AND MAKES RIDING DANGEROUS.**

**TYRES MUST BE REPLACED WHEN THE TREAD REACHES THE WEAR LIMITS SET FORTH BY LAW.**

### **Characteristic**

#### **Front wheel pressure:**

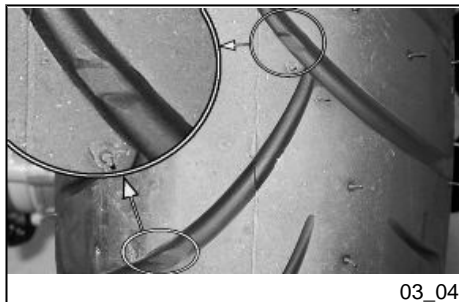
1.7 bar

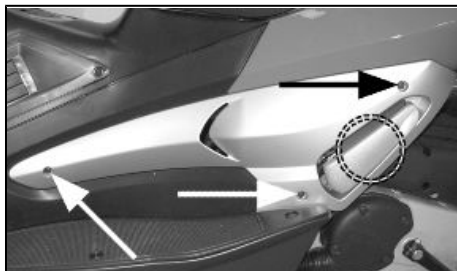
#### **Rear tyre pressure:**

2 bar

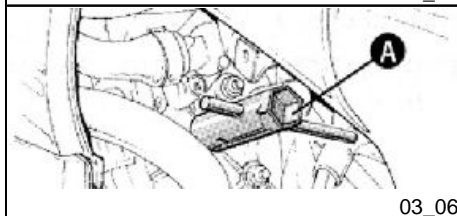
#### **Rear tyre pressure (rider and luggage)**

2.2 bar





03\_05



03\_06

## Spark plug dismantlement (03\_05, 03\_06)

Remove one of the two foot-rest side fairings by loosening the four fixing screws underneath the passenger's foot peg.

Detach the spark plug screened cap and remove the spark plug using the box-spanner provided.

Upon refitting, screw the spark plug back in by hand, with the correct inclination; use the box-spanner for tightening only. Refit the cap with care.

Upon refitting, pay attention to insert the foot peg through the hole in the fairing, then tighten the four screws by hand.

### CAUTION



**FOLLOW THESE PROCEDURES VERY CAREFULLY TO AVOID ANY SEVERE DAMAGE THAT MAY BE CAUSED BY THE VERY POWERFUL IGNITION SYSTEM.**

### CAUTION



**THE SPARK PLUG MUST BE REMOVED WHEN THE ENGINE IS COLD.**

**USING IGNITION ELECTRONIC CENTRAL UNITS OR SPARK PLUGS OTHER THAN THE TYPES PRESCRIBED (SEE «TECHNICAL DATA» SECTION) CAN CAUSE SERIOUS DAMAGE TO THE ENGINE.**

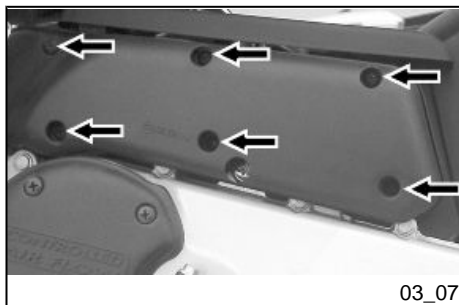
### Characteristic

#### Spark plug

CHAMPION RN1C

#### Electrode distance

0,45 ÷ 055 mm



## Removing the air filter (03\_07)

Proceed as follows:

- Loosen the 6 fixing screws and remove the air-box cover;
- Extract the filtering element and wash it in soap and water, dry it with a clean cloth and small jets of compressed air, and soak it in a 50:50 mixture of petrol and recommended oil;
- Squeeze it with your hands without creasing, let it drip and refit it.

### CAUTION



**IF THE VEHICLE IS USED ON DUSTY ROADS IT IS NECESSARY TO CARRY OUT MAINTENANCE CONTROLS OF THE AIR FILTER TO AVOID DAMAGING THE ENGINE.**

### CAUTION



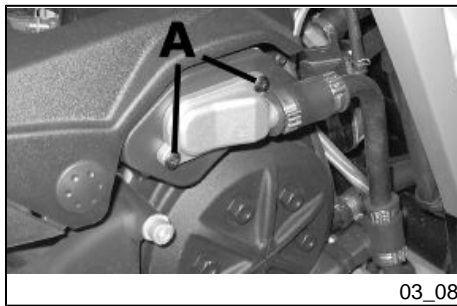
**IN ORDER NOT TO DAMAGE THE VEHICLE PLASTIC COVERS CONTACT AN AUTHORISED SERVICE CENTRE TO HAVE THE AIR FILTER CLEANED.**

## Recommended products

### AGIP FILTER OIL

*Oil for air filter sponge*

Mineral oil with specific additives for increased adhesiveness



### Secondary air system (03\_08)

Remove the two screws "A" from the SAS aluminum cover. Remove the metal tube from its rubber seat on the cover without removing it from the cover/sleeve. Take off the plate and plastic cover, extract the filter and wash it with soap and water. Dry it with compressed air before remounting it. Be careful to correctly position the plate in its seat on the two plastic and aluminum covers. Replace the o-ring in the specific seat on the cover each time the box is disassembled.

#### WARNING



**CONTACT AN AUTHORIZED PIAGGIO-GILERA SERVICE CENTER FOR THIS OPERATION.**



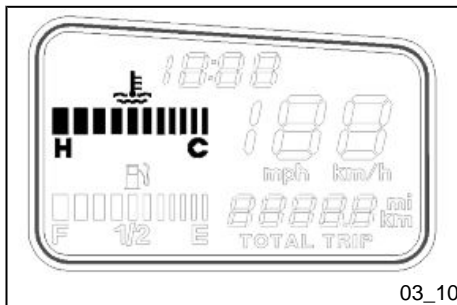
### Cooling fluid level (03\_09, 03\_10)

The engine cooling system is of the liquid type; the cooling circuit contains 0.50 litres of coolant consisting of a 50% mixture of demineralised water and anti-icing solution containing glycol-ethylene and corrosion inhibitors. The recommended coolant is distributed pre-mixed, ready for use. The system is fitted with temperature indicator for the coolant. In order to guarantee good engine performances, in normal conditions, the indicator must not go beyond the 7th/8th segment shown on the digital dashboard. As the temperature indicator reaches the 10th bar, the display will start blinking; if this is the case, shut down the engine immediately, let it cool down and then check the coolant level. If this is within the limits, contact an **Authorised Piaggio Service Station** so that the cause of the fault may be found. The coolant level check must be carried out, with the engine cold, after the first 1,000 Km and every 5,000 Km thereafter. Please proceed as follows:

- a) Rest the vehicle on its centre stand and on a horizontal surface.
- b) Remove the expansion tank cap «A» by turning it anticlockwise.

The coolant level may be checked through the inspection hole located on the L.H.S. of the leg-shield. If the coolant level is found to be close to the Min mark, top it up with the engine cold. Frequent top-ups, or a dry expansion tank, are most likely due to a leakage in the circuit. If this is the case, contact an **Authorised Piaggio Service Station** so that a thorough inspection of the circuit may be carried out. The coolant must





be replaced every 2 years. Contact an **Authorised Piaggio Service Station**, as this operation must be performed by trained technicians.

#### WARNING



**IN ORDER TO AVOID BURNS, DO NOT UNSCREW THE EXPANSION TANK CAP WHILE THE ENGINE IS STILL HOT.**

#### CAUTION



**IN ORDER TO AVOID HARMFUL FLUID LEAKS WHILE DRIVING, IT IS IMPORTANT TO MAKE SURE THAT THE LEVEL NEVER EXCEEDS THE MAXIMUM VALUE.**

#### CAUTION



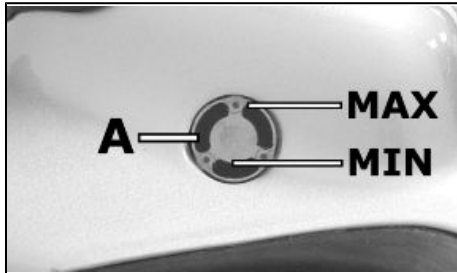
**IF THE FIRST AND THE LAST SEGMENTS OF THE COOLANT LEVEL INDICATOR FLASH, CONTACT AN AUTHORISED PIAGGIO SERVICE CENTRE TO CHECK THE INDICATOR.**

**IF THE FIRST AND THE LAST SEGMENTS OF THE COOLANT LEVEL TEMPERATURE INDICATOR FLASH WHEN RIDING IN EXTREMELY LOW TEMPERATURE CONDITIONS -TEMPERATURE BELOW 15° C - JUST SWITCH OFF THE ENGINE AND WAIT FOR ONE MINUTE; THE FLASHING WILL AUTOMATICALLY STOP. IF THE SEGMENTS KEEP FLASHING, CONTACT AN AUTHORISED PIAGGIO SERVICE CENTRE.**

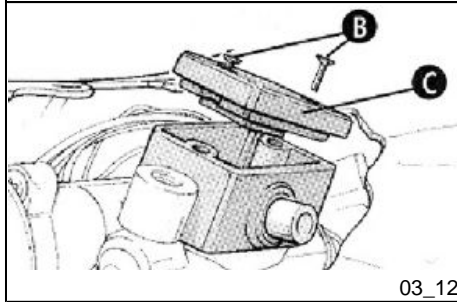
#### Recommended products

**SPECIAL AGIP PERMANENT fluid**

*coolant*



03\_11



03\_12

## Checking the brake oil level (03\_11, 03\_12)

The brake fluid reservoir is equipped with a sight glass «A». The sight glass shows the level in the reservoir.

With sight glass «A» completely covered with fluid, the level is above Min. If the level drops, even slightly, the fluid level is considered Min. If no fluid is visible through the sight glass, the fluid level is below Minimum. The brake fluid level may fall due to wear of the brake pads. In this case take the scooter to an **Authorized Piaggio Service Center** for a general check-up of the brakes. If you need to top up the level follow the steps listed below. Remove the front handlebar cover, loosen the 2 screws, «B», lift the brake reservoir cover, «C», and top up the fluid level as necessary (the level must always remain above the minimum mark).

Check the level with the reservoir in a horizontal position, i.e. with the handlebars straight and the motorscooter perfectly level.

### CAUTION



**TOP UPS SHOULD ONLY BE CARRIED OUT WITH DOT 4 CLASSIFIED BRAKE FLUID.**

### CAUTION



**THE BRAKING CIRCUIT FLUID IS HIGHLY CORROSIVE. THEREFORE, WHEN TOPPING IT UP, AVOID LETTING IT COME INTO CONTACT WITH THE PAINTED PARTS OF THE VEHICLE. THE BRAKING CIRCUIT FLUID IS HYGROSCOPIC, WHICH MEANS THAT IT ABSORBS MOISTURE FROM THE SURROUNDING AIR. IF MOISTURE CONTAINED IN THE BRAKE FLUID EXCEEDS A CERTAIN VALUE, THIS WILL RESULT IN INEFFICIENT BRAKING.**

**WARNING**

**IN NORMAL CLIMATIC CONDITIONS IT IS ADVISABLE TO REPLACE THE ABOVE-MENTIONED FLUID EVERY 2 YEAR. NEVER USE BRAKE FLUID CONTAINED IN CONTAINERS WHICH ARE ALREADY OPEN OR PARTIALLY USED.**

**Battery (03\_13)**

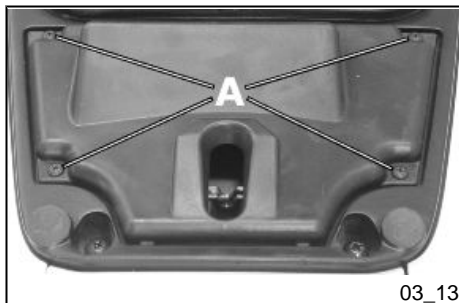
To gain access to the battery, lift the seat and loosen the four fixing screws, "A", on the cover. To remove the battery, detach the positive and negative cables, from the vehicle's electrical system. The battery is the electrical device which requires the most assiduous inspection and diligent maintenance.

**CAUTION**

**IN ORDER TO AVOID DAMAGING THE ELECTRICAL SYSTEM, NEVER DISCONNECT THE WIRING WHILE THE ENGINE IS RUNNING. DO NOT TIP THE SCOOTER TOO MUCH IN ORDER TO AVOID DANGEROUS LEAKAGE OF BATTERY ELECTROLYTE**

**CAUTION**

**ELECTROLYTE CONTAINS SULPHURIC ACID: AVOID CONTACT WITH EYES, SKIN AND CLOTHES. IN THE CASE OF ACCIDENTAL CONTACT, RINSE WITH ABUNDANT OF WATER AND CONSULT A DOCTOR.**



**WARNING**

**SPENT BATTERIES ARE HARMFUL FOR THE ENVIRONMENT. COLLECTION AND DISPOSAL SHOULD BE CARRIED OUT IN COMPLIANCE WITH CURRENT REGULATIONS.**



**PAY ATTENTION WHEN REFITTING THE BREATHER TUBE WHENEVER THIS IS REPLACED INSIDE ITS HOUSING. THIS IS EXTREMELY IMPORTANT AS ANY SPILLAGE OF BATTERY FLUID MAY DAMAGE THE VEHICLE'S SURFACE FINISH.**

**Checking the electrolyte level**

Check regularly that the electrolyte is at maximum level. Fill up **only with distilled water.**

If the battery needs filling too frequently check the electrics: the battery is probably working in overload conditions which will lead to rapid deterioration.

**WARNING**

**DO NOT TIP THE VEHICLE TOO MUCH IN ORDER TO AVOID DANGEROUS LEAKAGE FROM THE BATTERY ELECTROLYTE.**

**Long periods of inactivity**

Battery performance will decrease if the vehicle is not used for a long time. This is the result of the natural phenomenon of battery discharging plus residual absorption by vehicle components with constant power consumption. Poor battery performance may also be due to environmental conditions and the cleanness of the poles. In order to

avoid difficult starts and/or irreversible damage to the battery, follow any of these steps:

- **At least once a month** start the engine and run it slightly above idle speed for 10-15 minutes. This keeps all the engine components, as well as the battery, in good working order.

- Take your vehicle to a garage (as indicated in the "Vehicle not used for extended periods" section) to have the battery removed. Have the battery cleaned, charged fully and stored in a dry, ventilated place. Recharge **at least once every two months**.

#### **N.B.**

**THE BATTERY MUST BE CHARGED WITH A CURRENT EQUAL TO 1/10 OF THE RATED CAPACITY OF THE BATTERY AND FOR NOT LONGER THAN 10 HOURS. CONTACT AN AUTHORISED SERVICE CENTRE TO CARRY OUT THIS OPERATION SAFELY. WHEN REFITTING THE BATTERY MAKE SURE THE LEADS ARE CORRECTLY CONNECTED TO THE TERMINALS.**

#### **WARNING**

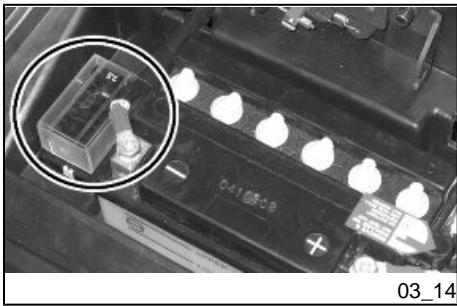


**DO NOT DISCONNECT THE BATTERY CABLES WITH THE ENGINE RUNNING, THIS CAN CAUSE PERMANENT DAMAGE TO THE VEHICLE ELECTRONIC CONTROL UNIT.**

#### **WARNING**



**SPENT BATTERIES ARE HARMFUL FOR THE ENVIRONMENT. COLLECTION AND DISPOSAL SHOULD BE CARRIED OUT IN COMPLIANCE WITH CURRENT REGULATIONS.**



03\_14

## Fuses (03\_14)

The electrical system is protected by a fuse, «**B**», located next to the battery. The following sub-systems are not protected by the fuse: ignition, headlight, sidelights, and taillight. If you experience a second fuse failure after replacing a burst fuse, please contact an **Authorised Piaggio Service Station** to investigate the fault. Do not attempt to close the circuit with any material other than the fuse.

### Electric characteristic

#### Main fuses

7,5 A

### LIGHT BULBS TABLE

Low-beam bulb	<b>Type:</b> H8 <b>Power:</b> 12V - 35W <b>Quantity:</b> 1
High-beam light bulb	<b>Type:</b> H8 <b>Power:</b> 12V - 35W <b>Quantity:</b> 1
Front tail light bulb	<b>Type:</b> All glass <b>Power:</b> 12V - 3W <b>Quantity:</b> 2
Front turn indicator bulb	<b>Type:</b> Spherical <b>Power:</b> 12V - 10W

**Quantity:** 1 RHS + 1 LHS

Rear turn indicator light bulb

**Type:** Spherical

**Power:** 12V - 10W

**Quantity:** 1 RHS + 1 LHS

Stop light bulb

**Type:** SPHERICAL

**Power:** 12V - 10W

**Quantity:** 2

Rear tail light bulb

**Type:** All glass

**Power:** 12V - 3W

**Quantity:** 2

### Front light group (03\_15, 03\_16, 03\_17)

In order to reach the headlamp bulb remove the snap-on Gilera shield by inserting the blade of a small screwdriver in the corresponding lateral notch, paying attention not to scratch the paint. Then loosen the screw underneath and lift up the front shield centre cover.

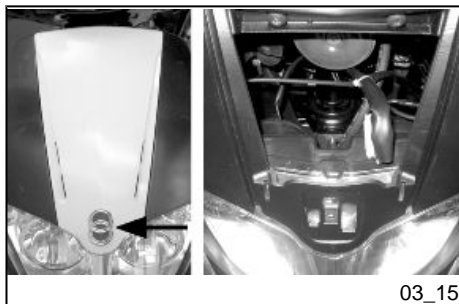
Then follow this procedure:

#### High and low beam bulb:

1. remove the rear cover and take the bulb holder; then turn it up around 30°;
2. disconnect the bulb connector and change the bulb.

#### Tail lights:

1. remove the rubber bulb socket from its housing; then remove the bulb and replace it.





03\_16



03\_17



03\_18

## Headlight adjustment (03\_18, 03\_19)

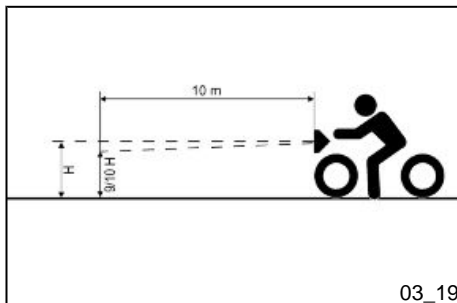
Proceed as follows:

1. Place the vehicle in running order and with the tyres inflated to the prescribed pressure, on a flat surface 10 m away from a white screen situated in a shaded area, making sure that the longitudinal axis of the scooter is perpendicular to the screen;
2. Turn on the headlight and check that the borderline of the projected light beam on the screen is not lower than 9/10 of the distance from the ground to the centre of vehicle headlamp and higher than 7/10;
3. Otherwise, regulate the headlamp by adjusting the screw "A", which can be reached after having removed the Piaggio shield cover.

### N.B.

**THE ABOVE PROCEDURE COMPLIES WITH THE EUROPEAN STANDARDS REGARDING MAXIMUM AND MINIMUM HEIGHT OF LIGHT BEAMS. REFER TO THE STATUTORY REGULATIONS IN FORCE IN EVERY COUNTRY WHERE THE vehicle IS USED.**

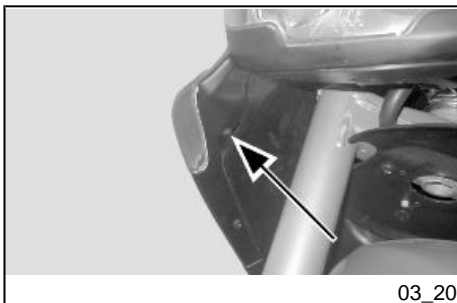




03\_19

### Front direction indicators (03\_20)

In order to replace the front turn indicator bulbs remove the light taking off the retaining screws, then remove the bulb holder form its support; gently turn the bulb around 30° and remove it. Follow the process in reverse order to refit.



03\_20

### Rear optical unit (03\_21, 03\_22, 03\_23, 03\_24)

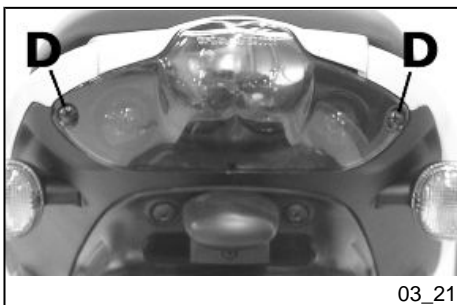
To reach the taillight assembly bulbs remove the two screws "D", then pull out the entire bulb and proceed as follows:

#### Side tail lights:

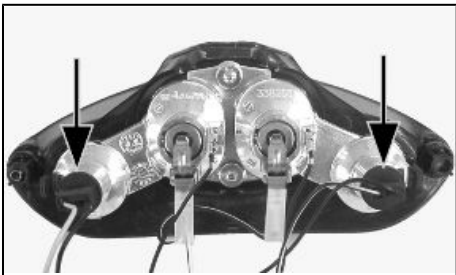
The tail light bulbs and bulb sockets are snapped on their corresponding supports. It is therefore enough to pull bulb socket out of the headlamp in order to fit the new bulb.

#### Centre stop light bulbs:

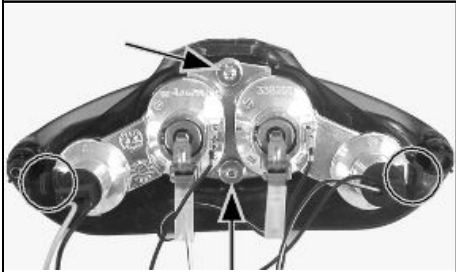
In order to reach the stop light bulbs it is necessary to remove the rear light by unscrewing the two clamping screws that fasten the bulb support and glass together. Then, release the lateral ratchets, hold the burnt bulb and make a 30° turn to remove it and fit the new bulb.



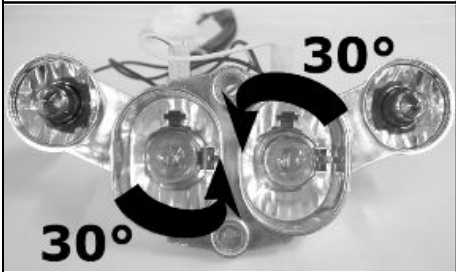
03\_21



03\_22



03\_23



03\_24

**WARNING**

IF MISTING IS NOTICED ON THE INSIDE OF THE HEADLAMP GLASS, THIS DOES NOT INDICATE A FAULT AND IS RELATED TO THE HUMIDITY AND/OR TO LOW TEMPERATURES.

THE PHENOMENON SHOULD QUICKLY DISAPPEAR WHEN THE LIGHT IS SWITCHED ON.



03\_25

### Rear turn indicators (03\_25)

Loosen the screws fitted on the back of the turn indicator and remove the glass.

Hold the bulb gently and make a 30° anticlockwise turn; then remove it from the support and replace it.



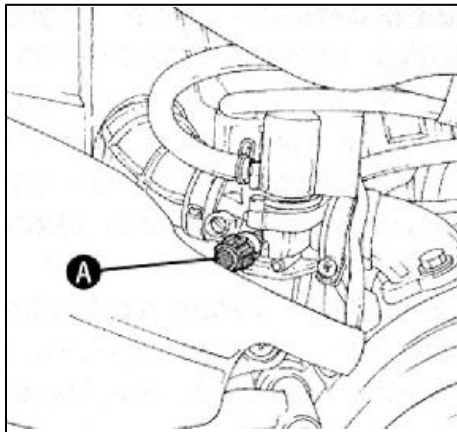
03\_26

### Rear-view mirrors (03\_26)

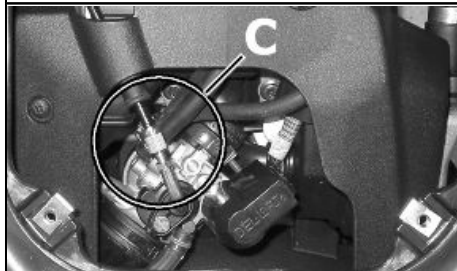
The mirrors can be set to the desired position by adjusting the mirror frame.

The mirrors must be adjusted so that the shafts are perpendicular to the vehicle's direction axis.

To adjust the mirror opening angle loosen the screw fitted at the end of the shaft and fasten it once the desired position is reached.



03\_27



03\_28

## Idle adjustment (03\_27, 03\_28)

Adjust the idle speed by turning the adjuster screw "A" on the carburetor. To do this work from the muffler as shown in the figure or lift the saddle and remove the panel at the bottom of the helmet compartment. Adjust the idle speed with the rear wheel off the ground (vehicle on its kickstand) and with a warm engine: rotate the screw in or out until the engine idles. Adjust the slack from the throttle cable using the adjuster "C" located at the upper part of the carburetor at the end of the operation. Replace the rubber cap on the adjuster when you have finished.

### CAUTION



**DURING IDLE SPEED ADJUSTMENT PAY SPECIAL ATTENTION NOT TO TOUCH THE CATALYTIC MUFFLER TO AVOID BURNS.**



**SHOULD THERE BE PROBLEMS DURING THE IDLE SPEED ADJUSTMENT OPERATION, IT MAY BE NECESSARY TO ADJUST THE LEVEL OF EXHAUST EMISSIONS (CO). THIS OPERATION MUST BE CARRIED OUT AT AN AUTHORISED PIAGGIO-GILERA SERVICE CENTRE.**

### Characteristic

#### Idle speed

about 1800/2000 rpm

### Front and rear disc brake (03\_29, 03\_30)

The brake disc and pad wear is automatically compensated, therefore it has no effect on the functioning of the front and rear brakes. For this reason it is not necessary to adjust the brakes. An excessively elastic brake lever stroke may indicate the presence of air in the braking circuit or an irregular brake operation. In this case, mainly due to the importance of brakes to guarantee safe riding conditions, the vehicle should be taken to an **Authorised Piaggio-Gilera Service Centre** in order to be checked.

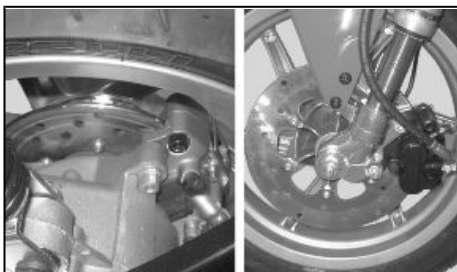
#### CAUTION



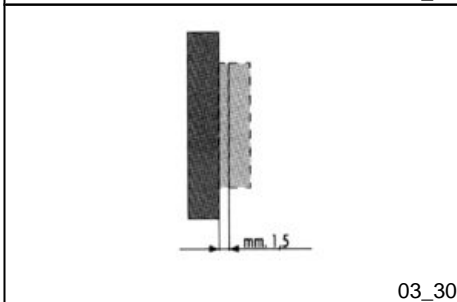
**THE BRAKING ACTION SHOULD BEGIN AFTER ABOUT 1/3 OF THE BRAKE LEVER STROKE.**



**CHECK THE BRAKE PADS REGULARLY (EVERY 5000 KM). IF THE THICKNESS OF ONE OR BOTH PADS IS IN THE REGION OF 1.5 MM, BOTH PADS MUST BE CHANGED. THIS OPERATION MUST BE CARRIED OUT AT AN AUTHORISED PIAGGIO-GILERA SERVICE CENTRE. AFTER REPLACING THE BRAKE PADS DO NOT USE THE VEHICLE BEFORE HAVING USED THE BRAKE LEVER SEVERAL TIMES IN ORDER TO ALLOW THE PADS TO SETTLE AND THE LEVER STROKE TO BE SET TO THE CORRECT POSITION.**



03\_29



03\_30



03\_31

### Puncture (03\_31)

The vehicle is equipped with Tubeless tyres. When there is a puncture, Tubeless tyres -unlike balloon tyres- go flat very slowly. This offers greater riding safety. A tyre that goes flat very slowly can be repaired with an "INFLATE AND REPAIR" spray. Tyres should be later fully repaired at an **Authorised Piaggio-Gilera Service Centre**.



03\_32

### Periods of inactivity (03\_32)

We recommend carrying out the following operations:

1. General cleaning of the vehicle.
2. With the engine off and the piston at the bottom dead centre position, **remove the spark plug**, and pour 1 ÷ 2 cm<sup>3</sup> of recommended oil through its opening. Press the engine start pedal 3 or 4 times letting the engine perform a few revolutions slowly, then replace the spark plug.
3. Drain off all the vehicle fuel; spread antirust grease on the unpainted metal parts; keep the wheels off the ground, by resting the chassis on two wooden wedges.
4. For the battery, follow the procedures described in the «Battery» section.
5. Drain the petrol from the carburettor float chamber through the bleed cap.

### Recommended products

#### AGIP CITY HI TEC 4T

*Oil to lubricate flexible transmissions (brake, throttle control and mixer, odometer)*

Oil for 2-stroke engines: SAE 5W-40, API SL, ACEA A3, JASO MA

### Cleaning the vehicle

In order to soften the dirt and mud deposited on the painted surfaces, use a low pressure jet of water. Once softened, mud and dirt must be removed with a soft sponge

for bodywork soaked in lots of water and "shampoo" (2-4% of car shampoo in water). Then rinse abundantly with water, and dry with a shammy cloth. For the motor exterior use petroleum, a brush and clean rags. Petroleum can damage paintwork. Remember that any polishing with silicon wax must always be preceded by washing.

**CAUTION**

**DETERGENTS POLLUTE WATER. THEREFORE THE VEHICLE SHOULD BE WASHED IN AN AREA EQUIPPED FOR THE COLLECTION AND PURIFICATION OF THE LIQUIDS USED.**

**WARNING**

**NEVER WASH THE VEHICLE UNDER DIRECT SUNLIGHT, ESPECIALLY IN SUMMER WHEN THE BODYWORK IS STILL HOT, AS THE CAR SHAMPOO MAY DRY BEFORE BEING RINSED OFF, AND COULD DAMAGE THE PAINTWORK. NEVER USE RAGS SOAKED IN PETROL OR DIESEL OIL TO CLEAN THE PAINTED OR PLASTIC SURFACES, TO PREVENT THEM LOSING THEIR SHINE AND MECHANICAL CHARACTERISTICS.**

**WARNING**

**WHEN WASHING THE ENGINE WITH A HIGH-PRESSURE WATER JET:**

- **ONLY USE FAN SPRAY JETS.**
- **DO NOT PLACE THE WATER JET NOZZLE CLOSER THAN 60 CM.**
- **DO NOT USE WATER AT TEMPERATURES OVER 40° C.**
- **DO NOT DIRECT THE JETS DIRECTLY TO CARBURETTOR, WIRING, SLOT DIFFUSER ON THE TRANSMISSION COVER AND SCROLL COVER.**



WHEN CLEANING THE DASHBOARD, IT IS ADVISABLE THAT YOU DO NOT USE ALCOHOL-BASED DETERGENTS OR SIMILAR.

#### WARNING

USE AN ANTISTATIC CLOTH TO CLEAN THE DISPLAY AREA ON THE CONTROL PANEL. IF AN ANTISTATIC CLOTH IS NOT USED, BLACK LINES MAY APPEAR ON THE DISPLAY, BUT THESE SHOULD DISAPPEAR QUICKLY AFTER THE ENGINE IS SWITCHED ON AND OFF A FEW TIMES IN NORMAL USE.

### DIFFICULTY STARTING

No fuel in tank	Refuelling
Filters, jets or carburettor dirty or clogged.	Contact an <b>Authorised Service Centre</b> .
Insufficient battery charge	Kick-start. Recharge the battery.

### IRREGULAR IGNITION

Lack of spark at the spark plug. Due to the presence of high voltage, this check must be carried out by skilled personnel.	Check that the electrodes are properly adjusted (0.45÷ 0.55 mm). Make sure that the electrodes are clean (clean them with pure petrol and a metal brush or emery cloth). Check the spark plug insulating material: if there are cracks, replace the spark plug. If the spark plug is in good condition, contact
--	---



an **Authorised Piaggio Service Centre.**

### **LACK OF COMPRESSION**

Spark plug loose. Loose cylinder head, worn piston retaining rings.	Contact an <b>Authorised Service Centre.</b>
---	--

### **HIGH CONSUMPTION AND LOW PERFORMANCE**

Air filter blocked or dirty.	Clean with water and shampoo and impregnate with petrol and specific oil (section «Removing the air filter»)
------------------------------	--

### **INSUFFICIENT BRAKING**

Greasy disc. Worn pads.	Contact an <b>Authorised Piaggio-Gilera Service Centre.</b>
-------------------------	---

Air in the brake assembly.	Contact an <b>Authorised Piaggio-Gilera Service Centre.</b>
----------------------------	---

### **INEFFICIENT SUSPENSION**

Oil leak; worn limit switch bumpers; worn shock absorber attachment points	Contact an <b>Authorised Service Centre</b>
--	---

### **IRREGULAR AUTOMATIC TRANSMISSION**

Deteriorated roller container or belt.	Contact an <b>Authorised Service Centre</b> .
--	---

### **INCREASED EXHAUST NOISE**

Deterioration of the SAS system and/or of the tab	Contact an <b>Authorised Service Centre</b> .
---	---

### **STAND DOES NOT RETURN TO POSITION**

Presence of dirt	Clean and grease
------------------	------------------

### **STARTER LEVER DOES NOT RETURN TO CORRECT POSITION**

Presence of dirt	Clean and grease
------------------	------------------

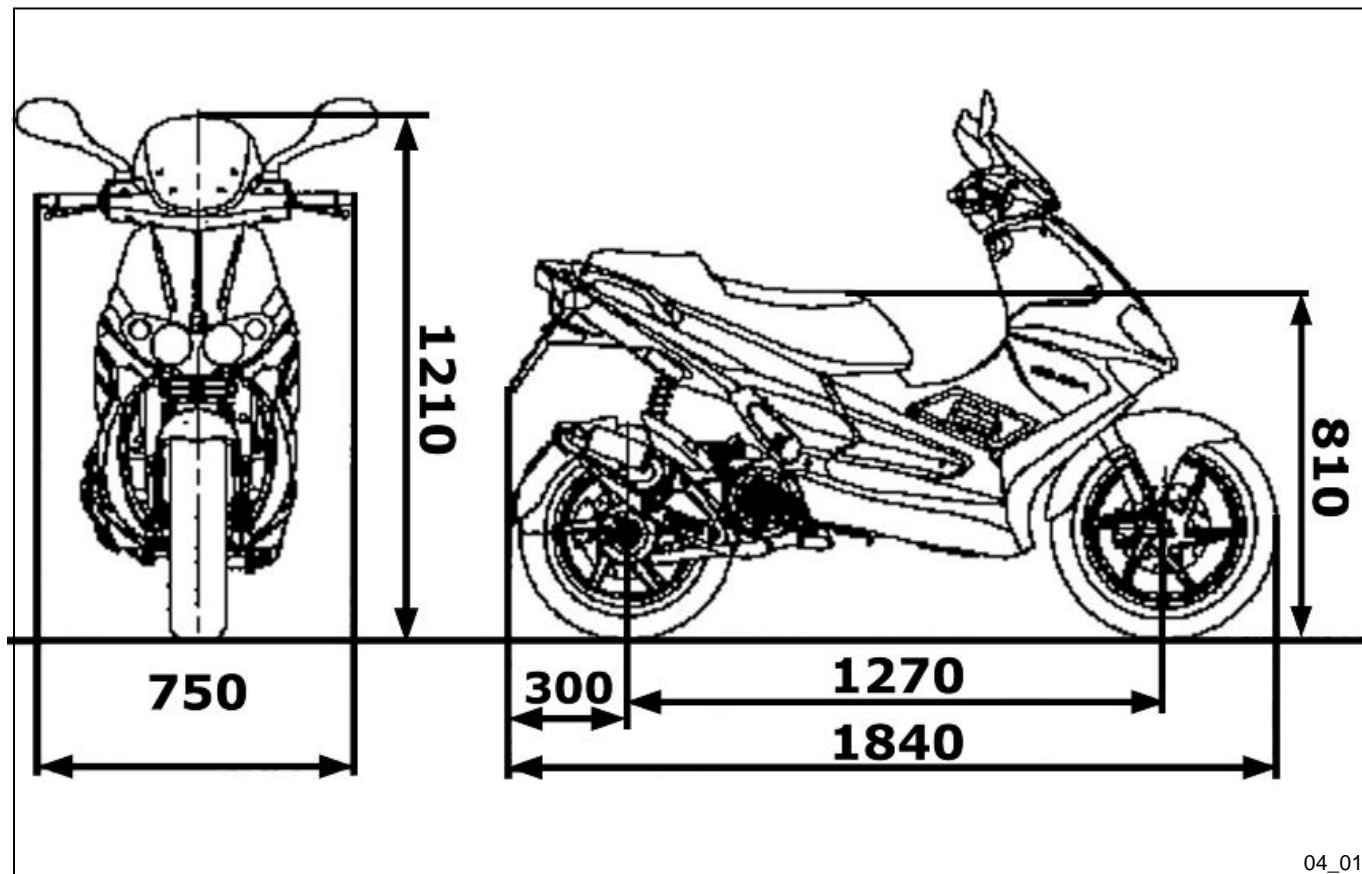
# Runner 50 SP



**GILERA®**



**Chap. 04**  
**Technical data**



## SPECIFICATIONS

Engine	single cylinder; 2-stroke
Bore x stroke	40 X 39.3 mm
Engine capacity	49 cm <sup>3</sup>
Compression ratio	12 : 1 ( $\pm 0,7$ )
Ignition advance (before dead centre.)	16° $\pm$ 1° AT 4000 rpm
Dellorto Carburettor	PHVA 17.5
Recommended spark plug	CHAMPION RN1C
Max. speed	According to current legislation

## TECHNICAL SPECIFICATIONS

Maximum Length	1840 mm
Overall width	750 mm
Saddle height	810 mm
Wheelbase	1270 mm
Fuel system	Gasoline-oil mixture and carburetor, automatic mixing (with variable flow rate according to engine speed and gas valve opening) gasoline pump and vacuum tap.
Intake	By means of a compression valve on the casing

Lubrication	Engine lubrication (piston, cylinder, crankshaft, main bearings) with mixer oil.
Cooling	Forced liquid circulation cooling.
Transmission	With automatic converter with expanding pulleys having torque control, V belt, automatic centrifugal clutch, gear reduction unit and transmission compartment with forced air circulation cooling (only for the liquid-cooled version).
Oil tank mixer	In plastic, 1.6 l. capacity (approximate value) including the ~ 0.6 l. reserves.
Rear hub oil	Quantity: approx. 75 cm <sup>3</sup>
Topping up the oil mixer tank	Topping up the oil mixer tank: 0,7 ÷ 1 lt.
Gas tank	In plastic, 7 lt. capacity (approximate value) including the ~ 1.7 l. reserves.
Front suspension	Upside-down telescopic fork with ø 30mm stanchion and dual-effect damper.
Rear suspension	With coaxial spring and hydraulic shock absorber. Chassis to engine support with swinging arm.
Wheels	Light alloy rims: FRONT 3.00 x 14" REAR 3.50 x 13"

Front tyre	Tubeless 120/70-14"
Rear tyre	Tubeless 140/60 x 13"
Exhaust system	Combined expansion chamber absorption type, with double catalytic converter and <b>SAS</b> plate system.
Electronic ignition	A capacitor discharge microprocessor device, with built-in H.V. coil.
Chassis	Modular double cradle frame made of welded tubular steel with sheet metal reinforcement.
Front brake	Ø 220 mm disc, with dual-piston calliper hydraulically controlled via rhs lever on handlebar.
Rear brake	Ø 175 mm disc, with single-piston calliper hydraulically controlled via lhs lever on handlebar.
Total weight when empty and ready for road	103 kg (95 kg dry)
Maximum load	Driver only.

### Kit equipment

Wrenches: one box-spanner (13 -21 mm); one twin screwdriver. The tools are located under the seat in a specific container.





# Runner 50 SP



**GILERA®**



**Chap. 05  
Spare parts and  
accessories**



## Warnings (05\_01)

### CAUTION



**WE STRONGLY RECOMMEND USING ORIGINAL PIAGGIO-GILERA SPARE PARTS, THE ONLY PARTS THAT GUARANTEE THE SAME QUALITY LEVEL AS THE ORIGINAL PARTS ASSEMBLED ON THE VEHICLE.**

**IT SHOULD BE REMEMBERED THAT USING NON-ORIGINAL SPARE PARTS CAUSES YOUR WARRANTY RIGHTS TO EXPIRE.**

### CAUTION



**PIAGGIO-GILERA MARKETS ITS OWN LINE OF ACCESSORIES, WHICH ARE COVERED BY A MANUFACTURER'S WARRANTY ON THE BASIS OF THEIR USE. IT IS THEREFORE ABSOLUTELY NECESSARY TO CONTACT AN AUTHORISED PIAGGIO-GILERA DEALER OR SERVICE CENTRE TO CHOOSE THEM AND HAVE THEM CORRECTLY ASSEMBLED. THE USE OF NON-ORIGINAL ACCESSORIES MAY AFFECT THE STABILITY AND OPERATION OF YOUR VEHICLE AND REDUCE SAFETY LEVELS WITH POTENTIAL RISKS FOR THE RIDER.**

# Runner 50 SP



**GILERA®**



**Chap. 06  
Programmed  
maintenance**

## Scheduled maintenance table

Adequate maintenance is fundamental to ensuring long-lasting, optimum operation and performance of your vehicle.

To this end, a series of checks and maintenance operations (at the owner's expense) have been suggested, which are included in the summary table on the following page. Any minor faults should be reported without delay to an **Authorised Service Centre or Dealer** without waiting until the next scheduled service to solve it.

All scheduled maintenance services must be carried out at the specified times, even if the stated mileage has not yet been reached. Carrying out scheduled services on time is necessary to ensure your warranty remains valid. For any further information concerning Warranty procedures and "Scheduled Maintenance", please refer to the "Warranty Booklet".

### EVERY 2 YEARS

Brake fluid - change
----------------------

Coolant - change
------------------

### AFTER 1000 KM

Hub oil - change
------------------

Oil mixer/throttle linkage - adjustment
---

Odometer cable - greasing
---------------------------

Steering - adjustment
-----------------------

Brake control levers - greasing
---------------------------------

Brake fluid level - check
---------------------------

Safety locks - check
----------------------

---

Electrical system and battery - check

---

Tyre pressure and wear - check

---

Vehicle and brake test - road test

---

**AT 5000 KM OR 12 MONTHS, 25000 KM, 35000 KM AND  
55000 KM**

---

Hub oil level - check

---

Spark plug/electrode gap - replacement

---

Air filter - clean

---

Oil mixer/throttle linkage - adjustment

---

Coolant level - check

---

Brake control levers - greasing

---

Brake pads - check condition and wear

---

Brake fluid level - check

---

Electrical system and battery - check

---

Tyre pressure and wear - check

---

Vehicle and brake test - road test

---

**AT 10000 KM OR 24 MONTHS AND 50000 KM**

---

Hub oil - change

---

Spark plug/electrode gap - replacement

---

Air filter - clean

---

---

Idling speed (\*) - adjustment

---

Oil mixer/throttle linkage - adjustment

---

Variable speed rollers - replacement

---

Odometer cable - greasing

---

Driving belt - check

---

Coolant level - check

---

Steering - adjustment

---

Brake control levers - greasing

---

Brake pads - check condition and wear

---

Brake fluid level - check

---

Transmission elements - lubrication

---

Safety locks - check

---

Suspensions - check

---

Electrical system and battery - check

---

Headlight - adjustment

---

Tyre pressure and wear - check

---

Vehicle and brake test - road test

---

*(\*) See CO regulation in the «Adjusting the engine idle» section*

### **AT 15000 KM AND 45000 KM**

---

Hub oil level - check

---

Spark plug/electrode gap - replacement

---

Air filter - clean
Oil mixer/throttle linkage - adjustment
Driving belt - replacement
Coolant level - check
Brake control levers - greasing
Brake pads - check condition and wear
Brake fluid level - check
Electrical system and battery - check
Tyre pressure and wear - check
SAS box (sponge) (**) - cleaning
Vehicle and brake test - road test

(\*\*) See the regulations of the "Secondary air system" section

### **AT 20000 KMS AND 40000 KMS**

Hub oil - change
Spark plug/electrode gap - replacement
Air filter - clean
Idling speed (*) - adjustment
Cylinder cooling system - check/cleaning
Oil mixer/throttle linkage - adjustment
Driving belt - check
Variable speed rollers - replacement

Mixer belt - replacement

Coolant level - check

Radiator - external cleaning/ check

Odometer cable - greasing

Steering - adjustment

Brake control levers - greasing

Brake pads - check condition and wear

Brake fluid level - check

Transmission elements - lubrication

Safety locks - check

Suspensions - check

Electrical system and battery - check

Headlight - adjustment

Tyre pressure and wear - check

Vehicle and brake test - road test

*(\*) See CO regulation in the «Adjusting the engine idle» section*

### **AT 30000 KM**

Hub oil - change

Spark plug/electrode gap - replacement

Air filter - clean

Idling speed (\*) - adjustment



Oil mixer/throttle linkage - adjustment

Driving belt - replacement

Variable speed rollers - replacement

Coolant level - check

Odometer cable - greasing

Steering - adjustment

Brake control levers - greasing

Brake pads - check condition and wear

Flexible brake tubes - replacement

Brake fluid level - check

Transmission elements - lubrication

Safety locks - check

Suspensions - check

Electrical system and battery - check

Headlight - adjustment

Tyre pressure and wear - check

SAS box (sponge) (\*\*) - cleaning

Vehicle and brake test - road test

(\*) See CO regulation in the «Adjusting the engine idle» section

(\*\*) See rules in the «Secondary Air System» section

## **AT 60000 KM**

Hub oil - change

Spark plug/electrode gap - replacement

Air filter - clean

Idling speed (\*) - adjustment

Oil mixer/throttle linkage - adjustment

Driving belt - replacement

Variable speed rollers - replacement

Mixer belt - replacement

Coolant level - check

Radiator - external cleaning/ check

Odometer cable - greasing

Steering - adjustment

Brake control levers - greasing

Brake pads - check condition and wear

Flexible brake tubes - replacement

Brake fluid level - check

Transmission elements - lubrication

Safety locks - check

Suspensions - check

Electrical system and battery - check

Headlight - adjustment

---

 Tyre pressure and wear - check
 

---

 SAS box (sponge) (\*\*) - cleaning
 

---

 Vehicle and brake test - road test
 

---

(\*) See CO regulation in the «Adjusting the engine idle» sectionp&gt;

(\*\*) Vedere norme della sezione «Sistema aria secondaria»

### RECOMMENDED PRODUCTS TABLE

Product	Description	Specifications
AGIP ROTRA 80W-90	Rear hub oil	SAE 80W/90 Oil that exceeds the requirements of API GL3 specifications
AGIP CITY HI TEC 4T	Oil to lubricate flexible transmissions (brake, throttle control and mixer, odometer)	Oil for 2-stroke engines: SAE 5W-40, API SL, ACEA A3, JASO MA
AGIP FILTER OIL	Oil for air filter sponge	Mineral oil with specific additives for increased adhesiveness
AGIP CITY TEC 2T	Mixer oil	synthetic oil for 2-stroke engines: JASO FC, ISO-L-EGD
AGIP GP 330	Grease for brake control levers, throttle, stand	White calcium complex soap-based spray grease with NLGI 2; ISO-L-XBCIB2
AGIP GREASE SM 2	Grease for the tone wheel revolving ring	Soap-based lithium grease containing NLGI 2 Molybdenum disulphide; ISO-L-XBCHB2, DIN KF2K-20
AGIP BRAKE 4	Brake fluid	FMVSS DOT 4 Synthetic fluid
MONTBLANC MOLYBDENUM GREASE	Grease for driven pulley shaft adjusting ring and movable driven pulley housing	Grease with Molybdenum disulphide

<b>Product</b>	<b>Description</b>	<b>Specifications</b>
AGIP GREASE PV2	Grease for the steering bearings, pin seats and swinging arm	White anhydrous-calcium based grease to protect roller bearings; temperature range

between -20 C and +120 C; NLGI 2; ISO-L-XBCIB2.

### Selènia Moto Rider (06\_01)

**PIAGGIO-GILERA** rides with **SELENIA MOTO RIDER**

The technology and quality of **FL Selenia** for a range of high performance products.

Thanks to the co-operation between **FL Selenia** and Piaggio Engineering, the **Selenia Moto Rider products** give the Piaggio/Gilera scooters protection and safety in every operating situation.

A broad range of lubricants and functional fluids to satisfy the demands of every motorcyclist, tested on the Piaggio/Gilera engines from the moment they leave the production line and selected to maximise reliability and performance.

The **Selenia Moto Rider** product range is distributed by the Piaggio/Gilera service network and top specialised sales outlets.





# TABLE OF CONTENTS

## **A**

Air filter: 31

## **B**

Battery: 35

Brake: 34, 45

## **D**

Disc brake: 45

Display: 10

## **F**

Fuel: 14

Fuses: 38

## **H**

Headlight: 40

Horn: 13

Hub oil: 28

## **I**

Identification: 15

## **K**

Key switch: 12

Keys: 15

## **L**

Light switch: 13

## **M**

Maintenance: 27, 59, 60

Mirrors: 43

## **S**

Saddle: 14

Scheduled maintenance: 60

Spark plug: 30

Start-up: 14

## **T**

Tank: 14

Technical Data: 51

Transmission: 24

Turn indicators: 43

Tyre pressure: 20

Tyres: 29



The descriptions and illustrations given in this publication are not binding. While the basic specifications as described and illustrated in this manual remain unchanged, PIAGGIO-GILERA reserves the right, at any time and without being required to update this publication beforehand, to make any changes to components, parts or accessories, which it considers necessary to improve the product or which are required for manufacturing or construction reasons.

Not all versions shown in this publication are available in all Countries. The availability of single versions should be checked at the official Piaggio sales network.

"© Copyright 2005 - PIAGGIO & C. S.p.A. Pontedera. All rights reserved. Reproduction of this publication in whole or in part is prohibited."

PIAGGIO & C. S.p.A. - Q.C.S./After sales V.le Rinaldo Piaggio, 23 - 56025 PONTEDERA (Pi) [www.piaggio.com](http://www.piaggio.com)