



**PIAGGIO**®

OWNER'S MANUAL

Fly 150

PIAGGIO WOULD LIKE TO THANK YOU  
for having chosen one of its products. We have drawn up this manual to show you all features of this product. Please read it carefully before riding  
the vehicle for the first time. It includes information, recommendations and warnings regarding your vehicle. You will also be informed of features,  
details and devices that will prove the excellence of your choice. We believe that if you follow our suggestions, you will soon tune in with your new  
vehicle and use it for a long time at full satisfaction.

# FLY 150



PIAGGIO®



**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.

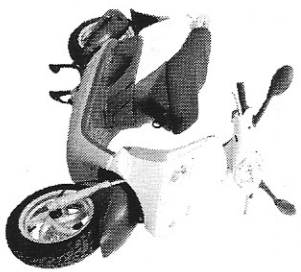
*The symbols on this page are important. They highlight areas of the handbook that deserve special attention. The three symbols are distinctive so that information can be located quickly.*

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# FLY 150



PIAGGIO



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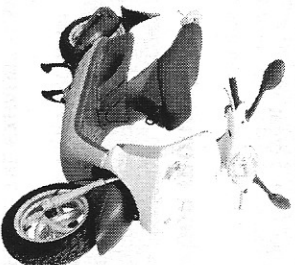
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# FLY 150



PIAGGIO®



Chap. 01  
General rules

### Foreword

This manual is an important and integral part of your vehicle. Keep it with your vehicle at all times and when vehicle is resold. Piaggio has prepared this manual to provide the owner, with correct and current information. However, since Piaggio constantly improves the design of its vehicles, there may be slight discrepancies between your vehicle and the material given in this manual. If you have any questions about your vehicle, contact your local Piaggio Dealer, as he will have the very latest technical information available from the factory or call toll free: 1-877-2-PIAGGIO (1-877-274-2444). For tests and repairs not expressly described in this manual, to purchase Piaggio genuine spare parts, accessories, and other products, or for help with specific problems, please contact your local Authorized Piaggio Service Center. These professionals will be able to promptly and accurately help you. Thank you for choosing Piaggio. Have a great ride!

### Carbon monoxide

If it is necessary to let the engine run in order to carry out some work, make sure that the area in which you are operating is properly ventilated. Never run the engine in enclosed spaces. If it is necessary to work indoors, use an exhaust evacuation system.



**WARNING: THE EXHAUST FUMES CONTAIN CARBON MONOXIDE, A POISONOUS GAS THAT CAN CAUSE LOSS OF CONSCIOUSNESS AND EVEN DEATH.**



### Fuel

**WARNING: GASOLINE IS EXTREMELY FLAMMABLE AND IN SOME CONDITIONS CAN BECOME EXPLOSIVE. THEREFORE, IT IS NECESSARY TO REFUEL AND CARRY OUT MAINTENANCE OPERATIONS INVOLVING THE FUEL SYSTEM IN A WELL VENTILATED AREA WITH THE ENGINE OFF. DO NOT REFUEL OR PERFORM ANY MAINTENANCE ON THE FUEL SYSTEM WITH THE ENGINE RUNNING. DO NOT SMOKE**

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**WHILE REFUELING OR NEAR FUEL VAPORS, NEVER ALLOW ANY PORTION OF THE FUEL SYSTEM TO COME IN CONTACT WITH OPEN FLAMES, SPARKS AND/OR OTHER HEAT SOURCES. BE CAREFUL TO AVOID SPILLING FUEL WHEN YOU ARE REFUELING. SPILLED FUEL COULD IGNITE WHEN IT CONTACTS HOT ENGINE OR EXHAUST SYSTEM SURFACES. IF YOU ACCIDENTALLY SPILL SOME FUEL, MAKE SURE THAT IT IS WIPED UP OR COMPLETELY EVAPORATED BEFORE STARTING THE VEHICLE.**

Since gasoline expands in the fuel tank when the vehicle is sitting in the open sun, never fill the tank completely to the brim. Leave at least one inch of expansion space. Avoid any contact of the fuel with your skin, and avoid inhalation of fuel vapors. Do not ever attempt to siphon fuel from one container to another using your mouth as suction for a siphon hose. Use a manual pump or a similar system.



**WARNING: GASOLINE IS POISONOUS AND CARCINOGEN AND CONTAINS CHEMICAL SUBSTANCES THAT CAUSE BIRTH DEFECTS AND OTHER REPRODUCTIVE PROBLEMS. IF GASOLINE SHOULD BE ACCIDENTALLY SPILLED ON THE SKIN OR CLOTHES, IMMEDIATELY WASH IT OFF WITH SOAP AND WATER AND CHANGE CLOTHES.**

Should you accidentally spill gasoline in your eyes, flush with a large quantity of water and immediately contact a health professional. Should you accidentally get gasoline into your mouth, do not induce vomiting. Drink a large quantity of milk or clear water and immediately contact a health professional. If your vehicle overturns, it may leak gasoline which is extremely flammable. Flames or sparks may ignite the gasoline, which will not only destroy the vehicle but also could do serious property damage to surrounding property and cause serious injuries or even death.

**DISPOSE OF UNWANTED GASOLINE PROPERLY. DO NOT DUMP IT INTO STORM DRAINS, SINKS OR TOILETS.  
KEEP GASOLINE AWAY FROM CHILDREN.**



### Hot components



WARNING: THE ENGINE AND ALL PARTS OF THE EXHAUST SYSTEM, AS WELL AS THE BRAKING SYSTEM, BECOME VERY HOT AND REMAIN HOT FOR SOME TIME AFTER THE MOTORCYCLE AND THE ENGINE ARE STOPPED. BEFORE HANDLING ANY COMPONENT OF YOUR MOTORCYCLE AFTER RIDING, ENSURE THAT IT HAS COOLED SUFFICIENTLY TO BE SAFE TO HANDLE.

### High voltage cable



WARNING: STARTING THE ENGINE, WHILE KEEPING IN YOUR HANDS THE HIGH VOLTAGE CABLE DISCONNECTED FROM THE SPARK PLUG, IS EXTREMELY DANGEROUS.

### Cooling fan



WARNING: KEEP YOUR FINGERS AND OTHER BODY PARTS, AS WELL AS ANY OTHER OBJECT, WELL CLEAR OF THE COOLING FAN WHEN THE ENGINE IS RUNNING. FAILURE TO OBSERVE THIS WARNING CAN DAMAGE YOUR ENGINE, AS WELL AS CAUSE SERIOUS INJURY TO YOU.

### Rear wheel



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**WARNING:** BE VERY CAREFUL TO KEEP YOUR FINGERS, ALL YOUR OTHER BODY PARTS, AND ANY OBJECT WELL CLEAR OF THE REAR WHEEL WHILE THE ENGINE IS RUNNING AND THE VEHICLE IS RESTING ON ITS STAND. FAILURE TO OBSERVE THIS WARNING CAN LEAD TO SERIOUS PERSONAL INJURY, AS WELL AS DAMAGE TO YOUR ENGINE.

### **Shock-absorbers**



**WARNING:** DO NOT DISASSEMBLE THE FRONT AND REAR SHOCK-ABSORBER. THE SHOCK-ABSORBERS HAVE PRELOADED SPRINGS. DISASSEMBLY CAN CAUSE SERIOUS INJURY AND EVEN DEATH.

### **Brake fluid**



**WARNING:** BRAKE FLUID IS EXTREMELY POISONOUS. NEVER ALLOW BRAKE FLUID TO BE INGESTED OR SWALLOWED. SHOULD BRAKE FLUID ACCIDENTALLY BE SWALLOWED, DRINK LARGE QUANTITIES OF MILK OR PURE WATER AND IMMEDIATELY SEEK PROFESSIONAL MEDICAL ASSISTANCE. BRAKE FLUID IS HIGHLY DESTRUCTIVE TO SKIN AND EYE TISSUE. SHOULD YOU ACCIDENTALLY SPILL BRAKE FLUID ON YOURSELF, REMOVE THE CONTAMINATED CLOTHING, WASH YOUR BODY WITH SOAP AND WARM WATER IMMEDIATELY AND SEEK PROFESSIONAL MEDICAL ASSISTANCE. SHOULD YOU ACCIDENTALLY SPLASH BRAKE FLUID INTO YOUR EYES, FLUSH WITH A LARGE QUANTITY OF COOL, CLEAR WATER AND IMMEDIATELY SEEK PROFESSIONAL MEDICAL ASSISTANCE. KEEP BRAKE FLUID AWAY FROM CHILDREN.

### **Battery hydrogen gas and electrolyte**



**WARNING:** VEHICLE BATTERIES GIVE OFF NOXIOUS AND EXPLOSIVE GASES; KEEP CIGARETTES, FLAMES AND SPARKS AWAY FROM THE BATTERY. PROVIDE ADEQUATE VENTILATION WHEN OPERATING OR RECHARGING THE BATTERY. DURING RECHARGING OR USE, MAKE SURE THAT THE ROOM IS PROPERLY VENTILATED AND AVOID INHALING THE GASES RELEASED DURING THE RECHARGING. THE BATTERY CONTAINS SULPHURIC ACID (ELECTROLYTE). CONTACT WITH THE SKIN OR EYES MAY CAUSE SERIOUS BURNS. ALWAYS WEAR PROTECTIVE CLOTHING, RUBBER GLOVES, AND TIGHT FITTING GOGGLES OR A FACE SHIELD WHEN WORKING AROUND THE BATTERY, ESPECIALLY WHEN FILLING THE BATTERY WITH EITHER WATER OR ELECTROLYTE. IN CASE OF CONTACT WITH THE SKIN, FLUSH IMMEDIATELY WITH PLENTY OF WATER. IN CASE OF CONTACT WITH THE EYES, FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IMMEDIATELY CONSULT A HEALTH PROFESSIONAL. THE ELECTROLYTE IS POISONOUS. IF THE ELECTROLYTE IS ACCIDENTALLY SWALLOWED, DRINK LARGE QUANTITIES OF WATER OR MILK AND THEN FOLLOW WITH MAGNESIA, BEATEN EGG OR VEGETABLE OIL. IMMEDIATELY CONSULT A HEALTH PROFESSIONAL. KEEP AWAY FROM CHILDREN.

**Reporting of defects that affect safety**



**WARNING:** BEFORE STARTING THE ENGINE, CAREFULLY READ THIS MANUAL AND IN PARTICULAR THE CHAPTERS "PERSONAL SAFETY - ENVIRONMENTAL RESPECT - VEHICLE SAFETY". YOUR SAFETY AND THAT OF THOSE AROUND YOU DEPENDS NOT ONLY ON YOUR SKILL AS A RIDER, BUT ALSO YOUR KNOWLEDGE ABOUT YOUR MOTORSCOOTER AND ABOUT RIDING SAFELY. THEREFORE, IT IS ESSENTIAL THAT YOU DO NOT OPERATE YOUR VEHICLE ON PUBLIC STREETS UNTIL YOU HAVE RECEIVED INSTRUCTIONS FROM A QUALIFIED SAFETY ORGANIZATION SUCH AS THE MOTORCYCLE SAFETY FOUNDATION, AND ARE PROPERLY TRAINED AND LICENSED.

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#### REPORTING OF DEFECTS THAT AFFECT SAFETY

If you believe that your motor scooter has a defect which could cause an accident or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Piaggio by calling toll free 1-877-2-PIAGGIO (1-877-274-2444). If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of motor scooters, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your Dealer, or Vespa/Piaggio. To contact NHTSA, you may either call the Auto Safety Hotline toll free at 1-800-424-9393 (or 366-0123 in the Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590.

You can also obtain other information about motorcycle safety from the Hotline.

#### Road regulations and use of the motor scooter

Rules of the road vary from country to country or state to state. It is essential that you understand in advance the rules of the road of the country or of the state in which your vehicle will be used.



**WARNING: THIS MOTORSCOOTER HAS BEEN DESIGNED AND PRODUCED FOR USE ON EVEN AND PAVED ROADS OR SURFACES ONLY. DO NOT USE THE MOTORSCOOTER ON UNPAVED SURFACES, IN ORDER TO AVOID OVERTURNING OR OTHER ACCIDENTS.**



**WARNING: PIAGIO RECOMMENDS YOU NOT TO RIDE YOUR MOTORSCOOTER ON STATE OR NATIONAL HIGHWAYS, FREEWAYS OR EXPRESSWAYS.**

**Noise emission warranty**



Plaggio warrants that this exhaust system, at the time of sale, meets all applicable U.S. EPA Federal noise standards. This warranty covers the first person who buys this exhaust system for purposes other than resale, and to all subsequent buyers.

Warranty claims should be directed to:

Plaggio USA, Inc. 140 East 45th Street, 17th Floor New York, NY 10017

### Origin of the emissions

The combustion process produces carbon monoxide and hydrocarbons. The control of hydrocarbons is very important, because under certain conditions they react to exposure to sunlight and produce photochemical smog. Carbon monoxide does not react in the same way, but it is toxic and poisonous. Plaggio utilizes "lean" carburetor settings to reduce the production of carbon monoxide and hydrocarbons.

### Exhaust emission control system

The Exhaust Emission Control System requires "lean" carburetor settings and no adjustments should be made, except idle speed by means of the appropriate screw. The vehicle is equipped with a catalytic converter and a secondary air system (SAS) which supplies additional air into exhaust system to reduce air pollution.

### Crankcase emission control system

The engine is equipped with a closed crankcase system, in order to avoid discharging the crankcase emissions into the atmosphere. The blow-by gas is returned to the combustion chamber through the air cleaner and the throttle valve.

### Evaporative emission control system

The vehicles are equipped with an evaporative emission control system consisting of an activated carbon canister with the relevant pipes. This system prevents the escape of fuel vapours from the fuel tank.



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## Tampering



WARNING: TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED.  
FEDERAL LAW PROHIBITS THE FOLLOWING ACTS:

- A) REMOVAL OR RENDERING INOPERATIVE BY ANY PERSON OTHER THAN FOR PURPOSES OF MAINTENANCE, REPAIR, OR REPLACEMENT, ANY DEVICE OR ELEMENT OF DESIGN INCORPORATED INTO ANY NEW MOTORSCOOTER FOR THE PURPOSE OF NOISE CONTROL PRIOR TO ITS SALE OR DELIVERY TO THE ULTIMATE PURCHASER OR WHILE IT IS IN USE.
- B) USE OF THE MOTORSCOOTER AFTER SUCH DEVICE OR ELEMENT OF DESIGN HAS BEEN REMOVED OR RENDERED INOPERATIVE BY ANY PERSON, AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW:
  - A) REMOVAL OF, OR PUNCTURING THE MUFFLER, BAFFLES, HEADER PIPES OR ANY OTHER COMPONENT WHICH CONDUCTS EXHAUST GASES.
  - B) REMOVAL OR PUNCTURING OF ANY PART OF THE INTAKE SYSTEM.
  - C) LACK OF PROPER MAINTENANCE.
  - D) REPLACEMENT OF ANY MOVING PART OF THE MOTORSCOOTER, OR PARTS OF THE EXHAUST OR INTAKE SYSTEM, WITH PARTS OTHER THAN THOSE SPECIFIED BY PIAGGIO.



WARNING: THE VEHICLE SHOULD BE CHECKED FOR REPAIR OR REPLACEMENT IF THE MOTORSCOOTER NOISE HAS INCREASED SIGNIFICANTLY THROUGH USE. OTHERWISE, THE OWNER MAY BECOME SUBJECT TO PENALTIES UNDER STATE

**AND LOCAL ORDINANCES.**



**CAUTION: IT IS STRICTLY FORBIDDEN TO MODIFY ANY PART OR FEATURE OF YOUR FLY 150 MOTORSCOOTER TO INCREASE THE HORSE POWER OR PERFORMANCE. ANY SUCH MODIFICATION IS STRICTLY ILLEGAL. FURTHER, SERIOUS DAMAGE MAY BE DONE TO YOUR MOTOR-SCOOTER, WORSE, ANY SUCH MODIFICATIONS MAY MAKE YOUR MOTORSCOOTER UNSAFE, WHICH COULD LEAD TO AN UPSET OR ACCIDENT, WITH CONSEQUENT SERIOUS INJURY OR EVEN DEATH. FURTHER, ANY SUCH MODIFICATION WILL IMMEDIATELY AND COMPLETELY VOID THE WARRANTY. PLEASE CONSULT YOUR FRANCHISED PIAGGIO DEALER TO DETERMINE WHAT ACCESSORIES MAY BE INSTALLED ON YOUR FLY 150 WITHOUT CHANGING THE PERFORMANCE OR VOIDING THE WARRANTY.**

**Problems that may affect the motorscooter emissions**

If any of the following symptoms are observed, immediately have your motorscooter inspected and repaired by Authorized Piaggio Service Center:

- Symptoms:
- Difficulty starting or stalling after starting.
  - Irregular idle.
  - Misfiring or backfiring during acceleration.
  - After-burning (backfiring).
  - Poor engine performance, degraded handling, or poor fuel economy.

**Protective clothing**

For your safety, we strongly recommend that you always wear an approved motorcycle helmet, eye protection, boots, gloves, long pants, and a long-sleeved shirt or jacket whenever you ride. Although complete protection is not possible, wearing proper gear can reduce the chance of injury. See your PIAGGIO Dealer for stylish, comfortable and effective riding gear suggestions.

**Helmet**

Your helmet should be worn against the forehead and back of the head. The helmet should be properly fitted. Transporting the helmet in a car without goggles is prohibited.

**Additional**

In addition to the following, you should also wear:

- Properly fitted and maintained shoes.
- Leather riding pants.
- A motorcycle jacket.

Brightly colored clothing is recommended to avoid being overlooked.

### **Helmets and eye protection**

Your helmet is your most important piece of riding gear because it offers the best protection against head injuries. A helmet should fit your head comfortably and securely. A brightly colored helmet can make you more noticeable in traffic, as can reflective strips. An open-face helmet offers some protection, but a full-face helmet offers more. Always remember to properly fasten your crash helmet. Regardless of the style, look for a DOT (Department of Transportation) sticker in any helmet you buy (USA only), and always wear a face shield or goggles to protect your eyes and help your vision.

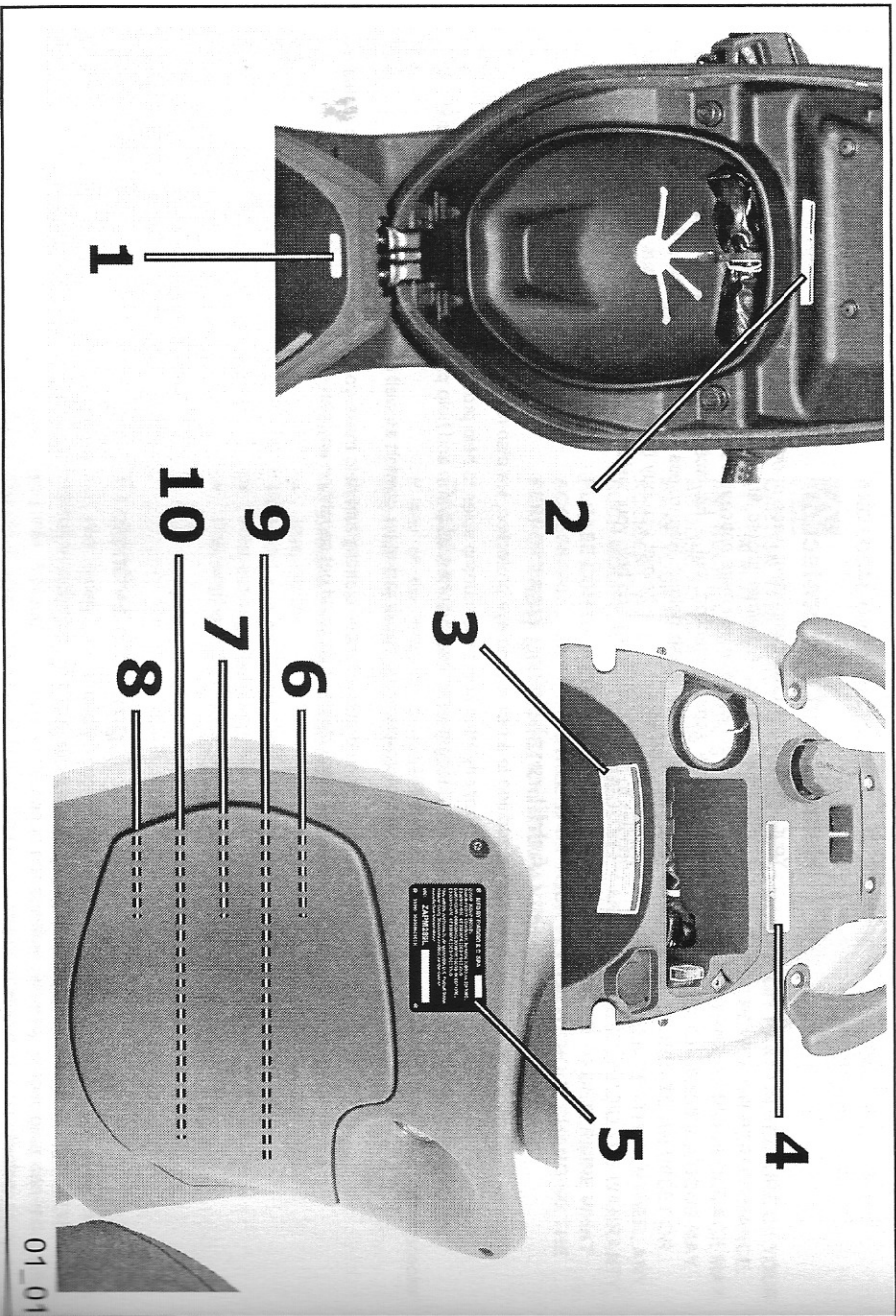
### **Additional riding gear**

In addition to a helmet and eye protection, we also recommend:

- Properly fitted boots with nonslip soles to help protect your feet and ankles
- Leather gloves to keep your hands warm and help prevent blisters, cuts, burns and bruises
- A motorcycle riding suit or jacket for comfort as well as protection.

Brightly colored and reflective clothing can help make you more noticeable in traffic. Be sure to avoid loose clothes that could get caught on any part of your motorcycle.





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**WARNING!**

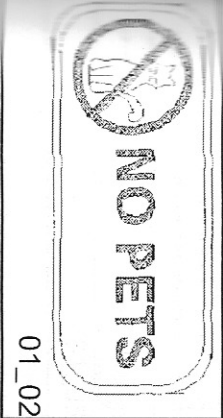
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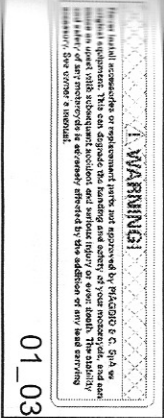
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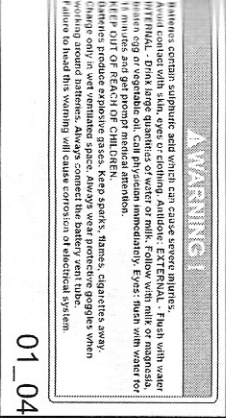
01\_02

Position of the warning labels (01\_01)  
Label 1 (01\_02)



01\_03

Label 2 (01\_03)



01\_04

Label 3 (01\_04)

1 General rules

**! WARNING!**

PER INFORMAZIONI, LEGGERE IL LIBRO INSTRUZIONI. PER INFORMAZIONI SULLE MODIFICHE, LEGGERE IL LIBRO INSTRUZIONI. PER INFORMAZIONI SULLA MANUTENZIONE, LEGGERE IL LIBRO INSTRUZIONI. PER INFORMAZIONI SULLA MANUTENZIONE, LEGGERE IL LIBRO INSTRUZIONI.

01\_05

Label 4 (01\_05)

**MFD BY PIAGGIO & C. SPA**

GAVWR 311KG (686LB)  
 GAVWR FRONT 91KG(200LB) WITH 12070-12 59P TIRE,  
 E3.50X12 RIM, AT 180 KPA (26.1 PSI) COLD  
 GAVWR REAR 220KG(485LB) WITH 12070-12 59P TIRE,  
 E3.50X12 RIM, AT 230 KPA (33.4 PSI) COLD

This vehicle conforms to all applicable U.S. Federal Motor Vehicle Safety Standards in effect on the date of manufacture shown above

VIN: **ZAPM428F**

TYPE: MOTORCYCLE

01\_06

Label 5 (01\_06)

PIAGGIO & C. S.p.a. PONTEDERA, ITALY  
 IMPORTER: PIAGGIO USA Inc. NEW YORK, NY

**VEHICLE EMISSION CONTROL INFORMATION**

ENGINE MODEL: SP5000 500CC  
 EMISSIONS REGULATORY AGENCY: EPA AND  
 CALIFORNIA REGULATORY AGENCIES  
 CERTIFIED FOR USE IN STATES WHERE  
 EMISSIONS TESTING IS REQUIRED BY CALIFORNIA  
 ENGINE EMISSIONS CONTROL SYSTEM: EPA PHASE TWO  
 ENGINE TUNEUP SPECIFICATIONS @ 3500 RPM  
 FUEL/AIR RATIO: 14.7:1  
 FUEL SYSTEM: CARBURETOR  
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01\_07

Label 6 (01\_07)

**VEHICLE NOISE EMISSION CONTROL INFORMATION**

THIS VEHICLE MOTORCYCLE 645749 MEETS EPA NOISE EMISSION REQUIREMENTS OF 80 DBA AT 7125 RPM BY THE FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE PROHIBITED BY FEDERAL LAW.

01\_08

Label 7

**Hose Routing Diagram**

At Fuel Tank  
 A Fuel Filter  
 B Fuel Filter  
 C Carburetor  
 D 1-Way Fuel Control Valve  
 E Fuel Valve  
 F Carburetor  
 G Vacuum Operated Fuel Valve

01\_09

Label 8

**! WARNING!**

THIS VEHICLE MOTORCYCLE 645749 MEETS EPA NOISE EMISSION REQUIREMENTS OF 80 DBA AT 7125 RPM BY THE FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE PROHIBITED BY FEDERAL LAW.

1.1 km/h (0.7 mph)	136/6 (73.5 dB)
1.6 km/h (1.0 mph)	137/6 (73.8 dB)
2.1 km/h (1.3 mph)	138/6 (74.1 dB)

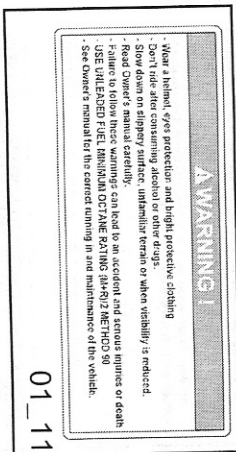
01\_10

Label 9

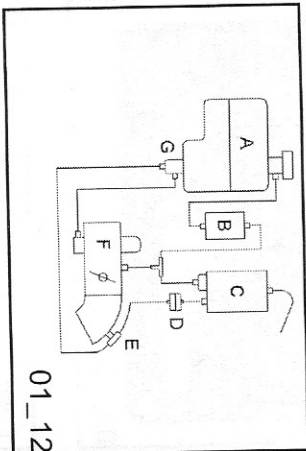








Label 10 (01\_11)



01\_12

**California evaporative emission system (01\_12)**

- A) Fuel tank
- B) 2-Way & Roll-Over valve
- C) Canister
- D) 1-Way purge control valve
- E) Purge valve
- F) Carburetor
- G) Vacuum operated fuel valve

**Your warranty rights and obligations**

The California Air Resources Board, (California motorcycles only), the U.S. Environmental Protection Agency and Piaggio USA Inc. (hereinafter Piaggio), are pleased to explain the emission control system warranty on your motorcycle. All vehicles sold in the U.S.A. must meet strict anti-smog regulations. In addition, in California new motor vehicles must be designed, built and equipped to meet the States' stringent anti-smog standards. All of Piaggio's motorcycles meet the requirements of the U.S. EPA and, as appropriate, the California regulations. Piaggio must warrant the emission control system on your motorcycle for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your motorcycle.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converter and engine computer. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Piaggio will repair your motorcycle at no cost to you, including diagnosis, parts and labor.

**Manufacturer's warranty coverage**

- Class Ia motorcycle or motorscooter (0-50 cc): for a period of use of five (5) years or 3,728 miles (6,000 kilometers), whichever first occurs.
  - Class Ib motorcycle or motorscooter (50-169 cc): for a period of use of five (5) years or 7,456 miles (12,000 kilometers), whichever first occurs.
  - Class II motorcycle or motorscooter (170 to 279 cc): for a period of use of five (5) years or 11,185 miles (18,000 kilometers), whichever first occurs.
  - Class III motorcycle or motorscooter (280 cc and larger): for a period of use of five (5) years or 18,641 miles (30,000 kilometers), whichever first occurs.
- If an emission-related part on your motorcycle is defective, the part will be repaired or replaced by Piaggio. This is your emission control system DEFECTS WARRANTY.

**Owner's warranty responsibilities**

As the motorcycle owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Piaggio recommends that you retain all receipts covering maintenance on your motorcycle, but Piaggio cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your motorcycle to a Piaggio Dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the motorcycle owner, you should be aware that Piaggio may deny your warranty coverage if your motorcycle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact Piaggio USA, 440 Ninth Avenue, 11th Floor, New York, NY 10001 (212) 380-4400 or (for California registered motorcycle only), the California Air Resources Board at P. O. Box 8001, 9528 Teister Avenue, El Monte, CA 91734-8001.

**Piaggio USA, Inc. - Limited Warranty on Emission Control System**

Piaggio USA, Inc. 440 Ninth Avenue, 11th Floor, New York, NY 10001 (hereinafter "Piaggio") warrants that each new 2006 and later Piaggio motorcycle, that includes as standard equipment a headlight, taillight and stoplight, and is street legal:

- A) Is designed, built and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency, and the California Air Resources Board;
- B) Is free from defects in material and workmanship which cause such motorcycle to fail to conform with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for a period of use, depending on the engine displacement, of 7,456 miles (12,000 kilometers), if the motorcycle's engine displacement is less than 170 cubic centimeters; 11,185 miles (18,000 kilometers), if the motorcycle's engine displacement is equal or greater than 170 cubic centimeters but less than 280 cubic centimeters; or of 18,641 miles (30,000 kilometers), if the motorcycle's engine displacement is 280 cubic centimeters or greater; or 5 (five) years from the date of initial retail delivery, depending whichever first occurs.

**I - Coverage.**

Warranty defects shall be remedied during customary business hours at any authorized Piaggio motorcycle dealer located within the United States of America in compliance with the Clean Air Act and applicable regulations of the United States Environmental Protection Agency and the California Air Resources Board. Any part or parts replaced under this warranty shall become the property of Piaggio.

- In the State of California only, emission related warranted parts are specifically defined by the state's Emission Warranty Parts List. These warranted parts are: carburetor and internal parts; intake manifold; fuel tank; fuel injection system; spark advance mechanism; crankcase breather; air cutoff valves; fuel tank cap for evaporative emission controlled vehicles; oil filler cap; pressure control valve; fuel/vapor separator; canister; igniters; breaker governors;

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- (5) use in

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ignition coils; ignition wires; ignition points; condensers and spark plugs if failure occurs prior to the first scheduled replacement; and hoses, clamps, fittings and tubing used directly in these parts. Since emission related parts may vary from model to model, certain models may not contain all of these parts and certain models may contain models may contain functionally equivalent parts.

- In the state of California only, Emission Control System emergency repairs, as provided for in the California Administrative Code, may be performed by other than an authorized Piaggio dealer. An emergency situation occurs when an authorized Piaggio Dealer is not reasonable available, a part is not available within 30 days, or a repair is not complete within 30 days. Any replacement part can be used in an emergency repair. Piaggio will reimburse the owner for the expenses, including diagnosis, not to exceed Piaggio suggested retail price for all warranted parts replaced and labor charges based on Piaggio's recommended time allowance for the warranty repair and the geographically appropriate hourly labor rate. The owner may be required to keep receipts and failed parts in order to receive compensation.

## II - Limitations

This Emission Control System Warranty shall not cover any of the following:

A. Repair or replacement as a result of

- (1) accident;
- (2) misuse;
- (3) repairs improperly performed or replacements improperly installed;
- (4) use of replacement parts or accessories not conforming to Piaggio specifications which adversely affect performance;
- (5) use in competitive racing or related events.

B. Inspections, replacement of parts and other services and adjustments required for required maintenance.

C. Any motorcycle on which the odometer mileage has been changed so that actual mileage cannot be readily determined.



**III – Limited liability**

A. The liability of Piaggio under this Emission Control System Warranty is limited solely to the remedying of defects in material or workmanship by an authorized Piaggio motorcycle dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the motorcycle or transportation of the motorcycle to or from the Piaggio Dealer.

PIAGGIO SHALL NOT BE LIABLE FOR ANY OTHER EXPENSES, LOSS OR DAMAGE, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY ARISING IN CONNECTION WITH THE SALE OR USE OF OR INABILITY TO USE THE PIAGGIO MOTORCYCLE FOR ANY PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

B. NO EXPRESS EMISSION CONTROL SYSTEM WARRANTY IS GIVEN BY PIAGGIO EXCEPT AS SPECIFICALLY SET FORTH HEREIN. ANY EMISSION CONTROL SYSTEM WARRANTY IMPLIED BY LAW, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE EXPRESS EMISSION CONTROL SYSTEM WARRANTY TERMS STATED IN THIS WARRANTY. THE FOREGOING STATEMENTS OF WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

C. NO DEALER IS AUTHORIZED TO MODIFY THIS PIAGGIO LIMITED EMISSION CONTROL SYSTEM WARRANTY.

**IV - Legal rights**

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

**V - This warranty is in addition to the piaggio limited motorscooter warranty.**

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**VI - Ad**

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Importer

THIS WARRANTY IS IN ADDITION TO THE PIAGGIO LIMITED MOTORCYCLE WARRANTY.

<sup>1</sup> General rules

### **VI - Additional information**

Any replacement part that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. However, Piaggio is not liable for these parts. The owner is responsible for the performance of all required maintenance. Such maintenance may be performed at a service establishment or by any individual. The warranty period begins on the date the motorcycle is delivered to an ultimate purchaser.

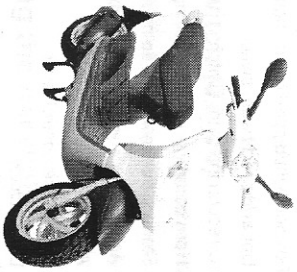
**Manufacturer:** Piaggio & C. SpA Viale Rinaldo Piaggio, 25 - 56025 Pontederà (PISA) Italy

**Importer:** Piaggio USA, Inc. 440 Ninth Ave, 11th Floor New York, NY 10001

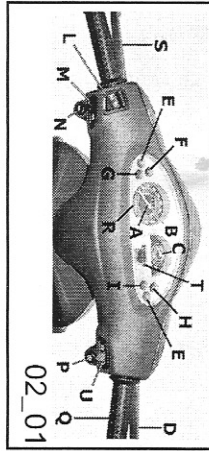
# FLY 150



PIAGGIO

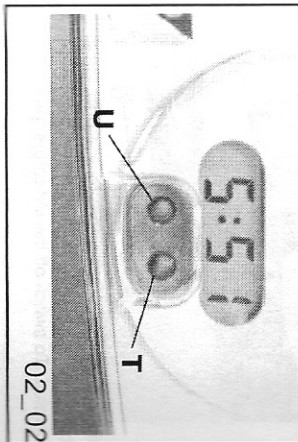


Chap. 02  
Vehicle

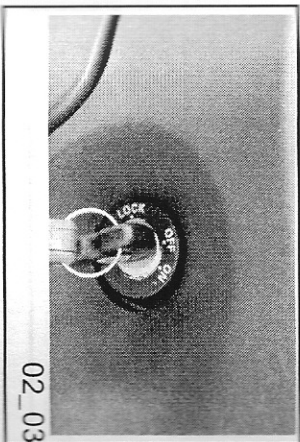


**Dashboard (02\_01)**

- A = Tachometer
- B = Odometer
- C = Fuel level indicator
- D = Front brake control lever
- E = Direction indicator light
- F = Oil pressure indicator
- G = Upper beam indicator
- H = Fuel reserve indicator
- I = Position light/dipped beam indicator
- L = Upper/dipped beam switch
- M = Direction indicator switch
- N = Horn button
- P = Start-up button
- Q = Accelerator control
- R = Anti theft LED
- S = Rear brake control lever
- T = Digital clock
- U = Emergency engine stop switch



02\_02



02\_03

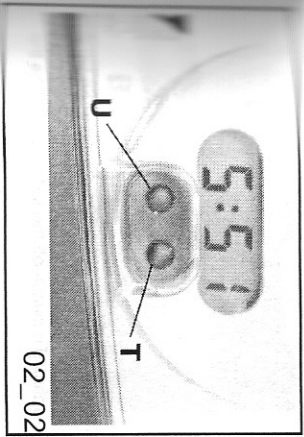
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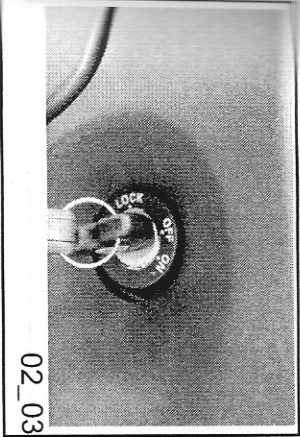




### Clock (02\_02)

It is located on the dashboard, and it directly displays hours and minutes counting 1 to 12, A or P. Press the function selection button «U» to display month, day and seconds besides hours and minutes. To adjust the above functions, press button «T». The digital clock is battery-powered (the battery life is about 2 years). To replace the battery, raise the instrument unit. We recommend having an **Authorised Piaggio Service Centre** perform this operation.

**USED BATTERIES ARE HARMFUL FOR THE ENVIRONMENT. TAKE USED BATTERIES TO YOUR NEAREST COLLECTION POINT FOR DISPOSAL AS PRESCRIBED BY LAW.**



### Key switch (02\_03)

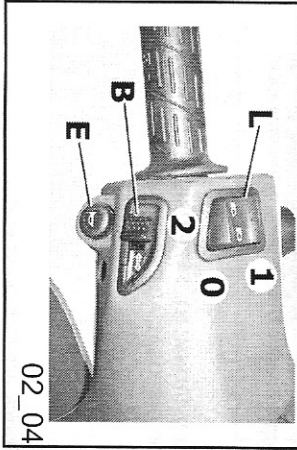
**LOCK** = Ignition off, key may be removed, mechanical anti-theft device enabled.  
**OFF** = Ignition off, key may be removed, mechanical anti-theft device disabled.  
**ON** = Ready to start, non-extractable key, mechanical anti-theft device disabled.

### Locking the handlebar

Turn the handlebar leftwards (to the end of the stroke), turn the key to «**LOCK**» and remove it.



**CAUTION: DO NOT TURN THE KEY TO «LOCK» OR «OFF» WHILE RIDING. IF YOU ATTEMPT TO TURN THE KEY TO «LOCK», THE HANDLEBAR WILL LOCK IN ONE POSITION. IF YOU ATTEMPT TO TURN THE KEY TO «OFF», THE ENGINE WILL IMMEDIATELY STOP. IN BOTH CASES YOU WILL LOSE CONTROL AND A SERIOUS ACCIDENT CAN HAPPEN, LEADING TO INJURY OR EVEN DEATH.**

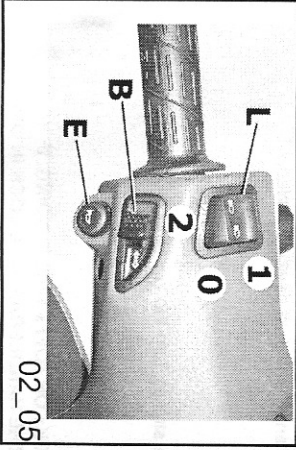


**Releasing the handlebar**

Insert the key and turn it to «OFF».

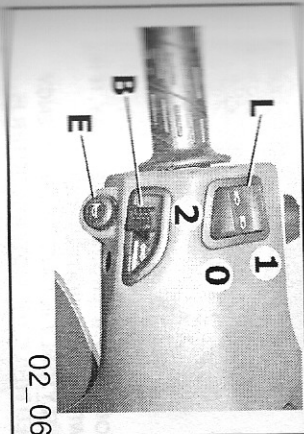
**Turn signal selector. (02\_04)**

To activate the left hand turn indicators, press the selector «B» to the left, for the right hand turn indicators, press it to the right. The selector automatically returns to the centre position when released and the turn indicators remain activated. To switch off the indicators, press the selector in.

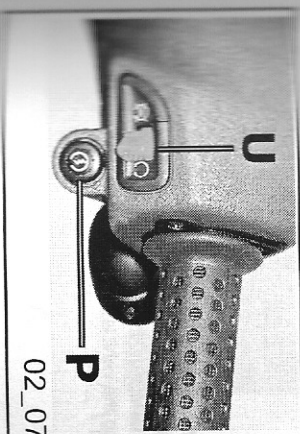


**Horn button (02\_05)**

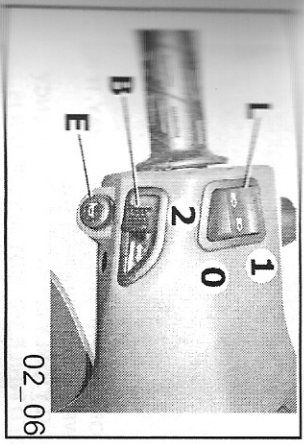
Press to hoot the horn «E».



**Light :**  
 0 = Dipped  
 1 = Upper  
 2 = Passi

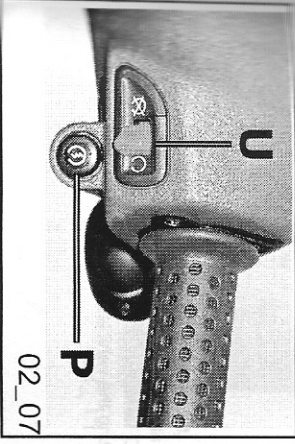


**Start-**  
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**Light switch (02\_06)**

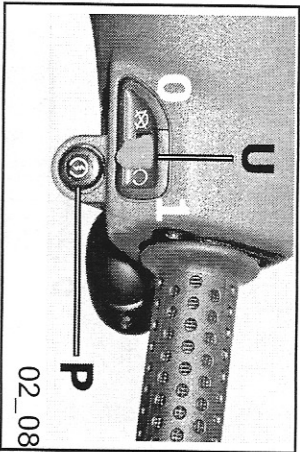
- 0 = Dipped beam
- 1 = Upper beam
- 2 = Passing (flashing)



**Start-up button (02\_07)**

Pull the front or rear brake lever, then press the starter button «P» to start the engine.





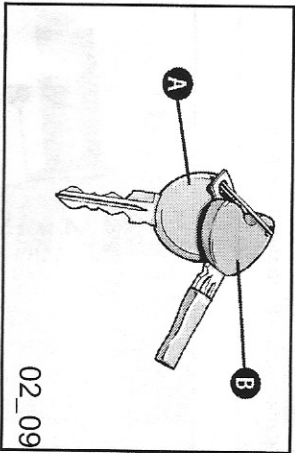
02\_08

### Engine stop switch (02\_08)

- 0 = OFF
- 1 = RUN



**CAUTION:** USE THE ENGINE STOP SWITCH ONLY IF THE ENGINE RUNS AWAY. IT IS FOR EMERGENCY USE ONLY. ONCE THE SWITCH IS ACTIVATED, YOUR MOTORSCOOTER WILL SLOW VERY ABRUPTLY. ONLY IN CASE OF EMERGENCY THE ENGINE STOP SWITCH SHOULD BE USED WHILE THE MOTORSCOOTER IS RUNNING.



02\_09

### The immobilizer system

To make theft of your scooter more difficult, it is provided with an electronic engine lock device, «PIAGGIO IMMOBILIZER», which is automatically enabled when the starter key is pulled out. In fact, upon start-up the «PIAGGIO IMMOBILIZER» system analyses the key for recognition, after which the System allows starting the vehicle.

### Keys (02\_09, 02\_10, 02\_11)

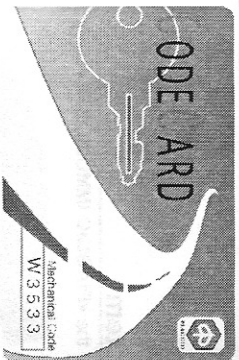
The vehicle is supplied with two keys. The red-grip key «A» is the «MASTER» key. It is supplied in a single copy and is used to store the code of the other keys, or for servicing at the concessionaires. It should therefore be used only in exceptional situations. The black key «B» (supplied in a single copy) is for normal use for:

- start-up
- opening the trunk

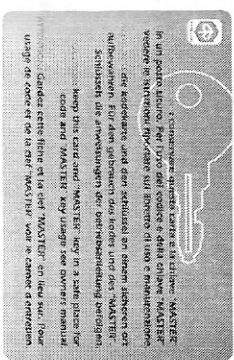
The keys are supplied with a **CODE CARD** showing the key mechanical code.

**N.B.**

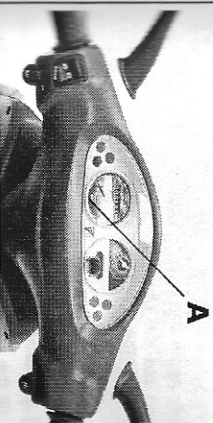
**LOSING THE RED KEY PREVENTS ANY REPAIRS OF THE "PIAGGIO IMMOBILIZER" SYSTEM AND OF THE ENGINE CONTROLLER.**



02\_10

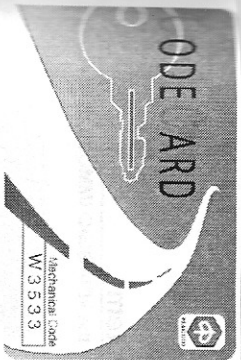


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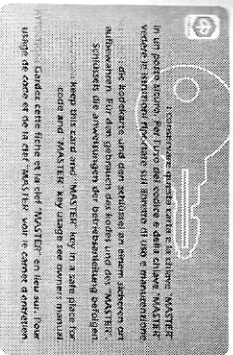


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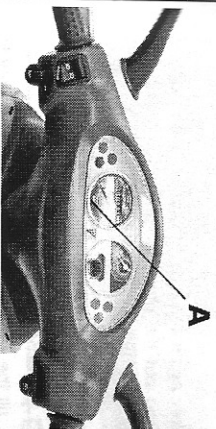
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02\_12

N.B.  
KEEP THE "CODE CARD" AND THE RED HANDGRIP KEY IN A SAFE PLACE (NOT ON YOUR VEHICLE).

### Immobilizer device LED (02\_12)

The enabling of the «PIAGGIO IMMOBILIZER» system is indicated by the flashing of a special led «A», (see «Analogue instrument panel»). To prevent discharging the battery, the led automatically turns off after about 48 hours of continuous operation. In the event of system failure, the indicator led informs the **Authorised Piaggio Service Centre** of the nature of the failure, based on the type of flashes emitted.

### Operation

Any time the key is positioned or removed from the «OFF» or «LOCK» position, the safety system enables the engine lock. Turning the key to «ON» disables the engine lock, provided that the safety system recognises the code transmitted by the key. If the code is not recognised, turn the key to «OFF» and then to «ON» again; if the lock cannot be disabled, try with the other key supplied (red coloured). If the engine cannot be started, contact an **Authorised Piaggio Service Centre**, which is provided with the electronic equipment required to detect and fix the system. The immobilizer also enables when the engine is stopped by the emergency stop switch. This also applies when the key is set to «ON». When additional keys are required, please note that storage (up to 3 keys max.) must be done on all keys, both new ones and existing ones. Contact an **Authorised Piaggio Service Centre**, bringing the red-handgrip key and all black keys you have. The codes of keys not submitted for the new storage procedure are deleted from the memory. Any lost keys will therefore not be enabled to start the engine.

N.B.

EACH KEY HAS ITS OWN AND UNIQUE CODE, WHICH MUST BE STORED BY THE SYSTEM CONTROLLER. VIOLENT SHOCKS MAY AFFECT THE ELECTRONIC COMPONENTS CONTAINED IN THE KEY. IF YOU SELL YOUR VEHICLE, PROVIDE THE RED HANDGRIP KEY, THE "CODE CARD" AND THE OTHER KEYS TO THE NEW

OWNER.

### Programming the immobilizer system

Below are the operations to be performed to program the «PIAGGIO IMMOBILIZER» system and/or store additional keys.

#### Procedure start - red key

Insert the red key in the key switch (to OFF) and turn it to ON. After 1 - 3 seconds, turn the key to OFF again and pull it out.

#### Intermediate step - black key

After pulling out the red key, insert the black key within 10 seconds and promptly turn it to «ON». After 1-3 seconds, turn the key to «OFF» again and pull it out. Repeating the above steps according to the times shown allows programming 3 black keys max.

#### Final step - red key

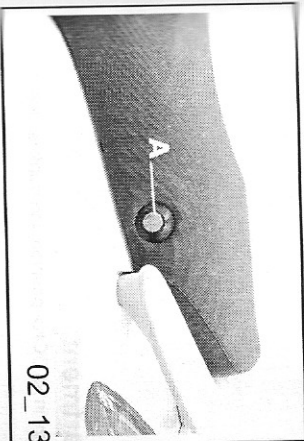
After pulling out the last black key, insert the red key again and turn it to «ON» (this operation should be performed within 10 seconds of pulling out the previous key). Wait about 1-3 seconds and return to «OFF», again.

#### Correct programming checking phase

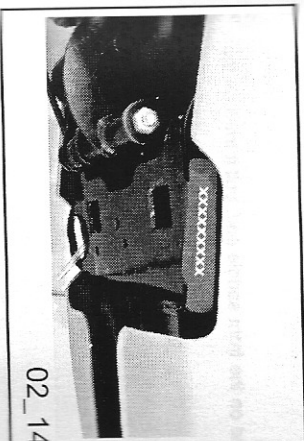
Insert the red key disabling the transponder (i.e., tilt the key cap by 90°) and turn the key to «ON». Perform the engine start-up operation. Check that the engine does not start. Insert the black key and repeat the start-up operation. Check that engine starts.

N.B.

SHOULD THE ENGINE START WITH THE RED KEY (WITH TRANSPONDER OFF), OR IN



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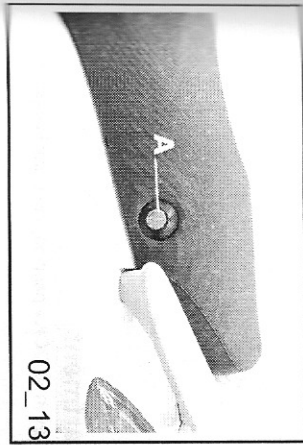


THE EVENT OF WRONG OPERATION DURING PROGRAMMING, REPEAT THE PROCEDURE FROM THE BEGINNING.

2 Vehicle

### Opening the saddle (02\_13)

Insert the key in lock «A», and rotate it clockwise. Tip the saddle forwards. After having tipped the saddle up, place the helmet as illustrated in figure.

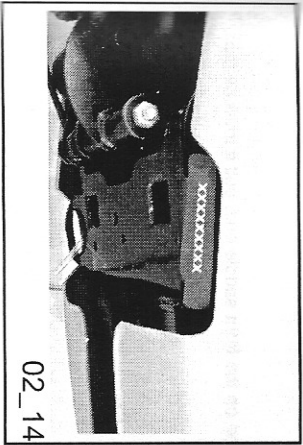


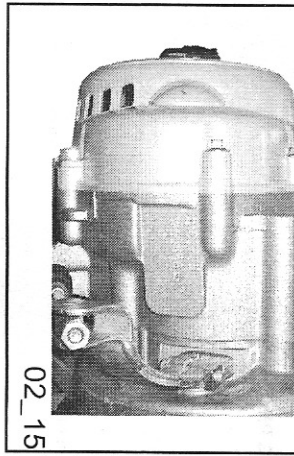
### The identification (02\_14, 02\_15)

The VIN, vehicle identification No. and engine No., consist of a prefix stamped on the chassis and engine respectively, followed by a number. These should always be indicated were ordering spare parts. We recommend to check that the vehicle identification number stamped on the vehicle, corresponds with that on the vehicle's documentation.

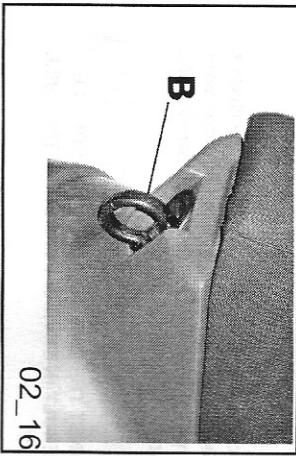
N.B.:

IN ALL STATES AND COUNTRIES, IT IS AGAINST THE LAW TO ALTER THE VEHICLE IDENTIFICATION NUMBER (VIN) AND CAN RESULT IN SEVERE PENALTIES. THIS WILL IMMEDIATELY INVALIDATE YOUR WARRANTY.





**Opening the front glove compartment**  
Turn the key to «OFF». Then, press it. With the key in «LOCK» position, the trunk is locked.



**Bag clip (02\_16)**  
To use the foldaway bag holder hook «B» located on the front saddle end, pull it towards the vehicle front.

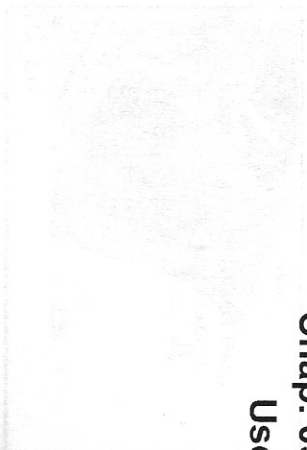
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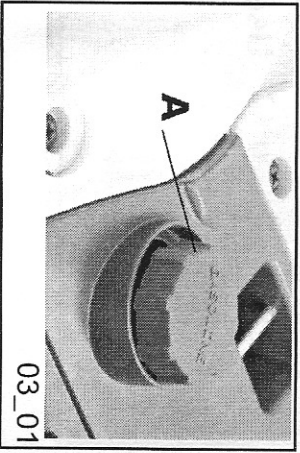


PIAGGIO®



Chap. 03  
Use





### Checks

Before using the vehicle, check:

1. The fuel in the gasoline tank.
2. The oil level in the rear hub.
3. The engine oil level
4. That the tires are correctly inflated.
5. That the headlight, tail light and direction indicators are in good working order.
6. That the front and rear brakes are in good working order.
7. The level in the brake fluid tank.



**WARNING:** ALWAYS INSPECT YOUR VEHICLE EACH TIME BEFORE YOU USE IT TO MAKE SURE THAT IT IS IN SAFE OPERATING CONDITION. ALWAYS FOLLOW THE INSPECTION AND MAINTENANCE SCHEDULED THAT ARE SHOWN IN THIS OWNER'S MANUAL. FAILURE TO DETECT A DANGEROUS MAINTENANCE CONDITION OR FAULT IN THE VEHICLE, CAN LEAD TO A SERIOUS ACCIDENT, INJURY OR EVEN DEATH.

### Refuelling (03\_01)

Fuel: open the port as described in section «Accessing the fuel tank» and open plug «A» Recommended fuel: unleaded gasoline with minimum octane rating (M+R)/2 Method 90. The fuel level is indicated by the analogue instrument «B».



**WARNING:** SWITCH OFF THE ENGINE BEFORE REFUELLING WITH PETROL. PETROL IS HIGHLY INFLAMMABLE. DO NOT SMOKE AND KEEP NAKED FLAMES AT A DISTANCE. FIRE HAZARD. DO NOT INHALE FUEL FUMES. DO NOT ALLOW PETROL TO COME INTO CONTACT WITH THE HOT ENGINE AND ANY PLASTIC PARTS.



**CAUTION:** GASOLINE DAMAGES THE PLASTIC PARTS OF THE BODYWORK.



**CAUTION:** NORMAL FUELING OF THE FUEL

**Characteristics**

Tank capacity 1.95 gal (in Reserve)  
0.4 gal = 1



**CAUTION:** FUEL CAN DAMAGE



**CAUTION:** FUEL OF THE EX



**CAUTION:** FUEL HAPPENS, REFUEL AND TO DAMAGE



**CAUTION:** THE DURABLE





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



CAUTION: USE OF NON-RECOMMENDED GASOLINE REDUCES THE EFFECTIVENESS OF THE EXHAUST AND FUEL SUPPLY SYSTEM.



CAUTION: DO NOT USE THE VEHICLE UNTIL ALL THE FUEL RUNS OUT; IF THIS HAPPENS, DO NOT PERSIST IN STARTING IT, PUT THE KEY SWITCH ON «OFF» AND REFUEL AS SOON AS POSSIBLE. FAILURE TO OBSERVE THESE RULES MAY LEAD TO DAMAGE TO THE PUMP AND/OR CATALYTIC CONVERTER.



CAUTION: USE OF OILS OTHER THAN THOSE RECOMMENDED MAY COMPROMISE THE DURATION OF THE ENGINE.



CAUTION: IT IS HIGHLY UNADVISABLE TO REFUEL USING METHODS OTHER THAN NORMAL FUEL PUMPS. IF PETROL IS NOT COMPLETELY CLEAN IT CAN DAMAGE THE FUEL SUPPLY SYSTEM FILTERS.

### Characteristic

#### Tank capacity.

1,95 gal (indicative value) ~ 7,4 lt (indicative value)

#### Reserve:

0,4 gal: ~ 1,5 Lt

### Tire pressure

Check the tire pressure and wear periodically around every 300 miles (500 km). The tires are equipped with a wear indicator and should be replaced as soon as these indicators become visible on the tread. Also check that there are no cuts on the sides of the tires or irregular tread wear; in this case refer to authorized garages or those equipped to replace the tires.



**WARNING: ENSURE, BEFORE EVERY RIDE, THAT YOUR TIRES ARE PROPERLY INFLATED. USE OF UNDERINFLATED, OVERINFLATED OR IMPROPER TIRES, CAN CAUSE A REDUCTION IN A CONTROLLABILITY OR EVER LOSS OF CONTROL OF YOUR VEHICLE. THIS CAN, OF COURSE, LEAD TO A SERIOUS ACCIDENT WITH POTENTIAL SERIOUS INJURY OR EVEN DEATH. USE ONLY THE TYPE AND SIZE OF TIRES RECOMMENDED IN THIS OWNER'S MANUAL.**

#### Characteristic

**Tire pressure (front wheel)**

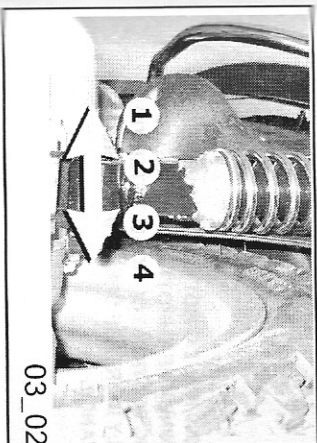
26.1 psi: (1.8 bar)

**Tire pressure (rear wheel)**

29 psi: (2 bar)

**Tire pressure (rear wheel driver and passenger)**

33.4 (psi): 2.3 bar



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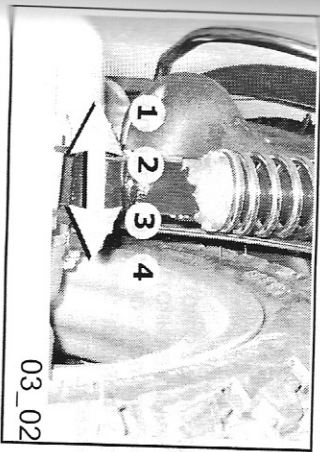
**WARN**

**OPERA**



**WARN**

**TWO B**



### Shock absorber adjustment (03\_02)

The preloading of the springs can be adjusted in 4 positions by working on the ring nut located in the lower part of the shock absorbers, using the specific spanner supplied.

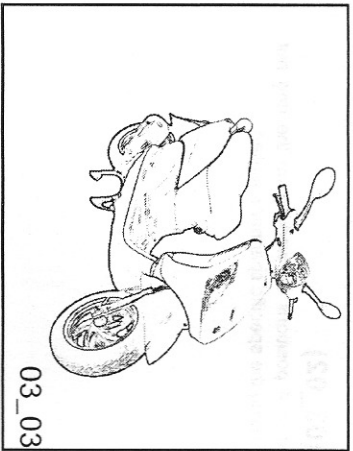
- **Minimum preloading**
- Position 1: only driver
- **Medium preloading**
- Position 2: driver and baggage
- **Medium preloading**
- Position 3: driver and passenger
- **Maximum preloading**
- Position 4: driver, passenger and baggage

To make it easier it is possible to use the shock absorber wrench with the spark plug wrench.

**WARNING: USING THE VEHICLE WITH THE INCORRECT SPRING PRELOADING FOR THE WEIGHT OF THE DRIVER AND ANY PASSENGER CAN REDUCE RUNNING COMFORT AND DRIVING PRECISION.**

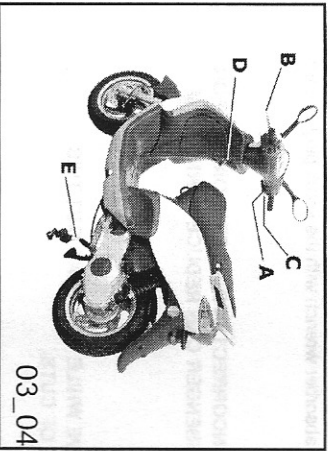
**WARNING: WE RECOMMEND USING A GLOVE WHILE CARRYING OUT THIS OPERATION IN ORDER TO AVOID THE RISK OF CUTS.**

**WARNING: IT IS COMPLETELY INADVISABLE TO ADJUST THE PRELOADING ON THE TWO SHOCK ABSORBERS DIFFERENTLY.**



### Running-In (03\_03)

**CAUTION:** DURING THE FIRST 600 MILES (1000 KM), DO NOT USE THE VEHICLE AT OVER 80% OF ITS MAX SPEED. AVOID OPENING THE THROTTLE COMPLETELY AND KEEPING A CONSTANT SPEED ALONG LONG SECTIONS OF ROAD. AFTER THE FIRST 600 MILES (1000 KM), PROGRESSIVELY INCREASE SPEED, IF POSSIBLE, UNTIL REACHING THE MAXIMUM PERFORMANCE.



### Starting the engine (03\_04)

Your vehicle is equipped with a direct drive automatic transmission, so the throttle must be set to idle during starting; accelerate gradually to start. The scooter is also equipped with an automatic choke that automatically start as the engine is started. Before pressing starter button «A» pull the rear brake lever «B» or front brake lever «C» which acts on a specific starting enable switches.

1. Rest the vehicle on the central stand «E» making sure that the rear wheel is raised from the ground.
2. Keep the throttle at minimum.
3. Insert the ignition key into ignition switch «D» and turn it to the «ON» position.
4. Pull lever «C» of the front brake or «B» of the rear brake, then press the starter button «A».



**WARNING:** THE AUTOMATIC TRANSMISSION ROTATES THE REAR WHEEL EVEN WHEN THE THROTTLE IS TURNED VERY SLIGHTLY. RELEASE THE BRAKE CAUTIOUSLY AFTER STARTING, BEING CAREFUL TO ACCELERATE GRADUALLY.



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WARNING: NEVER ATTEMPT TO START YOUR ENGINE WITH THE THROTTLE IN THE OPEN POSITION. THIS CAN LEAD TO RUNAWAY, WITH UPSET, AND SUBSEQUENT SERIOUS INJURY, OR EVEN DEATH.



WARNING: DO NOT START UP THE ENGINE IN CLOSED AREAS AS THE EXHAUST FUMES ARE HIGHLY TOXIC.

### Precautions



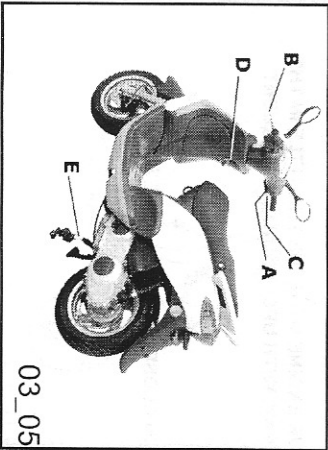
CAUTION: NEVER STRESS THE ENGINE AT LOW TEMPERATURES IN ORDER TO AVOID POSSIBLE DAMAGE. BE CAREFUL NEVER TO EXCEED THE MAXIMUM SPEED WHILE RUNNING DOWNHILL, IN ORDER TO AVOID DAMAGING THE ENGINE. IN ANY CASE, IN ORDER TO SAFEGUARD THE ENGINE INTACTNESS FROM PROLONGED EXCESSIVE REVS, THE REVS LIMITER WILL INTERVENE IF THE ENGINE SPEED EXCEEDS THE ESTABLISHED THRESHOLD.



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



CAUTION: ANY TAMPERING CAN LEAD TO SERIOUS ENGINE MALFUNCTIONS.



### Difficult starting (03\_05)

Possible causes for engine starting difficulties and suggested actions:

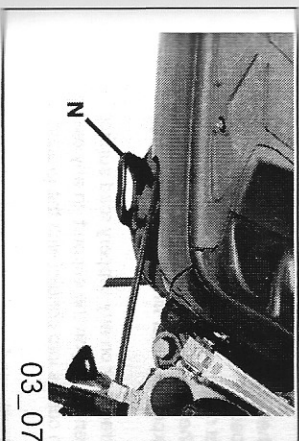
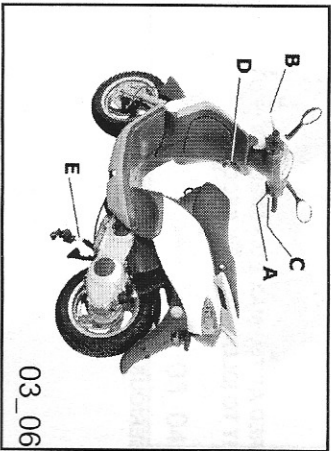
1. **Flooded engine.** Place the vehicle on the center stand and check that the rear tire is not touching the ground. Open the throttle fully and press the starter button for five seconds and then stop for five seconds. If the engine does not start after a few attempts, let the engine sit for a few minutes and then repeat the above operations. Do not keep the button pressed for more than 20 seconds when attempting to start the engine.
2. **Flat battery or faulty starter motor.** Rest the vehicle on the central stand «E» making sure that the rear wheel is raised from the ground and use kick-starter.
3. **Fuel tank empty.** Refuel. Start the engine, pressing the starter button «A» while keeping the throttle closed to generate maximum suction on the fuel line. If you are still not able to start the engine, contact an **Authorized Piaggio Service Center**.



**WARNING: ALWAYS PUT THE VEHICLE ON ITS STAND BEFORE KICK STARTING.**

### Stopping the engine (03\_06)

When the vehicle is stopped with the engine idling turn the ignition key «D» to «OFF» (key can now be extracted). Use the center stand to support the motor scooter while parked. Park the motor scooter on firm, level ground to prevent it from falling. Look the steering to help prevent theft.



### Anti

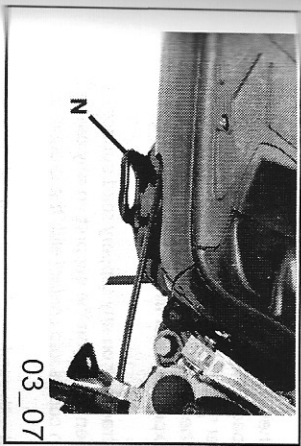
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### Antitheft (03\_07)

The ring «N» located on the left hand side of the motor scooter is to be used only to chain your motor scooter to a fixed object. Do not use it for any other purpose.

3 Use

### Automatic transmission

Your vehicle is equipped with an automatic transmission and centrifugal clutch to make your riding experience simple and pleasant. This system is designed to provide the best performance (acceleration and consumption) while driving on both flat roads and uphill. If you happen to stop on an uphill slope (traffic light, queue, etc.) only use the brake to keep the vehicle still, leaving the engine at idling speed. **Using the engine to keep the vehicle still, can in fact cause the clutch to overheat due to the rubbing of the clutch masses themselves on the capstan.** It is therefore best to avoid prolonged clutch slipping conditions, (in addition to that mentioned above) such as running up hill with a full load on steep slopes or starting up with driver and passenger on slopes of over 25%. Observe the following precautions if the clutch overheats:

1. Do not persist in this condition of use.
2. Let the clutch cool down with the engine at idling speed for a few minutes.

### Safe driving

Some simple pieces of advice follow that will enable you to use your vehicle daily, in relative safety and peace of mind. Your ability and your mechanical knowledge form the basis of safe driving. We recommend trying out the vehicle in traffic free zones, in order to acquire a good knowledge of the vehicle it self.



1. Before driving off, remember to put on your helmet and fasten it correctly.
2. Reduce speed and drive prudently on bad roads.
3. After having driven over a long section of wet roads without having used the brakes, the braking effect will initially be smaller. In these driving conditions it is best to activate the brakes periodically in order to expel the water film between disk and brake pads.
4. Do not brake hard on a wet surface, on dirt tracks or on any slippery road surface.
5. Avoid driving off by mounting the vehicle when resting on the support. In any case, the rear wheel should not be turning when it comes into contact with the ground, in order to avoid abrupt departures.
6. If the vehicle is often used on roads covered with sand, mud, snow and salt, etc., we recommend cleaning the brake disc frequently with a non-aggressive detergent in order to avoid the formation of abrasive buildups inside the holes leading to the consequent early wear of the brake pads.



**WARNING: ALWAYS DRIVE WITHIN THE LIMITS OF YOUR ABILITY. DRIVING WHILE DRUNK OR UNDER THE EFFECT OF DRUGS OR CERTAIN MEDICINES IS EXTREMELY DANGEROUS.**



**WARNING: DO NOT ADJUST THE MIRRORS WHILE DRIVING. THIS COULD CAUSE YOU TO LOSE CONTROL OF THE VEHICLE.**



**WARNING: ANY ELABORATION THAT MODIFIES THE VEHICLE'S PERFORMANCES, SUCH AS ANY ALTERATION TO ORIGINAL PARTS OF THE STRUCTURE RENDER THE VEHICLE NO LONGER CONFORMING TO THE APPROVED TYPE AND DANGEROUS FOR DRIVING SAFETY, AS WELL AS BEING PROHIBITED BY LAW.**



**WARNING: DO NOT PLACE ANYTHING INSIDE THE FRONT PART OF THE FAIRING BETWEEN THE HANDLEBAR AND THE DASHBOARD. ANY OBJECT PLACED IN THIS**

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**WARNING: NEVER TAKE YOUR HANDS OFF THE HAND GRIPS NOR YOUR FEET OFF THE FOOTREST WHILE YOU ARE RIDING. FAILURE TO DO THIS COULD UPSET THE STABILITY OF THE VEHICLE. BEFORE RIDING AWAY, MAKE SURE THAT THE STAND IS COMPLETELY UP. FAILURE TO FOLLOW THESE WARNINGS MAY CAUSE AN ACCIDENT WITH CONSEQUENT RISK OF SERIOUS INJURY OR EVEN DEATH.**

To ride away:

- Allow the throttle to return to idle, apply the rear brake, then remove the vehicle from the stand.
- Get on the vehicle, keeping at least one foot on the ground in order not to lose balance.
- Before driving, be sure that the rear view mirrors are correctly adjusted.



**CAUTION: WHEN THE VEHICLE IS NEW TO YOU, PRACTICE LOOKING IN THE REAR VIEW MIRRORS. ONLY EXPERIENCE WILL ALLOW YOU TO CORRECTLY DETERMINE THE EXACT LOCATION OF OTHER VEHICLES AND OBJECTS BEHIND YOU.**

- To begin, release the brake lever and accelerate by gently rotating the throttle grip; the vehicle will start moving.
- Ride at reduced speed for the first few miles in order to warm up the engine.



**WARNING: WHEN BRAKING, REDUCE THE THROTTLE AND APPLY BOTH BRAKES SIMULTANEOUSLY IN ORDER TO OBTAIN THE BEST BRAKE PERFORMANCE. BY APPLYING ONLY THE FRONT BRAKE OR ONLY THE REAR BRAKE, YOU REDUCE**

**THE BRAKING EFFICIENCY CONSIDERABLY, AND RUN THE RISK OF LOCKING UP ONE WHEEL. THIS CAN CAUSE AN UPSET AND SUBSEQUENT SERIOUS INJURY OR EVEN DEATH.**

Do not attempt to maintain your position on a hill by running the engine. This will very quickly destroy the transmission, and overheat the engine. Before entering a turn, slow the motor/scooter using the brakes, to a constant speed and then accelerate slightly through the turn. Avoid braking at the last moment. This can cause you to lose control of your vehicle. If the brakes are operated continuously on downhill grades, the discs and pads will overheat, reducing the braking efficiency. Use the brakes as little as possible to maintain a safe speed. Never coast downhill with the engine off.

Pay very close attention to any obstacles or variations of the road surface. Uneven roads, ralls, manhole covers, painted traffic stripes, traffic dots all become slippery when wet. Avoid particularly steel plates which are sometimes used during road maintenance. They become more slippery than ice once they are wet by rain. If you must ride on such surfaces, decrease your speed and operate the throttle, brakes and steering very gently.

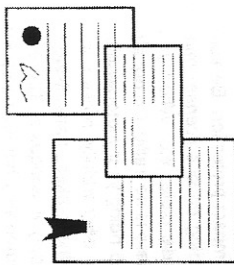
Always use the turn signals any time you intend to change lanes or change direction, and avoid sudden or abrupt turning.

Switch off the direction indicators as soon as you have changed direction.

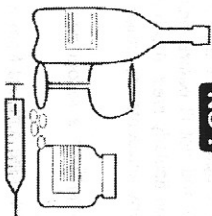
Overtake and pass with care, especially in rainy weather. A water cloud created by larger vehicles will reduce visibility and the slip stream could cause you to lose control of your vehicle.



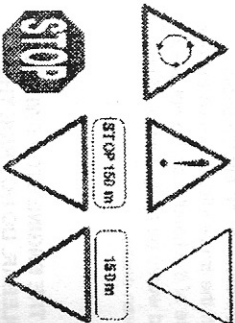
**TO PREVENT ACCIDENTS, BE VERY CAREFUL ABOUT ADDING ACCESSORIES AND LUGGAGE AND DRIVING. ADDING ACCESSORIES AND LUGGAGE MAY REDUCE THE STABILITY AND PERFORMANCE OF THE SCOOTER, AS WELL AS LOWER SAFETY LIMITS DURING USE. NEVER DRIVE A SCOOTER WITH ACCESSORIES FASTER THAN 100 Km/h. (SEE THE SECTION "SPARE PARTS AND**



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03\_10

**Basic**

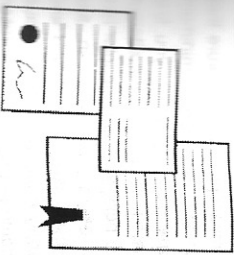
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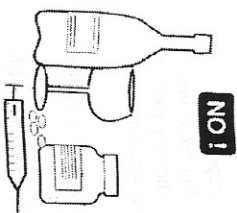
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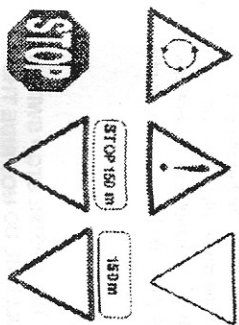


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NO!

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### Basic safety rules (03\_08, 03\_09, 03\_10)

- Before starting, put on an approved helmet and secure the straps correctly.
- Reduce speed on unsurfaced roads or uneven ground and exercise the maximum caution.
- Riding in the rain or on wet roads can cause the brakes of your motor scooter to become wet. When this happens, their effectiveness will be greatly reduced. In these conditions, gently activate the brakes regularly, to dry the brakes, and so that you may check the braking action.
- Use extreme caution when braking on wet roads, unsurfaced roads or any other slippery surfaced.
- Always use both brakes simultaneously to distribute braking force over both wheels.
- Do not start off by mounting the motor scooter when it is on the stand. Before taking the vehicle off the stand make sure the rear wheel is not spinning.
- When your motor scooter is used on sandy, muddy, salty, or snow covered roads, periodically clean the brake disc with a gentle cleaning agent. This will avoid the buildup of abrasive materials in the slots in the disc, which will cause early and uneven brake pad wear.
- Do not modify your motor scooter in any way. This motor scooter is carefully engineered to provide optimum performance and safety. You will only reduce its utility and your enjoyment of the motor scooter by modifying it.

N.B.

### OVER-BRAKING ON A SLIPPERY SURFACE WILL LEAD TO UPSET, AN ACCIDENT, AND SUBSEQUENT INJURY OR POSSIBLY EVEN DEATH.

The instructions given below cover normal operation of your motor scooter and must be carefully observed. By following these rules you will enhance your own safety and the safety of others. You will also maximize the life and utility of your motor scooter. Motor scooters obviously do not provide some of the protection provided by automobiles, therefore it is essential that you wear appropriate protective clothing. Never operate your motor scooter without wearing a helmet, gloves, eye protection, a heavy jacket, sturdy footwear, and sturdy full length pants. However, do not assume that even the best clothing and helmet will protect you in the event of an upset or a crash with another vehicle. At best, this gear provides some

protection from scrapes and scratches, but very little, if any, impact protection. Be sure that you meet all the requirements prescribed by local law, including driver's license, minimum age, training, insurance, taxes, motorcycle registration, license plate, etc. When you first receive your motor scooter, practice by riding in areas where there is no traffic. Do not attempt to ride in heavy traffic until you are thoroughly experienced and riding your motor scooter has become second nature to you. A new motor scooter must be carefully broken in, see paragraph 3.3. Before starting the engine, make sure that the brakes, transmission and throttle controls function properly and that the fuel and oil supply is adequate. The exhaust system, brakes, and some other parts of the motor scooter become very hot during operation. Do not touch any of these parts. Some medicines or drugs, illegal or prescription, and alcohol significantly increase the risk of accidents.

Do not ride while you are under the influence of alcohol or drugs, whether they illegal or prescription. Make sure you are in good physical condition and not ill before riding your motor scooter. Do not ride your motor scooter when you are particularly tired. Alcohol, drugs and fatigue are leading causes of motor scooter accidents. Many accidents are caused by the rider's inexperience and lack of training.

Do not ride your motor scooter until you have received training from a recognized training organization such as the Motorcycle Safety Foundation.

Remember that riding a motor scooter, though easy and fun, is quite different from driving a car. Do not assume that you can operate your motor scooter safely just because you are a competent automobile driver. Never lend your motor scooter to others unless you are sure that they are competent and properly licensed motorcycle operators. If the throttle sticks open, it may cause a collision with another vehicle or an upset. If the throttle sticks, turn off the engine with the engine stop switch located on the right hand side of the handlebar. Do not attempt to restart the engine until the throttle has been repaired and works perfectly. Failure to obey this warning can lead to a run away with serious injuries or even death.



**WARNING: IN CASE OF EMERGENCY ALWAYS USE THE ENGINE STOP SWITCH LOCATED ON THE RIGHT HAND SIDE OF THE HANDLEBAR. DO NOT RIDE THE MOTOR SCOOTER IF THE THROTTLE DOES NOT AUTOMATICALLY RETURN TO IDLE. CONTACT YOUR AUTHORIZED PIAGIO SERVICE CENTER WHO WILL PROVIDE FOR THE NECESSARY REPAIRS.**

It is very important that you read the instructions carefully before using the product. If you are doing roadside, consult a CHART. If you are damaged, damage to motor scooter. Authorize damage to any safety malfunction is damage which can Do not attempt to even a motor scooter lights or modify you damage to motor scooter. The use of motor scooter which after above, can lead jurisdiction (to-date) / your motor scooter designed

It is very important to your safety that you give full attention to the riding task. Watch what you are doing, do not allow yourself to be distracted by other cars, people or things on the roadside, etc. Never smoke, eat, drink, read, etc. while riding your motor scooter. If you must consult a map, pull over when it can be done safely.

Use only your motor scooter's specific fuels and lubricants indicated in the "LUBRICANT CHART", check the oil, fuel and coolant levels regularly.

If you and your motor scooter are involved in an accident, ensure that there has been no damage to the control levers, tubes, wires, braking system and other vital parts. If your motor scooter is involved in an accident, take it immediately to your

Authorized Piaggio - Service Center who has the equipment and knowledge to check for damage which may compromise your safety. Your Piaggio Dealer is qualified to help you with any safety problems that you might have, but of course it is necessary for you to report any malfunctions to your mechanic in order for him to help you. Do not use your motor scooter if it is damaged. A damaged motor scooter may become unstable or present other problems which can increase the risk of accident, and therefore serious injury or even death.

Do not attempt to modify the position, angle or color of your license plate. Do not cover it with even a clear plastic covering. Do not modify any of the safety equipment of your motor scooter, especially such safety related items as directional indicators, rear view mirrors, lights or horn. Any modification to your motor scooter will invalidate the warranty. Do not modify your engine in an attempt to increase the horsepower. This can result in irreparable damage to the engine, as well as degradation of the performance and handling of your motor scooter which could lead to an upset, and serious injury or even death. Have your motor scooter repaired only with original parts, and use only original Piaggio accessories.

The use of aftermarket accessories and parts can seriously compromise the safety of your motor scooter as well as affect its performance, stability and serviceability. Any modification which affects performance or safety voids your warranty completely. For the reasons stated above, tampering with the exhaust emission or noise control systems of your motor scooter can lead to large fines. Also, in some jurisdictions, helmets are required by law, and in all jurisdictions, you must maintain your motorcycle in current registration (License plate up-to-date). Also, many jurisdictions require a special motorcycle license, and you must not ride your motor scooter without having first obtained this license. This motor scooter was not designed to be equipped with a sidecar or to be used to tow trailers, motorcycles,



motor scooters or bicycles.

Piaggio does not manufacture side-cars or trailers and therefore cannot predict the effects of such accessories on the maneuverability or stability of your motor scooter; it can only warn that such effects may be negative and that any damage to the motor scooter components caused by the use of such accessories will not be covered by the warranty.

Never race other motor scooters or motorcycles with your motor scooter. Brake with both the front and rear brakes.

The use of one brake only for sudden braking may cause the motor scooter to skid or make the rider lose control of the motor scooter itself. Always ride at a safe speed and avoid unnecessary hard acceleration. This also reduces fuel consumption and increases the life of the motor scooter. If you must ride your motor scooter in rainy weather, or on loose surfaces, remember that traction is greatly reduced. Under these conditions, all handling of the motor scooter must be done gradually and smoothly. Sudden acceleration, braking or turning may cause you to lose control of your motor scooter. When traction is reduced, accelerate gradually and when slowing down release throttle and use your motor scooter engine braking in so much as possible, instead of braking abruptly. Avoid rapid, harsh application of the brakes.

Gradually open and close the throttle, to avoid spinning or skidding the rear wheel. On rough road surfaces, slow down and ride with particular care. Avoid wide open throttle accelerations, unless they are necessary for passing. Remember that excessively aggressive cornering can cause your motor scooter's tires to lose traction, which can result in an upset and serious injury or even death.

Always observe posted and statutory speed limits, but do not assume that you can ride as fast as the speed limit allows under all road conditions. Slowing down a little can greatly increase your safety under all road conditions. Do not ride your motor scooter off road. Do not tamper with the muffler system or the emission control system of your motor scooter. This is not only bad for the environment, it can subject you to serious penalties.