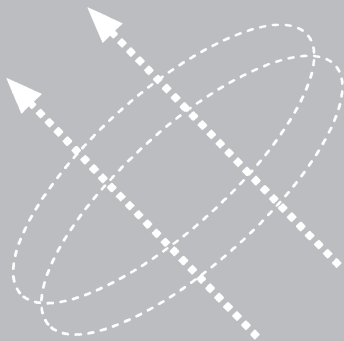
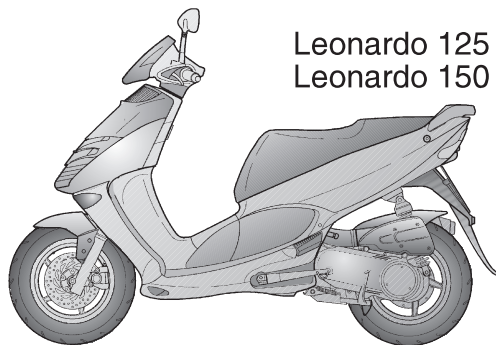


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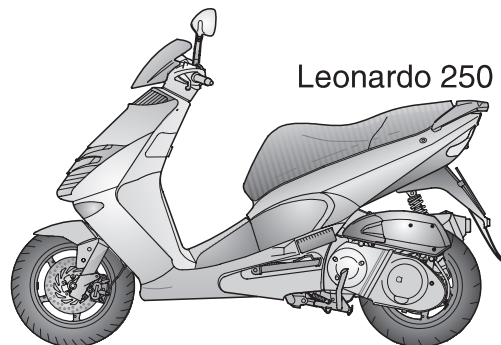


use and maintenance

aprilia part # 8102978



Leonardo 125
Leonardo 150




Leonardo 250

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SAFETY WARNINGS

The following precautionary warnings are used throughout this manual in order to convey the following messages:

 **Safety warning. When you find this symbol on the vehicle or in the manual, be careful to the potential risk of personal injury. Non-compliance with the indications given in the messages preceded by this symbol may result in grave risks for your and other people's safety and for the vehicle!**

First edition: february 1999

Reprint: october 1999

WARNING

Indicates a potential hazard which may result in serious injury or even death.

CAUTION

Indicates a potential hazard which may result in minor personal injury or damage to the vehicle.

NOTE The word "NOTE" in this manual precedes important information or instructions.

TECHNICAL

★ The operations preceded by this symbol must be repeated also on the opposite side of the vehicle.

If not expressly indicated otherwise, for the reassembly of the units repeat the disassembly operations in reverse order.

The terms "right" and "left" are referred to the rider seated on the vehicle in the normal riding position.

WARNINGS - PRECAUTIONS - GENERAL ADVICE

Before starting the engine, carefully read this manual and in particular the section "SAFE DRIVE".

Your and other people's safety depends not only on your quickness of reflexes and on your agility, but also on what you know about the vehicle, on its efficiency and on your knowledge of the basic information for "SAFE DRIVE". Therefore, get a thorough knowledge of the vehicle, in such a way as to be able to drive in the traffic safely.

NOTE This manual must be considered as an integral part of the vehicle and must always accompany it, even in case of re-sale.

aprilia has carried out this manual with the maximum attention, in order to supply the user with correct and updated information. However, since **aprilia** constantly improves the design of its products, there may be slight discrepancies between the characteristics of your vehicle and those described in this manual. For any clarification concerning the information contained in this manual, do not hesitate to contact your **aprilia** Official Dealer.

For control and repair operations not expressly described in this publication, for the purchase of **aprilia** genuine spare parts, accessories and other products, as well as for specific advice, contact exclusively **aprilia** Official Dealers and Service Centers, which guarantee prompt and accurate assistance.

Thank you for choosing **aprilia**. We wish you a nice ride.

All rights as to electronic storage, reproduction and total or partial adaptation, with any means, are reserved for all Countries.

NOTE When asking your Dealer for spare parts, specify the spare parts code indicated on the SPARE PARTS IDENTIFICATION LABEL.

Write down the identification code in the space here below, in order to remember it also in case of loss or deterioration of the label.

The label is stuck to the left tube of the frame and to read it it is necessary to remove the left inspection cover, see p. 50 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).

aprilia N°				YEAR		T	V	W	X	Y
SPARE PARTS CODE NUMBER				I.M.		A	B	C	D	E
I	UK	A	P	SF	B	D	F	E	GR	
NL	CH	DK	J	SGP	PL	IL	ROK	MAL	RCH	
BM	USA	AUS	BR	RSA	NZ	CDN	HR	SLO		

In this manual the various versions are indicated by the following symbols:

125 125 cm³ model

150 150 cm³ model

250 250 cm³ model

ASD automatic light switching version
(Automatic Switch-on Device)

OPT optional

VERSION:

I Italy

UK United Kingdom

A Austria

P Portugal

SF Finland

B Belgium

D Germany

F France

E Spain

GR Greece

NL Holland

CH Switzerland

DK Denmark

J Japan

SGP Singapore

PL Poland

IL Israel

ROK South Korea

MAL Malaysia

RCH Chile

BM Bermuda

USA United States
of America

AUS Australia

BR Brazil

RSA South Africa

NZ New Zealand

CDN Canada

HR Croatia

SLO Slovenia

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aprilia



safe drive

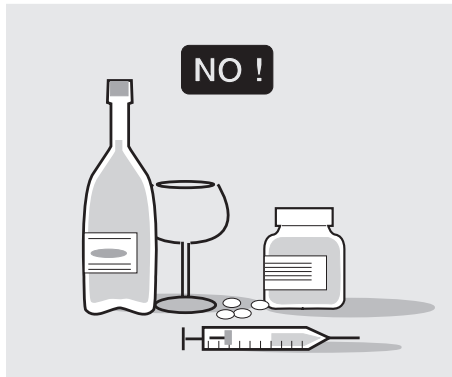




BASIC SAFETY RULES

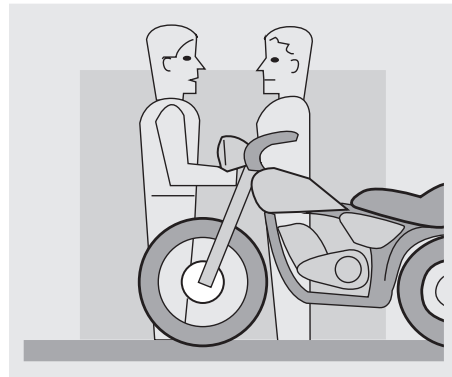
To drive the vehicle it is necessary to be in possession of all the requirements prescribed by law (driving licence, minimum age, psychophysical ability, insurance, state taxes, vehicle registration, number plate, etc.).

Gradually get to know the vehicle by driving it first in areas with low traffic and/or private areas.



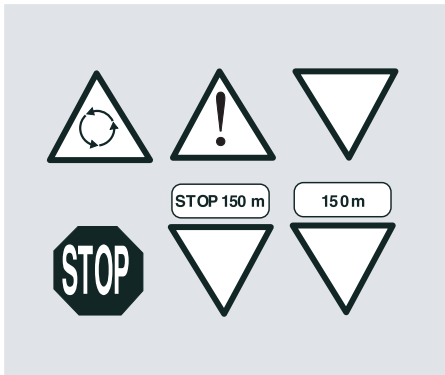
The use of medicines, alcohol and drugs or psychotropic substances notably increases the risk of accidents.

Be sure that you are in good psychophysical conditions and fit for driving and pay particular attention to physical weariness and drowsiness.



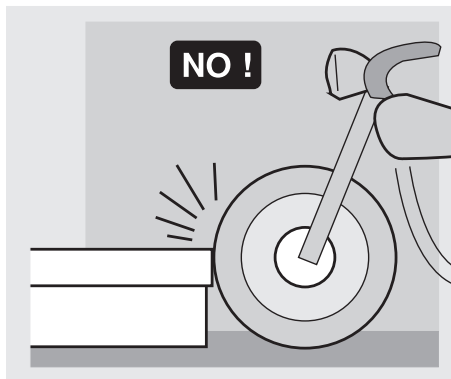
Most road accidents are caused by the driver's lack of experience.

NEVER lend the vehicle to beginners and, in any case, make sure that the driver has all the requirements for driving.



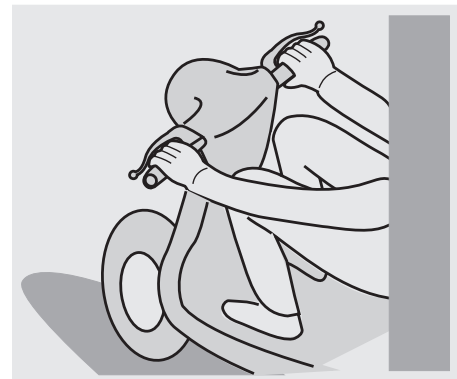
Rigorously observe all road signs and national and local road regulations.

Avoid abrupt movements that can be dangerous for yourself and other people (for example: rearing up on the back wheel, speeding, etc.), and give due consideration to the road surface, visibility and other driving conditions.



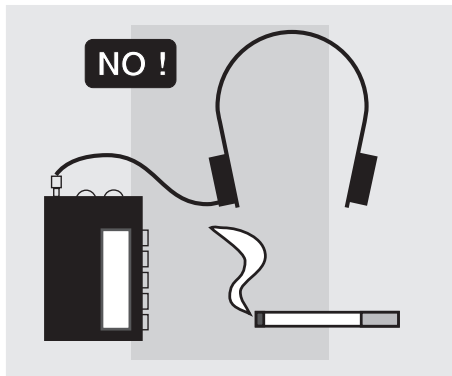
Avoid obstacles that could damage the vehicle or make you lose control.

Avoid riding in the slipstream created by preceding vehicles in order to increase your speed.

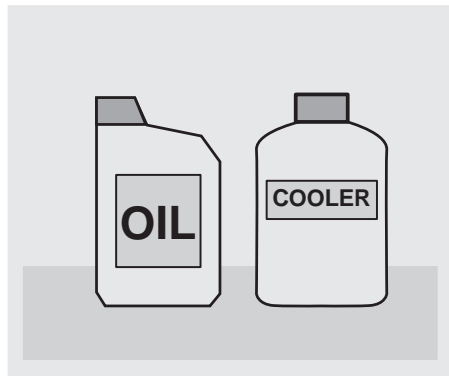


Always keep both hands on the handlebars and both feet on the footboard (or on the footrests), in the correct driving posture.

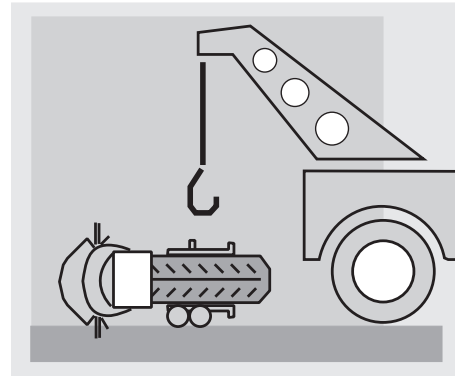
Avoid standing up or stretching your limbs while driving.



The driver should pay attention and avoid distractions caused by people, things and movements (never smoke, eat, drink, read, etc.) while driving.



Use only the vehicle's specific fuels and lubricants indicated in the "LUBRICANT CHART"; check all oil, fuel and coolant levels regularly.

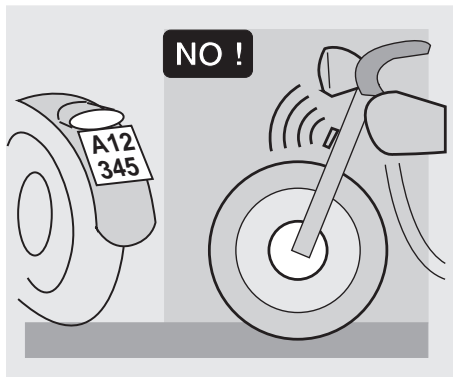


If the vehicle has been involved in an accident, make sure that no damage has occurred to the control levers, pipes, wires, braking system and vital parts.

If necessary, have the vehicle inspected by an **aprilia** Official Dealer, who should carefully check the frame, handlebars, suspensions, safety parts and all the devices that you cannot check by yourself.

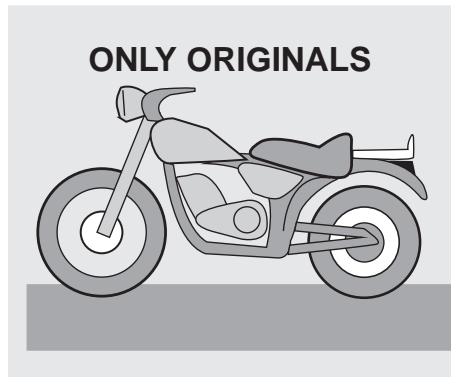
Always remember to report any malfunction to the technicians to help them in their work.

Never use the vehicle when the amount of damage it has suffered endangers your safety.



Never change the position, inclination or colour of: number plate, direction indicators, lights and horns.

Any modification of the vehicle will result in the invalidity of the guarantee.



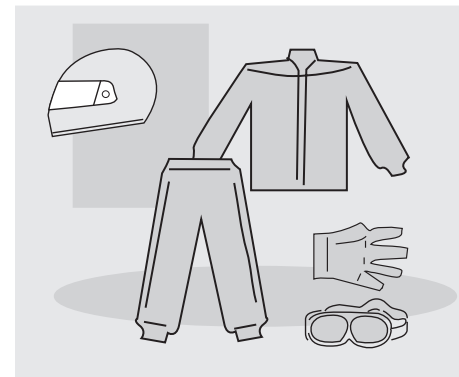
Any modification of the vehicle and/or the removal of original components can compromise vehicle performance levels and safety or even make it illegal.

We recommend respecting all regulations and national and local provisions regarding the equipment of the vehicle.

In particular, avoid all modifications that increase the vehicle's performance levels or alter its original characteristics.

Never race with other vehicles.

Avoid off-road driving.



CLOTHING

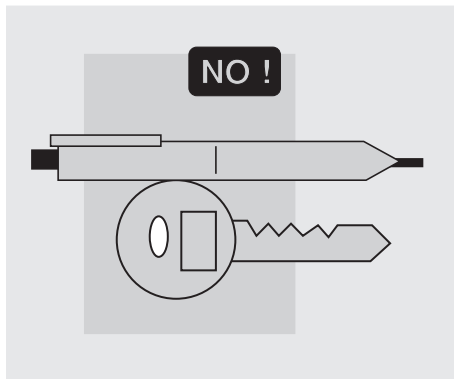
Before starting, always wear a correctly fastened crash helmet. Make sure that it is homologated, in good shape, of the right size and that the visor is clean.

Wear protective clothing, preferably in light and/or reflecting colours.

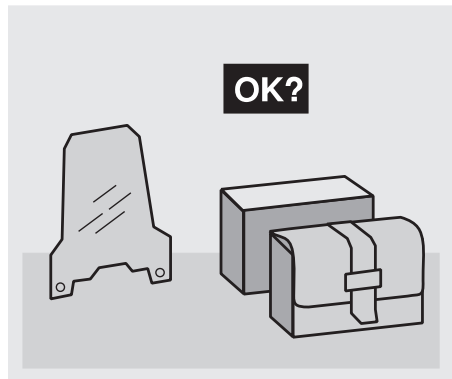
In this way you will make yourself more visible to the other drivers, thus notably reducing the risk of being knocked down, and you will be more protected in case of fall.

This clothing should be very tight-fitting and fastened at the wrists and ankles.

Strings, belts and ties should not be hanging loose; prevent these and other objects from interfering with driving by getting entangled with moving parts or driving mechanisms.



Do not keep objects that can be dangerous in case of fall, for example pointed objects like keys, pens, glass vials etc. in your pockets (the same recommendations also apply to passengers).



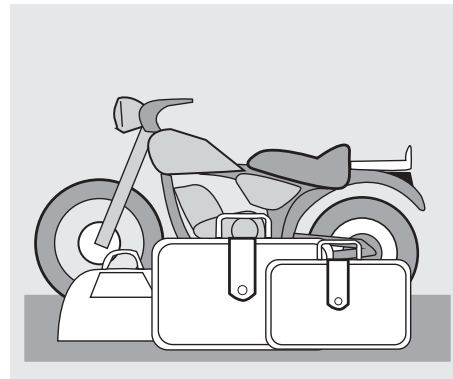
ACCESSORIES

The owner of the vehicle is responsible for the choice, installation and use of any accessory.

Avoid installing accessories that cover horns or lights or that could impair their functions, limit the suspension stroke and the steering angle, hamper the operation of the controls and reduce the distance from the ground and the angle of inclination in turns.

Avoid using accessories that hamper access to the controls, since this can prolong reaction times during an emergency.

Big fairings and windshields installed on the vehicle may produce aerodynamic forces that affect the stability of the vehicle, especially when riding at high speed.

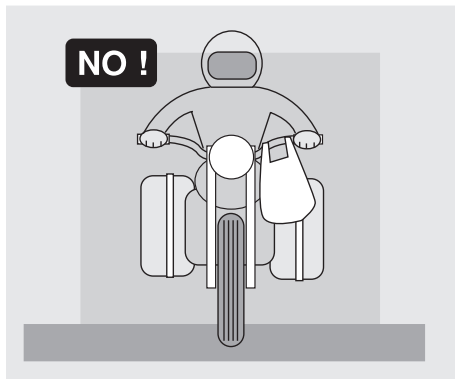


Make sure that the equipment is well fastened to the vehicle and not dangerous during driving. Do not install electrical devices and do not modify those already existing to avoid electrical overloads, because the vehicle could suddenly stop or there could be a dangerous current short-age in the horn and in the lights.

aprilia recommends the use of "**aprilia** genuine accessories".

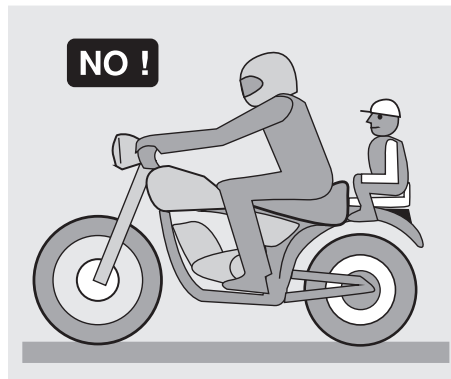
LOAD

Be careful and moderate when loading your luggage. Keep any luggage loaded as close as possible to the center of gravity of the vehicle and distribute the load uniformly on both sides, in order to reduce imbalance to the minimum. Furthermore, make sure that the load is firmly secured to the vehicle, especially during long trips.



Avoid hanging bulky, heavy and/or dangerous objects on the handlebars, mudguards and forks: the vehicle might respond more slowly in turns and its manoeuvrability could be unavoidably impaired.

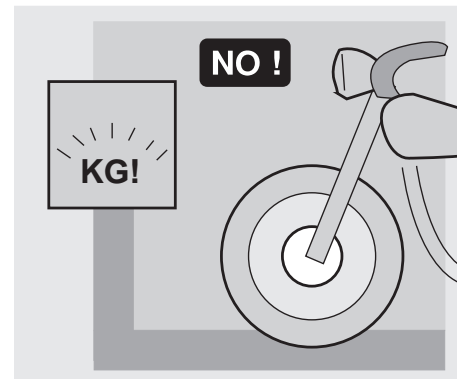
Do not place bags that are too bulky on the vehicle sides, because they could hit people or obstacles, making you lose control of the vehicle.



Do not carry any bag if it is not tightly secured to the vehicle.

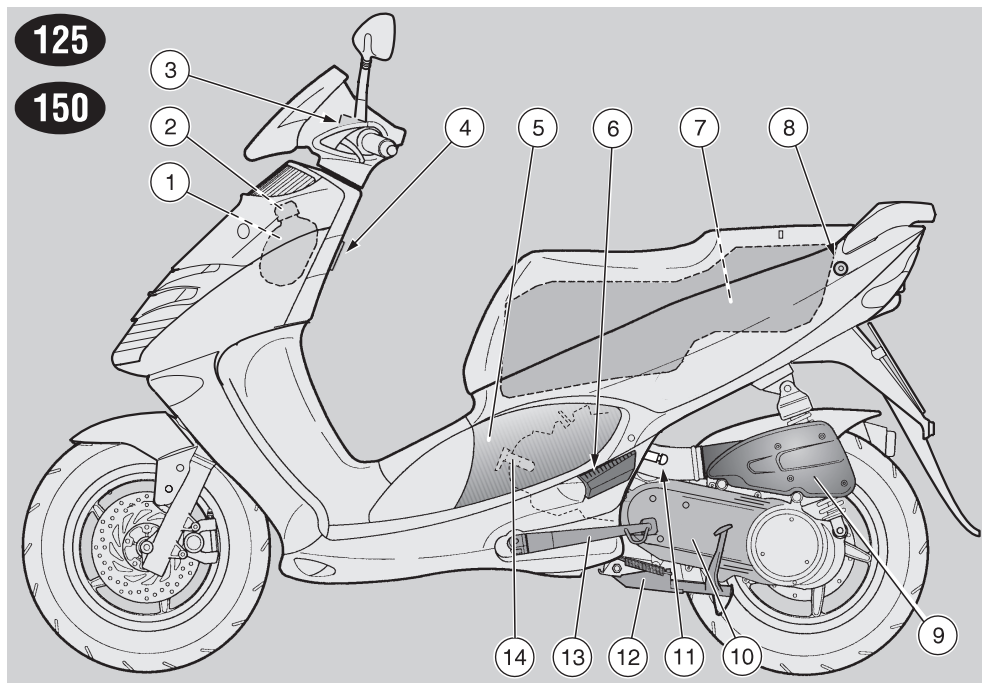
Do not carry bags which protrude too much from the luggage-rack or which cover the lights, horn or indicators.

Do not carry animals or children on the glove compartment or on the luggage-rack.



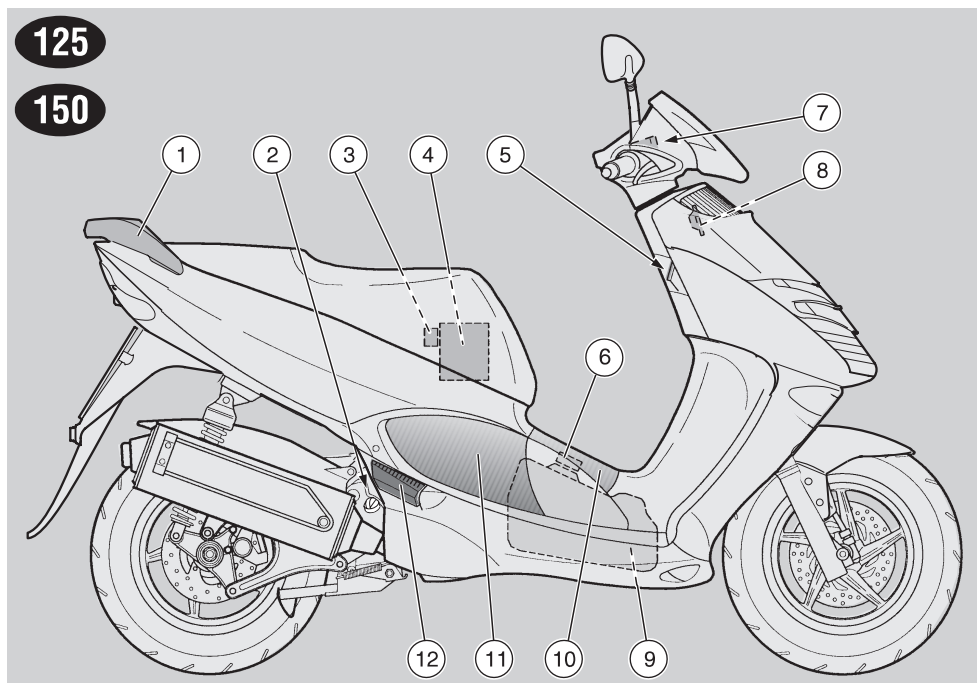
Do not exceed the maximum load allowed for each side-bag.

When the vehicle is overloaded, its stability and its manoeuvrability can be compromised.



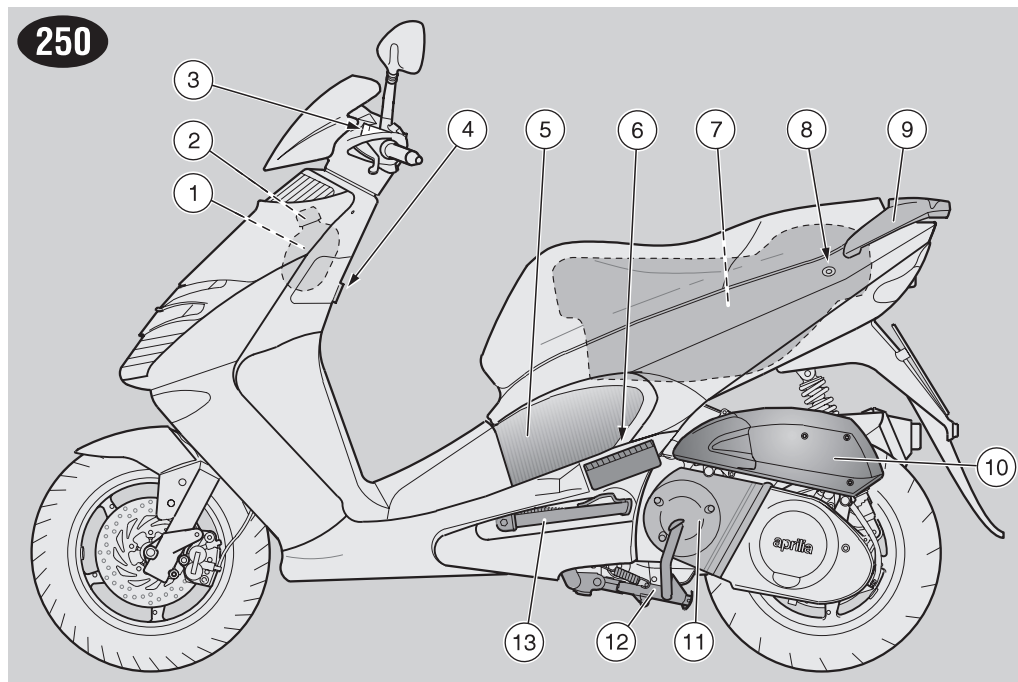
KEY

- | | | |
|--------------------------------|--------------------------------------|---|
| 1) Expansion tank | 6) Passenger left footrest | 11) Anti-theft hook (for the aprilia "Body-Guard" armored cable OPT) |
| 2) Coolant expansion tank plug | 7) Crash helmet compartment | 12) Centre stand |
| 3) Rear brake reservoir | 8) Saddle lock | 13) Side stand |
| 4) Bag hook | 9) Air cleaner | 14) Spark plug |
| 5) Left inspection cover | 10) Speed variator air cleaner cover | |



KEY

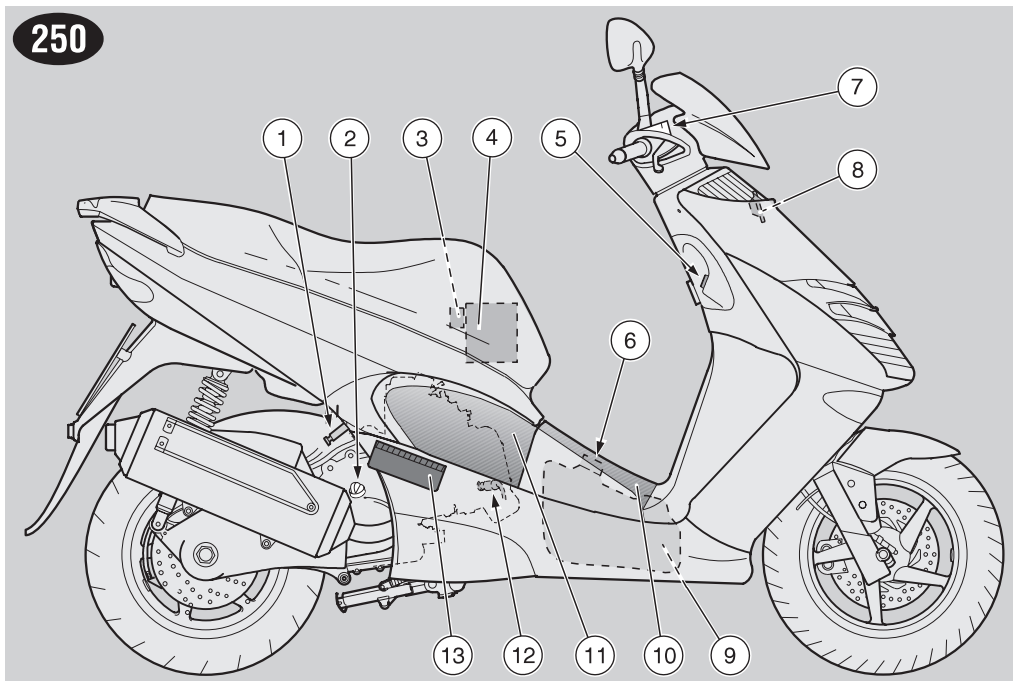
- | | | |
|----------------------------------|--------------------------|------------------------------|
| 1) Passenger grab rail | 6) Filler cap | 11) Right inspection cover |
| 2) Engine oil filling/level cap | 7) Front brake reservoir | 12) Passenger right footrest |
| 3) Fuse carrier | 8) Horn | |
| 4) Battery | 9) Fuel tank | |
| 5) Ignition switch/steering lock | 10) Fuel tank flap | |



KEY

- | | | |
|--------------------------------|-----------------------------|--------------------------------------|
| 1) Expansion tank | 6) Passenger left footrest | 11) Speed variator air cleaner cover |
| 2) Coolant expansion tank plug | 7) Crash helmet compartment | 12) Centre stand |
| 3) Rear brake reservoir | 8) Saddle lock | 13) Side stand |
| 4) Bag hook | 9) Passenger grab rail | |
| 5) Left inspection cover | 10) Air cleaner | |

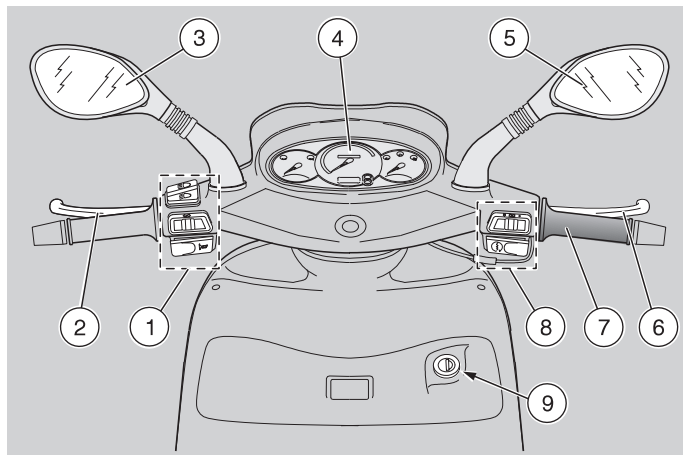
250



KEY

- | | | |
|--|----------------------------|------------------------------|
| 1) Anti-theft hook (for the aprilia "Body-Guard" armored cable OPT) | 6) Filler cap | 12) Spark plug |
| 2) Engine oil filling/level cap | 7) Front brake reservoir | 13) Passenger right footrest |
| 3) Fuse carrier | 8) Horn | |
| 4) Battery | 9) Fuel tank | |
| 5) Ignition switch/steering lock | 10) Fuel tank flap | |
| | 11) Right inspection cover | |

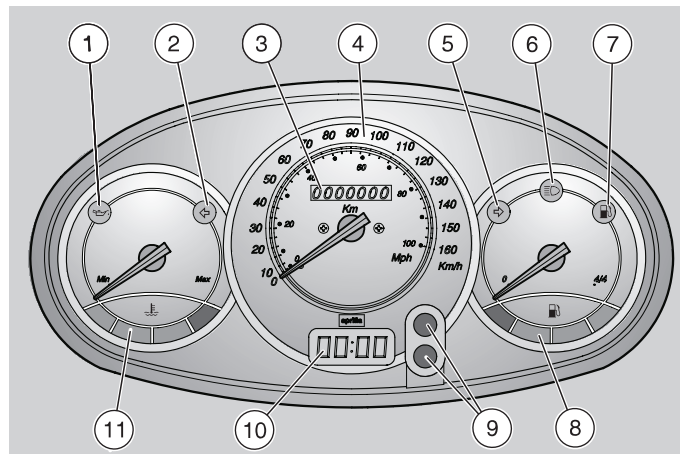
ARRANGEMENT OF THE INSTRUMENTS/CONTROLS



KEY

- 1) Electrical controls on the left side of the handlebar
- 2) Rear brake lever
- 3) Left rear-view mirror
- 4) Instruments and indicators
- 5) Right rear-view mirror
- 6) Front brake lever
- 7) Throttle grip
- 8) Electrical controls on the right side of the handlebar
- 9) Ignition switch/steering lock (○ - ✕ - 🔒)














INSTRUMENTS AND INDICATORS

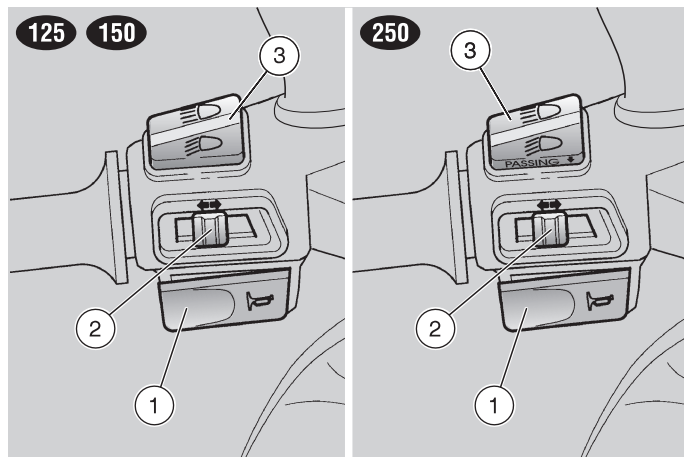


KEY

- 1) **125 150** Red engine oil pressure warning light (⚠)
- 1) **250** Red engine oil change warning light (⚠)
- 2) Green left direction indicator warning light (↶)
- 3) Total kilometres odometer
- 4) Speedometer
- 4) Speedometer – km/h scale only **AUS**
- 5) Green right direction indicator warning light (↷)
- 6) Blue high beam warning light (⚡)
- 7) Amber low fuel warning light (⛽)
- 8) Fuel level indicator (⛽)
- 9) Digital clock function and setting push buttons
- 10) Digital clock
- 11) Coolant temperature indicator (🌡)

INSTRUMENTS AND INDICATORS TABLE

Description	Function
Right direction indicator warning light 	It blinks when the right direction indicator is on.
Left direction indicator warning light 	It blinks when the left direction indicator is on.
 125 150 Engine oil pressure warning light	<p>It comes on every time the ignition switch is brought to position "O" and the engine is not running, thus testing the correct operation of the bulb. If during this phase the lamp does not turn on, it must be replaced. The warning light must go off when the engine is running.</p> <p>⚠ CAUTION If the warning light comes on during the normal running of the engine, this means that the oil pressure in the circuit is insufficient. In this case, immediately stop the engine and contact your aprilia Official Dealer.</p>
 250 Engine oil change warning light	<p>It comes on, for about three seconds, whenever the ignition switch is brought to position "O" and the engine is not running, thus testing the correct operation of the bulb. If it does not come on or if it does not go out after three seconds, contact an aprilia Official Dealer.</p> <p>⚠ CAUTION The warning light comes on during the normal operation of the engine after the first 1000 km (625 mi) and successively every 3000 km (1875 mi) and remains on until the engine oil has been changed. In this case, contact an aprilia Official Dealer.</p>
Total kilometres odometer	It indicates the total number of kilometres covered.
Speedometer	It indicates the driving speed.
 High beam warning light	It comes on when the headlight is in "high beam" position or when the high beam signaller is operated (PASSING  250).
 Low fuel warning light	It comes on when the quantity of fuel left in the tank is about 1,8  125 150 (1,5  250).
 Fuel level indicator	<p>It indicates the approximate fuel level in the tank.</p> <p>When the pointer reaches the red area, the quantity of fuel left in the tank is about 1,8  125 150 (1,5  250).</p> <p>In this case, top up as soon as possible, see p. 24 (FUEL).</p>
Digital clock	Hour, date and seconds can be shown on the display, see p. 21 (DIGITAL CLOCK).
 Coolant temperature indicator	<p>It indicates the approximate temperature of the coolant in the engine.</p> <p>When the pointer starts moving beyond level "Min", the temperature is sufficient for driving the vehicle.</p> <p>The normal running temperature range is indicated by the central area of the scale.</p> <p>If the pointer reaches the red area, stop the engine and check the coolant level, see p. 28 (COOLANT).</p> <p>⚠ CAUTION If the maximum allowed temperature is exceeded (red area "Max" of the scale), the engine may be seriously damaged.</p>



CONTROLS ON THE LEFT SIDE OF THE HANDLEBAR

NOTE The electrical parts work only when the ignition switch is in position “○”.

- 1) **HORN PUSH BUTTON (📢)**
The horn is activated when the “📢” push button is pressed.
- 2) **DIRECTION INDICATOR SWITCH (↔)**
To indicate the turn to the left, move the switch to the left; to indicate the turn to the right, move the switch to the right.
To turn off the direction indicator, press the switch on its centre.
- 3) **125 150 DIMMER SWITCH (🔦 - 🔦)**
(**ASD** not provided, **ASD** provided for those countries where the engine stop switch “🛑 - ○” is required)
When the light switch is in position “🔦”: if the dimmer switch is in position “🔦”, the high beam comes on, while if it is in position “🔦”, the low beam comes on.
- 3) **250 DIMMER SWITCH (🔦 - 🔦) / HIGH BEAM SIGNALLER PUSH BUTTON (PASSING 📢)**
(**ASD** not provided, **ASD** provided for those countries where the engine stop switch “🛑 - ○” is required)
When the light switch is in position “🔦”: if the dimmer switch is in position “🔦”, the high beam comes on, while if it is in position “🔦”, the low beam comes on.

The high beam signaller is operated by pressing the dimmer switch to position (PASSING 📢), independently of the position of the light switch (🔦 - 📢 - ●).

NOTE When the dimmer switch is released, the high beam signaller is disconnected.

CONTROLS ON THE RIGHT SIDE OF THE HANDLEBAR

NOTE The electrical parts work only when the ignition switch is in position "○".

1) LIGHT SWITCH (☼ - ☼☼ - ●) (ASD not provided)

⚠ CAUTION

Before operating the light switch, make sure that the dimmer switch (☼☼ - ☼☼) is in position "☼☼".

When the light switch is in position "●", the lights are off; when the switch is in position "☼☼", the parking lights and the dashboard light are on; when the switch is in position "☼☼☼", the parking lights, the dashboard light and the low beam are on. The high beam can be operated by means of the dimmer switch (☼☼ - ☼☼).

1a) DIMMER SWITCH (☼☼ - ☼☼) (ASD

not provided for those countries where the engine stop switch "⊗ - ○" is required)

When it is in position "☼☼" the parking lights, the dashboard light and the low beam are always on.

When it is in position "☼☼☼", the high beam comes on.

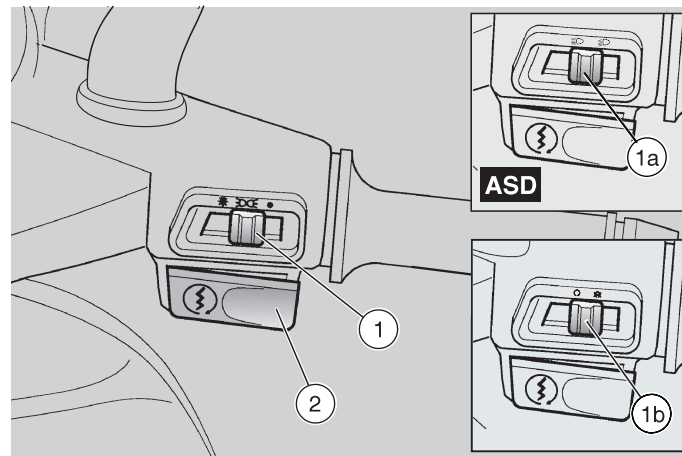
1b) ENGINE STOP SWITCH (○ - ⊗)

(in the countries where required)

⚠ WARNING

Do not operate the engine stop switch "○ - ⊗" in running conditions.

This is a safety or emergency switch. With the switch in position "○", it is possible to start the engine; the engine can be stopped by moving the switch to position "⊗".



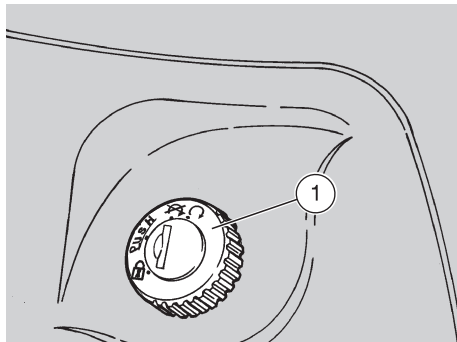
⚠ CAUTION

With stopped engine and ignition switch in position "○", the battery may run down.

When the vehicle has come to a halt, stop the engine, and move the ignition switch to position "⊗".

2) START PUSH BUTTON (Ⓢ)

When the start push button "Ⓢ" is pressed, the starter makes the engine run. For the starting, see p. 33 (STARTING).



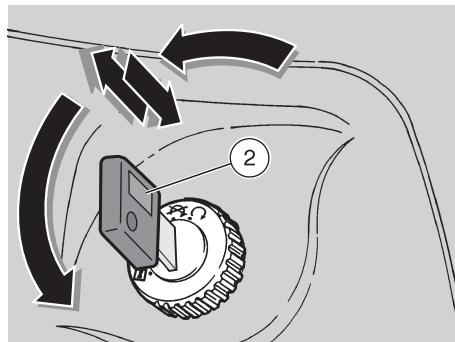
IGNITION SWITCH

The ignition switch (1) is positioned on the right side, near the steering column.

NOTE The key (2) operates the ignition switch/steering lock, the saddle lock and the fuel tank flap.

Two keys are supplied together with the vehicle (one spare key).

NOTE Do not keep the spare key on the vehicle.



STEERING LOCK




⚠ WARNING

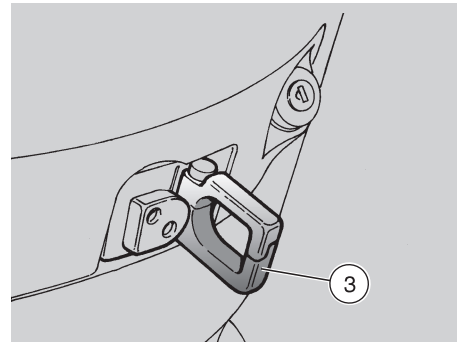
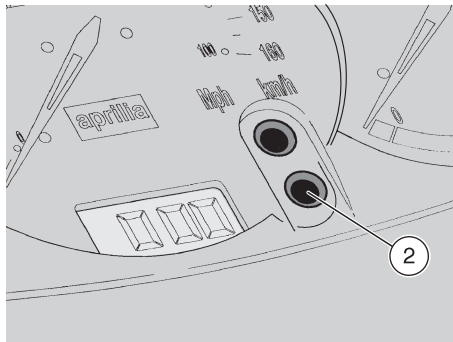
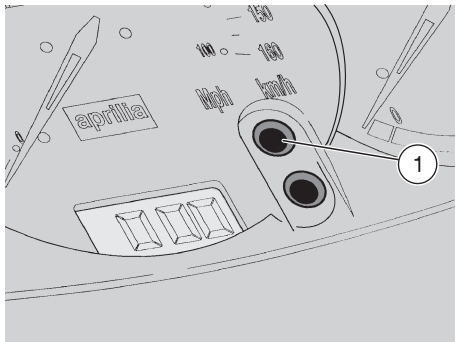
Never turn the key to position "🔒" in running conditions, in order to avoid losing control of the vehicle.

OPERATION

To lock the steering:

- ◆ Turn the handlebar completely leftwards.
- ◆ Turn the key (2) to position "🔒" and press it.
- ◆ Release the key and turn it to position "🔓".
- ◆ Extract the key.

Position	Function	Key removal
 Steering lock	The steering is locked. It is neither possible to start the engine, nor to switch on the lights.	It is possible to remove the key.
	Neither the engine, nor the lights can be switched on.	It is possible to remove the key.
	The engine and the lights can be switched on.	It is not possible to remove the key.



DIGITAL CLOCK

Function description:

- ◆ Normal display: hours and minutes.
- ◆ Date display: press the push button (1) once to display month and day.
- ◆ Second display: press the push button (1) twice to display the seconds.

NOTE To replace the clock battery, contact an **aprilia** Official Dealer.

Setting:

- ◆ Press the push button (2) once: date and time will be displayed alternately.
- ◆ Month: press the push button (2) again and the month will be displayed on the left (the rest disappears). Press the push button (1) to set the desired month.
- ◆ Day: press the push button (2) again and the day will be displayed on the right. Press the push button (1) to set the desired day.
- ◆ Time: press the push button (2) again and the time will be displayed on the left with letter "A" or "P" (A = AM, P = PM).
- ◆ Minutes: press the push button (2) again and the minutes will be displayed on the right. Press the push button (1) to set the desired minutes.

Now the clock is set.

Press the push button (2), successively the push button (1) again to return to normal functioning.

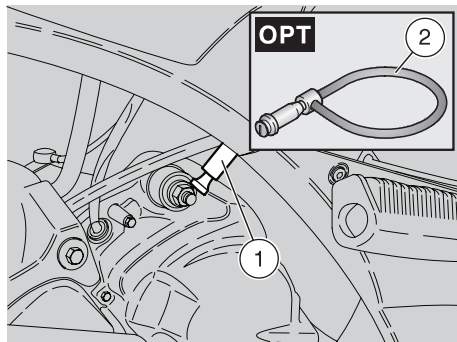
BAG HOOK

⚠ WARNING

Do not hang excessively bulky bags or parcels to the hook, as this may seriously compromise the manoeuvrability of the vehicle or the movement of your feet.

The bag hook (3) is positioned on the front part of the inner shield

Max. allowed weight: 1,5 kg



ANTI-THEFT HOOK

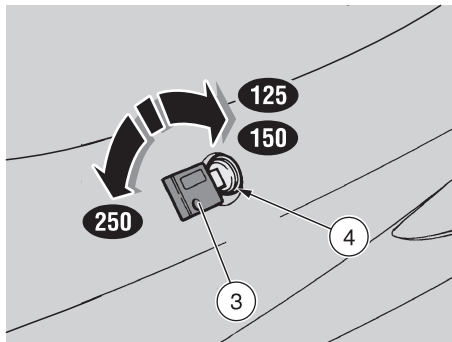
The anti-theft hook (1) is positioned on one side of the vehicle, near the passenger footrest:

- **125 150** left side.
- **250** right side.

To prevent the vehicle from being stolen, it is advisable to secure it with the **aprilia** “Body-Guard” armored cable **OPT** (2), available at any **aprilia** Official Dealer.

⚠ CAUTION

Do not use the hook to lift the vehicle or for any purpose other than securing the vehicle once it has been parked.



UNLOCKING / LOCKING THE SADDLE

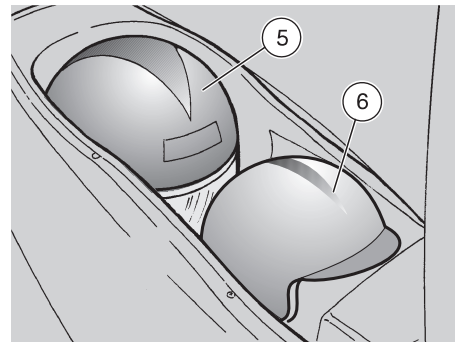
- ♦ Insert the key (3) in the saddle lock (4).
- ♦ Rotate the key (3):
 - **125 150** anticlockwise rotation.
 - **250** clockwise rotation.
- ♦ Raise the saddle.

NOTE Before lowering and locking the saddle, make sure that you have not left the key in the crash helmet/glove compartment.

- ♦ To lock the saddle, lower and press it (without exerting too much pressure), thus making the lock snap shut.

⚠ WARNING

Before leaving, make sure that the saddle is properly locked.



CRASH HELMET / GLOVE COMPARTMENT

Thanks to the crash helmet/glove compartment, you no longer have to carry the crash helmet or other objects with you every time you park the vehicle.

The compartment is positioned under the saddle; to reach it:

- ♦ Raise the saddle, see beside (UNLOCKING / LOCKING THE SADDLE).

NOTE The compartment can contain:

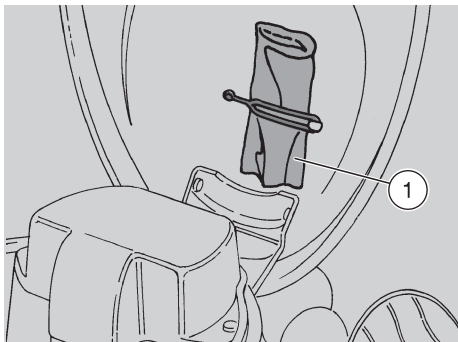
- **125 150** a crash helmet (5).
- **250** two “JET” helmets (5) and (6), or one “JET” helmet and one medium-size crash helmet, positioned as indicated in the figure.

⚠ WARNING

Do not load the crash helmet/glove compartment too much.

Maximum allowed weight:

- **125 150** 4 kg
- **250** 5 kg



TOOL KIT

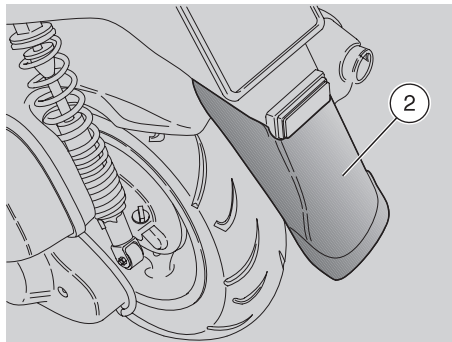
The tool kit (1) is fixed under the saddle, inside the crash helmet/glove compartment.

To reach it:

- ◆ Raise the saddle, see p. 22 (UNLOCKING / LOCKING THE SADDLE).

The tool kit includes:

- 4 mm hexagon spanner;
- **125 150** 16 mm spark plug socket spanner;
- **250** 18 mm spark plug socket spanner;
- socket spanner rod;
- 8/10 mm socket spanner;
- double-ended, cross-/cut-headed screwdriver;
- square pin spanner;
- tool case.



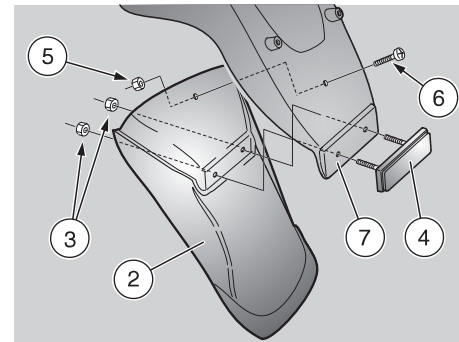
REAR MUDGUARD EXTENSION

The rear mudguard extension (2) is provided as standard equipment and can be installed if the vehicle is used on wet roads, since it reduces the reach of the water spray caused by the rear wheel.

NOTE The vehicle is supplied with the rear mudguard extension (2) already installed in the countries where this is required for the homologation.

For the installation of the rear mudguard extension, proceed as follows:

- ◆ Raise the saddle, see p. 22 (UNLOCKING / LOCKING THE SADDLE).
- ◆ Take the rear mudguard extension (2) out of the crash helmet/glove compartment together with the screws and relevant nuts provided for the fastening.



- ◆ Unscrew and remove the nuts (3).
- ◆ Remove the reflector (4).
- ◆ Unscrew and remove the nut (5).
- ◆ Withdraw the screw (6).
- ◆ Position the rear mudguard extension (2) inside the number plate holder support (7).
- ◆ Position the reflector (4) and tighten the relevant nuts (3).
- ◆ Insert the screw (6) and tighten the relevant nut (5).
- ◆ Make sure that the rear mudguard extension (2) is positioned correctly.

MAIN COMPONENTS

FUEL

⚠ WARNING

The fuel used for internal combustion engines is extremely inflammable and in particular conditions it can become explosive. It is important to carry out the refuelling and the maintenance operations in a well-ventilated area, with the engine off. Do not smoke while refuelling or near fuel vapours, in any case avoid any contact with naked flames, sparks and any other heat source to prevent the fuel from catching fire or from exploding. Further, prevent fuel from flowing out of the fuel filler, as it could catch fire when getting in contact with the red-hot surfaces of the engine. In case some fuel has accidentally been spilt, make sure that the area is completely dry before starting the vehicle. Since petrol expands under the heat of the sun and due to the effects of sun radiation, never fill the tank to the brim. Screw the cap carefully after refuelling. Avoid any contact of the fuel with the skin and the inhalation of vapours; do not swallow fuel or pour it from a receptacle into another by means of a tube.



DO NOT DISPOSE OF FUEL IN THE ENVIRONMENT.

KEEP AWAY FROM CHILDREN.

125 150 Use only leaded (4 Stars **UK**) or unleaded premium grade petrol, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.).

250 Use only premium grade unleaded petrol, min. O.N. 91 (N.O.R.M.) and 81 (N.O.M.M.).

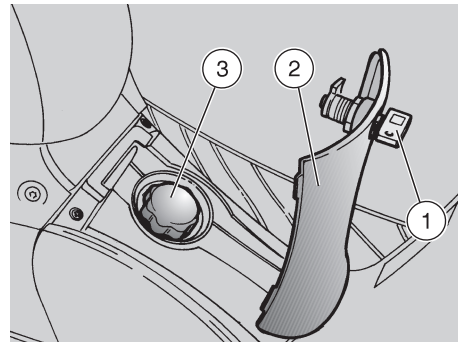
FUEL TANK CAPACITY

(reserve included):

- **125 150** 9,5 ℓ
- **250** 9,6 ℓ

TANK RESERVE:

- **125 150** 1,8 ℓ
- **250** 1,5 ℓ



To reach the filler cap, proceed as follows:

- ◆ Insert the key (1) in the fuel flap lock (2), positioned between the footrest platforms.
- ◆ Turn the key clockwise, pull it and open the fuel flap.
- ◆ Unscrew the filler cap (3).

LUBRICANTS

⚠ WARNING

Oil can cause serious damage to the skin if handled every day and for long periods.

Wash your hands carefully after using oil.

In case any maintenance operation has to be carried out, it is advisable to use latex gloves.

KEEP AWAY FROM CHILDREN.

DO NOT DISPOSE OF OIL IN THE ENVIRONMENT.

⚠ CAUTION

Proceed with care.

Do not spill the oil!

Take care not to smear any component, the area in which you are working and the surrounding area. Carefully remove any trace of oil.

In case of leakages or malfunctions, contact an **aprilia** Official Dealer.



TRANSMISSION OIL

Have the transmission oil level checked every 6000 km (3750 mi).

It is necessary to have the transmission oil changed after the first 1000 km (625 mi) and successively every 12000 km (7500 mi).

To check the oil level and to change the oil, contact an **aprilia** Official Dealer.

ENGINE OIL

Check the engine oil level every 1000 km (625 mi), see p. 43 (CHECKING THE ENGINE OIL LEVEL AND TOPPING UP).

NOTE Use high-quality oils, see p. 70 (LUBRICANT CHART).

125 150 The use of oils with SAE classification 15W, 20W or 30W (and in any case with density exceeding that of the recommended oil) could make it difficult to start the vehicle if the ambient temperature is below -5°C .

⚠ CAUTION

When topping up the engine oil, never exceed the "MAX" level.

250 NOTE The engine oil change warning light "🛢" positioned on the dashboard comes on after the first 1000 km (625 mi) and successively every 3000 km (1875 mi), signalling that it is necessary to change the engine oil.

It is necessary to have the engine oil changed after the first 1000 km (625 mi) and successively:

- **125 150** every 6000 km (3750 mi).
- **250** every 3000 km (1875 mi).

For the oil change, contact an **aprilia** Official Dealer.



BRAKE FLUID-recommendations

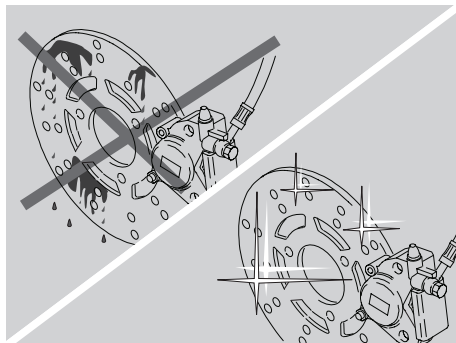
NOTE This vehicle is provided with front and rear disc brakes, with separate hydraulic circuits.

The following information refers to a single braking system, but is valid for both.

⚠ WARNING

Sudden resistance or clearance problems on the brake lever may be due to troubles in the hydraulic system.

For any doubt regarding the perfect functioning of the braking system and in case you are not able to carry out the usual checking operations, contact your **aprilia** Official Dealer.



⚠ WARNING

Pay special attention to the brake disc and friction material, making sure that they are neither dirty nor oily, especially after maintenance operations or inspections.

Make sure that the brake pipe is neither twisted nor worn out.

KEEP AWAY FROM CHILDREN.

DO NOT DISPOSE OF THE FLUID IN THE ENVIRONMENT.



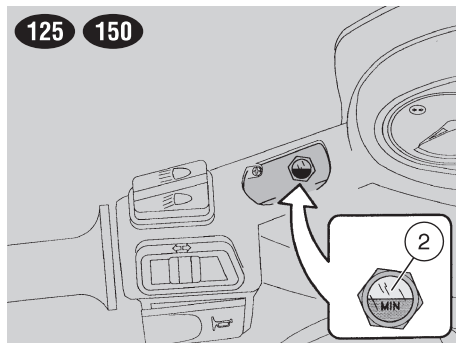
DISC BRAKES

⚠ WARNING

The brakes are the parts that most ensure your safety and for this reason they must always be perfectly working; check them before every trip.

A dirty disc soils the pads, with consequent reduction of the braking efficiency. Dirty pads must be replaced, while dirty discs must be cleaned with a high-quality degreaser.

The brake fluid must be changed every two years by an **aprilia** Official Dealer.



NOTE This vehicle is provided with front and rear disc brakes, with separate hydraulic circuits.

The following information refers to a single braking system, but is valid for both.

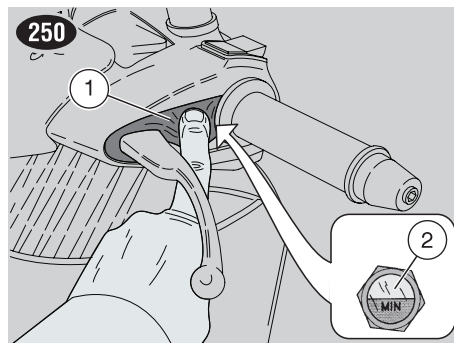
When the disc pads wear out, the brake fluid level in the reservoir decreases to automatically compensate for their wear.

The brake reservoirs are positioned under the handlebar cover, near the brake lever couplings.

Periodically check the brake fluid level in the reservoirs, see beside (CHECKING) and the wear of the pads, see p. 46 (CHECKING THE BRAKE PAD WEAR).

⚠ WARNING

Do not use the vehicle if the braking system leaks fluid.



CHECKING

To check the brake fluid level, proceed as follows:

NOTE Position the vehicle on firm and flat ground.

- ◆ Position the vehicle on the centre stand.
- ◆ **125 150** Remove the rear-view mirrors, see p. 51 (REMOVING THE REAR-VIEW MIRRORS).
- ◆ **250** Move the rubber heat protection screen (1) downwards.
- ◆ Rotate the handlebar, so that the fluid contained in the brake reservoir is parallel to the "**MIN**" mark stamped on the glass gauge (2).
- ◆ Make sure that the fluid contained in the reservoir exceeds the "**MIN**" mark stamped on the glass gauge (2).

MIN = minimum level.

If the fluid does not reach at least the "**MIN**" mark:

⚠ CAUTION

When the disc pads wear out, the level of the fluid decreases progressively to compensate for their wear.

- ◆ Check the brake pad wear, see p. 46 (CHECKING THE BRAKE PAD WEAR) and the disc wear.

If the pads and/or the disc do not need replacing:

- ◆ Contact an **aprilia** Official Dealer, who will provide for topping up.

⚠ CAUTION

Check the braking efficiency.

In case of excessive stroke of the brake lever or reduced efficiency of the braking system, contact an **aprilia Official Dealer, since it may be necessary to bleed the system.**

COOLANT

⚠ CAUTION

Do not use the vehicle if the coolant is below the minimum prescribed level “MIN”.

Check the coolant level every 2000 km (1250 mi) and after long trips; have the coolant changed by an **aprilia** Official Dealer every 2 years.

⚠ WARNING

The coolant is noxious: do not swallow it; if the coolant gets in contact with the skin or the eyes, it can cause serious irritations.

If the coolant gets in contact with your skin or eyes, rinse with plenty of water and consult a doctor. If it is swallowed, induce vomit, rinse mouth and throat with plenty of water and consult a doctor without delay.

DO NOT DISPOSE OF THE FLUID IN THE ENVIRONMENT.

KEEP AWAY FROM CHILDREN.

Be careful not to spill the coolant on the red-hot parts of the engine: it may catch fire and send out invisible flames.

In case maintenance operations are to be performed, it is advisable to use latex gloves.

Have the coolant changed by an **aprilia Official Dealer.**



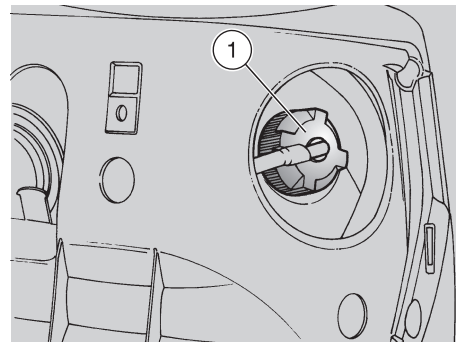
The coolant is made up of 50% water and 50% antifreeze.

This mixture is ideal for most running temperatures and ensures good protection against corrosion.

It is advisable to keep the same mixture also in the hot season, since in this way losses due to evaporation are reduced and it is not necessary to top up very frequently.

The mineral salt deposits left in the radiator by evaporated water are thus reduced and the efficiency of the cooling system remains unchanged.

If the outdoor temperature is below 0°, check the cooling circuit frequently and if necessary increase the antifreeze concentration (up to maximum 60%).

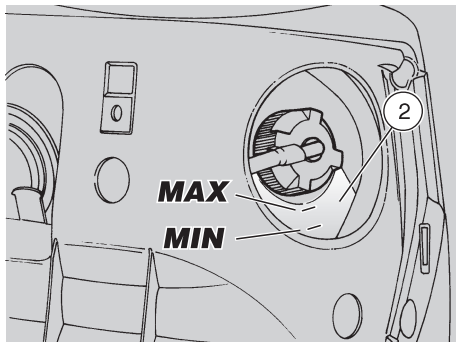


For the cooling solution use distilled water, in order not to damage the engine.

⚠ WARNING

Do not remove the expansion tank plug (1) when the engine is hot, since the coolant is under pressure and its temperature is high.

If it gets in contact with the skin or with clothes it may cause severe burns and/or damage.



CHECKING AND TOPPING UP

⚠ WARNING

Check the coolant level and top up the expansion tank with cold engine.

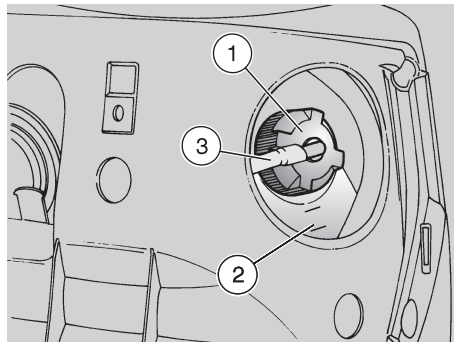
- ◆ Stop the engine and wait until it has cooled down.

NOTE Position the vehicle on firm and flat ground.

- ◆ Remove the front cover, see p. 51 (REMOVING THE FRONT COVER).
- ◆ Make sure that the level of the fluid contained in the expansion tank (2) is included between the "MIN" and "MAX" marks.

MIN = minimum level.

MAX = maximum level.



If not, proceed as follows:

- ◆ Loosen the filling cap (1) (by giving it two anticlockwise turns), without removing it.
- ◆ Wait a few seconds in order to release any residual pressure.

NOTE A breather pipe (3) is connected to the cap (1). Neither force, nor disconnect the breather pipe (3).

- ◆ Unscrew and remove the cap (1).

⚠ WARNING

The coolant is noxious: do not swallow it; if the coolant gets in contact with the skin or the eyes, it can cause serious irritations.

Do not use your fingers or any other object to check if there is enough coolant.



⚠ CAUTION

While topping up, never exceed the "MAX" level, otherwise the fluid will flow out of the tank while the engine is running.

- ◆ Top up with coolant, see p. 70 (LUBRICANT CHART) until reaching approx. the "MAX" notch
- ◆ Put back the filling cap (1).

⚠ CAUTION

In case of excessive consumption of coolant and in case the tank remains empty, make sure that there are no leaks in the circuit.

Have it repaired by an aprilia Official Dealer.

- ◆ Put back the front cover, see p. 51 (REMOVING THE FRONT COVER).



TYRES

This vehicle is provided with tubeless tyres.

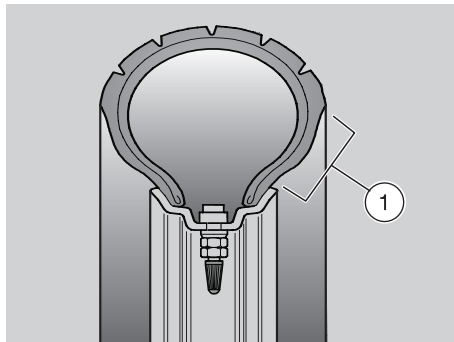
WARNING

Periodically check the tyre inflation pressure at room temperature, see p. 66 (TECHNICAL DATA).

If the tyres are hot, the measurement is not correct.

Carry out the measurement especially before and after long rides.

If the inflation pressure is too high, the ground unevenness cannot be dampened and is therefore transmitted to the handlebar, thus compromising the driving comfort and reducing road holding during turns.



If, on the contrary, the inflation pressure is too low, the tyre sides (1) are under greater stress and the tyre itself may slip on the rim or it may become loose, with consequent loss of control of the vehicle.

In case of sudden braking the tyres could even get out of the rims. Further, the vehicle could skid while turning.

Check the surface and the wear of the tyres, since tyres in bad conditions can impair both the grip and the controllability of the vehicle.

Some types of tyres homologated for this vehicle are provided with wear indicators.

There are several kinds of wear indicators.

For more information on how to check the wear, contact your Dealer.

Visually check if the tyres are worn and in this case have them changed.

If the tyres are old, even if not completely worn out, they may become hard and may not ensure good road holding. In this case, have the tyres changed.

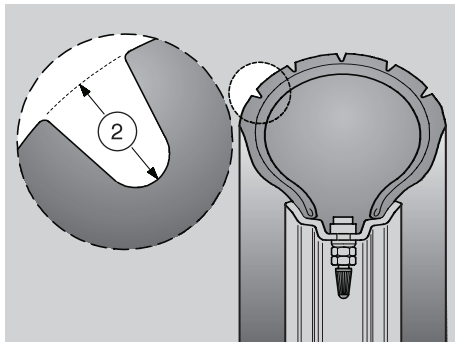
Change the tyre when it is worn out or in case of puncture on the tread side, if the puncture is larger than 5 mm.

After repairing a tyre, have the wheels balanced.

Use only tyres in the size suggested by **aprilia**, see p. 66 (TECHNICAL DATA).

Do not install tyres with air tube on rims for tubeless tyres and viceversa.

Make sure that the tyres always have their valve sealing caps on, to prevent them from suddenly going flat.



Change, repair, maintenance and balancing operations are very important and should be carried out by qualified technicians with appropriate tools.

For this reason, it is advisable to have the above mentioned operations carried out by an **aprilia** Official Dealer or by a qualified tyre repairer.

If the tyres are new, they may still be covered with a slippery film: drive carefully for the first miles. Do not oil the tyres with unsuitable fluids.

MINIMUM TREAD DEPTH LIMIT (2)

front: 2 mm (USA 3 mm)
rear: 2 mm (USA 3 mm)



AUTOMATIC LIGHT SWITCHING VERSION ASD

The vehicles provided with this device can be immediately recognized, since the lights come automatically on as soon as the ignition switch is turned to position "O".

For this reason the light switch "☀ - ☞ - ●" has been replaced with a dimmer switch "☞ - ☞".

The lights can be switched off only by turning the ignition switch to position "☞".

- ◆ Before starting the vehicle, make sure that the dimmer switch is in position "☞" (front low beam).

EXHAUST SILENCER

⚠ WARNING

Tampering with the noise control system is prohibited.

Owners are warned that the law may prohibit:

- the removal or rendering inoperative by any person, other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle – for the purpose of noise control – prior to its sale or delivery to the ultimate purchaser or while it is in use; and
- the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Check the exhaust silencer and the silencer pipes, making sure that there are neither signs of rust, nor holes and that the exhaust system works effectively.

If the noise produced by the exhaust system increases, immediately contact your **aprilia** Official Dealer.

WARNING

Before departure, always carry out a preliminary checking of the vehicle, to make sure that it functions correctly and safely, see the following table (PRELIMINARY CHECKING OPERATIONS).

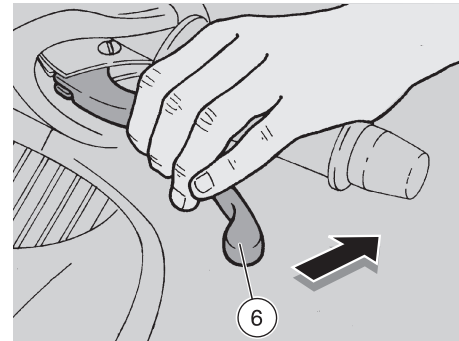
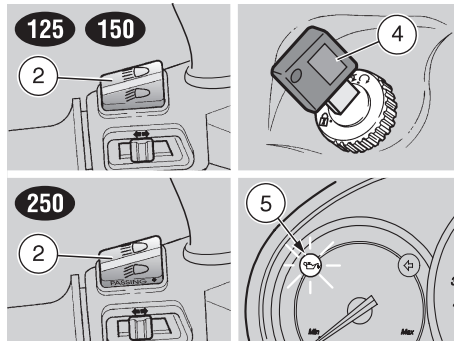
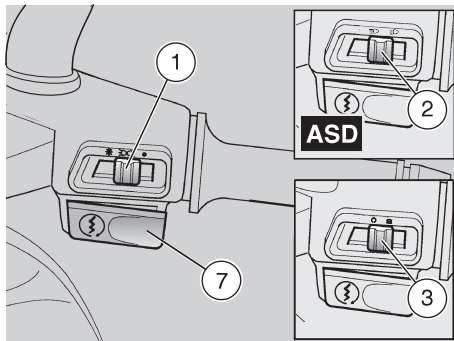
The non-performance of these checking operations can cause severe personal injuries or damage to the vehicle.

Do not hesitate to consult your **aprilia** Official Dealer in case there is something you do not understand about the functioning of some controls or in case you suspect or discover some irregularities.

It does not take long to carry out a check-up and this operation ensures you much more safety.

PRELIMINARY CHECKING OPERATIONS

Component	Check	Page
Front and rear disc brakes	Check the functioning, the idle stroke of the control levers, the fluid level and make sure there are no leaks. Check the wear of the pads. If necessary, top up the brake reservoir.	26, 46
Brake levers	Make sure that they work smoothly. If necessary, lubricate the articulations.	–
Accelerator	Make sure that it works smoothly and that it is possible to open and close it completely, in all steering positions. If necessary, adjust and/or lubricate it.	53
Wheel/tyres	Check the tyre surface, the inflation pressure, wear and tear and any damage.	30
Steering	Make sure that the steering rotates smoothly, without any clearance or slackening.	49
Side stand and centre stand	Make sure that they work smoothly and that the spring tension brings them back to their normal position. If necessary, lubricate joints and hinges.	47
Fastening elements	Make sure that the fastening elements are not loose. If necessary, adjust or tighten them.	–
Fuel tank	Check the fuel level and top up, if necessary. Make sure there are no leaks or occlusions in the circuit. Make sure the filler cap is correctly tightened.	24, 63
Coolant	The coolant level in the expansion tank must be included between the "MIN" and "MAX" marks.	28, 29
Engine stop switch (○ - ⊗)	Make sure that it functions correctly.	19
Lights, warning lights, horn and electrical devices	Check the proper functioning of the acoustic and visual devices. Change the bulbs or carry out the necessary repairs in case of failure.	55 – 62



STARTING

⚠ WARNING

Exhaust gases contain carbon monoxide, which is extremely noxious if inhaled. Avoid starting the vehicle in closed or badly-ventilated rooms. The non-observance of this warning may cause loss of consciousness or even lead to death by asphyxia.

Do not get on the vehicle for the starting. Do not start the engine with the vehicle positioned on the side stand.

- ◆ To start the vehicle, position it on the centre stand.
- ◆ Make sure that the light switch (1) is in position “●”.
- ◆ Make sure that the dimmer switch (2) is in position “D”.
- ◆ Move the engine stop switch (3) to position “○”, (in the countries where required).

- ◆ Rotate the key (4) and move the ignition switch to position “○”.

⚠ CAUTION

At this point:

- **125 150** the engine oil pressure warning light “” (5) positioned on the dashboard comes on and remains on until the engine starts.
- **250** the engine oil change warning light “” (5) positioned on the dashboard comes on for approximately three seconds.
If it does not come on or if it does not go out after three seconds, contact an **aprilia Official Dealer**.

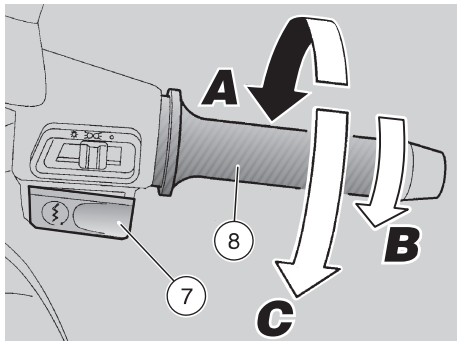
- ◆ Lock at least one wheel, by pulling a brake lever (6).
If this operation is not carried out, the start relay receives no current and therefore the engine does not start.

NOTE After a long period of inactivity, carry out the operations described at p. 35 (STARTING AFTER A LONG PERIOD OF INACTIVITY).

NOTE To avoid the excessive wear of the battery, do not keep the start push button “” (7) pressed for more than five seconds (ten after a long period of inactivity). If the engine does not start within this lapse of time, wait ten seconds and press the start push button “” (7) again.

⚠ CAUTION

Avoid pressing the start push button “” (7) when the engine is running, since you may damage the starter.



- ◆ Press the start push button “(3)” (7) without accelerating and release it as soon as the engine starts.
- ◆ If the engine does not start in three or four seconds, slightly rotate the throttle grip (8) (**Pos. B**), keeping the start push button “(3)” (7) pressed.

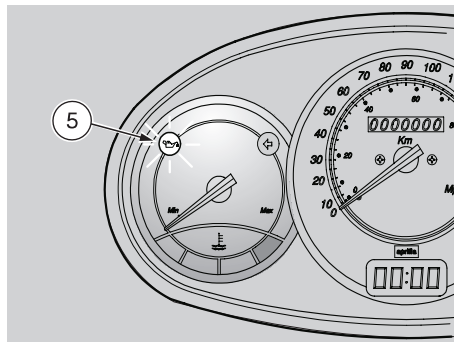
⚠ CAUTION

125 150 As soon as the engine has started, the engine oil pressure warning light “(5)” (5) must go out.

If this does not occur, or if the warning light comes on while the engine is running, this means that the pressure in the circuit is insufficient.

In this case, stop the engine immediately and contact an **aprilia** Official Dealer.

Do not use the vehicle with insufficient engine oil, in order to avoid damaging the engine components.



⚠ CAUTION

250 Do not underestimate the coming on of the engine oil change warning light “(5)” (5).

If the engine oil change warning light “(5)” (5) comes on during the normal operation of the engine, this means that the engine oil must be changed as soon as possible.

For the oil change, contact an **aprilia** Official Dealer.

- ◆ Keep at least one brake lever pulled and do not accelerate until you start.

⚠ CAUTION

Never leave abruptly with cold engine. To reduce the emission of polluting substances and the consumption of fuel, warm the engine up by proceeding at low speed for the first miles.

STARTING WITH FLOODED ENGINE

If the starting is not carried out properly or if there is too much fuel in the intake ducts and in the carburettor, the engine may get flooded.

To clean a flooded engine:

- ◆ Press the start push button “(3)” (7) for a few seconds (letting the engine spin over) with completely open throttle (8) (**Pos. C**).

STARTING WITH COLD ENGINE

When the room temperature is low (near or below 0°C), it may be difficult to start the engine at the first attempt.

In this case:

- ◆ Keep the start push button “(3)” (7) pressed for five seconds and at the same time rotate the throttle grip (8) moderately (**Pos. B**).

If the engine starts.

- ◆ Release the throttle grip (8) (**Pos. A**).
- ◆ If the idling is unstable, twist the throttle grip (8) slightly and frequently.

If the engine does not start.

- ◆ Wait a few seconds and repeat the cold START PROCEDURE.
- ◆ If necessary, remove the spark plug, see p. 54 (SPARK PLUG) and make sure that it is not wet.
- ◆ If the spark plug is wet, clean and dry it.

Before reinstalling it:

NOTE Put a clean cloth on the cylinder, near the spark plug seat, in order to protect it from oil sprays.

- ◆ Press the start push button “Ⓢ” (7) and let the starter run for about five seconds without accelerating.

STARTING AFTER A LONG PERIOD OF INACTIVITY

After a long period of inactivity, if the start is not immediate, this may be due to the fact that the fuel circuit is partially empty.

In this case:

- ◆ Press the start push button “Ⓢ” (7) for about ten seconds, in order to ensure the filling of the float chamber.

DEPARTURE AND DRIVE

NOTE Before departure, carefully read the "safe drive" chapter, see p. 5 (SAFE DRIVE).

⚠ CAUTION

If the low fuel warning light “Ⓢ” (9) positioned on the dashboard comes on while the vehicle is running, this means that the electric reserve is operating and there are still 125 150 1,8 / (250 1,5) of fuel available. Refuel as soon as possible, see p. 24 (FUEL).

⚠ WARNING

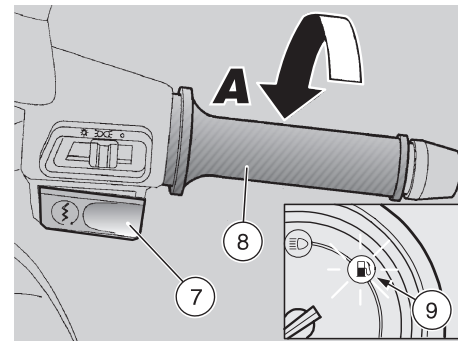
If you drive without passenger, make sure that the passenger footrests are folded.

While riding, keep your hands on the grips and your feet on the footrests.

NEVER RIDE IN ANY POSITION OTHER THAN THOSE INDICATED.

If you drive with a passenger, instruct him/her so that he/she does not create problems during manoeuvres.

Before leaving, make sure that the stand/stands is/are completely up.

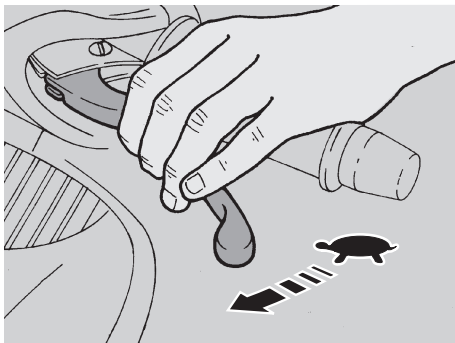


To leave:

- ◆ Release the throttle grip (8) (pos. A), put on the rear brake, then move the vehicle down the stand.
- ◆ Get on the vehicle, keeping at least one foot on the ground in order not to lose balance.
- ◆ Adjust the inclination of the rear-view mirrors correctly.

⚠ WARNING

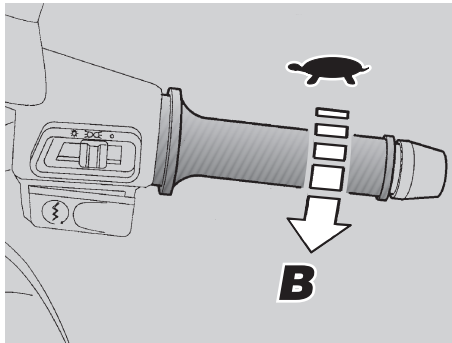
With the vehicle at rest, try to get acquainted with the use of the rear-view mirrors. The reflecting surface is convex, therefore the objects seem to be farther away than they actually are. These mirrors offer a “wide-angle” view and only experience will allow you to evaluate the distance of the following vehicles correctly.



- ◆ Release the brake lever and accelerate by rotating the throttle grip moderately (**Pos. B**); the vehicle will start moving.

⚠ CAUTION

Never leave abruptly with cold engine. To reduce the emission of polluting substances and the consumption of fuel, warm the engine up by proceeding at low speed for the first miles.



⚠ WARNING

Avoid opening and closing the throttle repeatedly and continuously, so that you do not accidentally lose control of the vehicle.

If you have to brake, close the throttle and put on both brakes in order to obtain uniform deceleration, properly exerting pressure on the braking parts. By putting on the front brake only or the rear brake only, you reduce the braking force considerably, thus running the risk of locking one wheel and consequently losing grip.

If you stop uphill, decelerate completely and use the brakes only to keep the vehicle steady. The use of the engine to keep the vehicle at a halt may cause the overheating of the speed variator.

⚠ WARNING

Before beginning to turn, slow down or brake driving at moderate and constant speed or accelerating slightly; avoid braking at the last moment: it would be very easy to skid.

If the brakes are operated continuously on downhill stretches, the friction material may overheat, thus reducing the braking efficiency. Exploit the engine compression by putting on both brakes intermittently. Never drive downhill with the engine off!

In case of wet road or scarce wheel grip (snow, ice, mud, etc.), drive slowly, avoiding sudden brakings or manoeuvres that could make you lose grip and fall down.

Pay the utmost attention to any obstacle or variation of the road surface. Uneven roads, rails, manhole covers, indications painted on the road surface, building site metal plates become rather slippery by rain. For this reason all these obstacles have to be carefully avoided, driving smoothly and bending the vehicle as little as possible.

⚠ WARNING

Always use the direction indicators in time when you intend to change lane or direction, avoiding sharp and dangerous movements.

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

Be extremely careful when you overtake other vehicles or are overtaken.

In case of rain, the water cloud created by big vehicles reduces visibility; the air shift may make you lose control of the vehicle.

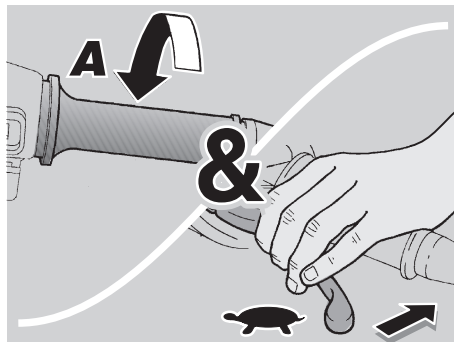
RUNNING-IN

⚠ WARNING

After the first 1000 km (625 mi), carry out the checking operations indicated in the column "After running-in" of the Regular Service Intervals Chart, see p. 40 (REGULAR SERVICE INTERVALS CHART), in order to avoid hurting yourself or other people and/or damaging the vehicle.

The running-in of the engine is primary to ensure its working life and its correct functioning. If possible, drive on hilly roads and/or roads with many bends, so that the engine, the suspensions and the brakes undergo a more effective running-in.

NOTE Only after the first 500 km (312 mi) of running-in it is possible to obtain the best speed and acceleration performance from the vehicle.



Keep to the following indications:

- ◆ Do not open the throttle completely if the speed is low, both during and after the running-in.
- ◆ **0-100 km (0-62 mi)**
During the first 100 km (62 mi) put on the brakes with caution, avoiding sharp and prolonged brakings. This ensures a correct bedding-in of the pads on the brake disc.
- ◆ **0-500 km (0-312 mi)**
During the first 500 km (312 mi), do not exceed the 80% of the maximum allowed speed.
- ◆ Avoid driving at constant speed for long distances.
- ◆ After the first 1000 km (625 mi), progressively increase the speed until reaching the highest performance levels.

STOPPING

⚠ WARNING

If possible, avoid stopping abruptly, slowing down suddenly and braking at the last moment.

- ◆ Release the throttle grip (**pos. A**) and gradually put on the brakes to stop the vehicle.
- ◆ In case of a brief stop, keep at least one brake on.

PARKING

⚠ WARNING

Park the vehicle on firm and flat ground, to prevent it from falling down.

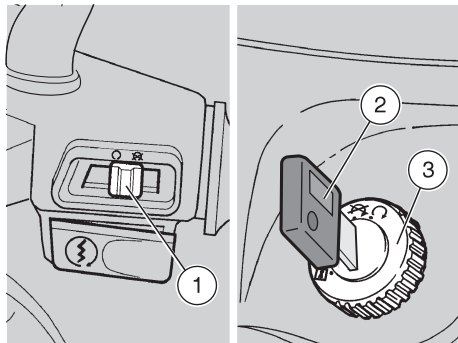
Neither lean the vehicle against walls, nor lay it on the ground.


Make sure that the vehicle and especially its red-hot parts do not represent a danger for persons and children.

Do not leave the vehicle unattended when the engine is on or the key is inserted into the ignition switch.


Do not sit on the vehicle when the stand is down.


- ◆ Stop the vehicle, see above (STOPPING).



- ◆ Move the engine stop switch (1) to position “

⚠ CAUTION

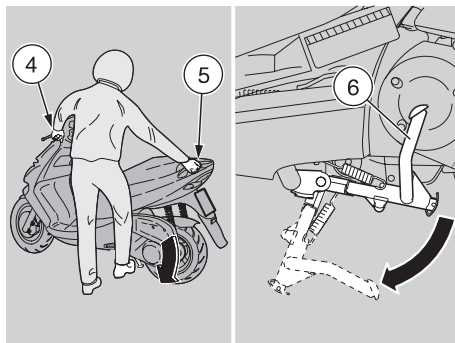
With stopped engine and ignition switch in position “

- ◆ Rotate the key (2) and move the ignition switch (3) to position “

NOTE It is not necessary to close the fuel tap when the engine is off, since it is equipped with an automatic closing system.

⚠ CAUTION

Never leave the key in the ignition switch.



- ◆ Lock the steering, see p. 20 (STEERING LOCK) and extract the key.

POSITIONING THE VEHICLE ON THE STAND

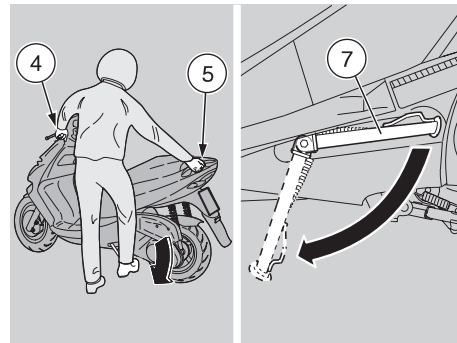
Carefully read p. 37 (PARKING).

CENTRE STAND

- ◆ Grasp the left grip (4) and the passenger grab rail (5).
- ◆ Push down the stand lever (6).

SIDE STAND

- ◆ Grasp the left grip (4) and the passenger grab rail (5).



⚠ WARNING

Danger of fall or overturning.

When the vehicle is straightened from the parking position to the driving position, the stand goes automatically up.

- ◆ Press the side stand (7) with your right foot and extend it completely.
- ◆ Incline the vehicle until the stand rests on the ground.
- ◆ Steer the handlebar completely leftwards.

⚠ WARNING

Make sure that the vehicle is stable.

SUGGESTIONS TO PREVENT THEFT

NEVER leave the ignition key inserted and always use the steering lock.

Park the vehicle in a safe place, possibly in a garage or a protected place.

If possible, use the appropriate **aprilia** "Body-Guard" armored cable **OPT**, or an additional anti-theft device.

Make sure that all documents are in order and the road tax has been paid.

Write down your personal data and telephone number in the space provided in this page, to facilitate the identification of the owner in case of finding after theft.

SURNAME:

NAME:

ADDRESS:

.....

TELEPHONE NO.:

NOTE Very often stolen vehicles are identified thanks to the data written on the use/maintenance manual.

MAINTENANCE

⚠ WARNING

Risk of fire.

Keep fuel and other flammable substances away from the electrical components.

Before beginning any maintenance operation or any inspection of the vehicle, stop the engine, extract the key from the ignition block, wait until the engine and the exhaust system have cooled down and if possible lift the vehicle by means of the proper equipment, on firm and flat ground.

Before proceeding, make sure that the room in which you are working is properly ventilated.

Keep away from the red-hot parts of the engine and of the exhaust system, in order to avoid burns.

The vehicle is made up of not edible parts. Never bite, suck, chew or swallow any part of the vehicle for any reason.

⚠ CAUTION

If not expressly indicated otherwise, for the reassembly of the units repeat the disassembly operations in reverse order.

In case any maintenance operation has to be carried out, it is advisable to use latex gloves.



Normally, the routine maintenance operations can be performed by the user; however, in some cases the use of specific tools and technical expertise may be required.





If you need assistance or technical advice, consult your **aprilia** Official Dealer, who can ensure you prompt and accurate servicing.

Ask your **aprilia** Official Dealer to test the vehicle on the road after a repair or periodic maintenance operation.

In any case, personally carry out the "Preliminary checking operations" after any maintenance operation, see p. 32 (PRELIMINARY CHECKING OPERATIONS).

REGULAR SERVICE INTERVALS CHART

OPERATIONS TO BE CARRIED OUT BY THE **aprilia** Official Dealer (WHICH CAN BE CARRIED OUT EVEN BY THE USER)

Components	After running-in (1000 km) (625 mi)	Every 6000 km (3750 mi) or 8 months		Every 12000 km (7500 mi) or 16 months
Battery/electrolyte level	C	C		
Spark plug	C	 S	 C	
Carburettor - idling	C	C		
Air cleaner		P		
Variator filter		P		
Accelerator operation	C	C		
Brake locking operation	C	C		
Light system	C	C		
Brake fluid	C	C		
Coolant	C	every 2000 km (1250 mi): C		
Engine oil	every 1000 km (625 mi): C			
Light direction - operation		C		
Wheels/tyres and inflation pressure	every month: C			
Suspensions	C	C		
Engine oil pressure warning light 	on every start: C (*)			
Engine oil change warning light 	on every ignition: C (*)			
Front and rear brake pad wear	C	every 2000 km (1250 mi): C		
C = check and clean, adjust, lubricate or change, if necessary; P = clean; S = change; R = adjust. Carry out the maintenance operations more frequently if you use the vehicle in rainy and dusty areas or on uneven ground.				

(*) For the check, see p. 17 (INSTRUMENTS AND INDICATORS TABLE).

OPERATIONS TO BE CARRIED OUT BY THE **aprilia** Official Dealer

Components	After running-in (1000 km) (625 mi)	Every 6000 km (3750 mi) or 8 months	Every 12000 km (7500 mi) or 16 months
Accelerator cable (adjustment)	C	C	
Variator belt		125 150 — 250 C	125 150 S 250 —
Steering bearings and steering	C	C	
Wheel bearings		C	
Engine oil filter 125 150	S	S	
Engine oil filter 250	P	every 3000 km (1875 mi): P	
Clutch shoes		125 150 — 250 C	125 150 C 250 —
Valve clearance	125 150 R 250 —	125 150 R 250 —	125 150 — 250 R
Variator grease 125 150			S
Braking systems	C	C	
Cooling system	C	C	
Stop light switches		C	
Brake fluid	every 6000 km (3750 mi): C / every 2 years: S		
Coolant	every 2000 km (1250 mi): C / every 2 years: S		
Engine oil 125 150	S	every 1000 km (625 mi): C / every 6000 km (3750 mi): S	
Engine oil 250	S	every 1000 km (625 mi): C / every 3000 km (1875 mi): S	
Fork oil	every 30000 km (18750 mi) or 4 years: S		
Transmission oil	S	C	S
Engine oil filter grid and magnetic screw 125 150	C	C	
Centre stand roller 250	C	C	
Variator rollers and variator plastic guides		C	125 150 S 250 —
Wheels/tyres and inflation pressure		C	
Nut, bolt, screw tightening	C	C	
Engine head nut tightening 125 150	C		
Brake fluid bleeding	C		
Fuel pipes		C	every 4 years: S

C = check and clean, adjust, lubricate or change, if necessary; **P** = clean; **S** = change; **R** = adjust.

Carry out the maintenance operations more frequently if you use the vehicle in rainy and dusty areas or on uneven ground.

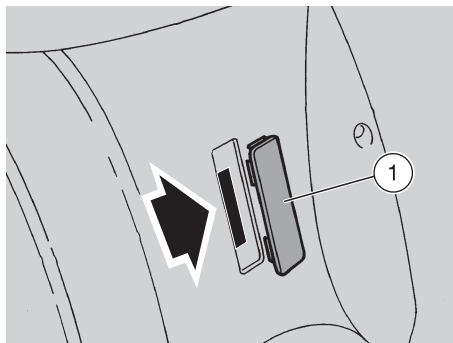


IDENTIFICATION DATA

It is a good rule to write down the frame and engine numbers in the space provided in this manual.

The frame number can be used for the purchase of spare parts.

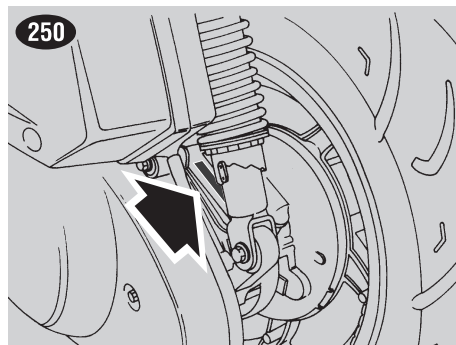
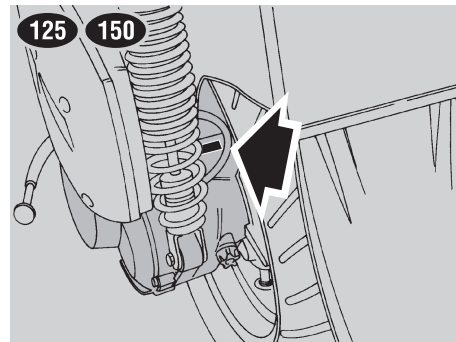
NOTE Do not alter the identification numbers if you do not want to incur severe penal and administrative sanctions. In particular, the alteration of the frame number results in the immediate invalidity of the guarantee.



FRAME NUMBER

The frame number is stamped on the central tube of the frame. To be able to read it, it is necessary to remove the cover (1).

Frame no. _____



ENGINE NUMBER

The engine number is stamped near the lower support of the rear shock absorber.

Engine no. _____

CHECKING THE ENGINE OIL LEVEL AND TOPPING UP

Carefully read p. 25 (LUBRICANTS), p. 39 (MAINTENANCE) and p. 70 (LUBRICANT CHART).

CHECKING

NOTE Position the vehicle on firm and flat ground.


- ◆ Position the vehicle on the centre stand.

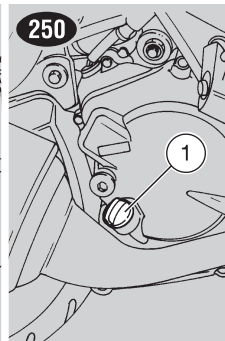
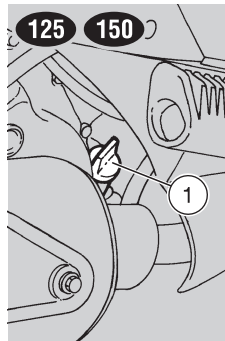
WARNING


The engine and the components of the exhaust system become very hot and remain hot for some time after the engine has been stopped. Before handling these components, wear insulating gloves or wait until the engine and the exhaust system have cooled down.

- ◆ Stop the engine and let it cool down, in order to allow the oil to flow into the oil pan and to cool down.

NOTE The non-performance of the operations described above may result in the incorrect measurement of the engine oil level.

- ◆ Unscrew and extract the plug/dipstick (1).
- ◆ Clean the part in contact with the oil with a clean cloth.
- ◆  Tighten the plug/dipstick (1) completely, screwing it into the filling hole (2).





- ◆  Insert the plug/dipstick in the filling hole (2) completely, without tightening it.
- ◆ Withdraw the plug/dipstick (1) again and read the oil level on the dipstick itself:

MAX = maximum level;

MIN = minimum level.

The difference between "**MAX**" and "**MIN**" is about:

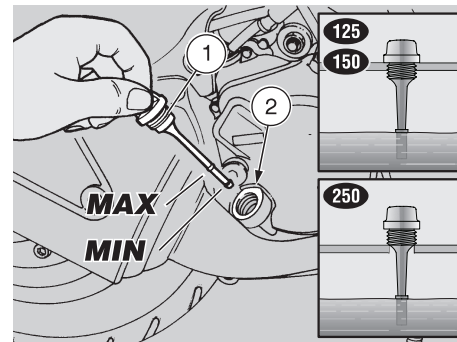
-  150 cm³;
-  500 cm³.

- ◆ The level is correct if the oil reaches approx. the "**MAX**" mark on the dipstick.

CAUTION

Never exceed the "**MAX**" mark, nor leave the oil below the "**MIN**" mark, in order to avoid serious damage to the engine.

- ◆ If necessary, provide for topping up.

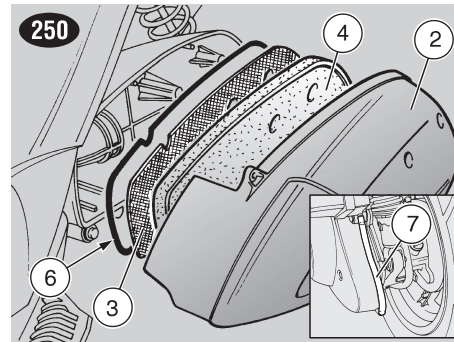
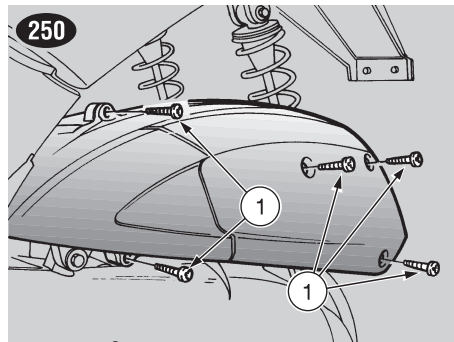
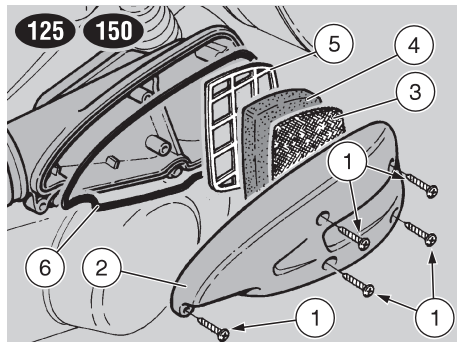


TOPPING UP

- ◆ Pour a small quantity of oil in the filling hole (2) and wait about one minute, so that the oil flows uniformly into the oil pan.
- ◆ Check the oil level and top up if necessary.
- ◆ Top up by adding small quantities of oil, until reaching the prescribed level.
- ◆ At the end of the operation, screw and tighten the plug/dipstick (1).

WARNING

Do not use the vehicle with insufficient lubrication or with contaminated or unsuitable lubricants, since this would accelerate the wear of the moving parts and may also cause irreparable failures.



AIR CLEANER

Carefully read p. 39 (MAINTENANCE).

The air cleaner should be inspected and cleaned every 6000 km (3750 mi), depending on the conditions of use.

If the vehicle is used on dusty or wet roads, the cleaning operations should be carried out more frequently.

To clean the filtering element it is necessary to remove it from the vehicle.

REMOVAL

- ◆ Position the vehicle on the centre stand.
- ◆ Unscrew and remove the five screws (1).
- ◆ Remove:
 - filter case cover (2);
 - flame trap grid (3);
 - filtering element (4);
 - 125 150 grid (5).
- ◆ Check:
 - filtering element (4);
 - filter case gasket (6);
 and change them if necessary.

CLEANING

⚠ WARNING

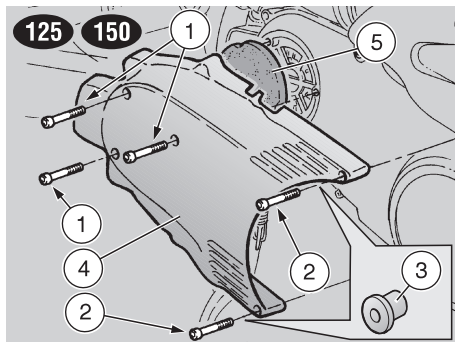
Do not use petrol or inflammable solvents to wash the filtering element, in order to avoid fires or explosions.

- ◆ Wash the filtering element (4) with clean, non-inflammable solvents or solvents with high volatility point, then let it dry thoroughly.
- ◆ Apply a filter oil on the whole surface of the filtering element.

250 Periodically check if there are impurities in the lower part of the discharge pipe (7):

If necessary:

- ◆ Withdraw the pipe (7).
- ◆ Empty its content into a container and deliver it to a salvage centre.



SPEED VARIATOR AIR CLEANER

Carefully read p. 39 (MAINTENANCE).

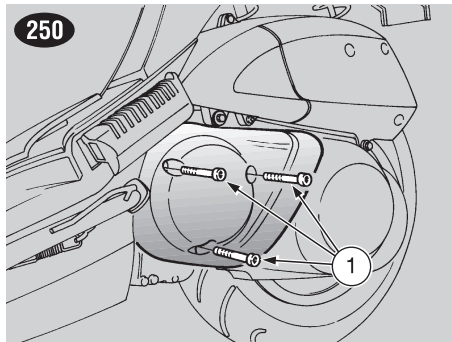
The air cleaner should be inspected and cleaned every 6000 km (3750 mi), depending on the conditions of use.

If the vehicle is used on dusty or wet roads, the cleaning operations should be carried out more frequently.

To clean the filtering element it is necessary to remove it from the vehicle.

REMOVAL

- ◆ Position the vehicle on the centre stand.
- ◆ Unscrew and remove the screws (1).
- ◆ **125 150** Unscrew and remove the screws (2) and take the bushings (3).



- ◆ Remove the filter cover (4) and the filtering element (5).
- ◆ Check the filtering element (5) and change it if necessary.

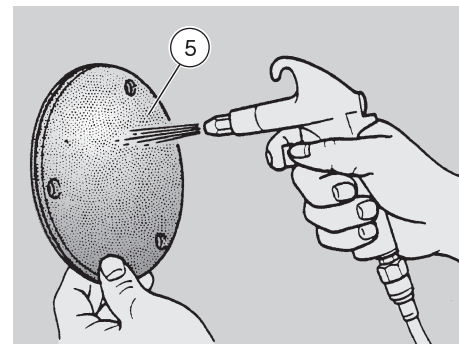
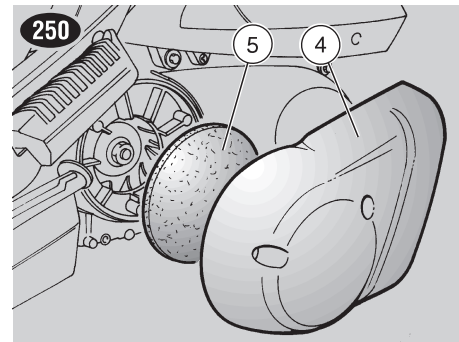
CLEANING

⚠ WARNING

Do not use petrol or inflammable solvents to wash the filtering element, in order to avoid fires or explosions.

Do not use any additive or liquid to clean the filtering element, in order to avoid the formation of moisture inside the speed variator.

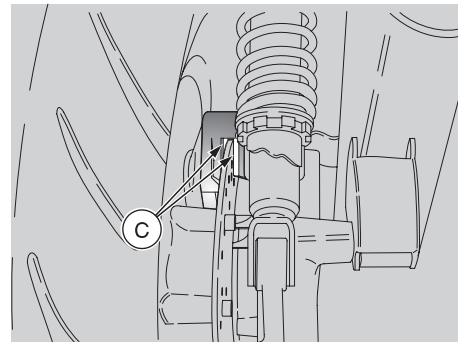
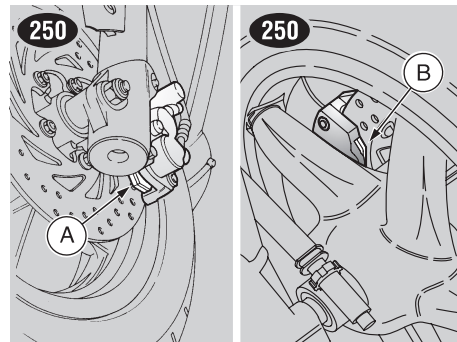
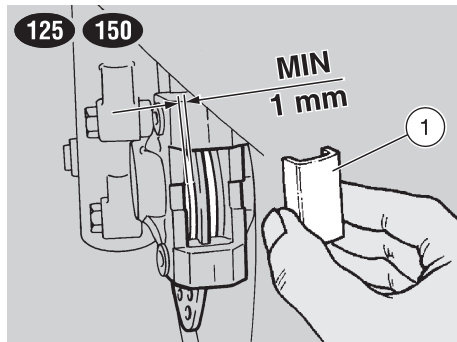
Use only compressed air.



- ◆ Clean the filtering element (5) by means of a pressurized air jet.

⚠ CAUTION

DO NOT OIL THE FILTERING ELEMENT, since the oil may get into the belt case and damage the belt or make it slip.



CHECKING THE BRAKE PAD WEAR

Carefully read p. 26 (BRAKE FLUID-recommendations), (DISC BRAKES) and p. 39 (MAINTENANCE).

NOTE The following information refers to a single braking system, but is valid for both.

Check the brake pad wear after the first 1000 km (625 mi) and successively every 2000 km (1250 mi).

The wear of the brake pads depends on the use, on the kind of drive and on the road.

⚠ WARNING

Check the wear of the brake pads especially before every trip.

To carry out a rapid checking of the pad wear, proceed as follows:

- ◆ Position the vehicle on the centre stand.
- ◆ Carry out a visual check between the brake disc and the pads, proceeding:

FRONT BRAKE CALIPER 125 150

- On the rear part, after removing the cover (1).

FRONT BRAKE CALIPER 250

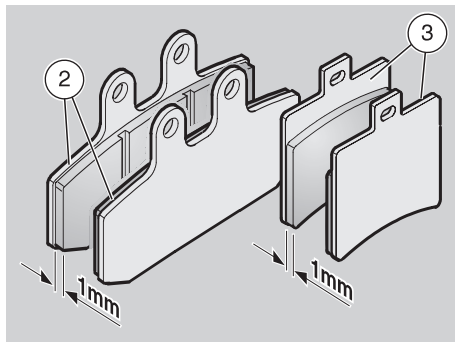
- From below, on the front part, for the left pad (A).
- From above, on the front part, for the right pad (B).

REAR BRAKE CALIPER

- From below, on the rear part, for both pads (C).

⚠ WARNING

The excessive wear of the friction material would cause the contact of the pad metal support with the disc, with consequent metallic noise and production of sparks from the caliper; braking efficiency, safety and soundness of the disc would thus be negatively affected.

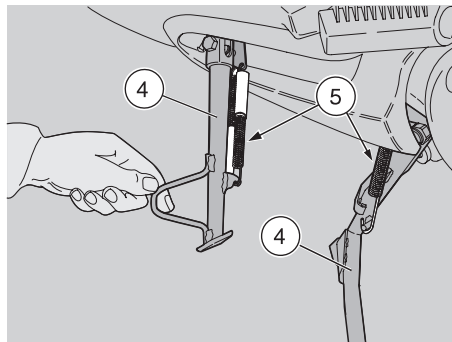


- ◆ If the thickness of the friction material (even of one pad only) has reduced to approximately **1 mm**, have both pads changed.

- Front pads (2) .
- Rear pads (3).

⚠ WARNING

Have the pads changed by your **aprilia** Official Dealer.



CHECKING THE STAND

Carefully read p. 39 (MAINTENANCE).

⚠ WARNING

FOR THE SIDE STAND ONLY.

Danger of fall or overturning.

When the vehicle is straightened from the parking position to the driving position, the stand goes automatically up.

NOTE The following information refers to one stand only, but is valid for both.

The stand (4) must rotate without hindrances.

Carry out the following checks:

- ◆ The springs (5) must not be damaged, worn, rusty or weakened.
- ◆ The stand must rotate freely, if necessary grease the joint, see p. 70 (LUBRICANT CHART).

CHECKING THE SWITCHES

The vehicle is provided with two switches:

- Stoplight switch on the rear brake control lever.
- Stoplight switch on the front brake control lever.

If you need assistance or technical advice, consult your **aprilia** Official Dealer, who can ensure you prompt and accurate servicing.



**INSPECTING THE FRONT
AND REAR SUSPENSIONS**

Carefully read p. 39 (MAINTENANCE).

⚠ CAUTION

To have the front suspension oil changed, contact your **aprilia** Official Dealer, who will ensure you prompt and accurate servicing.

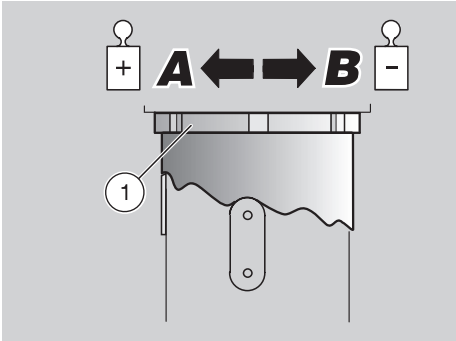
Have the front suspension oil changed every 30000 km (18750 mi) or every 4 years.

Carry out the following checks after the first 1000 km (625 mi) and successively every 6000 km (3750 mi):

- ◆ With pulled front brake lever, push the fork repeatedly downwards.
The stroke must be gentle and there must be no trace of oil on the rods.
- ◆ Check the fastening of all the components and the functionality of the front and rear suspension joints.

⚠ CAUTION

If you notice irregularities in the operation or if the help of a qualified technician is necessary, contact your **aprilia** Official Dealer.



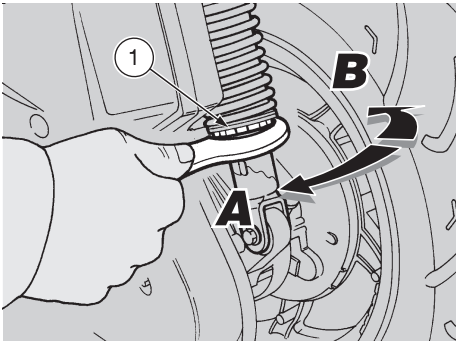
**ADJUSTING
THE REAR SUSPENSION**

The rear suspension is constituted by a pair of double-action shock absorbers (braking with compressed/extended shock absorber) fixed to the engine by means of silent-blocks.

The shock absorbers are provided with a metal ring with five positions, for the adjustment of the spring preload. The standard adjustment, set by the manufacturer, is suitable for a driver weighing about 70 kg. If your weight and needs are different, adjust the ring nut (1) with the appropriate spanner provided in the tool kit, thus setting the ideal travelling conditions (see table).

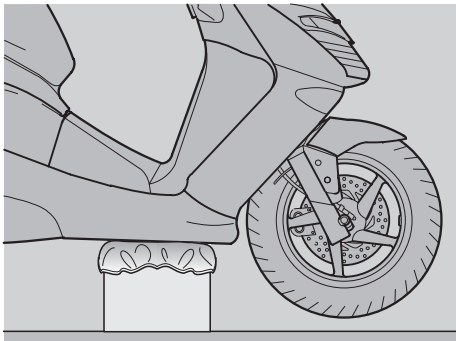
⚠ CAUTION

Set both shock absorbers on the same position.



**ADJUSTMENT OF THE REAR
SUSPENSION SPRING PRELOAD**

Adjusting ring	Rotation (arrow A)	Rotation (arrow B)
Function	Spring preload increase	Spring preload decrease
Attitude	The vehicle is more rigid	The vehicle is less rigid
Recommended kind of road	Smooth or normal roads	Roads with uneven surface
Notes	Drive with passenger	Drive without passenger



CHECKING THE STEERING

Carefully read p. 39 (MAINTENANCE).

Occasionally check the steering slack.

To check the steering:

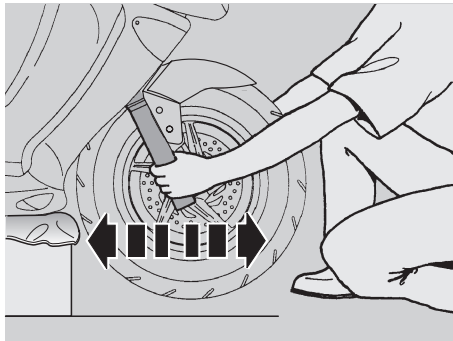
- ◆ Position the vehicle on the centre stand.

NOTE Prepare a support whose height should be:

- **125** **150** 235 mm
- **250** 185 mm

The support base must measure 200 x 200 mm.

- ◆ Place the support under the vehicle and a spongy cloth between them, so that the front wheel can move freely and the vehicle cannot fall down.



⚠ CAUTION

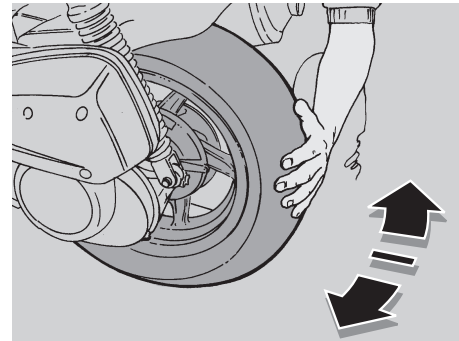
Make sure that the vehicle is stable.

- ◆ Shake the fork in the riding direction (see figure).

⚠ CAUTION

Do not shake the fork excessively, otherwise you may take in consideration the movement of the stand, thus observing an incorrect slack. Repeat the previous operation more than once.

- ◆ If you find that there is a considerable slack, contact your **aprilia** Official Dealer to restore the optimal steering conditions.



CHECKING THE ENGINE FULCRUM AXIS

Carefully read p. 39 (MAINTENANCE).

Periodically check the slack existing between the engine pin bushings.

To carry out this operation, proceed as follows:

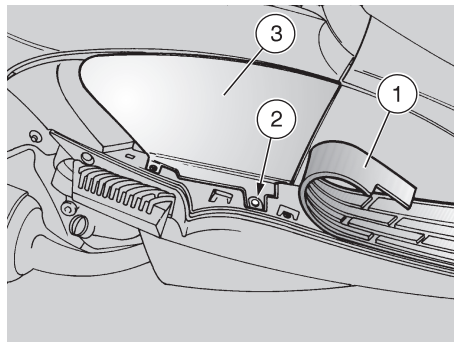
- ◆ Position the vehicle on the centre stand.
- ◆ Shake the wheel transversally with respect to the riding direction.
- ◆ If any slack should be noticed, contact your **aprilia** Official Dealer, to restore the optimal operating conditions.



REMOVING THE RIGHT AND LEFT INSPECTION COVERS

Carefully read p. 39 (MAINTENANCE).

- ◆ Position the vehicle on the centre stand.
- ◆ Remove the right or left mat (1), by lifting it with your hands.
- ◆ Unscrew and remove the screw (2) and take the washer.



⚠ CAUTION

Proceed with care.

Do not damage the tangs and/or their seats.

Handle the plastic and painted components with care and avoid scraping or damaging them.

- ◆ By means of a screwdriver, lift the lower part of the inspection cover (3) with force, until it comes out of its seat.

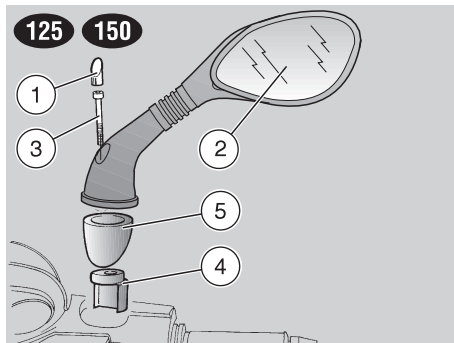
⚠ CAUTION

Upon reassembly, fit the tangs correctly in the appropriate seats.



REMOVING THE FRONT PART OF THE FAIRING

If you need assistance or technical advice, consult your **aprilia** Official Dealer, who can ensure you prompt and accurate servicing.



REMOVING THE REAR-VIEW MIRRORS

Carefully read p. 39 (MAINTENANCE).

The following information refers to one rear-view mirror only, but is valid for both.

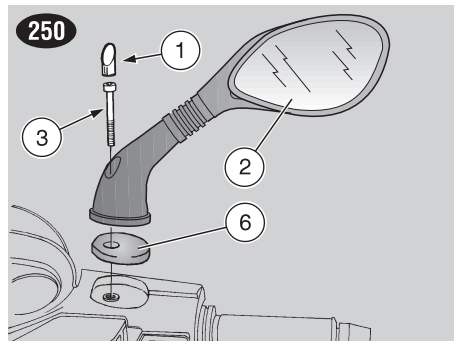
- ◆ Position the vehicle on the centre stand.

NOTE Group the components of the left and right rear-view mirrors separately.

- ◆ Remove the cover (1).

⚠ CAUTION

Hold the rear-view mirror (2), to prevent it from accidentally falling down.



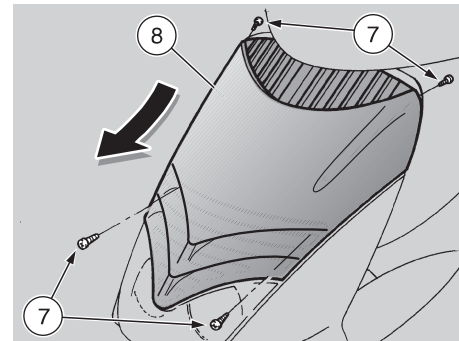
- ◆ Unscrew the screw (3).

Screw (3) driving torque: 20 Nm (2 kgm).

⚠ CAUTION

Handle the plastic and painted components with care and avoid scraping or damaging them.

- ◆ Remove the rear-view mirror (2).
- ◆ **125 150** Take the support (4) and the protection element (5).
- ◆ **250** Remove the gasket (6).



REMOVING THE FRONT COVER

Carefully read p. 39 (MAINTENANCE).

- ◆ Position the vehicle on the centre stand.
- ◆ Unscrew and remove the screws (7).

⚠ CAUTION

Proceed with care.

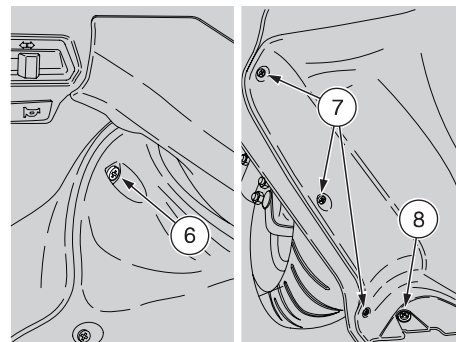
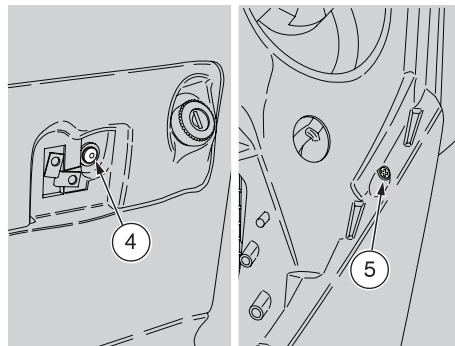
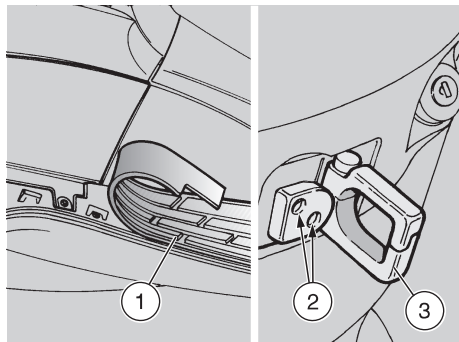
Do not damage the tangs and/or their seats.

Handle the plastic and painted components with care and avoid scraping or damaging them.

- ◆ Remove the front cover (8) by pulling it downwards.

⚠ CAUTION

Upon reassembly, fit the tangs correctly in the appropriate seats.



REMOVING THE FRONT INNER SHIELD

Carefully read p. 39 (MAINTENANCE).

- ◆ Position the vehicle on the centre stand.
- ◆ ★ Remove the footboard mat (1).
- ◆ Unscrew and remove the two fastening screws (2) of the bag hook.
- ◆ Remove the bag hook (3).
- ◆ Unscrew and remove the screw (4).
- ◆ Remove the front cover, see p. 51 (REMOVING THE FRONT COVER).
- ◆ ★ Unscrew and remove the screw (5).
- ◆ ★ Unscrew and remove the screw (6).
- ◆ ★ Unscrew and remove the screws (7).
- ◆ ★ Unscrew and remove the screw (8) and take the relevant washer.

⚠ CAUTION

Proceed with care.

Do not damage the tangs and/or their seats.

Handle the plastic and painted components with care and avoid scraping or damaging them.

- ◆ Withdraw and remove the front inner shield by rotating it toward the saddle.

⚠ CAUTION


Upon reassembly, fit the tangs correctly in the appropriate seats.

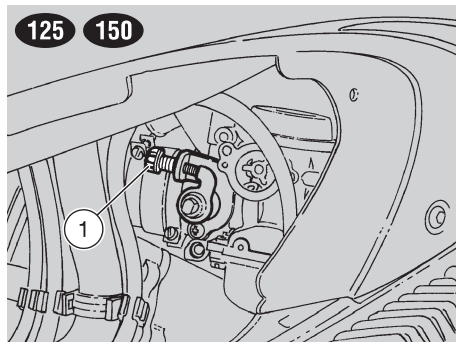
IDLING ADJUSTMENT

Carefully read p. 39 (MAINTENANCE).

Adjust the idling every time it is irregular.

To carry out this operation, proceed as follows:

- ◆ Ride for a few miles until reaching the normal running temperature, see p. 17 (Coolant temperature indicator “”), then stop the engine.
- ◆ Position the vehicle on the centre stand.
- ◆ Remove the left inspection cover, see p. 50 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).
- ◆ Connect an electronic revolution counter to the spark plug cable.
- ◆ Start the engine.



The engine minimum rpm must be approximately the following:

- **125 150** 1400 ± 50 rpm;
- **250** 1500 ± 100 rpm.

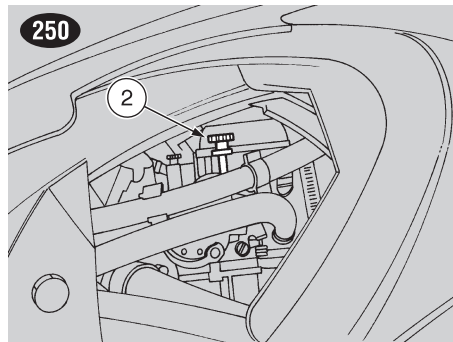
In this case the engine does not make the rear wheel rotate.

If necessary:

- ◆ **125 150** Act on the adjusting screw (1) positioned on the carburettor.
- ◆ **250** Act on the adjusting screw (2) positioned on the carburettor.

By **SCREWING IT** (clockwise), you increase the engine rpm.

By **UNSCREWING IT** (anticlockwise), you decrease the engine rpm.



- ◆ Act on the throttle grip, accelerating and decelerating a few times to make sure that it functions correctly and to check if the idling speed is constant.

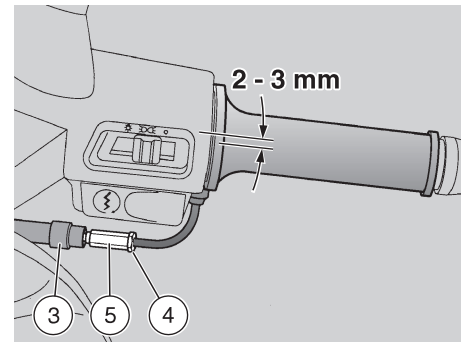
NOTE Do not act on the air adjusting screw, to avoid variations of the carburation setting.

If necessary, contact your **aprilia** Official Dealer.

ADJUSTING THE ACCELERATOR CONTROL

Carefully read p. 39 (MAINTENANCE).

The idle stroke of the throttle grip must be **2 – 3 mm**, measured on the edge of the grip itself.

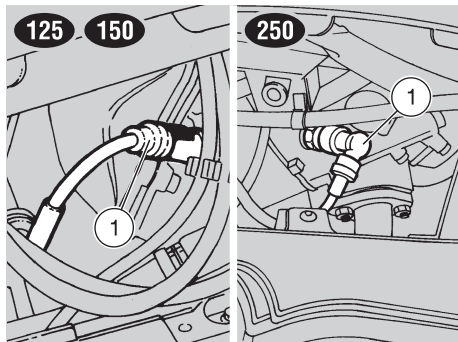


If this is not the case, proceed as follows:

- ◆ Position the vehicle on the centre stand.
- ◆ Withdraw the protection element (3).
- ◆ Loosen the lock nut (4).
- ◆ Rotate the adjuster (5) in such a way as to restore the prescribed value.
- ◆ After the adjustment, tighten the lock nut (4) and check the idle stroke again.
- ◆ Put back the protection element (3).

⚠ WARNING

After the adjustment, make sure that the rotation of the handlebar does not modify the engine idling rpm and that the throttle grip returns smoothly and automatically to its original position after being released.



SPARK PLUG

Carefully read p. 39 (MAINTENANCE).

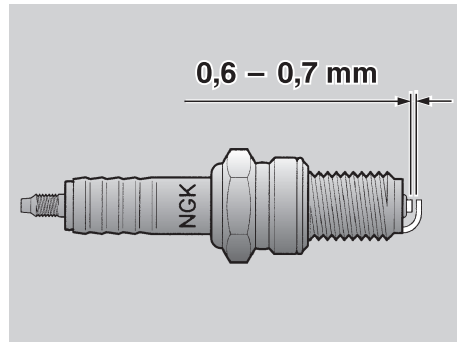
Check the spark plug after the first 1000 km (625 mi) and successively every 6000 km (3750 mi).

125 150 Change the spark plug every 6000 km (3750 mi).

Periodically remove the spark plug and clean it carefully, removing carbon deposits; change it if necessary.

To reach the spark plug:

- ◆ Remove the left inspection cover (**250** right inspection cover), see p. 50 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).



To remove and clean the spark plug:

⚠ WARNING

Before carrying out the following operations, let the engine and the exhaust silencer cool down until they reach room temperature, in order to avoid burns.

- ◆ Take off the spark plug cap (1).
- ◆ Remove all the dirt from the base of the spark plug, then unscrew it with the spanner you will find in the tool kit and extract it from its seat, taking care that neither dust nor other substances enter the cylinder.
- ◆ Make sure that there are neither carbon deposits, nor corrosion marks on the electrode and on the central porcelain part; if necessary, clean them with the special cleaners for spark plugs, with an iron wire and/or a metal brush.

- ◆ Energetically blow some air, in order to prevent the removed residues from getting into the engine.

If the spark plug has crackings on the insulating material, corroded electrodes or excessive deposits, it must be changed.

- ◆ Check the spark plug gap with a thickness gauge.

The gap must be **0,6 – 0,7 mm**; if necessary adjust it, carefully bending the earth electrode.

- ◆ Make sure that the washer is in good conditions. With the washer on, screw the spark plug by hand in order not to damage the thread.

- ◆ Tighten the spark plug by means of the spanner you will find in the tool kit, giving it half a turn to compress the washer.

Spark plug driving torque:

18 Nm (1,8 kgm).

⚠ CAUTION

The spark plug must be well tightened, otherwise the engine may overheat and be seriously damaged.

Use the recommended type of spark plug only, see p. 66 (TECHNICAL DATA), in order not to compromise the life and performance of the engine.

- ◆ Position the spark plug cap properly, so that it does not come off due to the vibrations of the engine.
- ◆ Put back the left inspection cover (**250** right inspection cover), see p. 50 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).

BATTERY

Carefully read p. 39 (MAINTENANCE).

Check the electrolyte level and the tightening of the terminals after the first 1000 km (625 mi) and then every 6000 km (3750 mi).

⚠ WARNING

Risk of fire.

Keep fuel and other flammable substances away from the electrical components.

The electrolyte in the battery is toxic and caustic and if it gets in contact with the skin it can cause burns, since it contains sulphuric acid. Wear protection clothes, a face mask and/or goggles during maintenance operations.

In case of contact with the skin, rinse with plenty of water.

In case of contact with the eyes, rinse with plenty of water for fifteen minutes, then consult an oculist without delay.

If the electrolyte is accidentally swallowed, drink a lot of water or milk, then continue drinking milk of magnesia or vegetable oil and consult a doctor without delay.

The battery gives off explosive gases; keep it away from flames, sparks, cigarettes and any other source of heat.


During the recharging or the use, make sure that the room is properly ventilated and avoid inhaling the gases released during the recharging.

KEEP AWAY FROM CHILDREN.

Do not incline the vehicle too much, in order to avoid dangerous leaks of the battery fluid.

⚠ CAUTION

Never invert the connection of the battery cables.

Connect and disconnect the battery with the ignition switch in position “”, otherwise some components may be damaged.

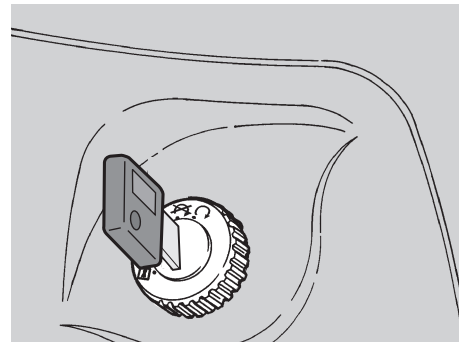
Connect first the positive cable (+) and then the negative cable (-). Disconnect following the reverse order.

The electrolyte is corrosive.

Do not pour or spill it, especially on the plastic parts.

In case of installation of a “MAINTENANCE-FREE” battery, to recharge it use a specific recharger (type with constant voltage/ampereage or constant voltage).

The use of a traditional battery recharger may damage the battery.



LONG INACTIVITY OF THE BATTERY

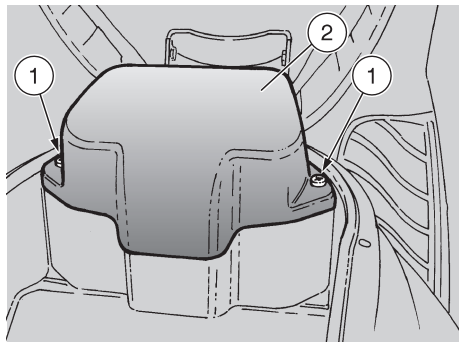
If the vehicle remains unused for more than fifteen days, it is necessary to recharge the battery, in order to prevent its sulphation, see p. 57 (RECHARGING THE BATTERY).

◆ Remove the battery, see p. 56 (REMOVING THE BATTERY) and put it in a cool and dry place.

It is important to check the charge periodically (about once a month), during the winter or when the vehicle remains unused, in order to prevent the deterioration of the battery.

◆ Recharge it completely with a normal charge, see p. 57 (RECHARGING THE BATTERY).

If the battery remains on the vehicle, disconnect the cables from the terminals.

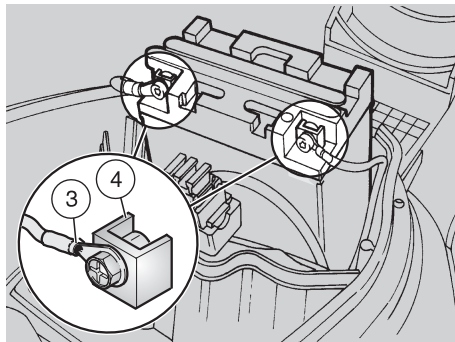


REMOVING THE BATTERY COVER

Carefully read p. 55 (BATTERY).

NOTE Position the vehicle on firm and flat ground.

- ◆ Make sure that the ignition switch is in position "X".
- ◆ Raise the saddle, see p. 22 (UNLOCKING / LOCKING THE SADDLE).
- ◆ Unscrew and remove the two screws (1).
- ◆ Remove the battery cover (2).

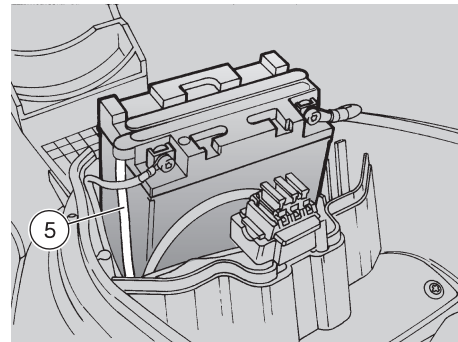


CHECKING AND CLEANING THE TERMINALS

- ◆ Remove the battery cover, see beside (REMOVING THE BATTERY COVER).
- ◆ Make sure that the cable terminals (3) and the battery terminals (4) are:
 - in good conditions (and not corroded or covered with deposits);
 - covered with neutral grease or Vaseline.

If necessary:

- ◆ Disconnect first the negative (–) and then the positive cable (+).
- ◆ Brush with a wire brush to eliminate any sign of corrosion.
- ◆ Reconnect first the positive (+) and then the negative cable (–).
- ◆ Cover the terminals of the cables and of the battery with neutral grease or Vaseline.



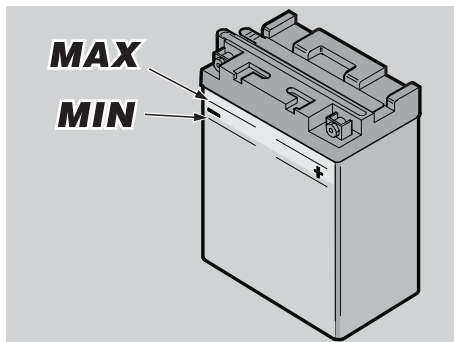
REMOVING THE BATTERY

- ◆ Remove the battery cover, see beside (REMOVING THE BATTERY COVER).
- ◆ Disconnect first the negative (–) and then the positive cable (+).
- ◆ Remove the battery breather pipe (5).
- ◆ Remove the battery from its compartment and put it on a flat surface, in a cool and dry place.

⚠ WARNING

Once it has been removed, the battery must be stored in a safe place and kept away from children.

- ◆ Put back the battery cover, see beside (REMOVING THE BATTERY COVER).



CHECKING THE ELECTROLYTE LEVEL

To check the electrolyte level, proceed as follows:

- ◆ Remove the battery cover, see p. 56 (REMOVING THE BATTERY COVER).
- ◆ Make sure that the fluid level is included between the two “MIN” and “MAX” notches stamped on the battery side. Otherwise:
- ◆ Remove the element plugs.

⚠ CAUTION

Top up with distilled water only. Do not exceed the “MAX” mark, since the electrolyte level increases during the recharge.

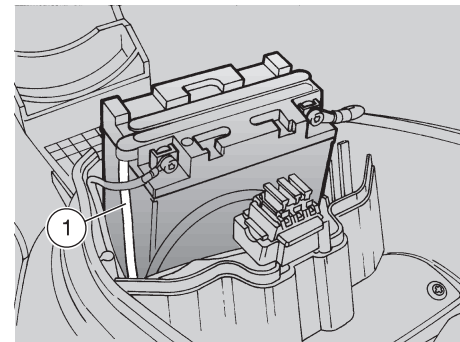
- ◆ Top up by adding distilled water.

RECHARGING THE BATTERY

- ◆ Remove the battery, see p. 56 (REMOVING THE BATTERY).
- ◆ Remove the element plugs.
- ◆ Check the electrolyte level, see beside (CHECKING THE ELECTROLYTE LEVEL).
- ◆ Connect the battery with a battery charger.
- ◆ A recharge with an amperage equal to 1/10th of the battery capacity is recommended.
- ◆ After the recharging operation, check the electrolyte level again and if necessary top up with distilled water.
- ◆ Put back the element plugs.

⚠ CAUTION

Reassemble the battery only 5-10 minutes after disconnecting the recharger, since the battery continues to produce gas for a short lapse of time.



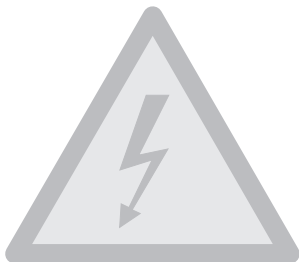
INSTALLING THE BATTERY

- ◆ Remove the battery cover, see p. 56 (REMOVING THE BATTERY COVER).
- ◆ Put the battery in its container.
- ◆ Connect the battery breather pipe (1).

⚠ CAUTION

Always connect the battery breather pipe, to prevent the sulphuric acid vapours from corroding the electric system, painted parts, rubber elements or gaskets when they exit the breather pipe itself.

- ◆ Connect, in order, the positive (+) and negative (–) cable.
- ◆ Cover the terminals of the cables and of the battery with neutral grease or Vaseline.
- ◆ Put back the battery cover, see p. 56 (REMOVING THE BATTERY COVER).



CHANGING THE FUSES

Carefully read p. 39 (MAINTENANCE).

⚠ CAUTION

Do not repair faulty fuses.

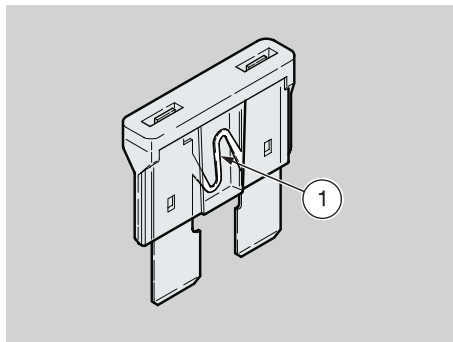
Never use fuses different from the recommended ones.

The use of unsuitable fuses may damage the electric system or, in case of short circuit, may even cause a fire.

NOTE If a fuse blows frequently, there probably is a short circuit or an overload in the electric system.

In this case it is advisable to consult an **aprilia** Official Dealer.

If an electric component does not work or works irregularly, or if the engine fails to start, it is necessary to check the fuses. Check the 7,5 A and the 15 A fuses first and then the 20A fuse.

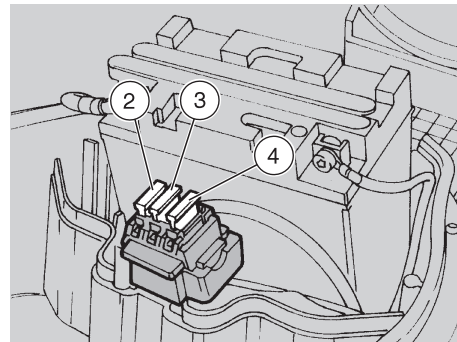


To carry out the checking:

- ◆ Remove the battery cover, see p. 56 (REMOVING THE BATTERY COVER).
- ◆ Extract the fuses one by one and check if the filament (1) is broken.
- ◆ Before replacing a fuse, try to find out the cause of the trouble, if possible.
- ◆ Then replace the damaged fuse with a new one having the same amperage.

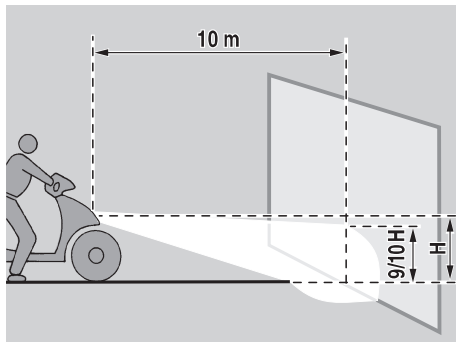
NOTE If you use one of the spare fuses, put a new fuse in the appropriate seat.

- ◆ Put back the battery cover, see p. 56 (REMOVING THE BATTERY COVER).



ARRANGEMENT OF THE FUSES

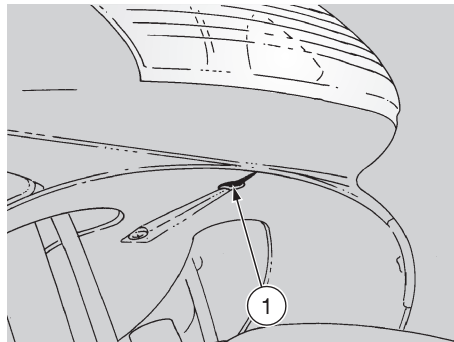
- **7,5A (2) fuse**
From the ignition switch to: ignition.
- **15A (3) fuse**
From the ignition switch to: all light loads and horn.
- **20A (4) fuse**
From the battery to: ignition switch, voltage regulator, electric fan.



VERTICAL ADJUSTING OF THE HEADLIGHT BEAM

To rapidly check the correct direction of the beam, place the vehicle on flat ground, 10 m away from a wall.

Turn on the low beam, sit on the vehicle and make sure that the beam projected on the wall is slightly under the horizontal line of the headlight (about 9/10th of the total height).

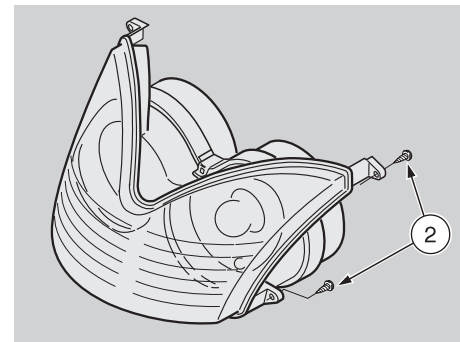


To adjust the headlight beam:

- ◆ Turn the appropriate screw (1) with a screwdriver.

By TURNING IT CLOCKWISE, you set the beam upwards.

By TURNING IT ANTICLOCKWISE, you set the beam downwards.



125 150 HORIZONTAL ADJUSTMENT OF THE HEADLIGHT BEAM USA

- ◆ Remove the front inner shield, see p. 52 (REMOVING THE FRONT INNER SHIELD).
- ◆ ★ Unscrew and remove the two screws (2).

NOTE Depending on the adjustment to be carried out, the screws (2) must be replaced with longer ones (supplied in kit).

- ◆ Position the appropriate spacers (supplied in kit) between the headlight fastening points and the front outer shield, according to the type of adjustment to be carried out.

NOTE Use fastening screws suitable for the selected spacers.

- ◆ ★ Insert and tighten the two screws (2).

BULBS

Carefully read p. 39 (MAINTENANCE).

⚠ WARNING

Risk of fire.

Keep fuel and other flammable substances away from the electrical components.

⚠ CAUTION

Before changing a bulb, move the ignition switch to position "⏻" and wait a few minutes, so that the bulb cools down.

Change the bulb wearing clean gloves or using a clean and dry cloth.

Do not leave fingerprints on the bulb, since these may cause its overheating and consequent breakage.

If you touch the bulb with bare hands, remove any fingerprint with alcohol, in order to avoid any damage.

DO NOT FORCE THE ELECTRIC CABLES.

NOTE Before changing a bulb, check the fuses, see p. 58 (CHANGING THE FUSES).

CHANGING THE DASHBOARD BULBS AND THE CLOCK BATTERY

If you need assistance or technical advice, consult your **aprilia** Official Dealer, who can ensure you prompt and accurate servicing.

CHANGING THE FRONT DIRECTION INDICATOR BULBS

Carefully read beside (BULBS).

To change the bulbs:

NOTE The following information refers to one direction indicator only, but is valid for both.

- ◆ Unscrew and remove the screw (1).

⚠ CAUTION

Proceed with care.

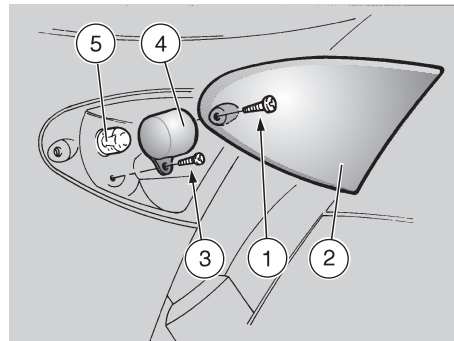
Do not damage the tangs and/or their seats.

- ◆ Remove the protection screen (2).
- ◆ Unscrew and remove the screw (3).

⚠ CAUTION

A focal lens is positioned in the inner part of the coloured screen; take care not to invert the right and left screen.

- ◆ Remove the coloured screen (4).
- ◆ Press the bulb (5) slightly and rotate it anticlockwise.



- ◆ Extract the bulb from its seat.

NOTE Insert the bulb in the bulb socket, making the two bulb pins coincide with the relevant guides on the socket.

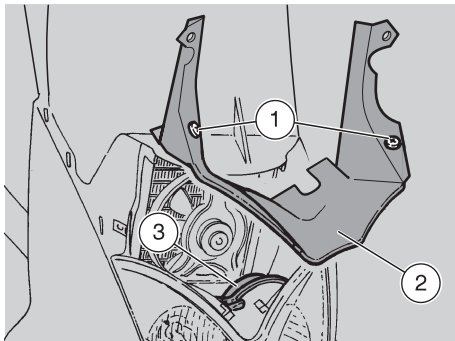
- ◆ Correctly install a new bulb of the same type.

For the reassembly:

NOTE Upon reassembly, correctly position the protection screen (2) in its seat. Do not invert the position of the screws (1) and (3).

⚠ CAUTION

Tighten the screw (1) and the screw (3) moderately and with great care, in order to avoid damaging the protection screen (2) and the coloured screen (4).



CHANGING THE HEADLIGHT BULBS

Carefully read p. 60 (BULBS).

The headlight contains:

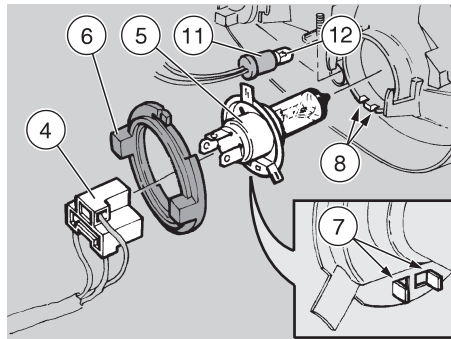
- Two low/high beam bulbs.
- One parking light bulb (two parking light bulbs **J UK**).

To change the bulbs, proceed as follows:

- ◆ Remove the front cover, see p. 51 (REMOVING THE FRONT COVER).
- ◆ Unscrew and remove the screws (1) and take the washers.
- ◆ Remove the air conveyor (2) by withdrawing it from the upper pins.

NOTE Do not remove the protection element (3) completely, since it is fixed to the headlight body with two rivets.

- ◆ By lifting the upper fastening tang, move the protection element (3) with your hands.



LOW BEAM BULBS/HIGH BEAM BULBS (HALOGEN)

⚠ CAUTION

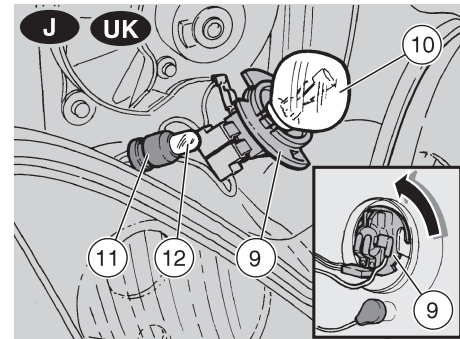
To extract the bulb electric connector, do not pull its electric wires.

- ◆ Grasp the bulb electric connector (4), pull it and disconnect it from the bulb (5).
- ◆ Rotate the bulb socket (6) anticlockwise and extract it from the reflector.
- ◆ Extract the bulb (5).

For the reassembly:

NOTE Insert the bulb (5) in the reflector, by making the two elements (7) on the bulb coincide with the respective guides (8) on the reflector.

- ◆ Position the bulb socket (6) in the reflector and rotate it clockwise.
- ◆ Connect the bulb electric connector (4).



LOW/HIGH BEAM BULBS **J UK**

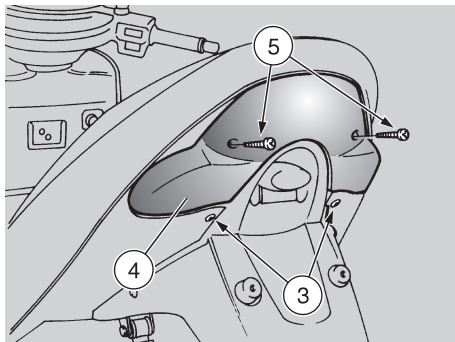
- ◆ Rotate the bulb socket (9) anticlockwise and extract it from its seat.
- ◆ Slightly press the low/high beam bulb (10) and rotate it anticlockwise, extract it and replace it with a new one of the same type.

PARKING LIGHT BULBS

⚠ CAUTION

To extract the bulb socket, do not pull its electric wires.

- ◆ Grasp the bulb socket (11), pull it and take it out of its seat.
- ◆ Extract the parking light bulb (12) and replace it with a new one of the same type.



CHANGING THE REAR LIGHT BULB

Carefully read p. 60 (BULBS).

The rear light contains:

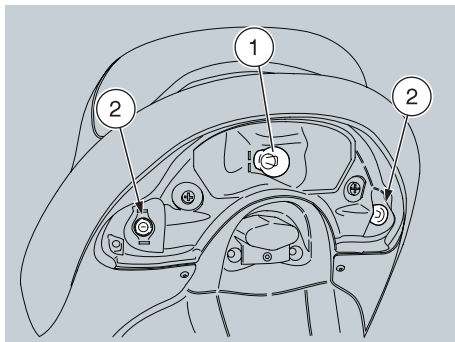
- A parking light/stoptight bulb (1).
- Two rear direction indicator bulbs (2).

To change them:

- ◆ Loosen the screws (3) in such a way as to facilitate the successive reinsertion of the protection screen (4).
- ◆ Unscrew and remove the screws (5).

⚠ CAUTION

While removing the protection screen, proceed carefully in order not to break the cog.



- ◆ Remove the protection screen (4).
- ◆ Slightly press the bulb and rotate it anti-clockwise.
- ◆ Remove the bulb from its seat.

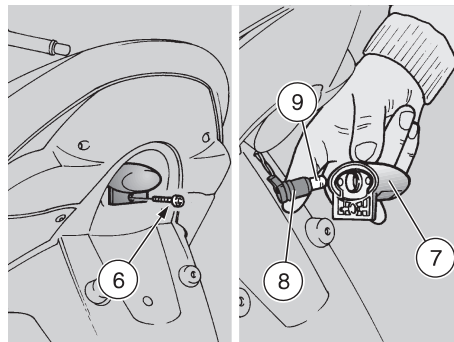
NOTE Insert the bulb in the socket, making the two bulb pins coincide with the relevant guides on the socket.

- ◆ Correctly install a new bulb of the same type.

NOTE Upon reassembly, correctly position the protection screen in its seat.

⚠ CAUTION

Tighten the screws (5) carefully, without exerting too much pressure, in order to avoid damaging the protection screen.



CHANGING THE NUMBER PLATE BULB

Carefully read p. 60 (BULBS).

To change the bulb:

- ◆ Unscrew and remove the screw (6).
- ◆ Remove the light unit (7).

⚠ CAUTION

Do not pull the electric wires to extract the bulb socket.

- ◆ Grasp the bulb socket (8), pull it and remove it from its seat.
- ◆ Withdraw the bulb (9) and replace it with a new one of the same type.

⚠ WARNING

Before transporting the vehicle, it is necessary to empty the fuel tank and the carburettor completely, see below (DRAINING THE FUEL TANK) making sure that both are completely dry.

During transport the vehicle must be kept in vertical position and be firmly anchored, in order to avoid any leakage of fuel, oil or coolant.

In case of failure, do not tow the vehicle, but ask for assistance.

DRAINING THE FUEL TANK

Carefully read p. 24 (FUEL).

⚠ WARNING

Risk of fire.
Wait until the engine and the exhaust silencer have completely cooled down.
Fuel vapours are noxious for your health.

Before proceeding, make sure that the room in which you are working is properly ventilated.

Do not inhale fuel vapours.

Do not smoke, nor use free flames.

DO NOT DISPOSE OF FUEL IN THE ENVIRONMENT.

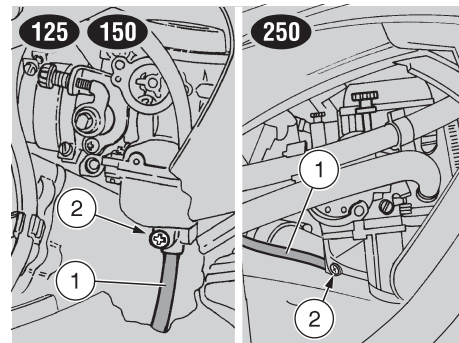
- ◆ Position the vehicle on the centre stand.
- ◆ Stop the engine and wait until it has cooled down.
- ◆ Prepare a container with capacity exceeding the fuel quantity present in the tank and put it on the ground on the left side of the vehicle.
- ◆ Remove the filler cap.
- ◆ Empty the fuel tank by means of a manual pump or a similar system.

⚠ WARNING

After draining the tank, tighten the filler cap.

To drain the carburettor completely, proceed as follows:

- ◆ Remove the left inspection cover, see p. 50 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).



- ◆ Put the free end of the pipe (1) into a receptacle.
- ◆ Open the carburettor outlet by loosening the drain screw (2) positioned under the float chamber.

When all the fuel has flowed out of the carburettor:

- ◆ Tighten the drain screw (2) completely.

⚠ CAUTION

Tighten the drain screw (2) with care, to avoid fuel leakages from the carburettor during the refuelling.

If necessary, contact an **aprilia** Official Dealer.



Clean the vehicle frequently if it used in particular areas or conditions, such as:

- ◆ Polluted areas (cities and industrial areas).
- ◆ Areas characterized by an high percentage of salinity and humidity (sea areas, hot and humid climates).
- ◆ Particular conditions (use of salt and anti-ice chemical products on the roads during the winter).
- ◆ Avoid leaving deposits of industrial and polluting powders, tar spots, dead insects, bird droppings, etc. on the body.
- ◆ Avoid parking the vehicle under trees, since in some seasons residues, resins, fruits or leaves fall down, which contain substances that may damage the paint.

⚠ WARNING

After the vehicle has been washed, its braking functions could be temporarily impaired because of the presence of water on the grip surfaces. Calculate long braking distances to avoid accidents. Brake repeatedly to restore normal conditions.

Carry out the preliminary checking operations, see p. 32 (PRELIMINARY CHECKING OPERATIONS).

To remove dirt and mud from the painted surfaces use a low- pressure water jet, carefully wet the dirty parts, remove mud and filth with a soft car sponge impregnated with a lot of water and shampoo ($2 \div 4\%$ parts of shampoo in water). Then rinse with plenty of water and dry with chamois leather.

To clean the outer parts of the engine use a degreaser, brushes and wipers.

⚠ CAUTION

Polish with silicone wax only after having carefully washed the vehicle. Do not wash the vehicle under the sun, especially during the summer, when the body is still warm, since if the shampoo dries before being rinsed away, it can damage the paint.

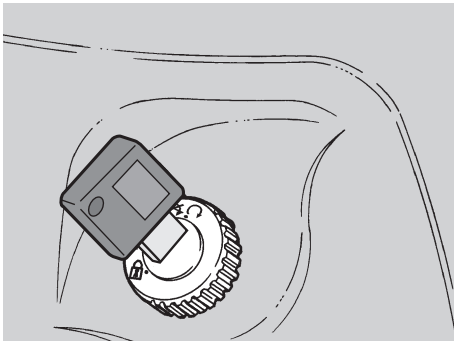
Do not use liquids at a temperature exceeding 40°C to clean the plastic components of the vehicle

Use neither high pressure water/air jets, nor vapour jets on the following parts: wheel hubs, controls on the right and on the left side of the handlebar, bearings, brake pumps, instruments and indicators, silencer exhaust, glove/tool kit compartment, ignition switch/steering lock.

Do not use alcohol or solvents to clean the rubber and plastic parts and the saddle: use water and mild soap.

⚠ WARNING

Do not apply protection waxes onto the saddle, in order not to make it too slippery.



LONG PERIODS OF INACTIVITY

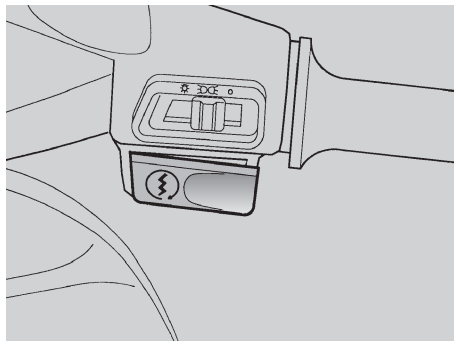
After a long period of inactivity of the vehicle some precautions are necessary to avoid any problem.

Further, it is important to carry out the necessary repairs and a general check up before the period of inactivity, since you could forget to carry them out later.

Proceed as follows:

- ◆ Empty the fuel tank and the carburettor, see p. 63 (DRAINING THE FUEL TANK).
- ◆ Remove the spark plug, see p. 54 (SPARK PLUG).
- ◆ Pour a teaspoon of engine oil (5-10 cm³) into the cylinder.

NOTE Put a clean cloth on the cylinder, near the spark plug seat, in order to protect it from oil sprays.



- ◆ Turn the ignition switch to position "O" and press the engine start push button "Ⓢ" for a few seconds, to distribute the oil evenly on the cylinder surfaces.
- ◆ Remove the cloth.
- ◆ Put back the spark plug.
- ◆ Remove the battery, see p. 56 (REMOVING THE BATTERY) and p. 55 (LONG INACTIVITY OF THE BATTERY).
- ◆ Wash and dry the vehicle, see p. 64 (CLEANING).
- ◆ Polish the painted surfaces with wax.
- ◆ Inflate the tyres, see p. 66 (TECHNICAL DATA).
- ◆ By means of a suitable support, position the vehicle so that both tyres are raised from the ground.
- ◆ Place the vehicle in an unheated, not-humid room, away from sunlight, with minimum temperature variations.



- ◆ Position and tie a plastic bag on the final pipe of the exhaust silencer, in order to prevent moisture from getting into it.
- ◆ Cover the vehicle avoiding the use of plastic or waterproof materials.

AFTER A PERIOD OF INACTIVITY

- ◆ Uncover and clean the vehicle, see p. 64 (CLEANING).
- ◆ Check the charge of the battery, see p. 57 (RECHARGING THE BATTERY) and install it, see p. 57 (INSTALLING THE BATTERY).
- ◆ Refuel, see p. 24 (FUEL).
- ◆ Carry out the preliminary checking operations, see p. 32 (PRELIMINARY CHECKING OPERATIONS).

⚠ WARNING






Have a test ride at moderate speed in a low-traffic area.

TECHNICAL DATA

Description		125	150	250
DIMENSIONS	Max. length	1830 mm		1865 mm
	Max. length (rear mudguard extension included)	1920 mm		1955 mm
	Max. width	740 mm		770 mm
	Max. height (front part of the fairing included)	1230 mm		1180 mm
	Seat height	840 mm		830 mm
	Distance between centres	1310 mm		1325 mm
	Min. ground clearance	170 mm		135 mm
	Weight ready for starting	136 kg		153 kg
ENGINE	Type	one-cylinder, 4-stroke engine with overhead camshaft		
	Number of valves	4		2
	Number of cylinders	1		
	Total displacement	124,91 cm ³	150,95 cm ³	249,78 cm ³
	Bore / stroke	56,4 mm / 50,0 mm	62,0 mm / 50,0 mm	69,0 mm / 66,8 mm
	Compression ratio	12,5 ± 0,5 : 1		10 ± 0,5 : 1
	Starting	electric		
	Engine idling rpm	1400 ± 50 rpm		1500 ± 100 rpm
	Clutch	automatic, dry centrifugal clutch		
	Change gear	automatic		
	Lubrication system	wet sump lubrication, forced circulation with mechanical pump; oil level check by means of a graduated dipstick		
	Cooling	liquid cooling, forced circulation with centrifugal pump		
TRANSMISSION	Speed change gear	automatic stepless		
	Primary	V-belt		
	Secondary	gears		
	Total engine/wheel ratio	minimum 27,176 maximum 8,152		minimum 15,808 maximum 5,539

Description		125	150	250
CAPACITIES	Fuel (reserve included)	9 ℓ		9,5 ℓ
	Fuel reserve	1,8 ℓ		1,5 ℓ
	Engine oil - engine oil change only - engine oil and engine oil filter change - change for engine overhaul	1050 cm ³ 1100 cm ³ 1150 cm ³		1200 cm ³ — 1400 cm ³
	Transmission oil	100 cm ³		250 cm ³
	Coolant (50% water + 50% antifreeze with ethylene glycol)	1,2 ℓ		1,3 ℓ
	Front fork oil	148 cm ³ (for each rod)		
	Seats	2		
	Vehicle max. load (driver + luggage)	105 kg		
	Vehicle max. load (driver + passenger + luggage)	180 kg		200 kg
CARBURETTOR	Model	MIKUNI BS 26 - 91	MIKUNI BS 26	TEI KEI 4UC
	– alternative	KEIHIN CVK 26		—
	Model CH	MIKUNI BS 26 - 61		TEI KEI 4UD
	Choke tube	—		equivalent diameter 28 mm
	Choke tube (Mikuni)	equivalent diameter 22,2 mm		—
	Choke tube (Keihin)	equivalent diameter 25 mm		—
FUEL SUPPLY	Type	vacuum pump		
	Fuel	Leaded (4 Stars UK) or unleaded premium grade petrol according to the DIN 51600 standard, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.)		premium grade unleaded petrol, min. O.N. 91 (N.O.R.M.) and 81 (N.O.M.M.).

Description		125	150	250
FRAME	Type	one beam at the front, split in two overlapping cradles at the rear, in steel tubes with high yield point		
	Steering inclination angle	26°		28°
	Fore stroke	85 mm		100 mm
SUSPENSIONS	Front	hydraulically operated telescopic fork		
	Stroke	90 mm		
	Rear	two hydraulic shock absorbers with double effect and preload adjustment with five positions		
	Wheel stroke	104 mm		90 mm
BRAKES	Front	disc brake - Ø 220 mm - with hydraulic transmission		
	Rear	disc brake - Ø 190 mm - with hydraulic transmission		disc brake - Ø 220 mm - with hydraulic transmission
WHEEL RIMS	Type	in light alloy		
	Front	3,00 x 12"		
	Rear	3,50 x 12"		
TYRES	Type	Tubeless		
	FRONT	130 / 70 - 12" 56 L		
	- alternatively	120 / 70 - 12" 51 P		130 / 70 - 12" 56 P 130 / 70 - 12" 62 L
	REAR	140 / 70 - 12" 60 J	140 / 70 - 12" 60L	130 / 70 - 12" 62 L
	- alternatively	—	—	130 / 70 - 12" 62 P
	STANDARD INFLATION PRESSURE			
	Front	190 kPa (1,9 bar)		
	Rear	190 kPa (1,9 bar)		210 kPa (2,1 bar)
	INFLATION PRESSURE WITH PASSENGER			
	Front	200 kPa (2,0 bar)		210 kPa (2,1 bar)
	Rear	220 kPa (2,2 bar)		240 kPa (2,4 bar)

Description		125	150	250
IGNITION	Type	C.D.I. / Inductive		
	Spark advance	8° ± 2° - before T.D.C. at 1600 rpm		minimum 10° at 1500 rpm maximum 32° at 5000 rpm
SPARK PLUG	Standard	NGK CR8E VX		NGK DR7EA NGK DR8EA
	Spark plug gap	0,6 – 0,7 mm		
ELECTRIC SYSTEM	Battery	12 V - 12 Ah		
	Fuses	20 - 15 - 7,5 A		
	Generator (with permanent magnet)	12 V - 180 W		12 V - 200 W
BULBS	Low/high beam	12 V - 35 / 35 W		
	Low/high beam  	12 V - 35 / 35 W		
	Front parking light	12 V - 3 W		
	Direction indicators	12 V - 10 W		
	Rear parking light/stoplight	12 V - 5/21 W		
	Number plate	12 V - 5 W		
	Dashboard lighting	12 V - 1,2 W		
WARNING LIGHTS	Direction indicators	12 V - 2 W		
	Engine oil pressure  	12 V - 2 W		–
	Engine oil change 	–		12 V - 2 W
	Low beam	12 V - 2 W		
	High beam	12 V - 2 W		
	Low fuel	12 V - 2 W		



LUBRICANT CHART

Engine oil (recommended):  SUPERBIKE 4, SAE 5W-40.

As an alternative to the recommended oil, it is possible to use high-quality oils with characteristics in compliance with or superior to the CCMC G-4, A.P.I. SG specifications.

Transmission oil (recommended):  F.C., SAE 75 W - 90.

As an alternative to the recommended oil, it is possible to use high-quality oils with characteristics in compliance with or superior to the A.P.I. GL4 specifications.

Fork oil (recommended): fork oil  F.A. 5W or  F.A. 20 W.

If you need an oil with intermediate characteristics in comparison with the two recommended products, these can be mixed as indicated below:

SAE 10W  F.A. 5W 67% of the volume, +  F.A. 20W 33% of the volume.


SAE 15W  F.A. 5W 33% of the volume, +  F.A. 20W 67% of the volume.

Bearings and other lubrication points (recommended):  125  150  BIMOL GREASE 481 –  250  AUTOGREASE MP.

As an alternative to the recommended product, use high-quality grease for rolling bearings, working temperature range -30°C...+140°C, dripping point 150°C...230°C, high protection against corrosion, good resistance to water and oxidation.

Protection of the battery poles: neutral grease or Vaseline.

Spray grease for chains (recommended):  CHAIN SPRAY.

Brake fluid (recommended):  F.F., DOT 5 (compatible with DOT 4).

WARNING

Use new brake fluid only.

Engine coolant (recommended):  ECOBLU -40°C.

WARNING

Use only antifreeze and anticorrosive without nitrite, ensuring protection at -35°C at least.

NOTE

aprilia

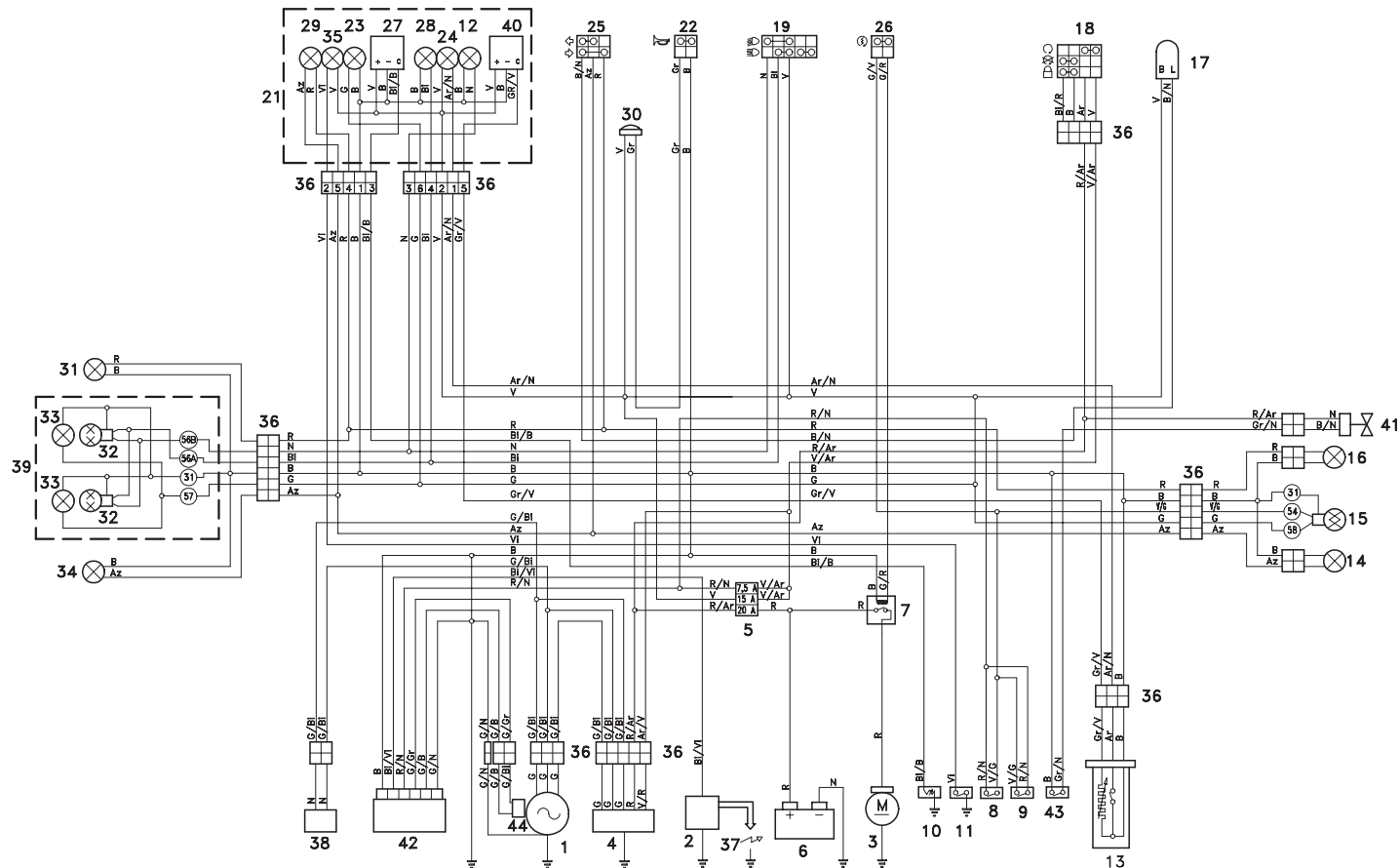
ASK FOR GENUINE SPARE PARTS ONLY

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	S ITALMOTOR AB	Box 5522 - 141 05 - Huddinge (S) - Tel. (8) 880044 - Fax (8) 6030659
	M BIKES & COMPANY LTD.	178, Marina Street, Pieta. MSD 08. (M) - Tel. (+356) 236 665 - Fax (+356) 239 368
	TR METRO MOTORLU ARAÇLAR TICARET A.S.	Mihrabat Caddesi Akbaysokak Yetimoglu Is Merkezi - 81640 - Kavacik-Istanbul (TR) - Tel. (0216) 4251565 - Fax (0216) 3312606
	CZ A. SPIRIT A.S.	Cernokostelecka 116 - 10000 Praha 10 (CZ) Tel. (02) 703049 - Fax. (02) 703158
	IRL K.D.I. KAWASAKI DISTRIBUTOR IRL. LTD.	17 Wood Street - Dublin 8 (IRL) Tel. (1) 4756046 Fax. (1) 4756461
	N MC TEMA A.S.	Kjørbekkdalen 6,3735 Skien, Norway (N) Tel. 35506780 Fax. 35506781

WIRING DIAGRAM - Leonardo 125 ASD - Leonardo 150 ASD

(vehicle modification code "A" and "B" indicated in the SPARE PARTS IDENTIFICATION LABEL, see p. 3)



WIRING DIAGRAM KEY - Leonardo 125 ASD - Leonardo 150 ASD

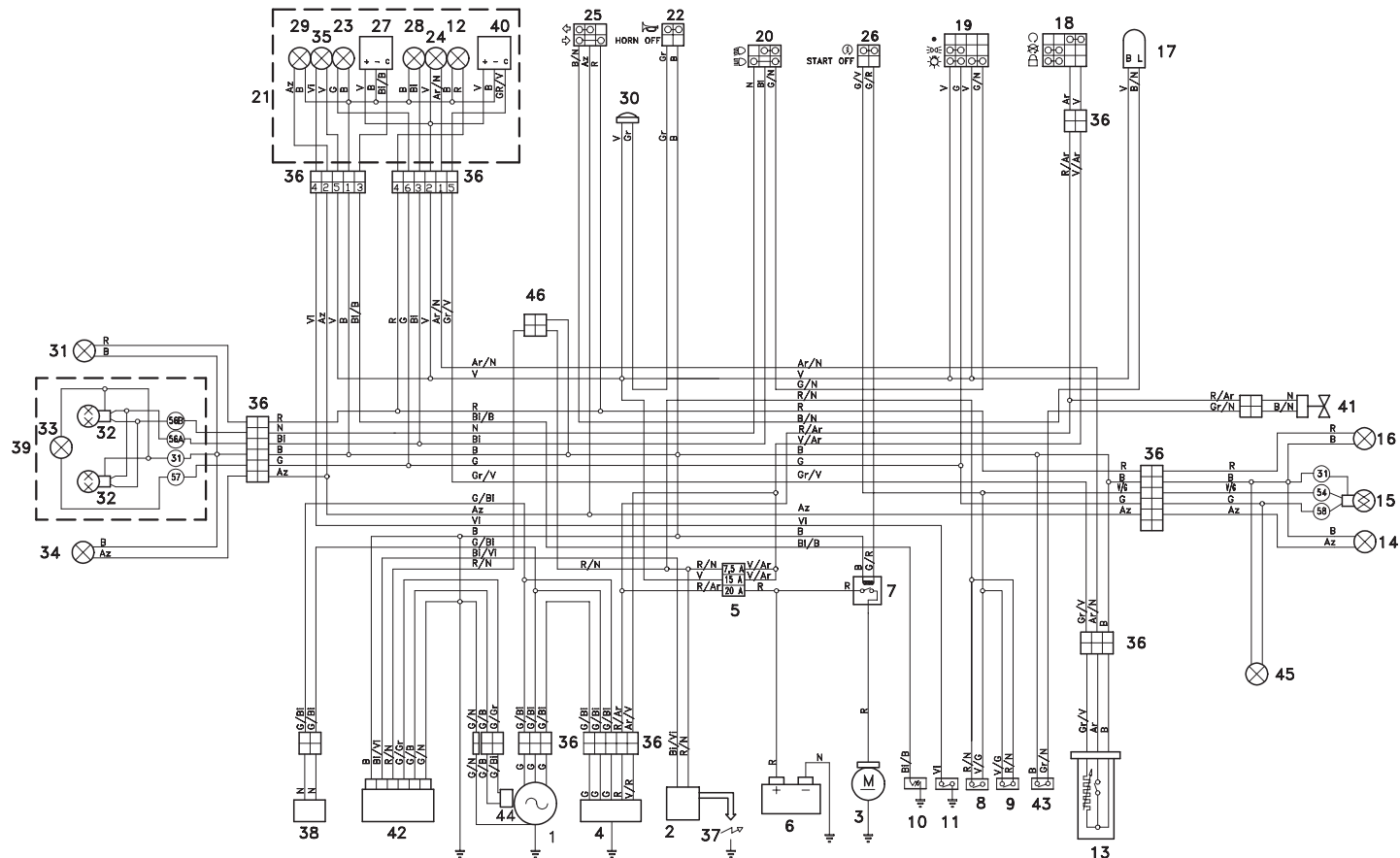
(vehicle modification code "A" and "B" indicated in the SPARE PARTS IDENTIFICATION LABEL, see p. 3)

- | | |
|---------------------------------------|---------------------------------------|
| 1) Generator | 31) Front right direction indicator |
| 2) Ignition coil | 32) Low/high beam bulb |
| 3) Starter | 33) Front parking light |
| 4) Voltage regulator | 34) Front left direction indicator |
| 5) Fuses | 35) Engine oil pressure warning light |
| 6) Battery | 36) Multiple connectors |
| 7) Start relay | 37) Spark plug |
| 8) Front stoplight switch | 38) Automatic starter |
| 9) Rear stoplight switch | 39) Complete headlight |
| 10) Coolant temperature thermistor | 40) Fuel level indicator |
| 11) Engine oil pressure sensor | 41) Fan |
| 12) Low beam warning light | 42) CDI |
| 13) Fuel level sensor | 43) Thermal switch |
| 14) Rear left direction indicator | 44) Pick up |
| 15) Rear light | |
| 16) Rear right direction indicator | |
| 17) Blinking | |
| 18) Ignition switch | |
| 19) Dimmer switch | |
| 21) Complete dashboard | |
| 22) Horn push button | |
| 23) Dashboard bulbs | |
| 24) Low fuel warning light | |
| 25) Direction indicator switch | |
| 26) Start push button | |
| 27) Coolant temperature instrument | |
| 28) High beam warning light | |
| 29) Direction indicator warning light | |
| 30) Horn | |

CABLE COLOURS

- | | |
|-----------|------------|
| Ar | orange |
| Az | light blue |
| B | blue |
| Bl | white |
| G | yellow |
| Gr | gray |
| M | brown |
| N | black |
| R | red |
| V | green |
| Vi | violet |
| Ro | pink |

WIRING DIAGRAM - Leonardo 125 - Leonardo 150



WIRING DIAGRAM KEY - Leonardo 125 - Leonardo 150

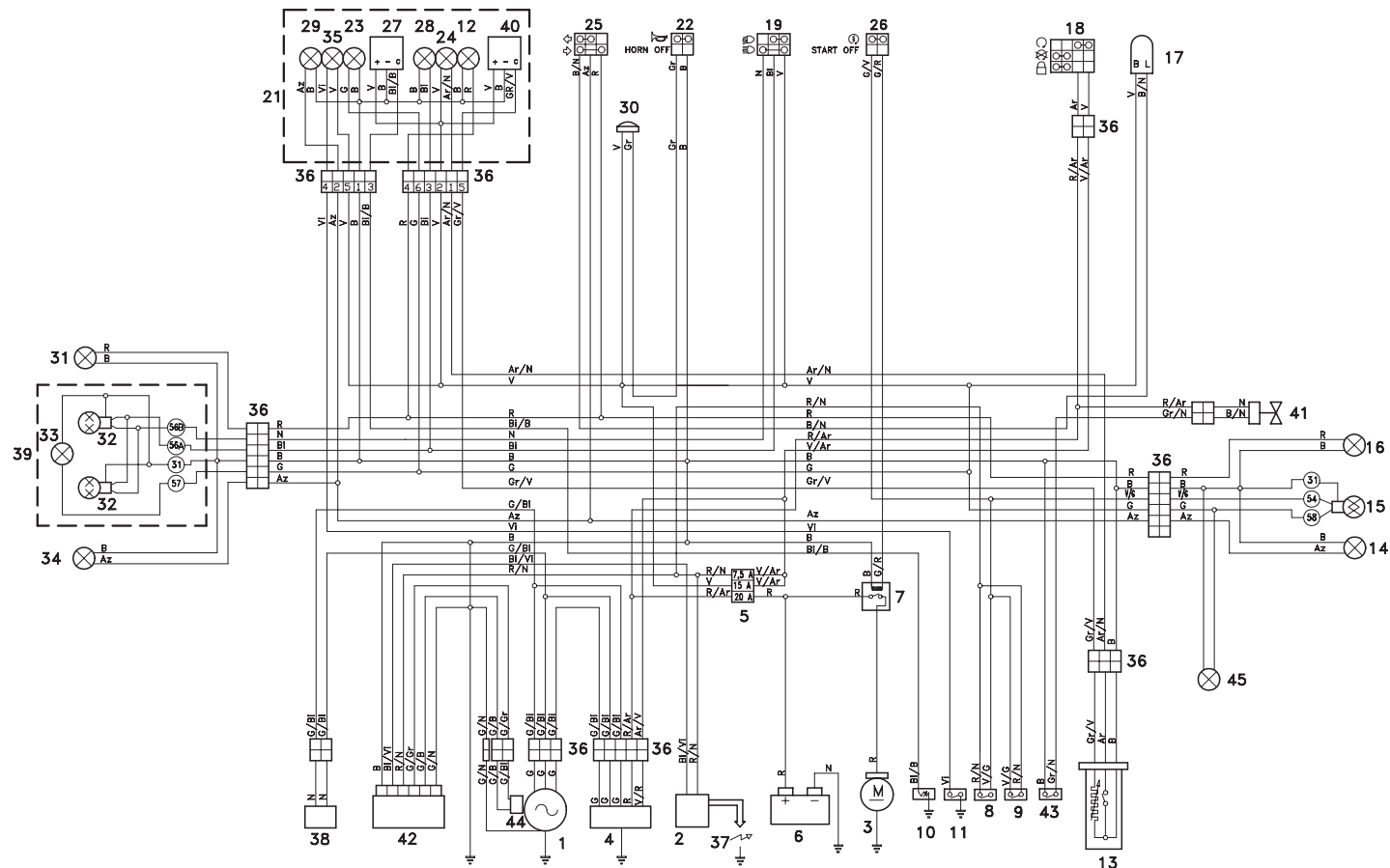
- 1) Generator
- 2) Ignition coil
- 3) Starter
- 4) Voltage regulator
- 5) Fuses
- 6) Battery
- 7) Start relay
- 8) Front stoplight switch
- 9) Rear stoplight switch
- 10) Coolant temperature thermistor
- 11) Engine oil pressure sensor
- 12) Right direction indicator warning light
- 13) Fuel level sensor
- 14) Rear left direction indicator
- 15) Rear light
- 16) Rear right direction indicator
- 17) Blinking
- 18) Ignition switch
- 19) Light switch
- 20) Dimmer switch
- 21) Complete dashboard
- 22) Horn push button
- 23) Dashboard bulbs
- 24) Low fuel warning light
- 25) Direction indicator switch
- 26) Start push button
- 27) Coolant temperature instrument
- 28) High beam warning light
- 29) Left direction indicator warning light
- 30) Horn

- 31) Front right direction indicator
- 32) Low/high beam bulb
- 33) Front parking light
- 34) Front left direction indicator
- 35) Engine oil pressure warning light
- 36) Multiple connectors
- 37) Spark plug
- 38) Automatic starter
- 39) Complete headlight
- 40) Fuel level indicator
- 41) Fan
- 42) CDI
- 43) Thermal switch
- 44) Pick up
- 45) Number plate light
- 46) Anti-theft device installation point

CABLE COLOURS

- | | |
|-----------|------------|
| Ar | orange |
| Az | light blue |
| B | blue |
| Bl | white |
| G | yellow |
| Gr | gray |
| M | brown |
| N | black |
| R | red |
| V | green |
| Vi | violet |
| Ro | pink |

WIRING DIAGRAM - Leonardo 125 ASD - Leonardo 150 ASD



WIRING DIAGRAM KEY - Leonardo 125 **ASD** - Leonardo 150 **ASD**

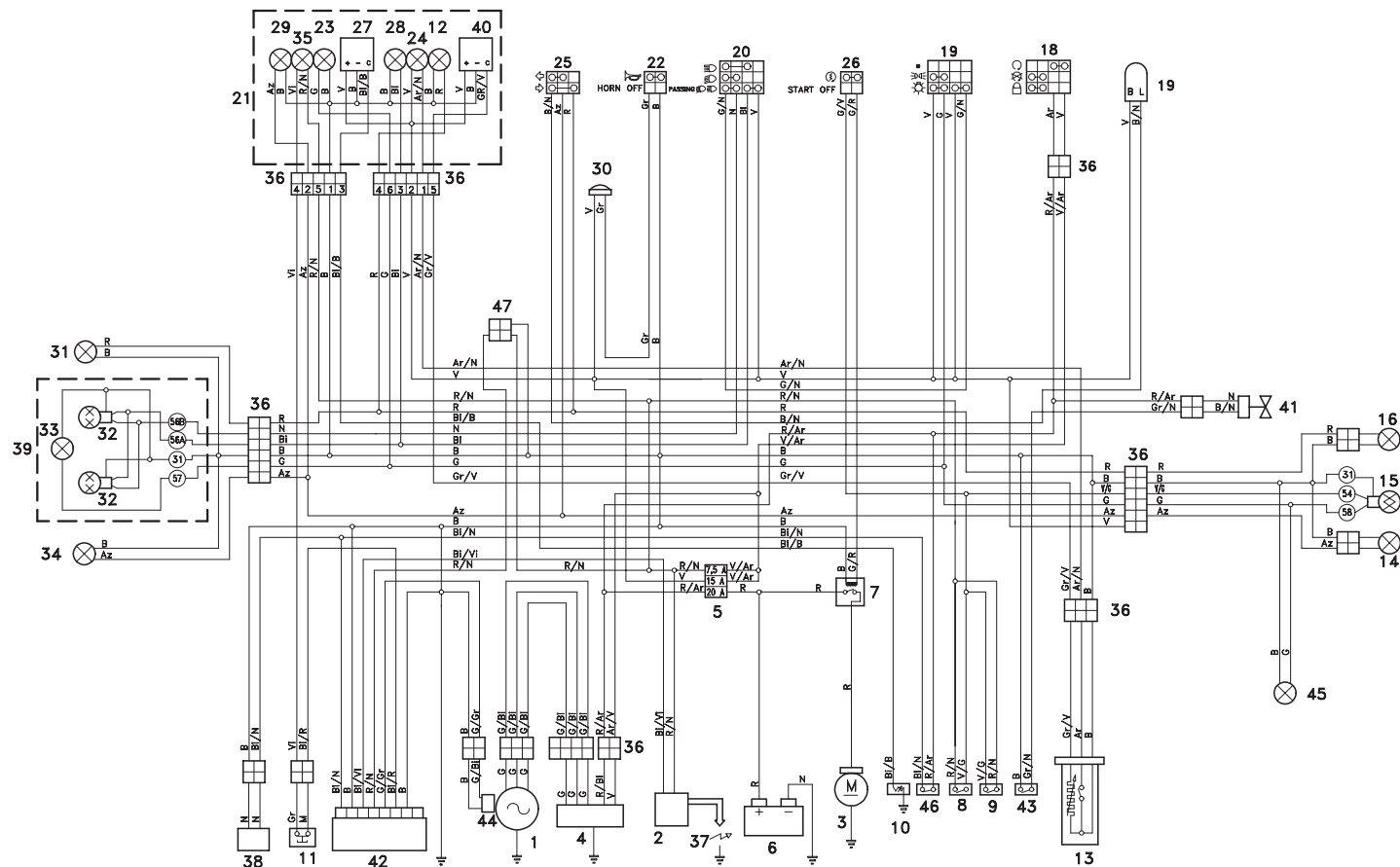
- 1) Generator
- 2) Ignition coil
- 3) Starter
- 4) Voltage regulator
- 5) Fuses
- 6) Battery
- 7) Start relay
- 8) Front stoplight switch
- 9) Rear stoplight switch
- 10) Coolant temperature thermistor
- 11) Engine oil pressure sensor
- 12) Right direction indicator warning light
- 13) Fuel level sensor
- 14) Rear left direction indicator
- 15) Rear light
- 16) Rear right direction indicator
- 17) Blinking
- 18) Ignition switch
- 19) Dimmer switch
- 21) Complete dashboard
- 22) Horn push button
- 23) Dashboard bulbs
- 24) Low fuel warning light
- 25) Direction indicator switch
- 26) Start push button
- 27) Coolant temperature instrument
- 28) High beam warning light
- 29) Left direction indicator warning light
- 30) Horn

- 31) Front right direction indicator
- 32) Low/high beam bulb
- 33) Front parking light
- 34) Front left direction indicator
- 35) Engine oil pressure warning light
- 36) Multiple connectors
- 37) Spark plug
- 38) Automatic starter
- 39) Complete headlight
- 40) Fuel level indicator
- 41) Fan
- 42) CDI
- 43) Thermal switch
- 44) Pick up

CABLE COLOURS

- | | |
|-----------|------------|
| Ar | orange |
| Az | light blue |
| B | blue |
| Bl | white |
| G | yellow |
| Gr | gray |
| M | brown |
| N | black |
| R | red |
| V | green |
| Vi | violet |
| Ro | pink |

WIRING DIAGRAM - Leonardo 250



WIRING DIAGRAM KEY - Leonardo 250

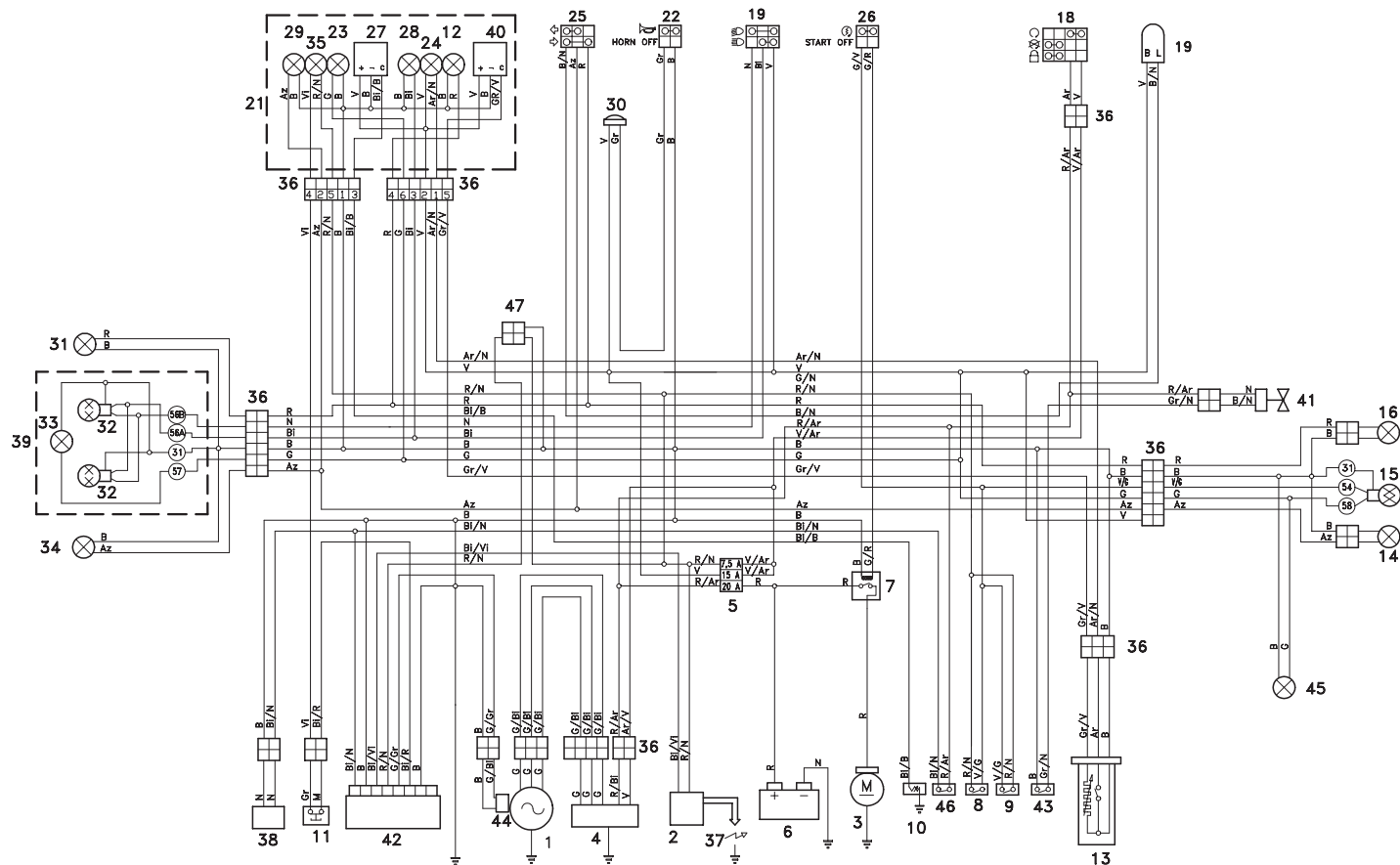
- 1) Generator
- 2) Ignition coil
- 3) Starter
- 4) Voltage regulator
- 5) Fuses
- 6) Battery
- 7) Start relay
- 8) Front stoplight switch
- 9) Rear stoplight switch
- 10) Coolant temperature thermistor
- 11) Engine oil change warning light disconnection push button
- 12) Right direction indicator warning light
- 13) Fuel level sensor
- 14) Rear left direction indicator
- 15) Rear light
- 16) Rear right direction indicator
- 17) Blinking
- 18) Ignition switch
- 19) Light switch
- 20) Dimmer switch/PASSING
- 21) Complete dashboard
- 22) Horn push button
- 23) Dashboard bulbs
- 24) Low fuel warning light
- 25) Direction indicator switch
- 26) Start push button
- 27) Coolant temperature instrument
- 28) High beam warning light
- 29) Left direction indicator warning light
- 30) Horn

- 31) Front right direction indicator
- 32) Low/high beam bulb
- 33) Front parking light
- 34) Front left direction indicator
- 35) Engine oil change warning light
- 36) Multiple connectors
- 37) Spark plug
- 38) Automatic starter
- 39) Complete headlight
- 40) Fuel level indicator
- 41) Fan
- 42) CDI
- 43) Thermal switch
- 44) Pick up
- 45) Number plate light
- 46) Starter thermometric switch
- 47) Anti-theft device installation point

CABLE COLOURS

- | | |
|-----------|------------|
| Ar | orange |
| Az | light blue |
| B | blue |
| Bl | white |
| G | yellow |
| Gr | gray |
| M | brown |
| N | black |
| R | red |
| V | green |
| Vi | violet |
| Ro | pink |

WIRING DIAGRAM - Leonardo 250 ASD



WIRING DIAGRAM KEY - Leonardo 250 ASD

- 1) Generator
- 2) Ignition coil
- 3) Starter
- 4) Voltage regulator
- 5) Fuses
- 6) Battery
- 7) Start relay
- 8) Front stoplight switch
- 9) Rear stoplight switch
- 10) Coolant temperature thermistor
- 11) Engine oil change warning light disconnection push button
- 12) Right direction indicator warning light
- 13) Fuel level sensor
- 14) Rear left direction indicator
- 15) Rear light
- 16) Rear right direction indicator
- 17) Blinking
- 18) Ignition switch
- 19) Dimmer switch
- 21) Complete dashboard
- 22) Horn push button
- 23) Dashboard bulbs
- 24) Low fuel warning light
- 25) Direction indicator switch
- 26) Start push button
- 27) Coolant temperature instrument
- 28) High beam warning light
- 29) Left direction indicator warning light
- 30) Horn

- 31) Front right direction indicator
- 32) Low/high beam bulb
- 33) Front parking light
- 34) Front left direction indicator
- 35) Engine oil change warning light
- 36) Multiple connectors
- 37) Spark plug
- 38) Automatic starter
- 39) Complete headlight
- 40) Fuel level indicator
- 41) Fan
- 42) CDI
- 43) Thermal switch
- 44) Pick up
- 45) Number plate light
- 46) Starter thermometric switch
- 47) Anti-theft device installation point

CABLE COLOURS

- | | |
|-----------|------------|
| Ar | orange |
| Az | light blue |
| B | blue |
| Bl | white |
| G | yellow |
| Gr | gray |
| M | brown |
| N | black |
| R | red |
| V | green |
| Vi | violet |
| Ro | pink |

aprilia s.p.a. wishes to thank its customers for the purchase of this vehicle.

- Do not dispose of oil, fuel, polluting substances and components in the environment.
- Do not keep the engine running if it isn't necessary.
- Avoid disturbing noises.
- Respect nature.