GILERA WOULD LIKE TO THANK YOU

for choosing one of its products. We have prepared this booklet 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.

DNA

GILERA®

The instructions given in this manual are intended to provide a clear, simple guide to using your scooter; this booklet also details routine maintenance procedures and regular checks that should be carried out on the vehicle at an **authorised 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 Dealer of Service Centres**.

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

DNA

GILERA®

Chap. 01
Vehicle

Dashboard (01_01)

A = Rev counter

B = Low-fuel warning light

C = Turn signal warning light

D = Low-oil warning light

E = Lights switch

F = Starter button

G = High-beam warning light

H = Horn button

I = Turn signal switch

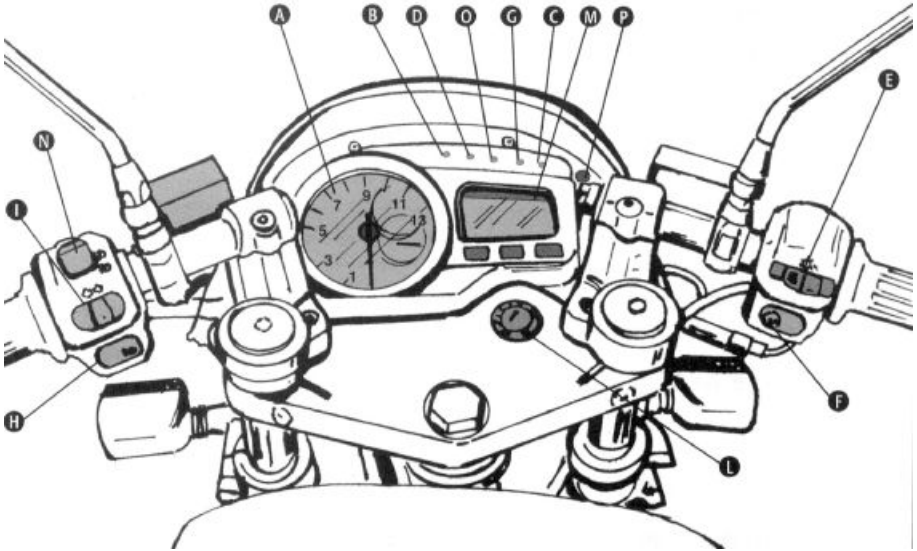
L = Ignition key-switch

M = Digital dashboard

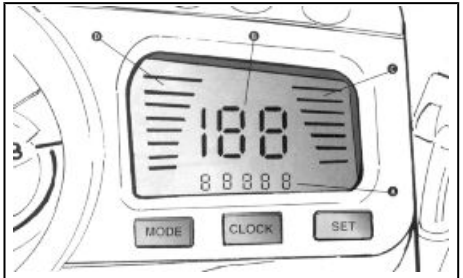
N = Lights setting switch

O = Low-beam/side-lights warning light

P = Section reserved for electronic anti-theft LED (optional)



01_01



01_02

Instruments (01_02)

A = Odometer

B = Speedometer

C = Fuel gauge

D = Coolant temperature gauge

Clock

The time is displayed even when the engine is off (as the clock is powered directly by the vehicle's battery); it is displayed in a 12-hour mode with "**AM**" or "**PM**" subscripts. To adjust the time, proceed as follows: press the "**MODE**" button until the time is displayed, hold down the "**CLOCK**" button for more than 3 seconds; the hour digit will now start blinking, and may be set by pressing the "**SET**" button. To set the minute digits, press the "**CLOCK**" button for less than 1 second and adjust through the "**SET**" button. Pressing the "**CLOCK**" button at this stage will update the time and switch the display back to clock mode.

CAUTION

WE STRONGLY RECOMMEND YOU REFRAIN FROM USING THE LCD FUNCTIONS WHILE RIDING

Digital lcd display

The "**MODE**" button allows you to switch between the trip odometer and the clock. It operates as follows: if held down for less than 1 second, the trip odometer is displayed; when pressed again for less than 1 second, the digital clock is visualised, and pressing the button again for less than 1 second will bring back the total odometer reading. To zero the trip odometer, hold down the "**SET**" button for more than 3 seconds when the trip function is displayed.

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, hold down the «**CLOCK**» button for more than three seconds. The numbers representing the hours will start blinking.

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

By pressing the «**CLOCK**» button again the numbers representing the minutes will start blinking.

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

Press the «**CLOCK**» button again to exit the setting mode.

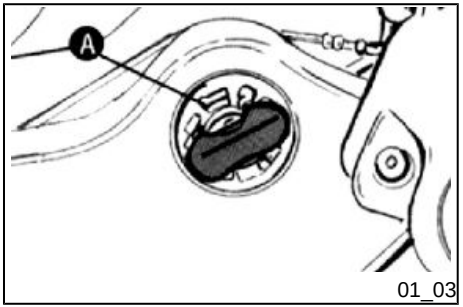
The setting mode is terminated automatically if, during the setting, no button is pressed for a period longer than 8 seconds, and the last set time will be shown on the display.

N.B.

THE TIME SETTING IS IN «P.M.» MODE, WHICH MAY BE IDENTIFIED BY THE NUMBER "0" FOLLOWING "11". IN «A.M.» MODE, THE NUMBER «12» IS DISPLAYED.

CAUTION

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



01_03

Key switch (01_03)

LOCK = Ignition disabled, extractable key, steering lock engaged front glove-box locked.

OFF = Ignition disabled, extractable key, steering lock disengaged, front glove-box unlocked.

ON = Starter position, antitheft device disabled, non-extractable key, glove-box unlocked.

Locking the steering wheel

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

CAUTION

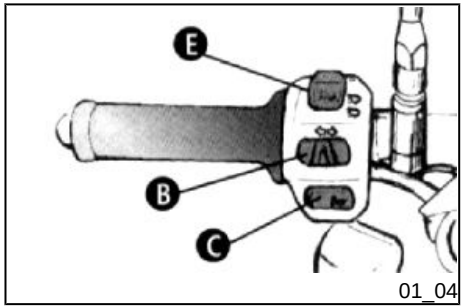
DO NOT TURN THE KEY TO «LOCK» OR «OFF» WHILE RIDING.

Releasing the steering wheel

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

CAUTION

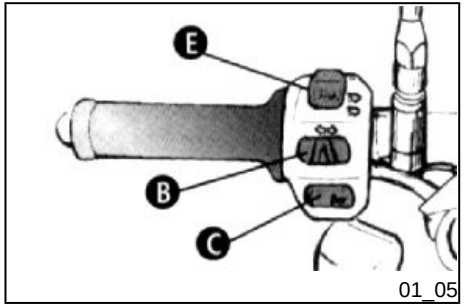
DO NOT TURN THE KEY TO «LOCK» OR «OFF» WHILE RIDING.



01_04

Switch direction indicators (01_04)

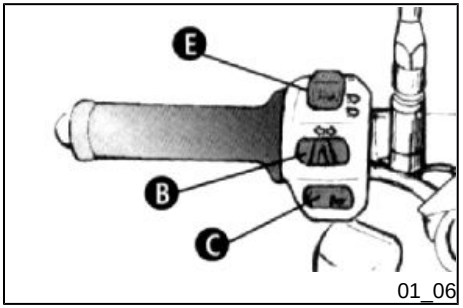
To set the left turn indicators flashing, move lever «**B**» to the left; to set the right turn indicators flashing, move it to the right. The lever automatically returns to the central position and the indicators remain on. To turn the indicators off, press the lever towards the switch.



01_05

Horn button (01_05)

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

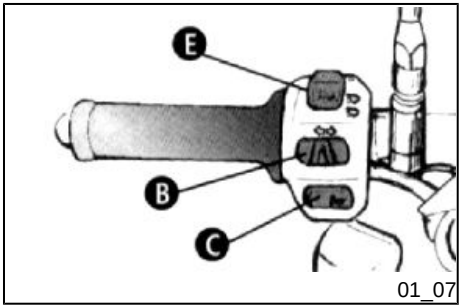


01_06

Light switch (01_06)

0 = Low beam and side light

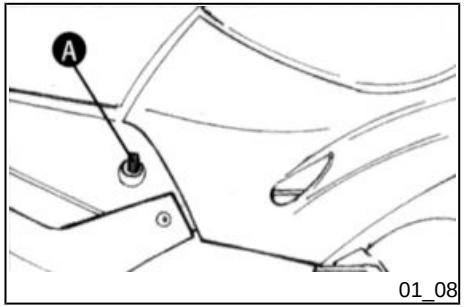
1 = High beam and side light



01_07

Start-up button (01_07)

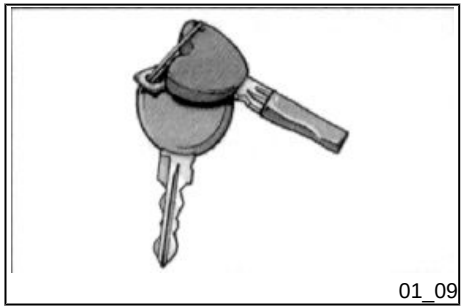
Press the button «**E**» to start the engine, after pulling one of the two brake levers



01_08

Lifting the Helmet Bay (01_08)

To access the fuel and water expansion tanks, insert the key into lock "**A**", turn it anticlockwise and tilt the helmet bay door forward. Secure the door with the prop located inside the helmet bay, on the left hand side.

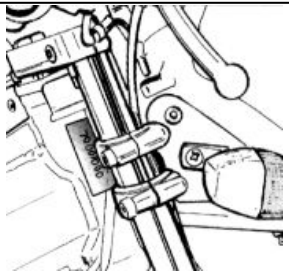

01_09

Keys (01_09)

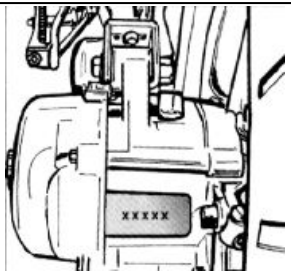
The vehicle comes with one key and one copy for the ignition key-switch, and the seat and helmet bay locks. With the keys, is a plate bearing the ID number that is to be provided when requesting duplicates.

WARNING

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



01_10



01_11

Identification (01_10, 01_11)

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.).

DNA

Chap. 02
Use

Checks

Before riding the vehicle, check:

1. The fuel and oil tanks are full.

2. The rear hub oil level.

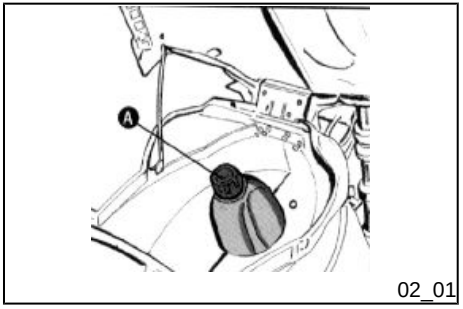
3. The tyres are inflated correctly.

4. The headlight, taillight and turn signals are working properly.

5. The front and rear brakes are in riding order.

6. The fluid level in the brake pump reservoir.

7. The coolant level in the expansion tank.



02_01

Refuelling (02_01, 02_02)

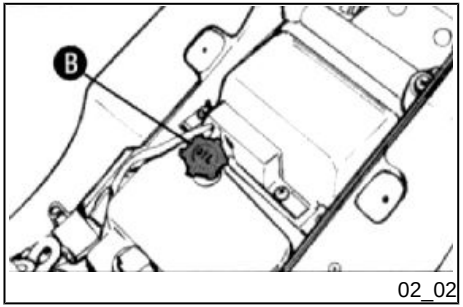
Refill the fuel tank «**A**» with unleaded petrol with 95 octane min. The low-fuel warning light on the dashboard signals that the fuel level has reached the reserve quantity. Top up the oil tank «**B**» with the recommended oil.

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.



02_02

CAUTION

USING OILS OTHER THAN THOSE RECOMMENDED CAN SHORTEN THE LIFE OF THE ENGINE.

Recommended products

AGIP CITY TEC 2T

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

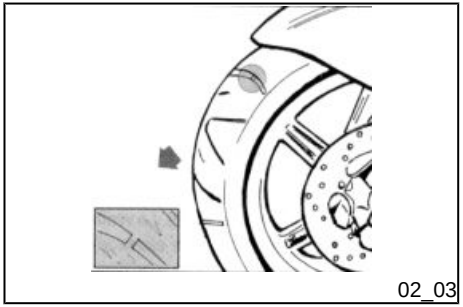
Characteristic

Oil tank

Plastic, capacity ~ 1.350 lt. (including reserve ~ 0.400 lt.).

Fuel tank

Plastic, capacity ~ 9 lt. (including reserved ~ 1.2 lt.).


02_03

Tyre pressure (02_03)

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.

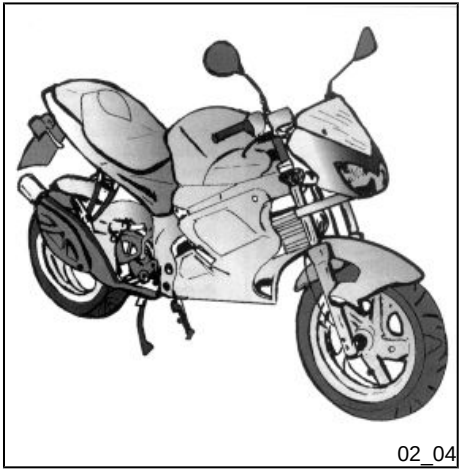
Characteristic

Front wheel pressure:

1.8 bar

Rear wheel pressure:

2 bar



02_04

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.

02_05

Starting up the engine (02_05)

The engine is fitted with an automatic continuously variable transmission (CVT) and clutch. For this reason, the throttle must not be twisted when the engine is being started; to pull away, progressively increase the throttle opening. The vehicle is also equipped with a vacuum fuel tap and an electric choke device which are automatically engaged when the engine is running. In order to start the engine, pull the right, "**F**", or left hand-side brake lever, "**B**", while pressing the engine starter button, "**A**", as this will disengage the starter safety switch.

1. Rest the vehicle on its centre-stand, "**D**", 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 and turn it onto the «**ON**» position; as the key is turned, the low-oil and fuel warning lights go on for a few seconds, confirming the correct operation of the bulb and circuit for the low-oil warning light, and of the light bulb only for the low-fuel warning light.

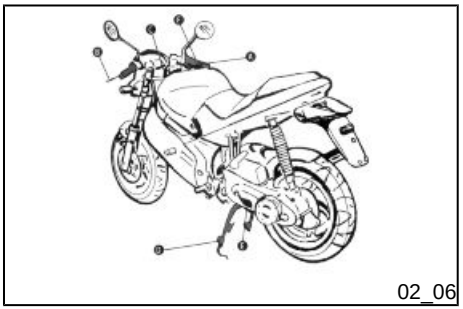
4. Ensure the engine cut-off switch, «**I**», is set onto the «**RUN**» position and the side-stand, «**L**», is retracted.

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)

Possible causes for engine starting difficulties and suggested actions:

1.Carburettor flooded. Place the vehicle on the centre stand and check that the rear tyre is off the ground. Open the throttle fully and press the starter button for five seconds and then stop for five seconds. If the engine does not start after a few attempts, let the engine sit for a few minutes and then repeat the above operations. Do not keep the button pressed for more than 20 seconds when attempting to start the engine.

2. In the case of battery inefficiency. Put the motorscooter on its stand "**E**"; make sure that the rear wheel is off the ground, turn the ignition key «**D**» to the «**ON**» position and use the kick-starter.

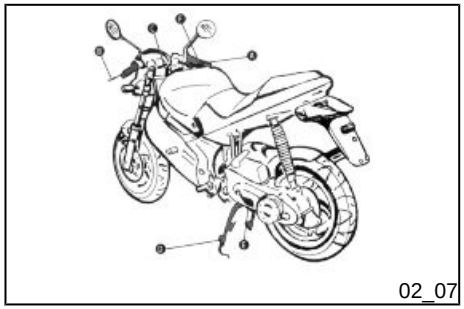
3.Fuel tank empty. After refuelling the scooter, start the engine by pressing the starter button «**A**» with the throttle at a minimum to provide maximum aspiration for the tap. If the scooter fails to start even after taking the steps described above, contact an **Authorised Piaggio Service Centre.**

CAUTION

ALWAYS PLACE THE VEHICLE ON ITS STAND BEFORE KICK STARTING.

WARNING

TAMPERING MAY CAUSE SERIOUS ENGINE MALFUNCTION.


02_07

Stopping the engine (02_07)

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

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.

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.

<

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 in 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 therefor 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.

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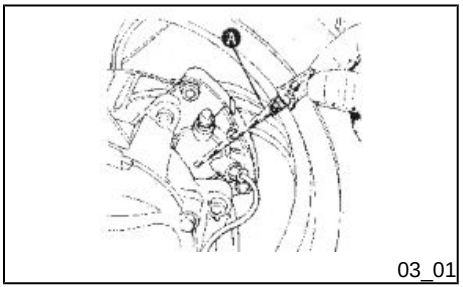
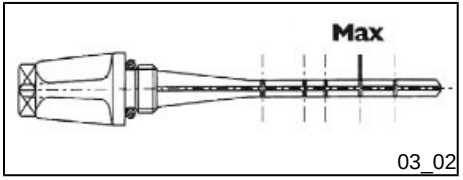
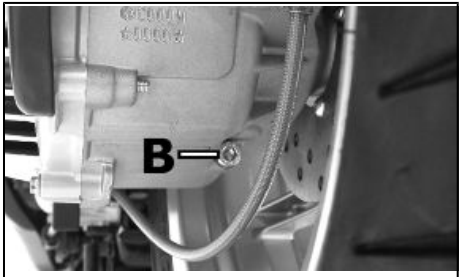
Chap. 03
Maintenance



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. Place the scooter on its stand on a level surface;
2. Unscrew the dipstick «**A**», dry it with a clean rag and then reinsert it, **screwing it tightly into place**;
3. Unscrew the dipstick again and check that the oil level barely reaches the **2nd notch from the bottom**;
4. Screw the dipstick back into place completely.

The screw «**B**» is the hub oil drainage tap.

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. 85 cc

Tyres

Check the inflation pressure of both tyres periodically. The tyres are fitted with a wear indicator and must be replaced as soon as such indicators become visible through the tyre's tread. Ensure the tyre walls are not cut and the tread is evenly worn; if necessary, refer to an authorised or suitably equipped workshop for the removal and refitting of the tyres.

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

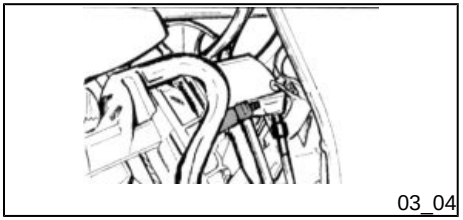
1,6 bar

Rear wheel pressure

1,8 bar

Rear wheel pressure (driver and gear)

2 bar



03_04

Spark plug dismantlement (03_04)

Detach the spark plug cap, shown in the figure, and remove the spark plug using the box-spanner provided. Upon refitting, engage the park plug thread at the correct angle and screw it in by hand, using the box-spanner for tightening. Then reattach the cap.

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

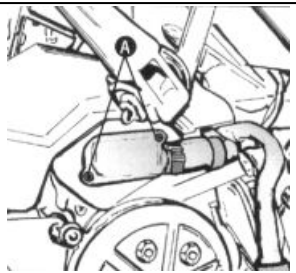
CHAMPION RN1C

Electrode distance

0,45 ÷ 055 mm

Removing the air filter

For this operation contact a **Piaggio Gilera Authorised Service Station**.

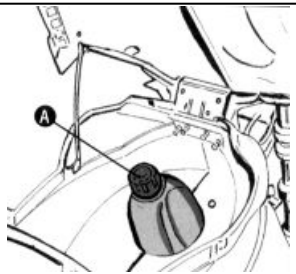


03_05

Secondary air system (03_05)

Remove the two screws «**A**» from the aluminium SAS cover. Release the metal tube from the rubber housing on the cover without extracting the tube from the cover/sleeve. Remove the tab and plastic cover, extract the sponge and wash it in water and detergent. Dry it with compressed air before refitting it, making sure to correctly fit the tab in the housing on the two plastic and aluminium covers. Every time you disassemble the filter, replace the O-ring seal in the cover.

FOR THIS OPERATION, PLEASE CONTACT AN AUTHORISED PIAGGIO SERVICE CENTRE



03_06

Cooling fluid level (03_06)

The engine cooling system is of the liquid type with a circuit capacity of approximately 0.90 litres and the coolant constitutes of a 50% mixture of demineralised water and anti-freeze glycol-ethylene-based solution with corrosion inhibiting agents. The recommended coolant is pre-mixed and ready for use. For the engine to be running properly, the coolant temperature should be kept between a minimum of 60°C and a maximum of 105°C, as indicated by the coolant temperature gauge located on the dashboard. If the eighth bar on the digital coolant temperature display starts blinking, indicating that the coolant temperature has gone past 100°C. If the temperature does not decrease or if indeed more bars light up, shut the engine off, let it cool down and check the coolant level; if this is within the prescribed limit, contact a **Piaggio-Gilera**

Authorised Service Centre. The coolant level must be checked, with the engine cold, every 5,000 Km, observing the following procedures if top-up is required.

a) Rest the vehicle onto its centre-stand.

b) Insert the key into the lock, turn it anticlockwise and tilt the helmet bay door forward. Secure the door with the prop located inside the helmet bay, on the left hand side.

c) Remove the expansion tank filler cap "**A**" by turning anti-clockwise.

d) Remove the expansion tank cover.

e) Top up with fresh coolant if the level is not above the min mark. The coolant level must always be kept between the min and max marks, identified by the visual references stamped onto the tank. The tank is fitted with a plastic cover which is detached when the filler cap is removed. Upon refitting, ensure the cover snap lips engage correctly against the helmet bay cover, and refit the filler cap carefully, so as to keep it in place.

If the coolant level approaches the min mark, top it up with the engine cold. If frequent top-ups are necessary, or if the expansion tank is found to be completely empty, the cause of the problem is due to a fault within the cooling system which must be fixed. The cooling system must therefore be inspected by an **Authorised Piaggio-Gilera Service Station**. The coolant must be replaced every 2 years. For this operation, contact of an **Authorised Piaggio-Gilera Service Station**.

WARNING

TO AVOID THE RISK OF SCALDING, DO NOT UNSCREW THE EXPANSION TANK COVER WHILE THE ENGINE IS STILL HOT.

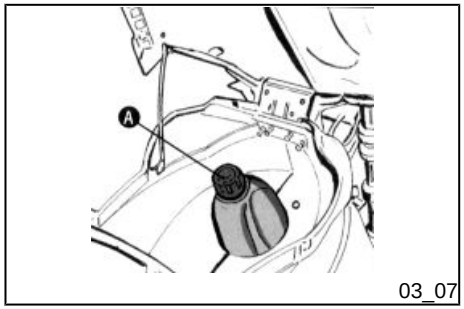
CAUTION

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

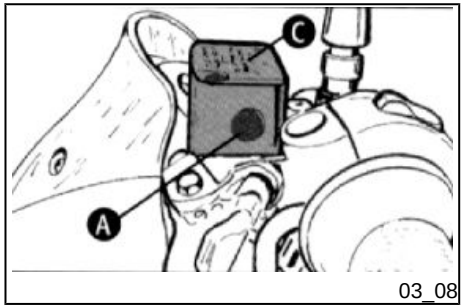
Recommended products

AGIP PERMANENT SPEZIAL

coolant
Monoethylene glycol-based antifreeze fluid, CUNA NC 956-16



03_07



03_08

Checking the brake oil level (03_07, 03_08)

The front brake reservoirs are mounted on the handlebar. The reservoirs are fitted with an inspection hole, "**A**", on the side; this allows to check the fluid level within the reservoir. When inspection hole "**A**" is completely covered, the fluid level within the reservoir is above the min mark, when the hole is partially covered, the level is below the min mark, and when the hole is completely clear, the fluid level is below the min. A decrease of the brake fluid level may be caused by the wear of the pads. If the level is below the min mark, we recommend that you contact an **Authorised Piaggio-Gilera Service Station** to have your braking system checked. If necessary, top-up the fluid level as follows. Loosen screws "**B**", lift reservoir cover "**C**" and pour in the amount of fluid needed (considering that the fluid must always be above the min level). The level check must be carried out with the reservoir perfectly horizontal, i.e. with the front wheel aligned to the vehicle's longitudinal axis, paying attention not to lean the vehicle on the side.

CAUTION

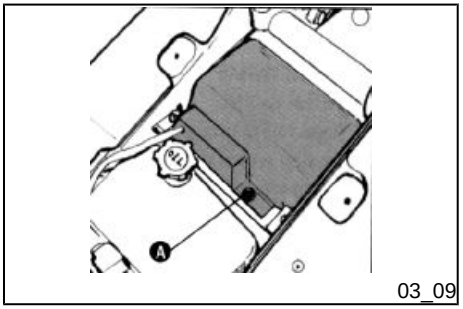
TOP UPS SHOULD ONLY BE CARRIED OUT WITH DOT 4 CLASSIFIED BRAKE FLUID.

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.

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, THAT IS, IT ABSORBS HUMIDITY FROM THE SURROUNDING AIR. IF MOISTURE CONTAINED IN THE BRAKE FLUID EXCEEDS A CERTAIN VALUE, THIS WILL RESULT IN INEFFICIENT BRAKING.



03_09

Battery (03_09)

To gain access to the battery, remove the seat and hence the battery door, by loosening Phillips screw "**A**".

WARNING

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

WARNING

THE 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.

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

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Checking the electrolyte level

The electrolyte level, which should be checked regularly, must always be at the maximum level. To reach this level, use only distilled water. Should it become necessary to top up the battery with water too frequently, check the scooter's electrical system because the battery is being overloaded, causing it to lose power quickly.

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.

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.

Fuses

The electric system is protected by a 7.5A fuse located underneath the seat and behind the battery. The ignition, starter motor, automatic choke, and head and taillight systems are not protected by the fuse. Before replacing the fuse it is necessary to find and fix the fault. Never attempt to close the circuit with any material other than the fuse.

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

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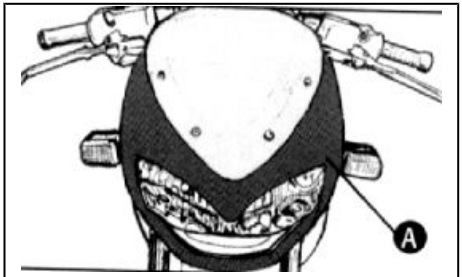
LIGHT BULBS TABLE

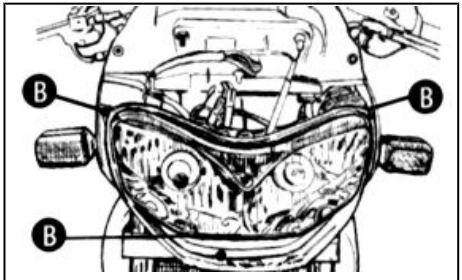
Low-beam bulb	**Type**: H8

	Power: 12V - 35W **Quantity**: 1
High-beam light bulb	**Type**: H8 **Power**: 12V - 35W **Quantity**: 1
Front tail light bulb	**Type:** All glass **Power:** 12V - 3W **Quantity:** 2
Front turn indicator bulb	**Type:** Spherical **Power:** 12V - 10W **Quantity:** 1 RHS + 1 LHS
Rear turn indicator light bulb	**Type:** Spherical **Power:** 12V - 10W **Quantity:** 1 RHS + 1 LHS
Rear sidelight and stop light bulb	**Type**: LED **Quantity**: 8



03_10

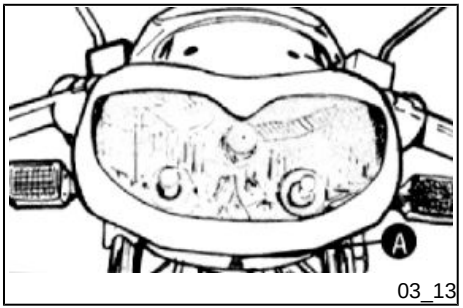
03_11



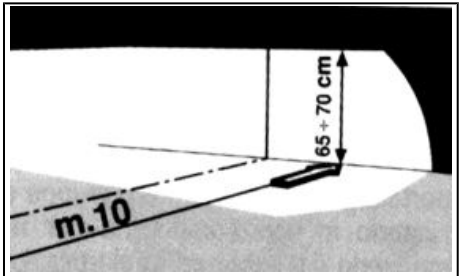
03_12

Front light group (03_10, 03_11, 03_12)

To gain access to the headlight bulb (2 dual-filament light bulbs for high and low-beam), it is necessary to proceed as follows: remove the front cover "**A**" by loosening the 6 fixing screws located behind it. Remove the headlight by loosening the 3 screws, "**B**", one of which is located underneath the headlight. Remove the two rubber buffers and detach the electrical connections. The light bulbs are fitted onto a plastic socket and must be turned anti-clockwise by about 30 degrees to be released, observing the reference markings on the bulb socket. Upon refitting follow the same procedure backwards.



03_13



03_14

Headlight adjustment (03_13, 03_14)

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 vehicle 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;

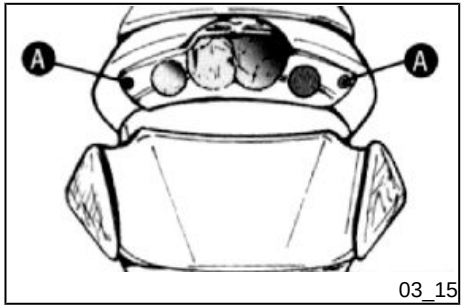
3. Otherwise, regulate the headlight by adjusting the screw «**A**», after removing the front grille.

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.

Front direction indicators

To replace the turn signal light bulbs, remove the lamp with the transparent, by loosening the fixing screw. Carefully push the bulb socket and turn it by 30° to remove it from its housing. Remove the bulb and replace it. For the refitting, follow the above operations in the reverse order.



03_15

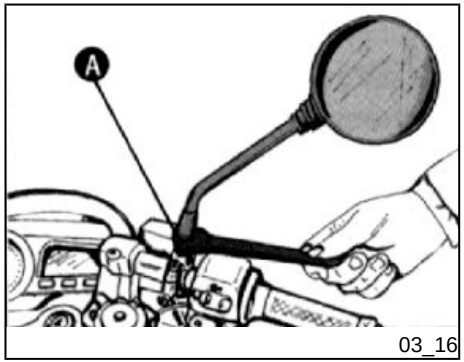
Rear optical unit (03_15)

N.B.

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.

THE PRESENCE OF DROPS OF WATER, ON THE OTHER HAND, COULD INDICATE THAT WATER IS INFILTRATING. CONTACT THE PIAGGIO AFTER-SALES SERVICE NETWORK.



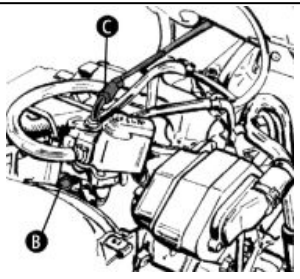
03_16

Rear-view mirrors (03_16)

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_17



03_18

Idle adjustment (03_17, 03_18)

The idle speed is adjusted by means of the idle speed adjuster screw «**A**» located on the carburettor.

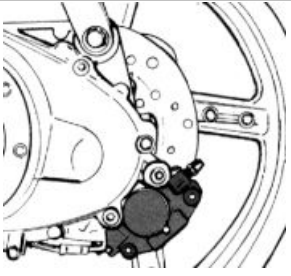
To do this, proceed as shown in the diagram. Turn the register for adjusting the clearance of the throttle control transmission «**B**», then replace the rubber protection cap.

Adjust the idle speed with the rear wheel off the ground (vehicle on stand) and with a warm engine. Turn the knob-type head screw in or out until the engine idles smoothly (around 1700÷1900 rpm.), **i.e. without the rear wheel being moved by the engine**.

If adjustment still proves difficult, contact an **Authorised Piaggio Service Centre** to have the level of **CO when idling fixed** (carbon monoxide emissions).

CAUTION

WHEN ADJUSTING IDLE SPEED, BE CAREFUL NOT TO TOUCH HOT PARTS OF THE ENGINE TO AVOID BURNS.



03_19

Front and rear disc brake (03_19, 03_20)

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, particularly considering the importance of the brakes in terms of safety, it is strongly recommended that you take the vehicle to an **Authorised Service Centre** as soon as possible for the appropriate checks.

03_20

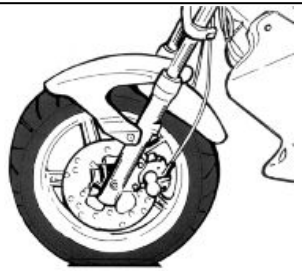
WARNING

CHECK BRAKE PADS FOR WEAR ON A REGULAR BASIS (AS INDICATED IN THE SCHEDULE MAINTENANCE TABLES). IF THE THICKNESS OF ONE OR BOTH PADS IS IN THE REGION OF 1.5 MM, BOTH PADS MUST BE CHANGED. IT IS RECOMMENDED TO CARRY OUT THIS OPERATION AT AN AUTHORISED SERVICE CENTRE AS SOON AS POSSIBLE.

AFTER FITTING NEW BRAKE PADS DO NOT USE THE VEHICLE UNTIL YOU HAVE ACTIVATED THE BRAKE LEVER REPEATEDLY TO POSITION THE PADS AND RESTORE THE LEVER STROKE TO ITS CORRECT POSITION.

CAUTION

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



03_21

Puncture (03_21)

The vehicle is equipped with Tubeless tyres. When there is a puncture, Tubeless tyres - unlike tyres with inner tubes - 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 or replaced at an **Authorised Service Centre.**

Periods of inactivity

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 cm³ 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

Use a low pressure jet of water to soften the caked dirt and mud deposited on the painted surfaces. Once softened, sponge off mud and dirt using a car body sponge soaked in a car body shampoo and water solution (2-4% of car shampoo in water). Then rinse abundantly with water, and dry with a shammy cloth. For the outside of the engine, use petroleum, a brush and clean cloths. Petrol can damage paintwork. Remember that any polishing with silicone 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.**

DIFFICULTY STARTING

No fuel in tank	Refuelling
Filters, jets or carburettor dirty or clogged.	Contact an **Authorised Service Centre.**
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 **Authorised Service Centre.**

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 **Authorised Piaggio-Gilera Service Centre**.
Air in the brake assembly.	Contact an **Authorised Piaggio-Gilera Service Centre**.

INEFFICIENT SUSPENSION

Oil leak; worn limit switch bumpers; worn shock absorber attachment points	Contact an **Authorised Service Centre**

IRREGULAR AUTOMATIC TRANSMISSION

Deteriorated roller container or belt.	Contact an **Authorised Service Centre.**

INCREASED EXHAUST NOISE

Deterioration of the SAS system and/or of the tab	Contact an **Authorised Service Centre.**

DNA

Chap. 04
Technical data

DATA

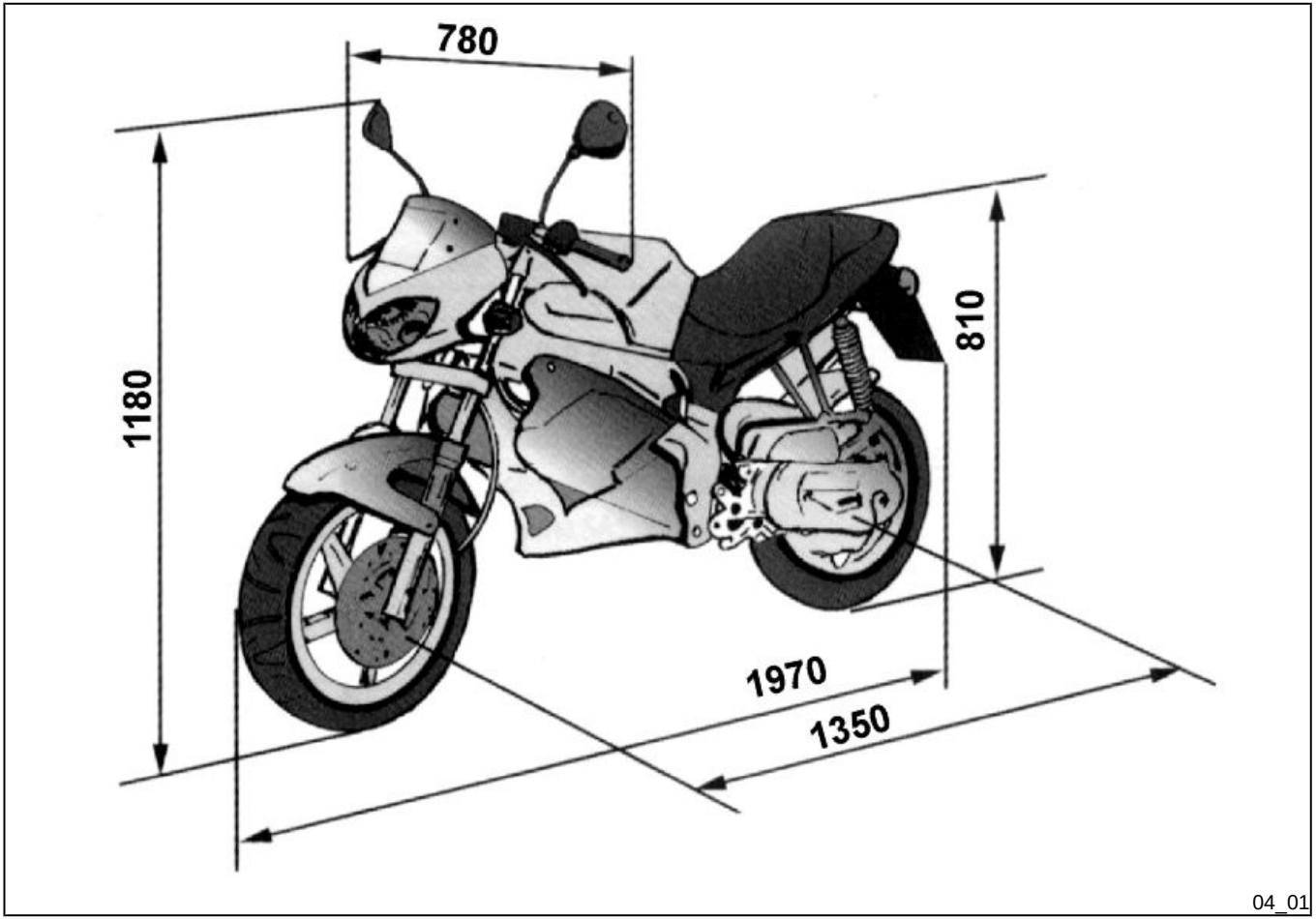
Motor	Fluid-cooled, two-cycle, single-cylinder.
Bore x stroke	40 X 39.3 mm
Engine capacity	49 cm^3
Compression ratio	11.3 ÷ 12.8 : 1
Dellorto Carburettor	PHVA 17.5
Spark advance (Before T.D.C.)	20°±1 at 4000 rpm
Spark plug	CHAMPION RN1C
Max. speed	According to current legislation

TECHNICAL DATA

Electronic ignition	A capacitor discharge microprocessor device, with built-in HV coil.
Supply.	With high-octane, 95 N.O.R. lead-free petrol mix - oil via carburettor, automatic mixer (with variable capacity depending on the engine speed and opening of throttle valve) petrol pump.
Intake	By means of a compression valve on the casing

Lubrication	Engine lubrication (piston, cylinder, crankshaft, main bearings) with mixer oil.
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 mixer tank	In plastic, of capacity ~ 1.3 lt. (including reserve ~ 0.500 lt.)
Fuel tank	Plastic, capacity ~ 9 lt. (including reserved ~ 1.2 lt.).
Rear hub oil	~ 85 cc
Wheel rim	**Front**: 3.00 x 15' light-alloy **Rear**: 3.50 x 14' light-alloy
Front tyre	120/70 - 15''
Rear tyre	140/70 - 14''
Chassis	Double steel diagonal beam
Front brake	disc brake with hand activated hydraulic control (lever on the extreme right of the handlebars).
Rear brake	Ø 175 mm disc (hydraulically controlled via lever on left hand-side of handlebar)
Front suspension	Hydraulic telescopic fork

Rear suspension	With coaxial spring and hydraulic shock absorber. Chassis to engine support with swinging arm.
Exhaust silencer	Expanding, absorption type with double catalytic converter.
Saddle height	810 mm
Wheel base	1350 mm
Maximum length	1970 mm
Maximum width	780 mm
Dry weight	99 kg.
Maximum load	Driver only.



04_01

Kit equipment

Wrenches: box-spanner (16 mm); 13mm flat wrench; twin screwdriver. The tools are located under the seat in an appropriate container.

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Chap. 05
Spare parts and accessories

05_01

Warnings (05_01)

WARNING

IT IS ALSO RECOMMENDED THAT "ORIGINAL PIAGGIO SPARE PARTS" BE USED, AS THESE ARE THE ONLY ONES OFFERING YOU THE SAME QUALITY ASSURANCE AS THOSE INITIALLY FITTED ON THE VEHICLE.

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

WARNING

PIAGGIO MARKETS ITS OWN LINE OF ACCESSORIES THAT ARE RECOGNISED AND GUARANTEED FOR USE. IT IS THEREFORE ESSENTIAL, IN ORDER TO CHOOSE AND MOUNT THE ACCESSORIES CORRECTLY, TO CONTACT AN AUTHORISED DEALER OR SERVICE CENTRE. 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.

DNA

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 intervals, even if the stated mileage has not yet been reached. Punctual scooter servicing is essential 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 gear - 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 gear - greasing
Driving belt - checking
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 - cleaning
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 - checking
Variable speed rollers - replacement
Mixer belt - replacement
Coolant level - check
Radiator - external cleaning/ check
Odometer gear - 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 gear - 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 gear - 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>

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

TABLE OF RECOMMENDED PRODUCTS

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 levers, throttle	White calcium complex soap-based spray grease with NLGI 2; ISO-L-XBCIB2

Product	Description	Specifications
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
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.

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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.

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