

PIAGGIO 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.

# Fly 125 150 4T



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.*



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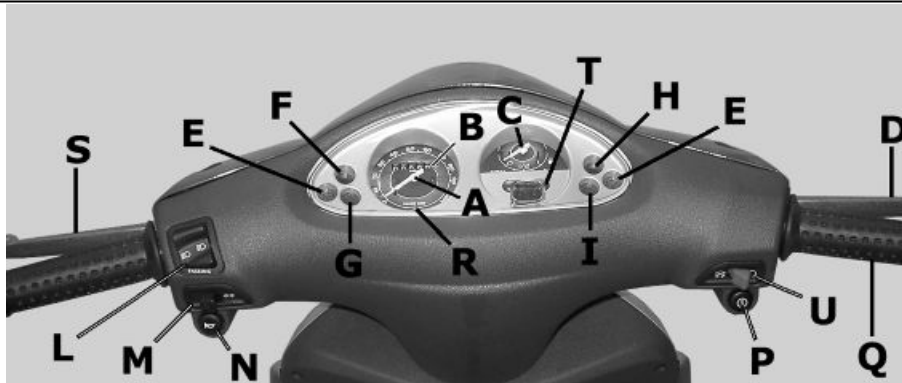
# Fly 125 150 4T



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**Chap. 01  
Vehicle**



01\_01

### Dashboard (01\_01)

A = Speedometer

B = Odometer

C = Fuel gauge

D = Front brake lever

E = Turn signal warning light

F = Low oil pressure warning light

G = High-beam warning light

H = Low fuel warning light

I = Low-beam warning light

L = Low/High-beam switch

M = Turn signal switch



**N** = Horn button

**P** = Starter button

**Q** = Throttle

**R** = Immobiliser LED (if available)

**S** = Rear brake lever

**T** = Digital clock

### **Clock (01\_02)**

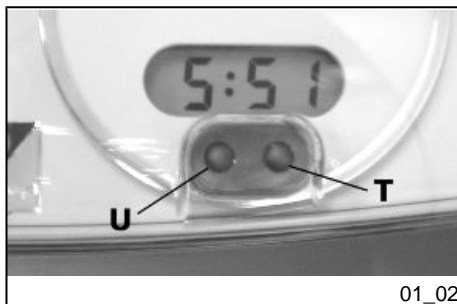
Hours and minutes are displayed in a 1 to 12, AM or PM, format on the instrument panel.

Operating the function selection switch «**T**» month, day and seconds can be seen besides hours and minutes. In order to adjust the above mentioned functions, operate button «**U**». The digital clock is powered by a battery (battery life is about 2 years); lift the whole instrument panel to replace the battery. It is advisable to take your vehicle to an **Authorised Service Centre** for this operation.

#### **WARNING**



**DEAD BATTERIES ARE HARMFUL TO THE ENVIRONMENT. THEY MUST DISPOSED OF IN SUITABLE CONTAINERS AS PRESCRIBED BY THE REGULATIONS IN FORCE.**





## 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 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**».

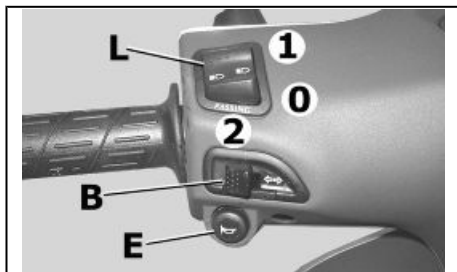
### CAUTION



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

## Switch direction indicators (01\_04)

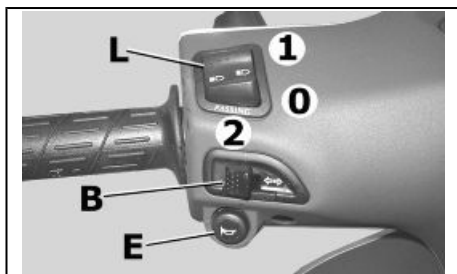
To set the left turn indicators flashing, move lever «B» to the left; to set the right turn indicators flashing, move it to the right. The lever automatically returns to the central position and the indicators remain on. To turn the indicators off, press the lever towards the switch.



01\_04

## Horn button (01\_05)

Horn button «E»



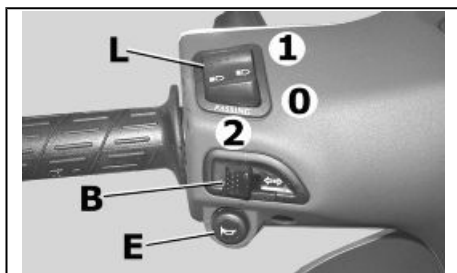
01\_05

## Light switch (01\_06)

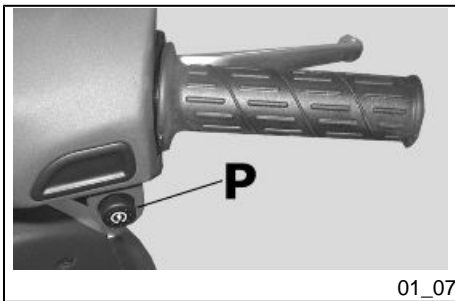
0 = Low-beam and taillight

1 = High-beam and taillight

2 = High-beam flash (passing)

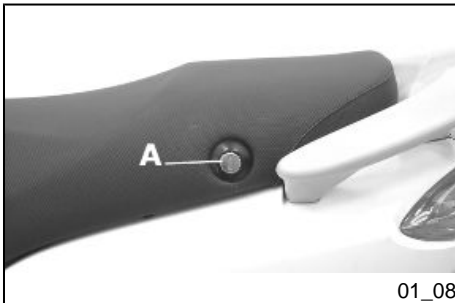


01\_06



### Start-up button (01\_07)

To start the engine, press the starter button, «P», after pulling either one of the two brake levers.



### Opening the saddle (01\_08)

Insert the key into the saddle lock «A», turn it anticlockwise and tip the saddle forward.



### Identification (01\_09, 01\_10)

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



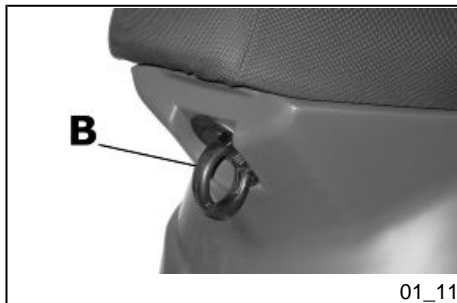
BE REMINDED THAT ALTERING IDENTIFICATION REGISTRATION NUMBERS CAN LEAD TO SERIOUS PENAL SANCTIONS (IMPOUNDING OF THE VEHICLE, ETC.).

### Rear top box opening

Turn the key to the position «OFF». Then press it. With the key in «LOCK» the glove-box is locked.

### Bag clip (01\_11)

To use the retractable bag hook «B» located at the front end of the saddle, pull it forward lightly.





# Fly 125 150 4T



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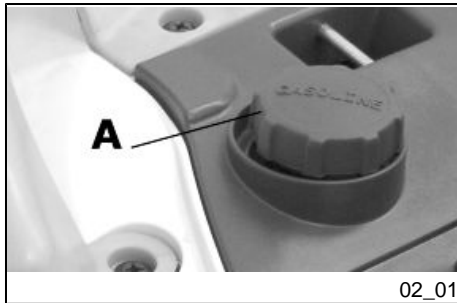


**Chap. 02**  
**Use**

## Checks

Before using the vehicle, check:

1. that the fuel tank is full.
2. The oil level in the rear hub.
3. engine oil level (see section «Engine oil level»).
4. That tyres are properly inflated.
5. correct functioning of headlights, rear taillight and turn indicators.
6. The correct functioning of the front and rear brakes.



## Refuelling (02\_01)

Refill the fuel tank «A» with unleaded petrol (min octane = 95).

A low fuel level warning light on the dashboard indicates that reserve fuel is being used.

### 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**

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

**Characteristic****Fuel tank capacity**

~ 7.2 litres (of which 1.5 l is reserve)

**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 tyre pressure**

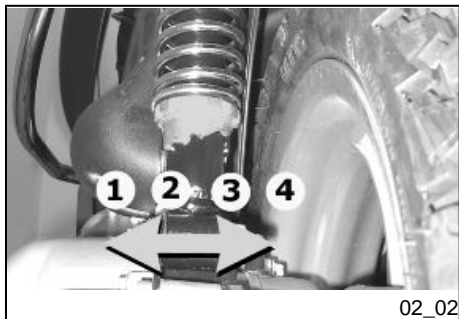
1.8 bar

**Rear tyre pressure**

2 bar

**Rear wheel pressure (rider and passenger):**

2.3 bar



02\_02

## Shock absorbers adjustment (02\_02)

The preloading of the springs can be adjusted to 4 positions using the ring nut located in the lower part of the shock absorbers and the specific spanner supplied.

**Position 1:** minimum preload: driver only

**Position 2** medium preloading: driver only

**Position 3** medium preloading: rider and passenger

**Position 4:** maximum preloading: driver, passenger, and luggage.

In order to carry out this operation you will need to use the specific spanner in the kit.

### CAUTION



**RIDING THE VEHICLE WITH THE SPRING PRELOADING NOT CORRECTLY SET FOR THE RIDER AND POSSIBLE PASSENGER, COULD REDUCE THE COMFORT OF THE RIDE AND THE PRECISION OF THE STEERING.**

### WARNING



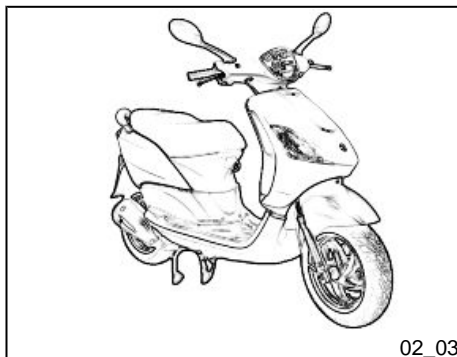
**WE RECOMMEND WEARING GLOVES WHILE CARRYING OUT THIS OPERATION IN ORDER TO AVOID INJURIES.**

## Running in (02\_03)

### 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\_03

## Starting up the engine (02\_04)

The scooter is fitted with automatic transmission with a regulator and centrifugal clutch. Therefore always start the engine with the throttle at a minimum; to start-off from still, progressively twist the throttle grip.

The vehicle is equipped with a fuel valve and a starter that switch on automatically as soon as the engine is started.

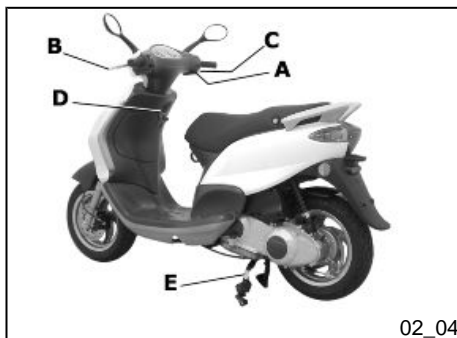
In order to start the engine, it is necessary to pull either the rear brake lever "B" or the front brake lever "C", before pressing the starting button, "A", so as to disengage the safety switches.

**1:** Put the motorscooter on its stand "E"; check that the rear tire is off the ground.

**2:** Keep the throttle closed.

**3:** Insert the key into the ignition switch, "D", and turn to the **ON** position.

**4:** Push the starter button «A» after pulling the rear brake lever «B» or the front brake lever «C».



02\_04

**CAUTION**

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

**CAUTION**

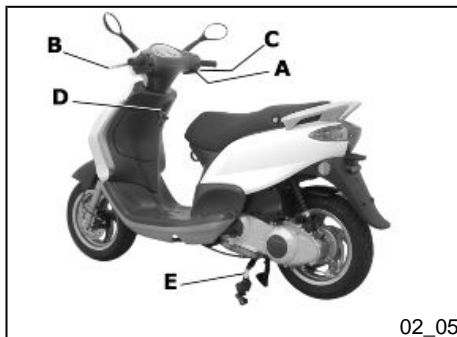
**DUE TO THE HIGH TEMPERATURES THE CATALYTIC CONVERTER CAN REACH, ALWAYS TAKE CARE, WHEN PARKING THE SCOOTER, THAT THE EXHAUST DOES NOT COME INTO CONTACT WITH FLAMMABLE MATERIALS, TO AVOID SERIOUS BURNS.**

**Precautions****CAUTION**

**NEVER STRESS THE ENGINE AT LOW TEMPERATURES IN ORDER TO AVOID POSSIBLE DAMAGE. BE CAREFUL NEVER TO EXCEED THE MAXIMUM SPEED WHILE RUNNING DOWNHILL, IN ORDER TO AVOID DAMAGING THE ENGINE. IN ANY CASE, IN ORDER TO PRESERVE THE ENGINE FROM PROLONGED EXCESSIVE REVOLUTIONS, THE REVOLUTION LIMITER WILL BE ACTIVATED IF THE ENGINE SPEED EXCEEDS THE ESTABLISHED THRESHOLD.**

**WARNING**

**AFTER A LONG DISTANCE COVERED AT THE MAXIMUM SPEED, DO NOT STOP THE ENGINE IMMEDIATELY, BUT LET IT RUN AT IDLE FOR A FEW SECONDS.**



## Difficult start up (02\_05)

Possible causes for engine starting difficulties and suggested actions:

### 1. Flooded engine

Follow the same sequence of operations described above. Twist the throttle grip completely and press the starter button «A» 5-6 times. In any case do not persist for too long with the starter motor in the attempt to start the engine (only 5"each time)

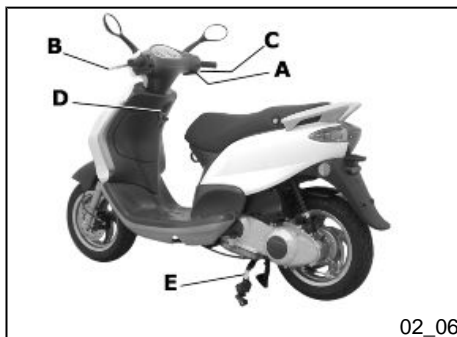
### 2. Fuel tank empty.

Proceed to start up after having refuelling: press the starter button «A» and keep the throttle grip to idle speed to give the best possible depression for the valve (vacuum operated).

### 3. Overheated engine.

Follow the same sequence of operations keeping the throttle grip slightly twisted.

If the scooter does not start even with the above operations, go to an **Authorised Piaggio Service Centre**.



## Stopping the engine (02\_06)

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.**

## 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 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.**





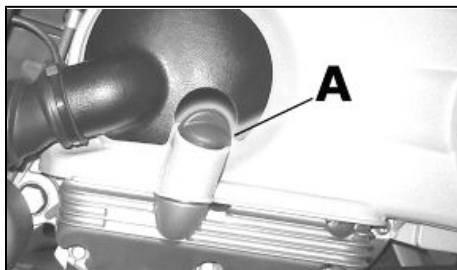
# Fly 125 150 4T



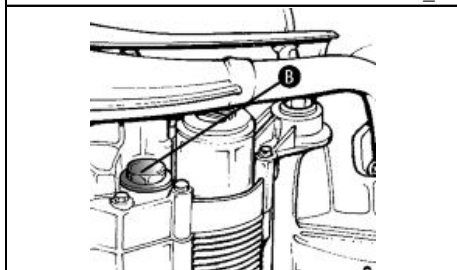
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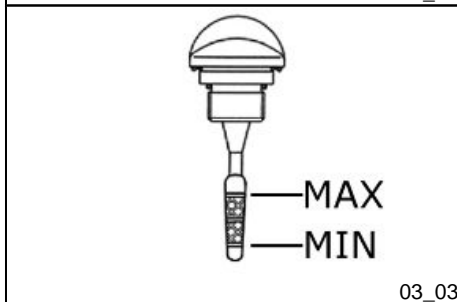
**Chap. 03  
Maintenance**



03\_01



03\_02



03\_03

## Engine oil level (03\_01)

In 4T engines, engine oil is used to lubricate the distribution elements, main bearings and thermal group. **An insufficient quantity of oil can cause serious damage to the engine itself.** In all four-stroke engines, a loss of efficiency in oil performance and consumption should be considered normal. Consumption can particularly reflect the conditions of use (i.e. when driving at "full acceleration" all the time, oil consumption increases). The replacement frequencies provided for by the maintenance programme are defined, depending on the total contents of oil in the engine and average consumption measured following standardised methods. **In order to prevent any problems, we recommend checking oil level more frequently than indicated in the Scheduled Maintenance table or before setting off on long journeys. The vehicle is, however, equipped with an oil pressure warning light on the instrument panel.**

## Engine oil level check

Every time the scooter is used, a visual check should be made on the level of the engine oil when the engine is cold. The oil level should be somewhere between the **MAX** and **MIN** index marks on the level bar; the check **MUST** be made with the scooter upright, resting on the centre stand.

If the check is carried out after the vehicle has been used, and therefore with a hot engine, the level line will be lower; in order to carry out a correct check, wait at least 10 minutes after the engine has been stopped so as to get the correct level.

### 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.**

## Characteristic

Engine oil

1100 cm<sup>3</sup>

## Engine oil top-up

Always check oil level before carrying out top-ups and add oil **without exceeding the MAX level**. An engine oil check-up and top-up should be carried out every 3,000 km at an **Authorised Piaggio Service Centre**.

## Warning light (insufficient oil pressure)

The vehicle is equipped with a warning light that lights up when the key is turned to the «ON». However, this light should switch off once the engine has been started. **If the light comes on while braking, at idle speed or while turning a corner, it is necessary to check the oil level and top it up if required. If after having topped-up the oil, the warning light still comes on while braking, at idle speed or while turning a corner, it will be necessary to take your vehicle to an Authorised Service Centre.**

## Engine oil change (03\_02, 03\_03)

Oil must be changed and filter replaced at an **Authorised Service Centre** (as indicated in the Scheduled Maintenance Table). The engine should be emptied by draining the oil from the drainage plug «B » of the gauze filter on the flywheel side. In order to facilitate oil drainage, loosen the cap/dipstick «A». Since a certain quantity of oil remains in the circuit still, the top-up should be carried out from the cap «A».

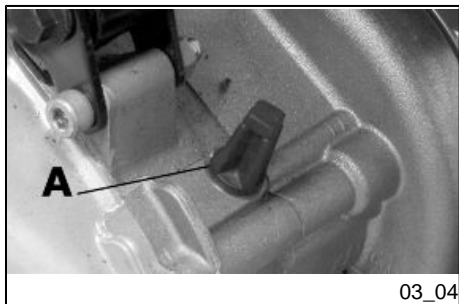
Then start up the scooter, leave it running for a few minutes and switch it off: after about five minutes check the level and if necessary top up **without exceeding the MAX level**.

The cartridge filter must be replaced every time the oil is changed. For top-ups and changes use new oil of the recommended type.

### WARNING



**RUNNING THE ENGINE WITH INSUFFICIENT LUBRICATION OR WITH INADEQUATE LUBRICANTS ACCELERATES THE WEAR AND TEAR OF THE MOVING PARTS AND CAN CAUSE IRRETRIEVABLE 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.

#### Recommended products

**AGIP CITY HI TEC 4T**

*Engine oil*

SAE 5W-40, API SL, ACEA A3, JASO MA Synthetic oil

#### **Hub oil level (03\_04, 03\_05, 03\_06)**

Check that there is oil in the rear hub; the oil in an upright vehicle should barely reach the notch of the dipstick «A».

#### CAUTION

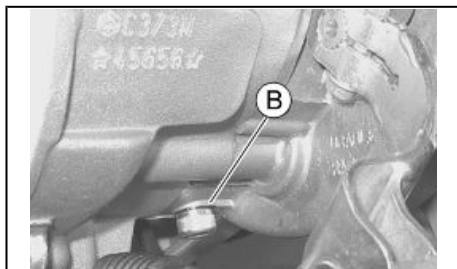


USING THE ENGINE WITH INSUFFICIENT LUBRICATION OR WITH THE WRONG LUBRICANTS MAY INCREASE WEAR AND TEAR ON THE MOVING PARTS AND MAY CAUSE SERIOUS DAMAGE.

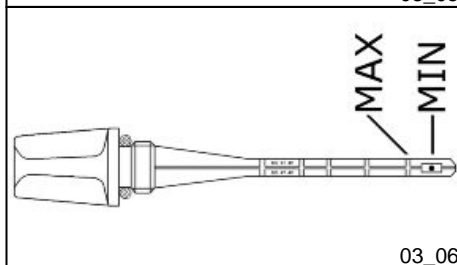
#### CAUTION



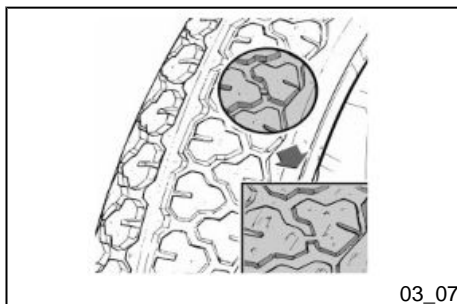
USED OILS CONTAIN SUBSTANCES HARMFUL TO THE ENVIRONMENT. FOR OIL REPLACEMENT, CONTACT AN AUTHORISED SERVICE CENTRE, WHICH IS EQUIPPED TO DISPOSE OF USED OILS IN AN ENVIRONMENTALLY FRIENDLY AND LEGAL WAY.



03\_05



03\_06



03\_07

**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**

~ 200 cm<sup>3</sup>

**Tyres (03\_07)**

Periodically check the inflation pressure of each tyre (when cold). The tyres are fitted with a wear indicator and must be replaced as soon as such indicator appears on the tread. Also ensure that the tyres do not show cuts on the walls or an irregular wear of the tread; if this is the case, please contact an authorised or adequately equipped workshop.

**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 tyre pressure**

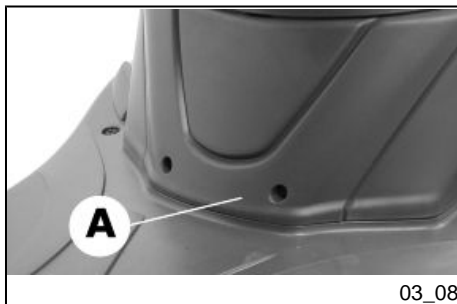
1.8 bar

#### **Rear tyre pressure**

2 bar

#### **Rear wheel pressure (rider and passenger):**

2.3 bar



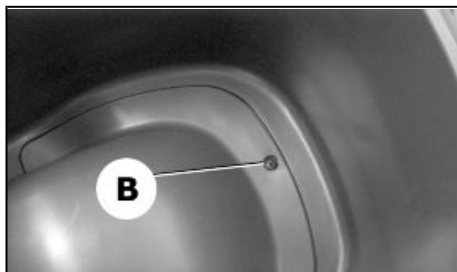
### **Spark plug dismantlement (03\_08, 03\_09, 03\_10)**

In order to carry out the spark plug inspection procedure, the engine must be cold and the following operations should be followed:

- 1 Remove inspection flap «**A**» by loosening its fixing screws;
2. Remove the helmet box carburettor cover «**B**»
- 3 Detach the spark plug cap;
- 4 From above, remove cover «**C**» located on the engine shroud;
- 5 Remove the spark plug using the supplied box-spanner (with rubber cap).

For refitting, follow the above procedures in the reverse order, using the box-spanner to screw the spark plug back in and then to tighten it to the prescribed torque, having care to insert the spark plug with the correct inclination.

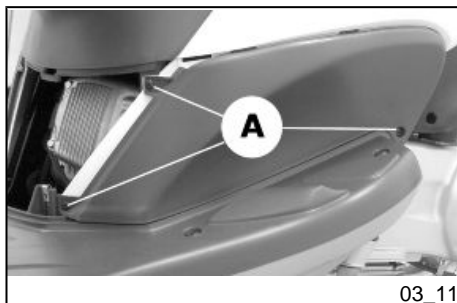
To refit the cover, follow the above procedures in the reverse order, ensuring to reinsert the cleat in the top portion of the central fairing.



03\_09



03\_10



03\_11

**WARNING**

THE SPARK PLUG MUST BE REMOVED WHEN THE ENGINE IS COLD. THE USE OF A SPARK PLUG WITH THERMAL GRADE OR THREAD OTHER THAN THE INDICATED TYPE (SEE «DATA» SECTION) CAN SERIOUSLY DAMAGE THE ENGINE. REPLACE SPARK PLUGS AT THE INTERVALS INDICATED IN THE SCHEDULED MAINTENANCE TABLE.

**N.B.**

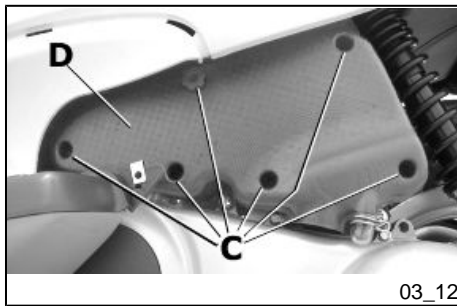
THE USE OF SPARK PLUGS OTHER THAN THE INDICATED TYPE OR OF SHIELDLESS SPARK PLUG CAPS CAN CAUSE ELECTRICAL SYSTEM FAILURES.

**Characteristic****Spark plug**

CHAMPION RG6YC - NGK CR7EB

**Removing the air filter (03\_11, 03\_12)**

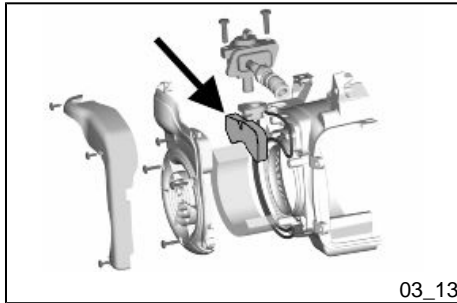
After removing the spark plug cover, remove the side fairing unscrewing the 3 screws **A**. Remove the air cleaner cap «**D**»; take out the filter after unscrewing the 6 fixing screws «**C**». Clean with water and shampoo, afterwards dry with compressed air and submerge in a recommended oil and petrol mixture in ratio of 50%. Afterwards squeeze it, leave it to dry and mount it again.



03\_12

**CAUTION**

**IN CASE OF RIDING ON DUSTY ROADS IT IS ADVISABLE TO CLEAN THE AIR FILTER MORE FREQUENTLY THAN INDICATED IN THE RELEVANT CHAPTER ON SCHEDULED MAINTENANCE.**



03\_13

**Secondary air system (03\_13)**

In order to reduce polluting emissions, the vehicle is furnished with a catalytic converter in the muffler.

To favour the catalytic process, an extra amount of oxygen is added via a secondary air system (SAS).

This system allows more oxygen to be added to the unburned gases before they reach the converter, thus improving the action of the catalytic converter.

The air enters the exhaust duct from the head, and is purified by a black filter.

The system is fitted with a control valve that disables operation while decelerating to avoid unwanted noise.

To ensure the best functioning of the SAS system, every 12,000 km the scooter should be taken to an **Authorised Piaggio Service Centre** to have the filter cleaned (Scheduled maintenance operations section).

The filter sponge should be cleaned with water and mild soap, then it should be dried with a cloth and slight blows of compressed air.



**CAUTION**

**CONTACT AN AUTHORISED PIAGGIO SERVICE CENTRE TO CARRY OUT THESE OPERATIONS.**

### Checking the brake oil level (03\_14, 03\_15)

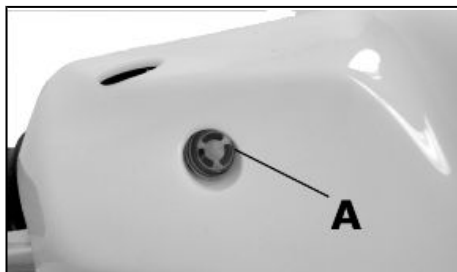
The brake fluid reservoir is equipped with a sight glass «A» made of transparent material; the quantity of liquid contained in the sight glass indicates the level of liquid in the reservoir.

When the sight glass «A» is full, the level inside the reservoir exceeds the MIN level; when it is partially full, the level drops to the MIN level; when it is fully empty, the level of fluid in the reservoir is below the MIN level.

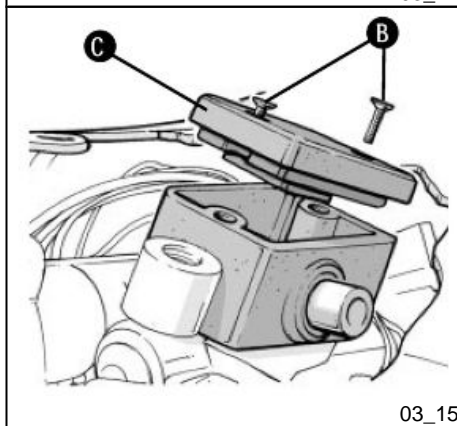
The brake fluid level may fall due to wear on the brake pads. In case the pad wear is below the minimum mark, contact an **Authorised Service Centre** to have the braking system thoroughly checked. If you need to top up the level, follow the steps listed below. Unscrew the 2 screws "B", remove the tank cap "C" and pour in the required quantity of fluid (the brake fluid level must be above minimum). Place the handlebar in the riding position and pay attention not to tilt the vehicle in order to keep the brake fluid reservoir in horizontal position when checking the fluid level.

**CAUTION**

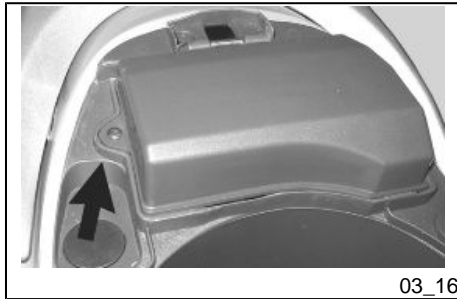
**TOP UPS SHOULD ONLY BE CARRIED OUT WITH DOT 4 CLASSIFIED BRAKE FLUID.**



03\_14



03\_15



03\_16

**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, 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.

**Battery (03\_16)**

Lift the saddle forward to access the battery then remove access door to the battery by unscrewing the star-shaped screws as shown in the picture.

The battery is the electrical device that requires the most frequent inspections and diligent maintenance.

**WARNING**

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

**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.**

**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**

**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 (03\_17, 03\_18)**

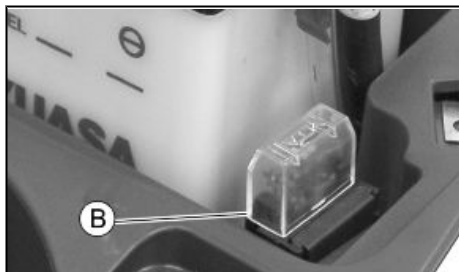
The electrical system is protected by one 15A fuse «B» located next the battery and four 7.5 A fuses located under the front grill.

**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**

**MODIFICATIONS OR REPAIRS TO THE ELECTRICAL SYSTEM, PERFORMED INCORRECTLY OR WITHOUT STRICT ATTENTION TO THE TECHNICAL SPECIFICATIONS OF THE SYSTEM, CAN CAUSE ERRORS IN FUNCTIONING AND RISK OF FIRE.**



03\_17



03\_18

## CAUTION



BEFORE REPLACING THE BLOWN FUSE, FIND AND SOLVE THE FAILURE THAT CAUSED IT TO BLOW. NEVER TRY TO REPLACE THE FUSE WITH ANY OTHER MATERIAL (E.G., A PIECE OF ELECTRIC WIRE).

### LIGHT BULBS TABLE

High/low beam light bulb	<b>Type:</b> Halogen (H4) <b>Power:</b> 12V - 55/60W <b>Quantity:</b> 1
Front tail light bulb	<b>Type:</b> All glass <b>Power:</b> 12V 5W <b>Quantity:</b> 1
Front turn indicator bulb	<b>Type:</b> Spherical <b>Power:</b> 12V - 10W <b>Quantity:</b> 1 RHS + 1 LHS
Rear turn indicator light bulb	<b>Type:</b> Spherical <b>Power:</b> 12V - 10W <b>Quantity:</b> 1 RHS + 1 LHS
Stop and tail light bulb	<b>Type:</b> Spherical

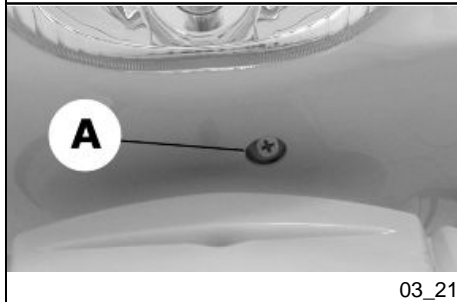
	<b>Power:</b> 12V 21/5W <b>Quantity:</b> 1
12V - 2W warning light bulbs	<b>Type:</b> All glass <b>Function:</b> Turn indicators <b>Quantity:</b> 2
Pilot light bulbs 12V - 1,2W	<b>Type:</b> BAYONET <b>Voltage supply/Power:</b> Lights, high beams, reserve level, engine oil <b>Quantity:</b> 4
Instrument panel light bulbs	<b>Type:</b> All glass <b>Power:</b> 12V 1.2W <b>Quantity:</b> 3
License plate light bulb	<b>Type:</b> ALL GLASS <b>Power:</b> 12V - 5W <b>Quantity:</b> 1



03\_19



03\_20



03\_21

## Front light group (03\_19, 03\_20)

To access the headlight bulbs, remove the front of the handlebar cover, as follows:

- 1) Remove the rear-view mirrors; for this operation follow the instructions described and illustrated in «Rear-view mirrors» section.
- 2) Unscrew the 3 screws holding the handlebar cover. The front central one «B» and the rear 2 «C». Once this is done, the handlebar cover can be removed.
- 3) Remove the handlebar cover to access the headlight and the bulbs.

### **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.**

## Electric characteristic

### **Bulbs**

**1 piece** 12V/55-60W bulb for high- and low-beam light

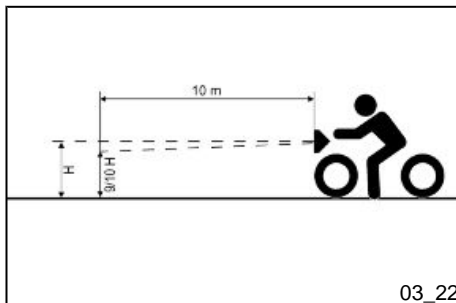
**1 piece** 12V/5W bulb for taillights

## **Headlight adjustment (03\_21, 03\_22)**

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;



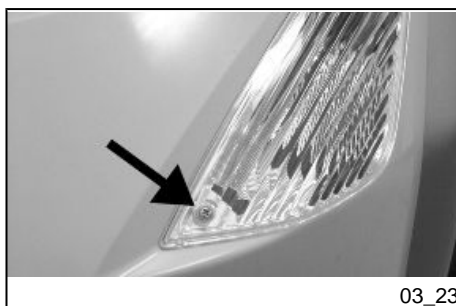


2. Turn on the headlight and check that the borderline of the projected light beam on the screen is not lower than 9/10 of the distance from the ground to the centre of vehicle headlamp and higher than 7/10;

3. If otherwise, adjust the right headlight with screw «A».

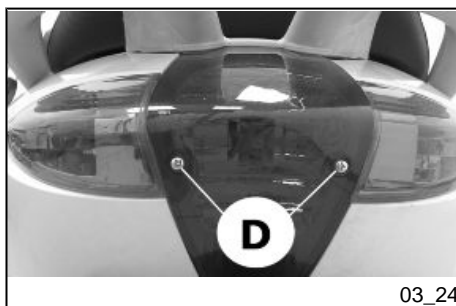
**N.B.**

**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 (03\_23)

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



### Rear optical unit (03\_24)

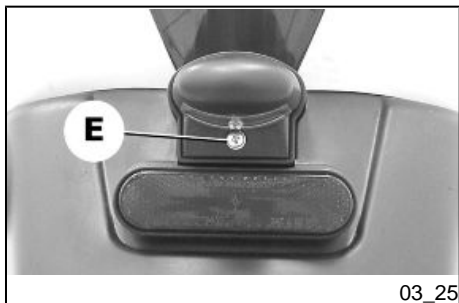
To access the rear taillight bulb it is necessary to remove the 2 fixing screws «D». Doing so it is possible to access also the turn indicator bulbs. Gently push and turn the bulb about 30° and then remove it. To refit follow the same steps but in reverse order.

**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.



### Number plate light (03\_25)

Remove the tail light by operating the retaining screws «E».



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

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

To remove the rear-view mirror rotate the rear-view mirror support rod clockwise.

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

Proceed as follows:

1. Rest the vehicle on its centre-stand and lift the seat (as described in the "Lifting the seat & helmet compartment" section).
2. Loosen the fixing screws «A» and remove the carburettor access door.
3. Start the engine, hence tighten or loosen the idle adjusting screw «B» until the prescribed idle speed is reached and the rear wheel is not spinning.

If any problems arise during this operation, please contact your **PIAGGIO Dealer or Authorised Service Station** to perform a **CO** check at idle.

### WARNING

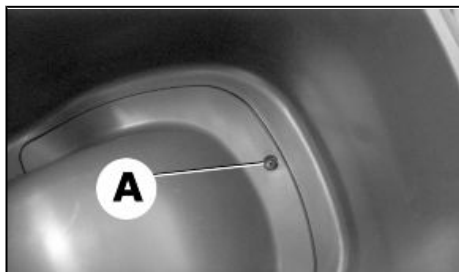


**IDLE SPEED MUST BE ADJUSTED WHEN THE ENGINE IS VERY HOT. BEFORE THIS OPERATION, MAKE SURE THAT THE THROTTLE GRIP HAS THE RECOMMENDED BACKLASH. IF BACKLASH IN THE THROTTLE CONTROL TRANSMISSION NEEDS ADJUSTING TAKE YOUR SCOOTER TO A PIAGGIO DEALER OR AUTHORISED SERVICE CENTRE**

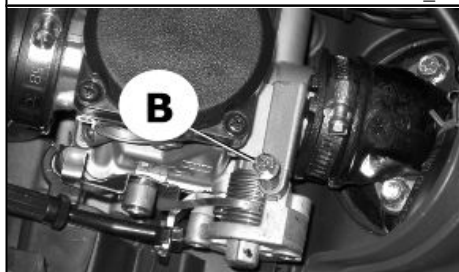
### Characteristic

#### Engine idle speed

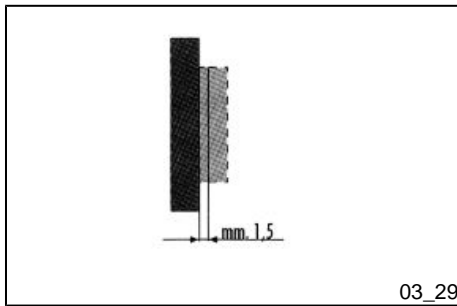
approx. 1600 ÷ 1800 rpm



03\_27



03\_28



## Front disc brake (03\_29)

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.

### 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.**

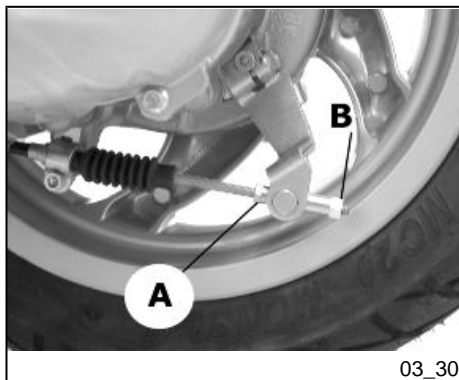
### Rear drum brake (03\_30)

Operate adjustment nut «**B**» and loosen lock nut «**A**» shown in the figure. Note that when the throttle is in idle **the wheel should rotate free**. After the adjustment, screw lock nut «**A**».

#### CAUTION



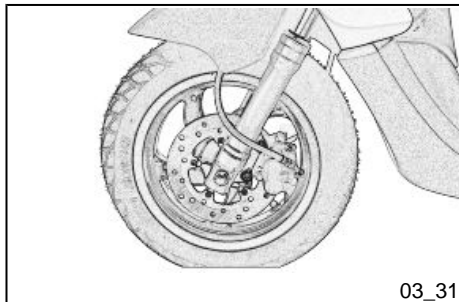
**THE BRAKING ACTION SHOULD BEGIN AFTER ABOUT 1/3 OF THE BRAKE LEVER STROKE.**



03\_30

### Puncture (03\_31)

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**.



03\_31



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 bottom dead centre position, remove the spark plug and pour 1÷2 cc of motor oil through its hole. Operate the starter 3-4 times letting the engine perform a few revolutions, then remount the spark plug.
- 3 - Drain up all the vehicle's fuel; spread antirust grease on the unpainted metal parts; keep the wheels lifted above the ground.
- 4 - For the battery, follow the procedures described in the «Battery» section.
- 5 - Drain the petrol from the carburettor tank.
- 6 - Replace engine oil.

## Recommended products

### **AGIP CITY HI TEC 4T**

*Oil to lubricate flexible transmissions (brakes, throttle control and odometer)*  
Oil for 4-stroke engines

## **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.**

## DIFFICULT STARTING

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

## IGNITION PROBLEM

No spark from spark plug. Due to the presence of high voltage, this check should only be carried out by an expert.	Check that the electrodes are properly adjusted (0.7- 0.8 mm). Check that the electrodes are clean (clean with pure petrol and metal brush or with emery cloth). Check the spark plug insulator: Replace the spark plug if the insulator is cracked or broken. If the spark plug is in good conditions, contact an <b>Authorised Service Centre</b> .
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## LACK OF COMPRESSION

Spark plug adapter "worn", valve clearance not adequate; worn piston gas rings	Contact an <b>Authorised Service Centre</b> .
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## **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»)
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## **INEFFICIENT BRAKING**

Oil on drum or disc. Worn Pads/ Shoes	Contact an <b>Authorised Service Centre</b>
incorrect rear brake adjustment	Adjust

## **INEFFICIENT SUSPENSIONS**

Inefficient shock absorbers, oil leakage, deteriorated end of stroke buffers.	Contact an <b>Authorised Service Centre</b>
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## **IRREGULAR AUTOMATIC TRANSMISSION**

Deteriorated variable speed rollers and/or driving belt and/or clutch	Contact an <b>Authorised Service Centre</b>
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## **EXHAUST NOISE**

Depression tube damaged/ disconnected or secondary valve damaged	Contact an <b>Authorised Service Centre</b>
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## **STAND DOES NOT RETURN TO POSITION**

Presence of dirt

Clean and grease

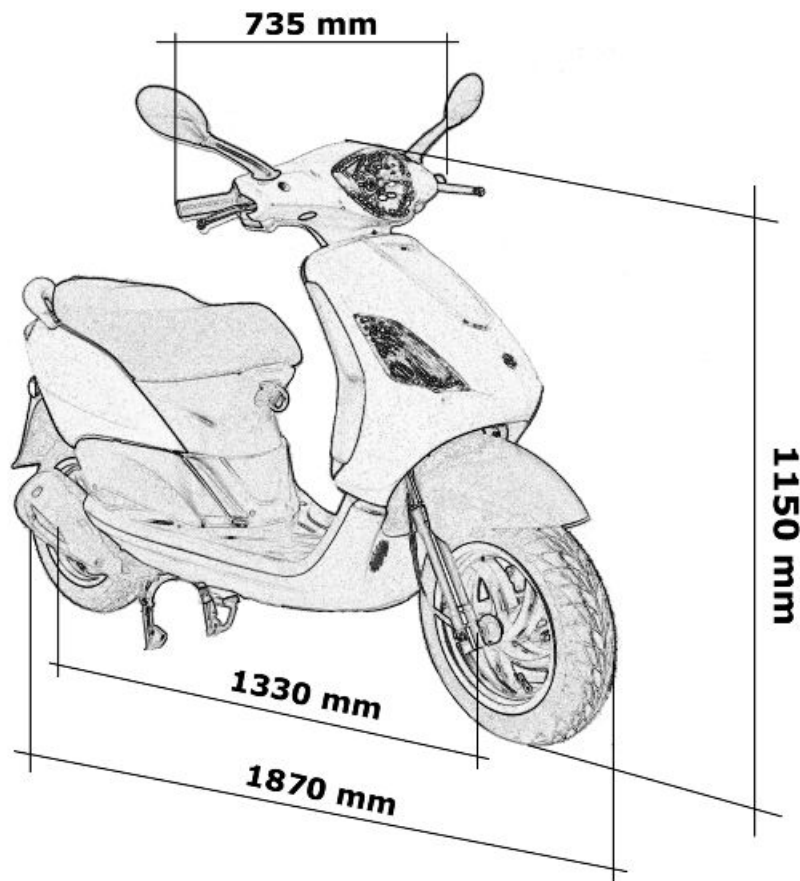
# Fly 125 150 4T



**PIAGGIO®**



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



**TECHNICAL SPECIFICATIONS 125**

Engine	Single-cylinder, 4-stroke Piaggio LEADER
Cubic capacity	124 cc
Bore x stroke	57.0 x 48.6 mm
Spark plug	CHAMPION RG6YC - NGK CR7EB
Carburettor	KEIHIN CVEK26
Valve clearance	intake 0.10 outlet 0.15
Lenght	1870
Width	735
Wheel base	1330
Overall height	1150 mm
Fuel	Unleaded petrol
Fuel tank capacity	~ 7.2 litres (of which 1.5 l is reserve)
Timing system	Single overhead camshaft (SOHC) with 2 valves
Cooling	Forced air circulation.
Lubrication	Wet crankcase
Start-up	Electric
Transmission	Automatic speed variator CVT with torque server

Chassis	Tubular steel with sheet metal reinforcements
Clutch	Automatic centrifugal dry clutch
Front suspension	Ø 32 Hydraulic telescopic fork - travel: 76 mm
Rear suspension	Single hydraulic shock-absorber with spring pre-load adjustable on 4 positions; 64 mm travel.
Front brake	Disc brake (Ø 200 mm) with hydraulic control (lever on the far right of the handlebar) and floating calliper.
Rear brake	Ø 140 mm drum brake
Front wheel rim	Die-cast aluminium alloy; 3.50 x 12"
Rear wheel rim	Die-cast aluminium alloy: 3.00"x12"
Front tyre	Tubeless 120/70-12"
Rear tyre	Tubeless 120/70 - 12"
Seat height	785
Dry weight	112 kg

### **TECHNICAL SPECIFICATIONS 150**

Engine	Single-cylinder, 4-stroke Piaggio LEADER
Cubic capacity	150,46 cm <sup>3</sup>

Bore x stroke	62,6 x 48.6 mm
Compression ratio	10.5: 1
Max. power	11.6 hp at 7750 rpm
Max. torque	11.6 Nm at 6000 rpm
Spark plug	CHAMPION RG6YC - NGK CR7EB
Carburettor	KEIHIN CVEK26
Valve clearance	intake 0.10 outlet 0.15
Lenght	1870
Width	735
Wheel base	1330
Overall height	1150 mm
Fuel	Unleaded petrol
Fuel tank capacity	~ 7.2 litres (of which 1.5 l is reserve)
Timing system	Single overhead camshaft (SOHC) with 2 valves
Cooling	Forced air circulation.
Lubrication	Wet crankcase
Start-up	Electric
Transmission	Automatic speed variator CVT with torque server

Chassis	Tubular steel with sheet metal reinforcements
Clutch	Automatic centrifugal dry clutch
Front suspension	Ø 32 Hydraulic telescopic fork - travel: 76 mm
Rear suspension	Single hydraulic shock-absorber with spring pre-load adjustable on 4 positions; 64 mm travel.
Front brake	Disc brake (Ø 200 mm) with hydraulic control (lever on the far right of the handlebar) and floating calliper.
Rear brake	Ø 140 mm drum brake
Front wheel rim	Die-cast aluminium alloy; 3.50 x 12"
Rear wheel rim	Die-cast aluminium alloy: 3.00"x12"
Front tyre	Tubeless 120/70-12"
Rear tyre	Tubeless 120/70 - 12"
Seat height	785
Dry weight	112 kg

### Kit equipment

Tools: one box spanner (16 mm); one double screwdriver; one flat spanner 13 mm; one spanner for shock-absorber. The tool are located inside the seat compartment.



# Fly 125 150 4T



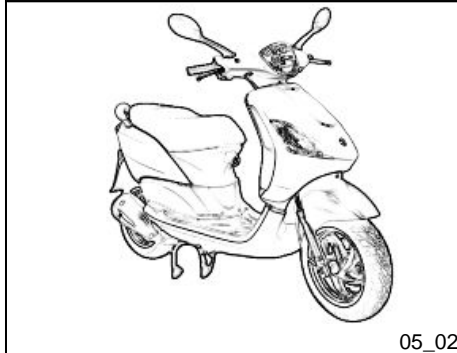
**PIAGGIO®**



**Chap. 05**  
**Spare parts and**  
**accessories**



05\_01



05\_02

## Warnings (05\_01, 05\_02)

### 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.

# Fly 125 150 4T



**PIAGGIO®**



**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
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### EVERY 3000 KM

Engine oil - level check/ top-up
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### AFTER 1000 KM

Engine oil - replacement
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Hub oil - change
------------------

Oil filter (net filter) - clean
---------------------------------

Idle speed (*) - adjustment
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Throttle lever - adjustment

Steering - adjustment

Brake control levers - greasing

Brake pads - check condition and wear

Brake fluid level - check

Safety locks - check

Electrical system and battery - check

Tyre pressure and wear - check

Vehicle and brake test - road test

(\* See instructions in «Idle speed adjustment» section

### **AFTER 6000 KM, 18000 KM, 54000 KM**

Engine oil - replacement

Hub oil level - check

Spark plug electrode gap - check

Air filter - clean

Engine oil - change

Oil filter (net filter) - clean

Valve clearance - adjustment

Variable speed rollers/pads - check

Driving belt - check

Brake pads - check condition and wear

Brake fluid level - check

Electrical system and battery - check

Centre stand - lubrication

Tyre pressure and wear - check

Vehicle and brake test - road test

### **AFTER 12000 KM, 60000 KM**

Engine oil - replacement

Hub oil level - check

Air filter - clean

Engine oil - change

Oil filter (net filter) - clean

Spark plug - replacement

Idle speed (\*) - adjustment

Throttle lever - adjustment

Pads and variator rollers - replacement

Driving belt - replacement

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

---

Centre stand - lubrication

---

Secondary air filter - cleaning

---

Tyre pressure and wear - check

---

Vehicle and brake test - road test

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(\*) See instructions in «Idle speed adjustment» section

### **AFTER 24000 KM, 48000 KM**

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Engine oil - replacement

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Hub oil - change

---

Air filter - clean

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Engine oil - change

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Oil filter (net filter) - clean

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Spark plug - replacement

---

Idle speed (\*) - adjustment

---

Throttle lever - adjustment

---

Pads and variator rollers - replacement

---

Driving belt - replacement

---

Cylinder ventilation system - cleaning

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

Secondary air filter - cleaning

Centre stand - lubrication

Vehicle and brake test - road test

(\*) See instructions in «Idle speed adjustment» section

### **AFTER 30000 KM, 42000 KM, 66000 KM**

Engine oil - replacement

Hub oil level - check

Spark plug electrode gap - check

Air filter - clean



Engine oil - change

Oil filter (net filter) - clean

Slide pads and variator rollers - check

Driving belt - check

Brake pads - check condition and wear

Brake fluid level - check

Electrical system and battery - check

Centre stand - lubrication

Tyre pressure and wear - check

Vehicle and brake test - road test

### **AFTER 36000 KM**

Engine oil - replacement

Hub oil - change

Spark plug - replacement

Air filter - clean

Engine oil - change

Oil filter (net filter) - clean

Valve clearance - adjustment

Idle speed (\*) - adjustment

Throttle lever - adjustment

Pads and variator rollers - replacement

Driving belt - replacement

Odometer cable - greasing

Steering - adjustment

Brake control levers - greasing

Brake pads - check condition and wear

Brake fluid level - check

Flexible brake tubes - replacement

Transmission elements - lubrication

Safety locks - check

Suspensions - check

Electrical system and battery - check

Headlight - adjustment

Secondary air filter - cleaning

Centre stand - lubrication

Tyre pressure and wear - check

Vehicle and brake test - road test

*(\*) See instructions in «Idle speed adjustment» section*

### **AFTER 72,000 KM**

Engine oil - replacement

Hub oil - change

Spark plug - replacement

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Air filter - clean

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Engine oil - change

---

Oil filter (net filter) - clean

---

Valve clearance - adjustment

---

Idle speed (\*) - adjustment

---

Throttle lever - adjustment

---

Pads and variator rollers - replacement

---

Driving belt - replacement

---

Odometer cable - greasing

---

Steering - adjustment

---

Cylinder ventilation system - check

---

Brake control levers - greasing

---

Brake pads - check condition and wear

---

Brake fluid level - check

---

Flexible brake tubes - replacement

---

Transmission elements - lubrication

---

Safety locks - check

---

Suspensions - check

---

Electrical system and battery - check

---

Headlight - adjustment

---

Secondary air filter - cleaning

---

Centre stand - lubrication

---

Tyre pressure and wear - check

---

(\*) See instructions in «Idle speed adjustment» section

### 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 (brakes, throttle control and odometer)	Oil for 4-stroke engines
AGIP FILTER OIL	Oil for air filter sponge	Mineral oil with specific additives for increased adhesiveness
AGIP GP 330	Grease for brake control levers, throttle, stand	White calcium complex soap-based spray grease with NLGI 2; ISO-L-XBCIB2
AGIP CITY HI TEC 4T	Engine oil	SAE 5W-40, API SL, ACEA A3, JASO MA Synthetic oil
AGIP GREASE MU3	Grease for odometer transmission gear case	Soap-based lithium grease with NLGI 3; ISO-L-XBCHA3, DIN K3K-20

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PIAGGIO & C. S.p.A. - After-Sales

V.le Rinaldo Piaggio, 23 - 56025 PONTEDERA (Pi)