aprilia

SR 50 - 125 - 150

aprilia part# 8104119

use+maintenancebook

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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!

⚠ 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.

50 Any mention to the use of the vehicle with passenger is to be intended as referred only to the countries where this is allowed.

In the text and figures the symbols preceded by the symbol of the model (50 125 150) refer exclusively to the model indicated.

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 resale.

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 In some countries the antipollution and noise regulations in force require periodical inspections.

The user of the vehicle in these countries must:
- contact an **aprilia** Official Dealer to have the non-homologated components replaced with others homologated for use in the country in question;
- carry out the required periodical inspections.

NOTE Soon after purchasing the vehicle, write down the identification data indicated on the SPARE PARTS IDENTIFICATION LABEL in the table here below. The label is stuck on the right beam of the frame; to be able to read it, remove the right inspection cover, see p. 55 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).

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YEAR	Y	1	2	3	4
I.M.	A	B	C	D	E

SPARE PARTS IDENTIFICATION

I	UK	A	P	SF	B	D	F	E	GR
NL	CH	DK	J	SGP	SLO	IL	ROK	MAL	RCH
HR	AUS	USA	BR	RSA	NZ	CDN			

These data indicate:
- YEAR = year of manufacture (Y, 1, 2, ...);
- I.M. = modification code (A, B, C, ...);
- COUNTRY CODES = homologation country (I, UK, A, ...).

and are to be supplied to the **aprilia** Official Dealer as reference data for the purchase of spare parts or specific accessories of the model you have acquired.

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

- **50 cm³ model**
- **125 cm³ model**
- **150 cm³ model**
- **automatic light switching version (Automatic Switch-on Device)**
- **optional**
- **liquid-cooled version**
- **drum brake version**
- **catalytic version**

VERSION:

- **Italy**
- **United Kingdom**
- **Austria**
- **Portugal**
- **Finland**
- **Belgium**
- **Germany**
- **France**
- **Spain**
- **Greece**
- **Holland**
- **Switzerland**
- **Denmark**
- **Japan**
- **Singapore**
- **Slovenia**
- **Israel**
- **South Korea**
- **Malaysia**
- **Chile**
- **Croatia**
- **Australia**
- **United States of America**
- **Brazil**
- **South Africa**
- **New Zealand**
- **Canada**

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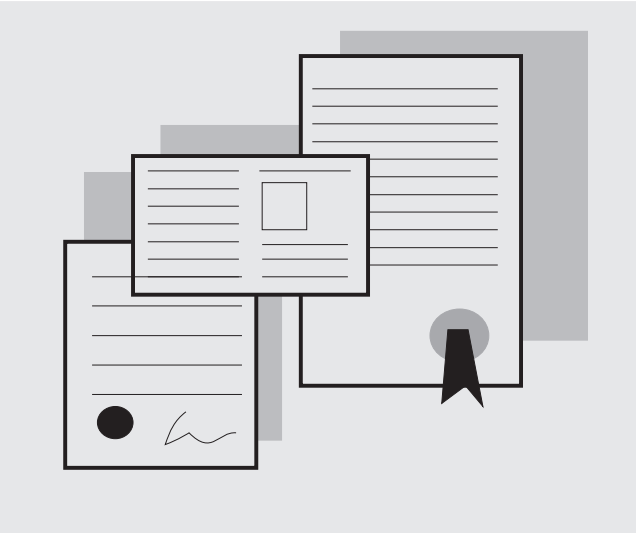
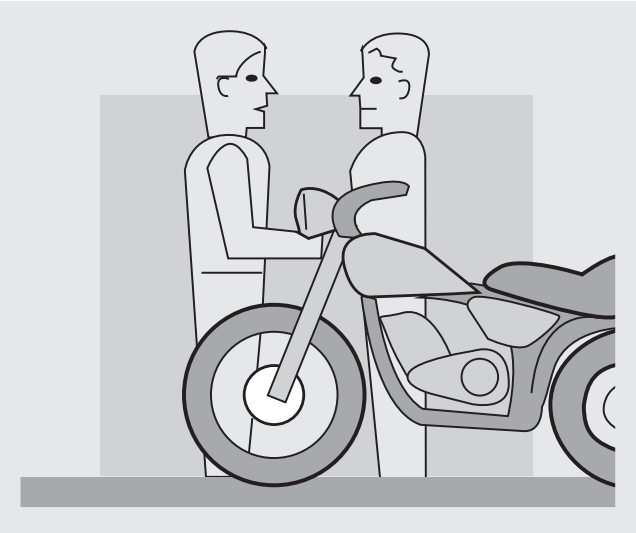
safe drive





BASIC 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.).

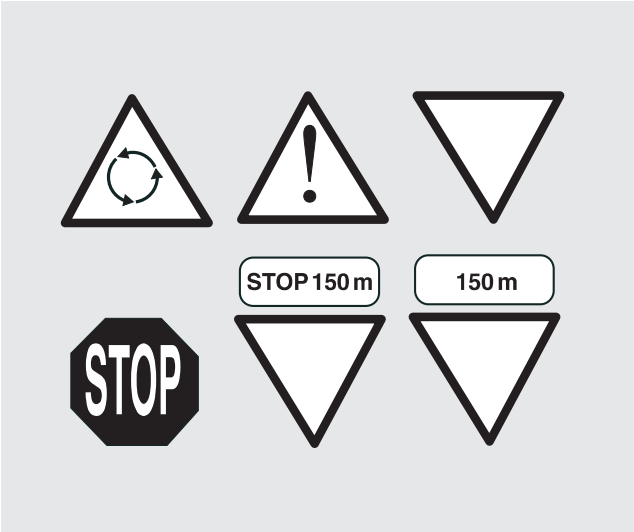
Gradually get to know the vehicle by driving it first in areas with low traffic and/or private areas.

The use of medicins, 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.

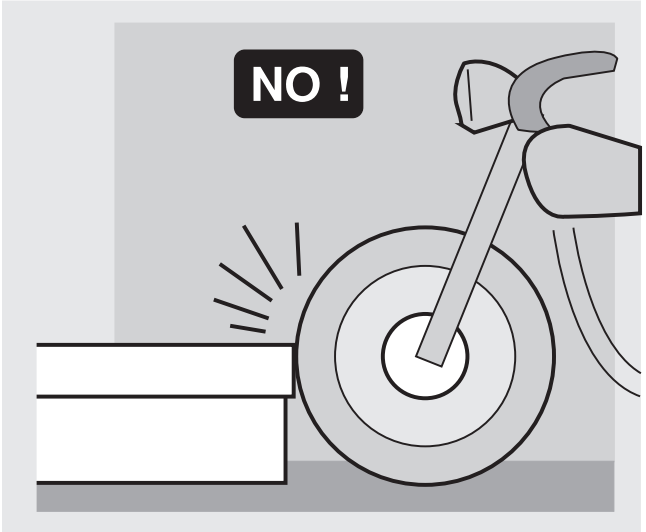
Most road accidents are caused by the driver's lack of experience.

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



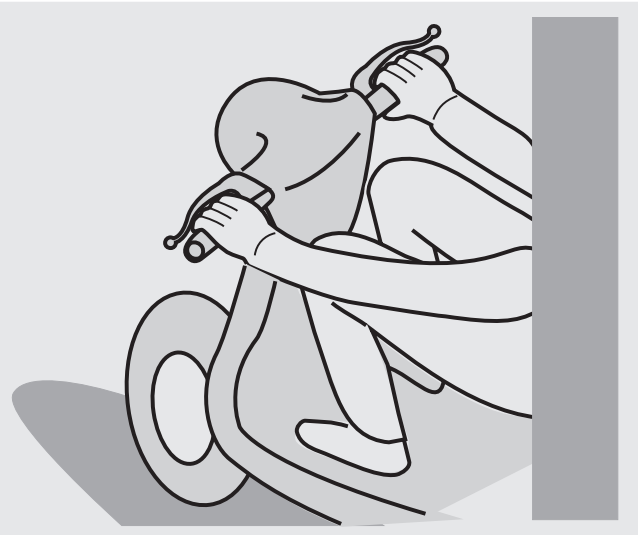
Rigorously observe all road signs and national and local road regulations.

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.



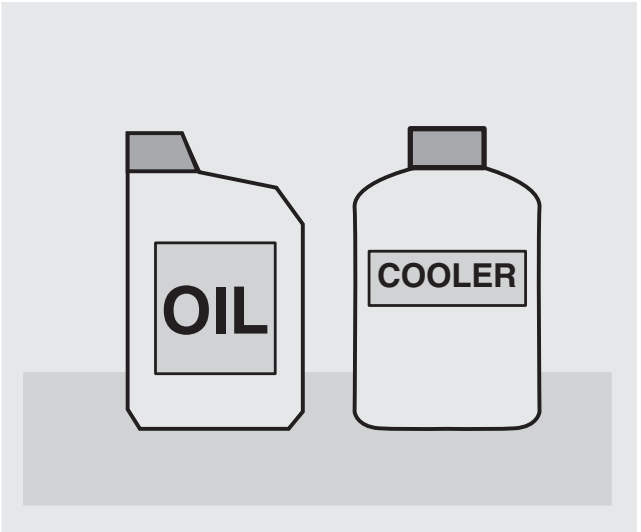
Avoid obstacles that could damage the vehicle or make you lose control.

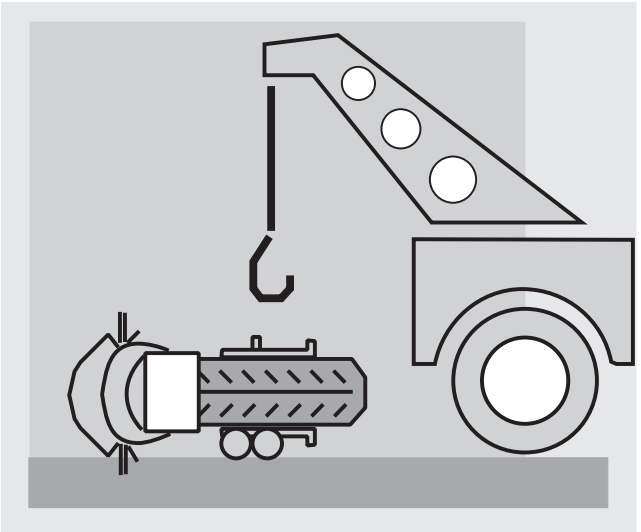
Avoid riding in the slipstream created by preceding vehicles in order to increase your speed.



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.

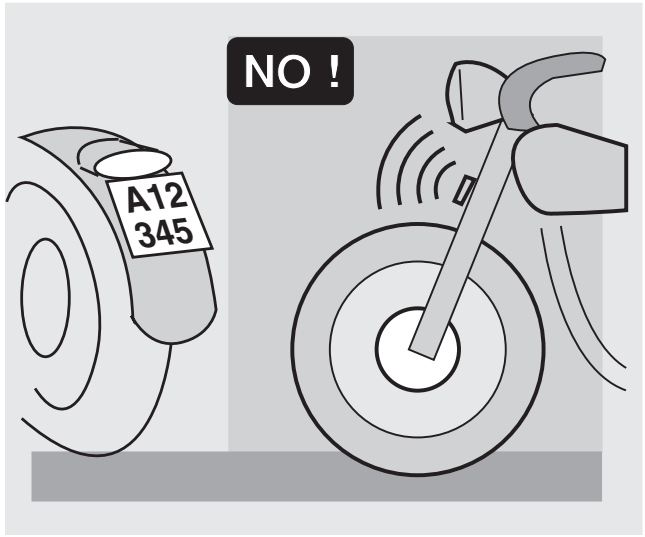
Always remember to report any malfunction to the technicians to help them in their work.

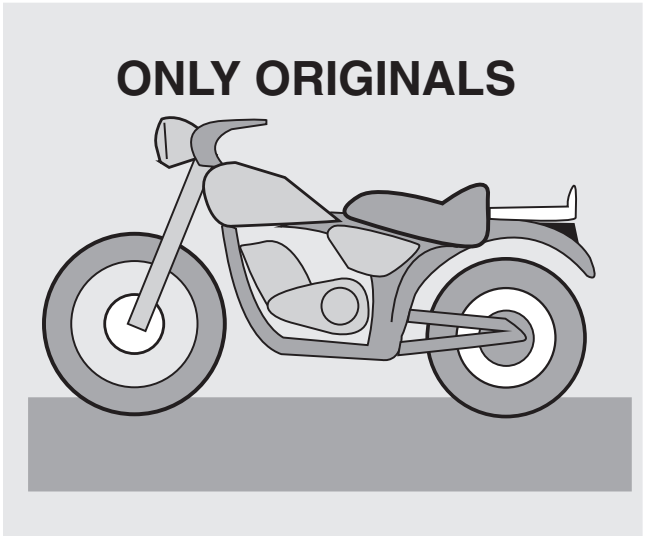
Never use the vehicle when the amount of damage it has suffered endangers your safety.

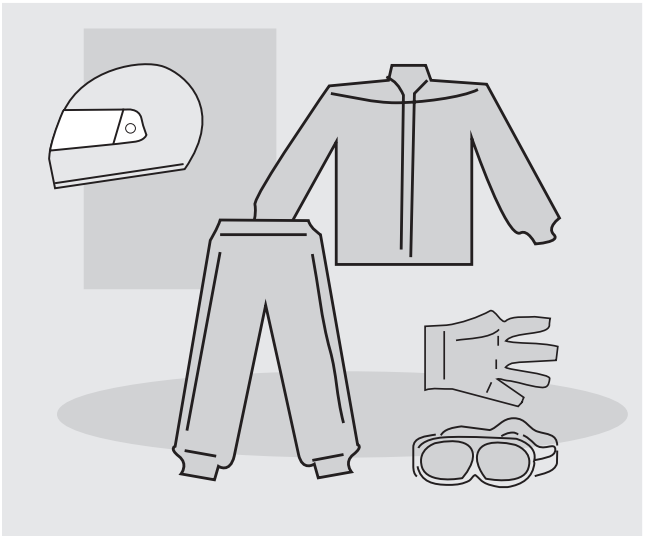
Never change the position, inclination or colour of: number plate, direction indicators, lights and horns.

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

For only vehicles up to 50 cm^3 included
Any modification of the engine or of other members which is aimed at increasing the speed or the power of the vehicle is prohibited by the law; in fact, any modification resulting in an increase of the maximum speed or of the engine displacement would change the scooter into a motorcycle,







which implies the following obligations for the owner:
– new homologation;
– new registration;
– appropriate driving license.

Further, said modifications cause the loss of the insurance cover, since insurance policies expressly prohibit to make technical changes aimed at increasing the vehicle performance levels.
For the reasons stated above, the failure to comply with the tampering prohibition is punished by law with appropriate sanctions (including the confiscation of the vehicle), which, according to the case, can be combined with the sanctions provided for not using the crash helmet and/or the number plate, for the violation of fiscal obligations (ownership tax) and with penal sanctions provided for using the vehicle without driving license.

For only vehicles over 50 cm3

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.

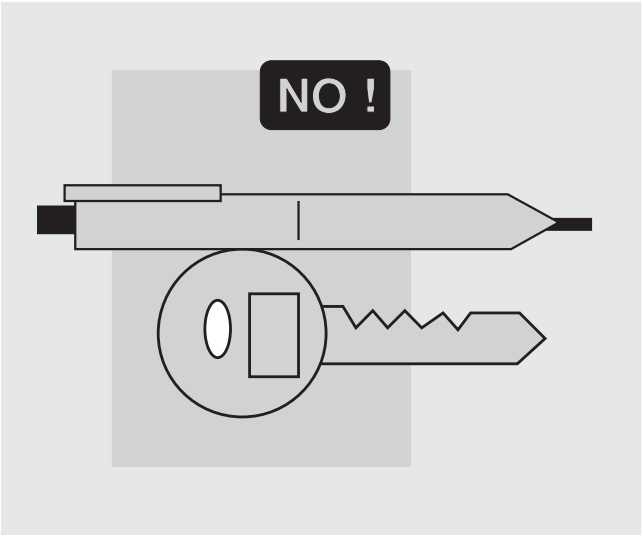
Avoid off-road driving.

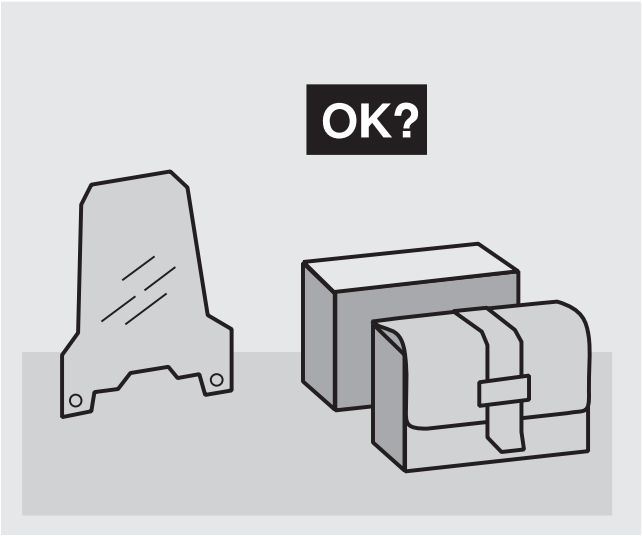
CLOTHING

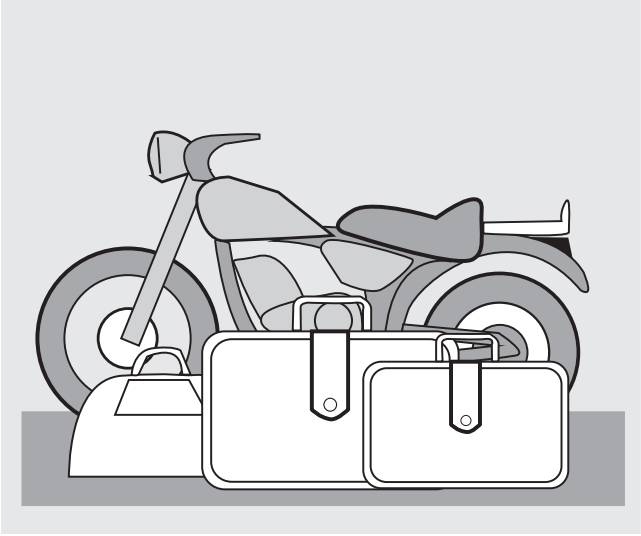
Before starting, always wear a correctly fastened crash helmet. Make sure that it is homologated, in good shape, of the right size and that the visor is clean.

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.

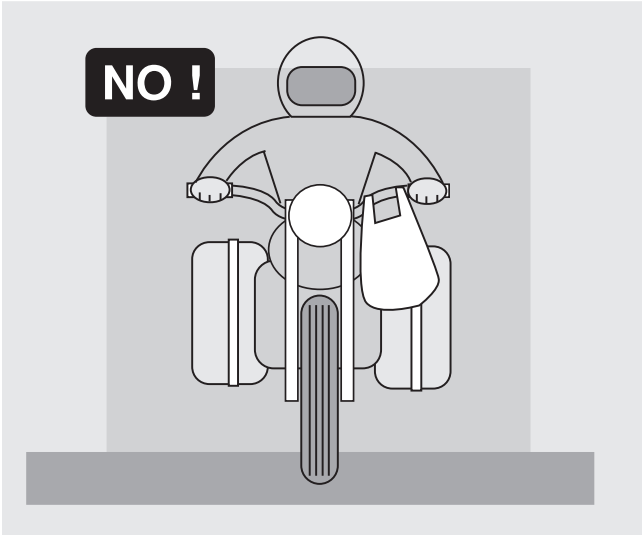
Avoid using accessories that hamper access to the controls, since this can prolong reaction times during an emergency.

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 shortage in the horn and in the lights.
aprilia recommends the use of “**aprilia** genuine accessories”.

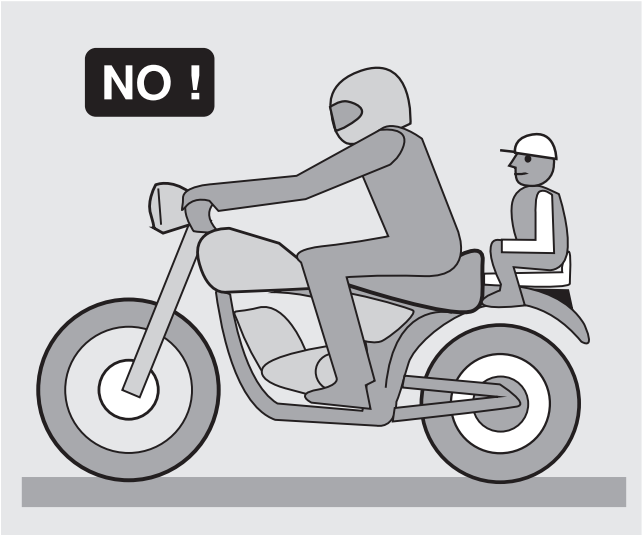
LOAD

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.

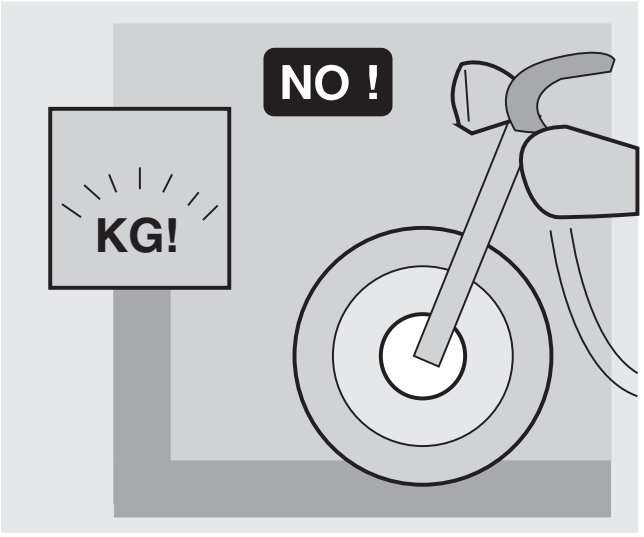
Do not place bags that are too bulky on the vehicle sides, because they could hit people or obstacles, making you lose control of the vehicle.



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

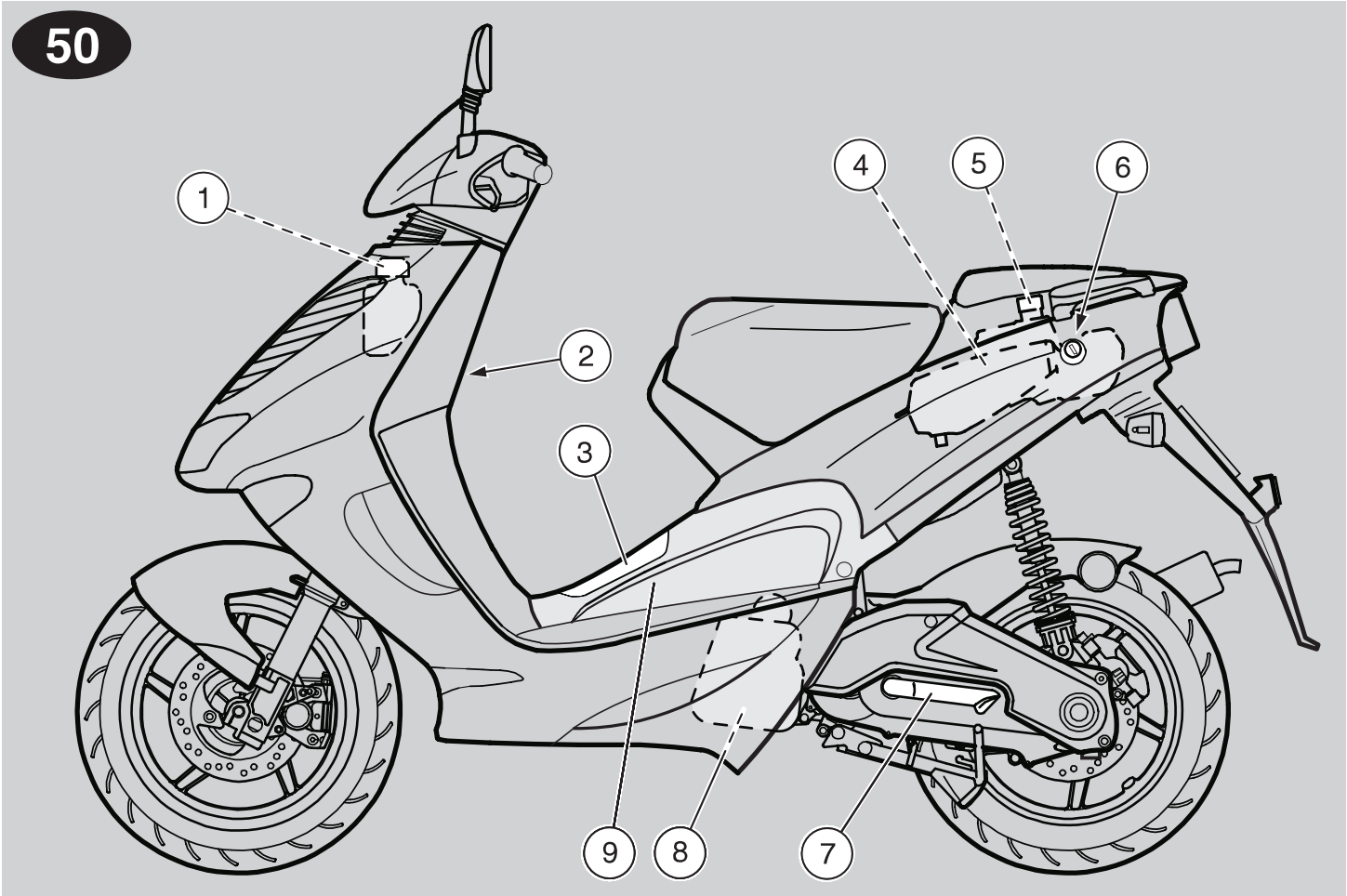
Do not carry bags which protrude too much from the luggage-rack or which cover the lights, horn or indicators.

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



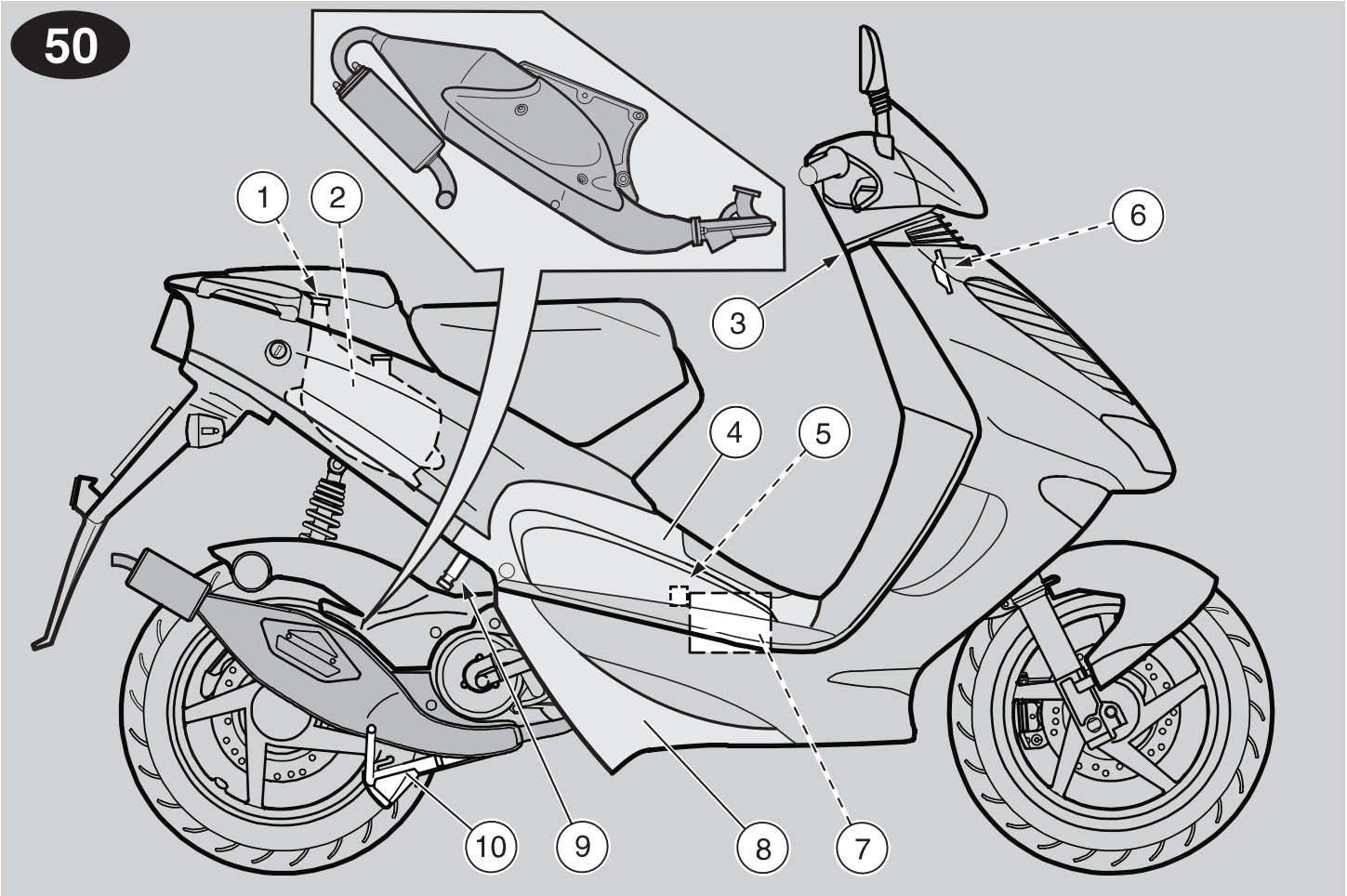
Do not exceed the maximum load allowed for each side-bag.

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



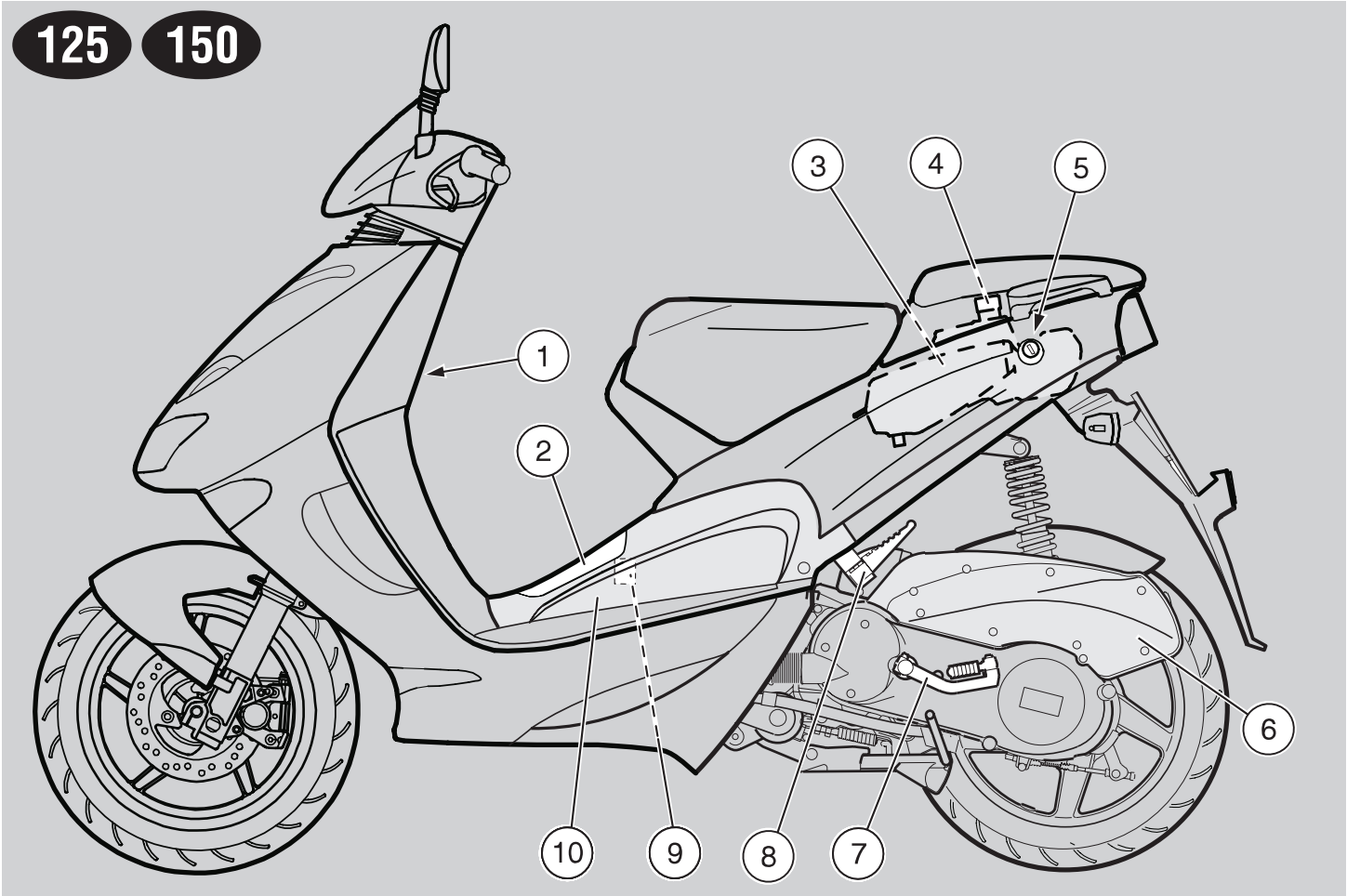
KEY

1) Coolant expansion tank plug
2) Bag hook
3) Battery/tool kit compartment cover
4) Fuel tank
5) Fuel tank plug
6) Saddle lock
7) Kick starter
8) Air cleaner
9) Left inspection cover



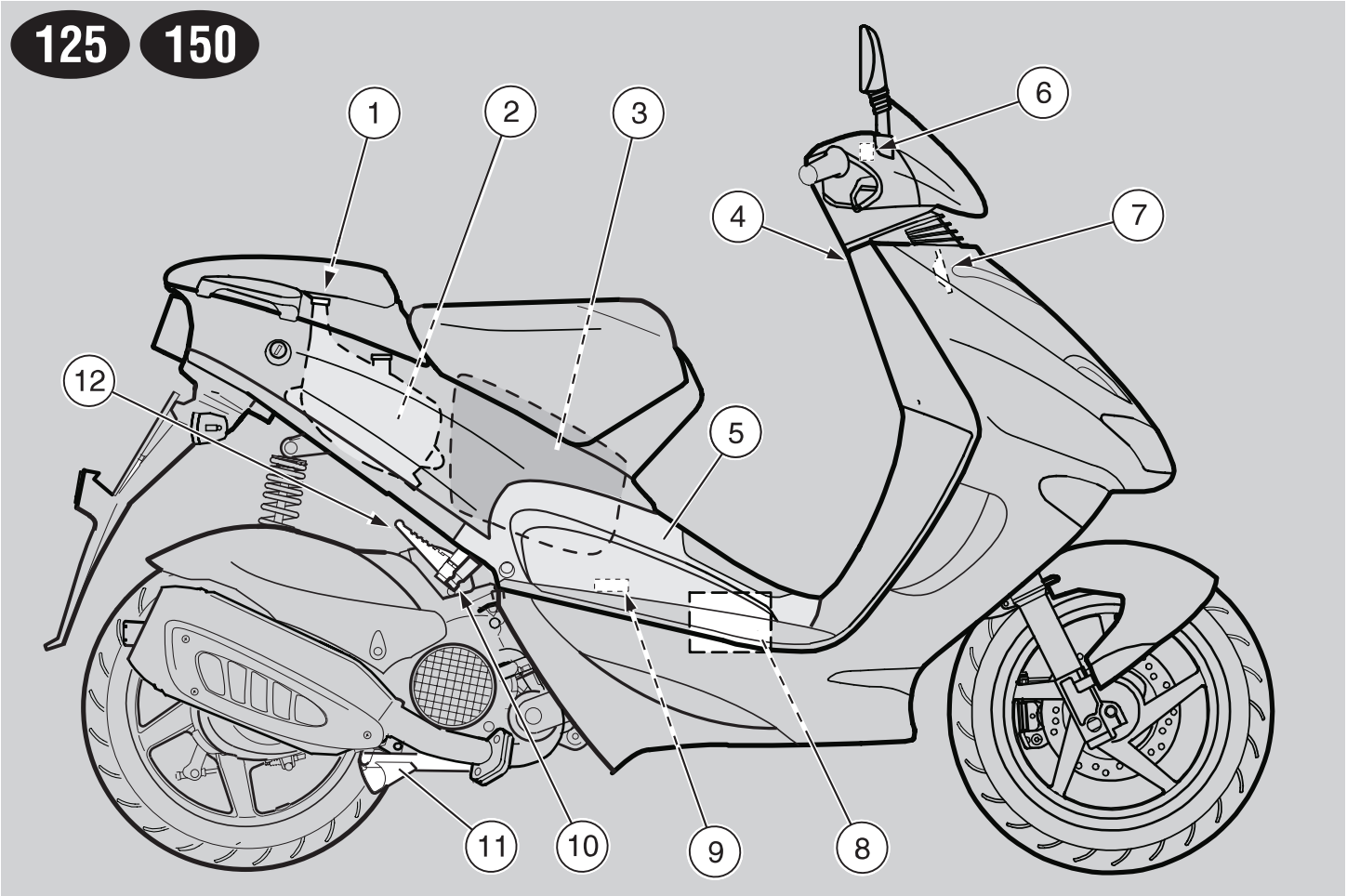
KEY

1) 2 stroke oil tank plug
2) 2 stroke oil tank
3) Ignition switch/steering lock
4) Right inspection cover
5) Fuse carrier
6) Horn
7) Battery
8) Lower shield cover
9) Anti-theft hook (for the **aprilia** “Body-Guard” armored cable OPT).
10) Centre stand



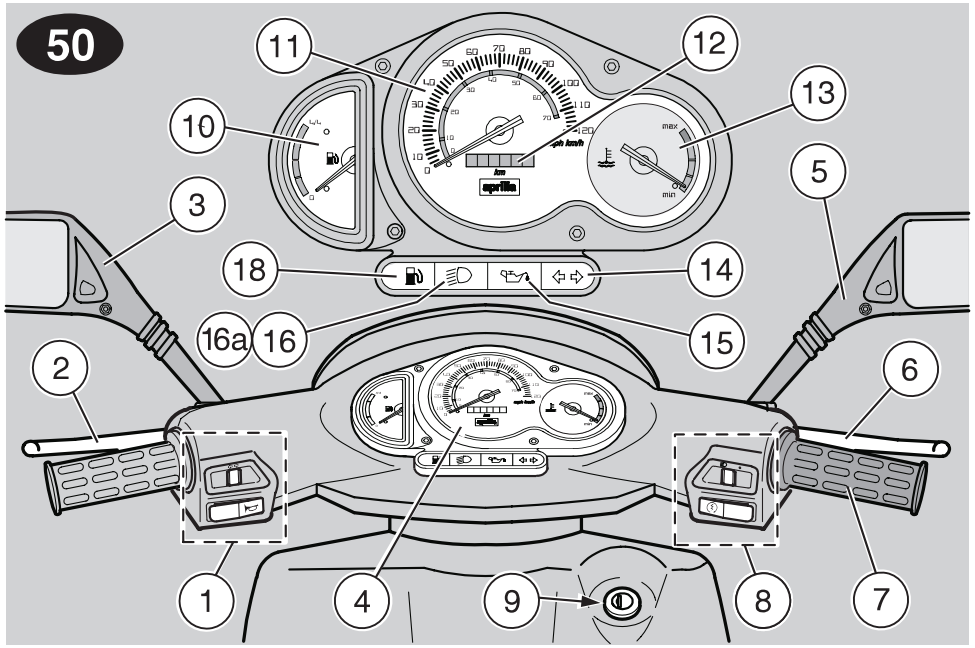
KEY

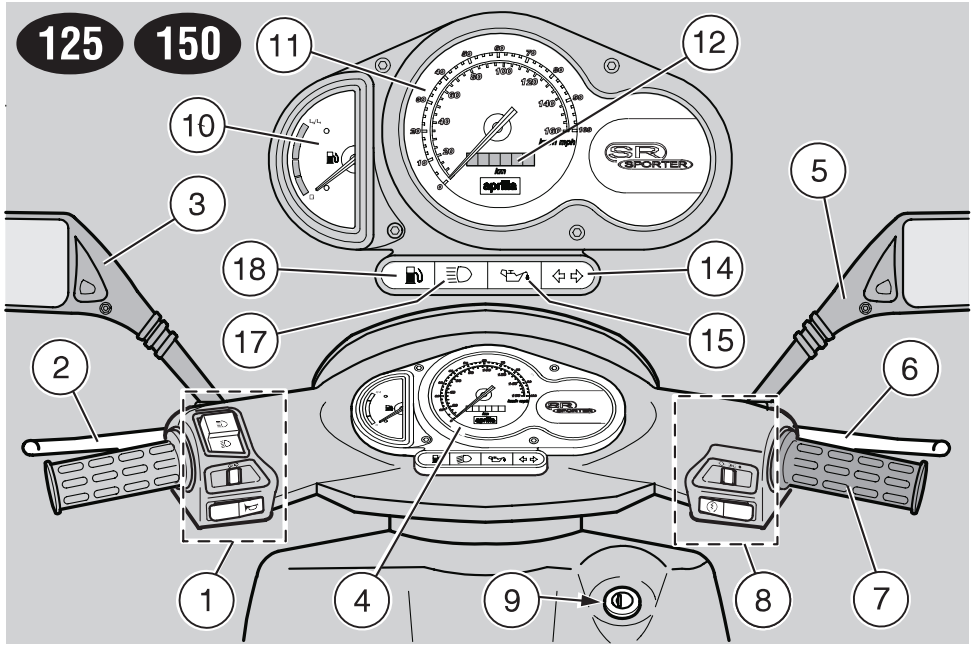
1) Bag hook
2) Battery/tool kit compartment cover
3) Fuel tank
4) Fuel tank plug
5) Saddle lock
6) Air cleaner
7) Kick starter
8) Passenger left footrest
9) Fuse carrier
10) Left inspection cover



KEY

1) 2 stroke oil tank plug
2) 2 stroke oil tank
3) Crash helmet / glove compartment
4) Ignition switch/steering lock
5) Right inspection cover
6) Brake fluid reservoir (front brake)
7) Horn
8) Battery
9) Spark plug
10) Anti-theft hook (for the **aprilia** “Body-Guard” armored cable OPT).
11) Centre stand
12) Passenger right footrest



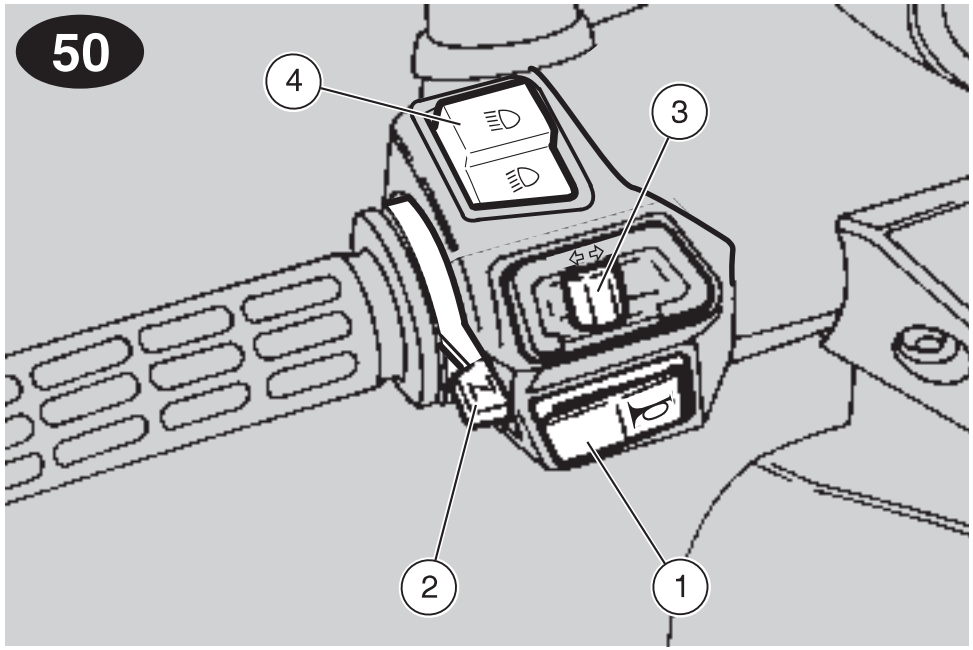


KEY

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) Throttle grip
7) Front brake lever
8) Electrical controls on the right side of the handlebar
9) Ignition switch/steering lock (○ - ⊘ - 🔒)
10) Fuel level indicator (⛽)
11) Speedometer
12) Total kilometres odometer
13) 50 Coolant temperature indicator (🌡) ≈
14) Green direction indicator warning light (⇦ ⇨)
15) Red 2 stroke oil reserve warning light (🛢)
16) 50 Green low beam warning light (≡D)
16a) 50 Blue high beam warning light (≡D) CH IL ROK USA ASD
17) 125 150 Blue high beam warning light (≡D)
18) Amber low fuel warning light (⛽)

INSTRUMENT AND INDICATOR TABLE

Description	Function
Direction indicator warning light (⇦⇨)	It blinks when the direction indicators are on.
2 stroke oil reserve warning light (🛢)	It comes on when the ignition switch is in position "○" and the start push button "Ⓚ" is pressed, thus checking the proper functioning of the bulb. If the light does not come on during the starting, provide for replacing the bulb. **⚠ CAUTION** **If the warning light comes on and does not go out after the start push button "Ⓚ" has been released, or if it comes on during normal functioning, this means that the 2 stroke oil reserve is being used; in this case, top up the 2 stroke oil tank, see p. 26 (2 STROKE OIL).**
Total kilometres odometer	It indicates the total number of kilometres covered.
Speedometer	It indicates the driving speed.
50 Low beam warning light (≡D)	It comes on when the headlight is in low beam position.
50 High beam warning light **CH IL ROK USA ASD** (≡D)	It comes on when the headlight in high beam position.
125 150 High beam warning light (≡D)	It comes on when the headlight in high beam position.
Low fuel warning light (⛽)	It comes on when the quantity of fuel left in the tank is about 2 ℓ.
Fuel level indicator (⛽)	It indicates the approximate fuel level in the tank.
50 Coolant temperature indicator ≈ (🌡)	It indicates the approximate temperature of the coolant in the engine. When the pointer starts moving beyond the "**min**" level, the temperature is sufficient for driving the vehicle. The normal running temperature range is indicated by the central area of the scale. If the pointer reaches the red area, stop the engine and check the coolant level, see p. 30 (50 COOLANT ≈). **⚠ CAUTION** **If the maximum allowed temperature is exceeded (red area "max" of the scale), the engine may be seriously damaged.**



CONTROLS ON THE LEFT SIDE OF THE HANDLEBAR

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

NOTE The lighting system works only when the engine is running.

1) HORN PUSH BUTTON (⊂)
The horn is activated when the push button is pressed.

2) COLD START LEVER (⌊)
The starter for the cold start of the engine is operated by rotating the lever downwards.
To disconnect the cold start, bring the lever to its initial position.

3) 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.

4) DIMMER SWITCH (≡D - ≡D)
(in the countries where the engine stop switch is required "⊗ - ○")
When it is in position "≡D" the parking lights, the dashboard light and the low beam are always on.
When it is in position "≡D", the high beam comes on.

NOTE The lights can be switched off only by stopping the engine.

CONTROLS ON THE RIGHT SIDE OF THE HANDLEBAR

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

NOTE The lighting system works only when the engine is running.

1) LIGHT SWITCH (≡D - •) (ASD not provided)
When the light switch is in position "•", the lights are off; when the switch is in position "≡D", the rear parking light and the low beam are on.

1a) LIGHT SWITCH (≡D - ≡D - •) CH IL R0K
When the light switch is in position "•", the lights are off; when the switch is in position "≡D" the low beam and the parking lights are on; when it is in position "≡D" the high beam and the parking lights are on.

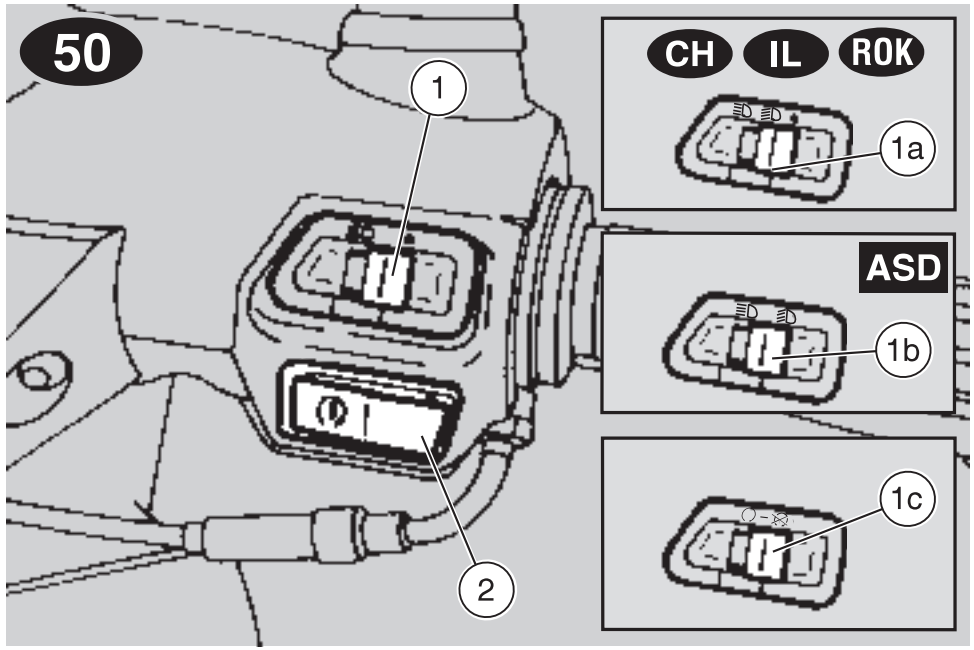
1b) DIMMER SWITCH (≡D - ≡D) ASD
(not provided for those countries where the engine stop switch "⊗ - ○" is required)
When the dimmer switch is in position "≡D", the low beam and the parking lights are on; when it is in position "≡D", the high beam and the parking lights are on.

NOTE The lights can be switched off only by stopping the engine.

1c) ENGINE STOP SWITCH (○ - ⊗)
(in the countries where required)

⚠ CAUTION

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

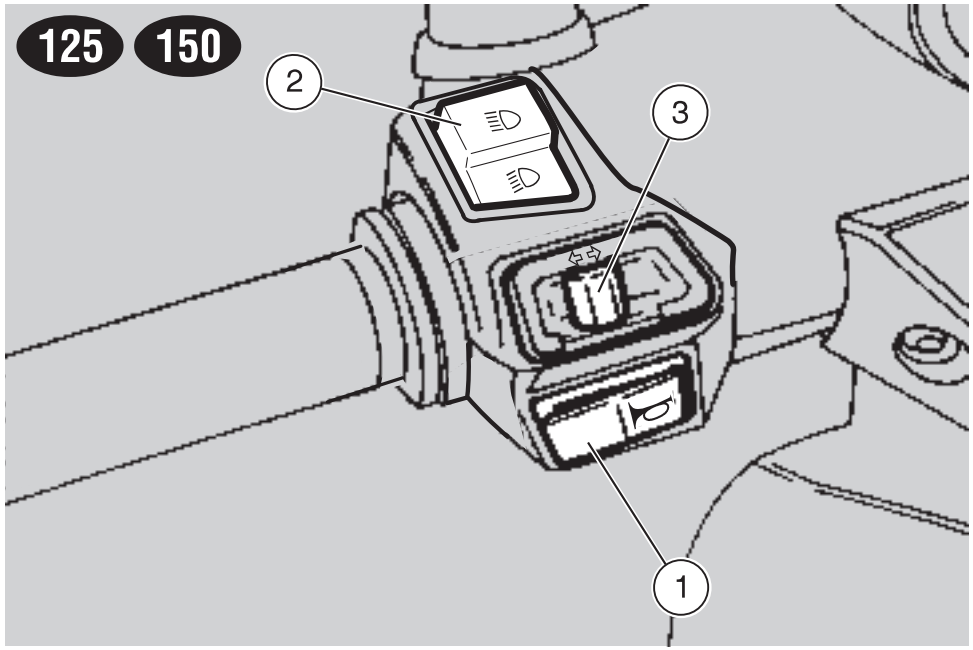


This is a safety or emergency switch. With the switch in position "○", it is possible to start the engine; the engine can be stopped by moving the switch to position "⊗".

⚠ 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 and one of the brake levers (front or rear) is activated at the same time, the starter makes the engine run.
For the starting procedure, see p. 36 (STARTING).



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) DIMMER SWITCH (≡D - ≡D) (ASD not provided)
When the light switch is in position "☼": if the dimmer switch is in position "≡D", the high beam comes on, while if it is in position "≡D", the low beam comes on.

3) 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.

CONTROLS ON THE RIGHT SIDE OF THE HANDLEBAR

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

1) LIGHT SWITCH (☼ - ≡D - ●) (J not provided)

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

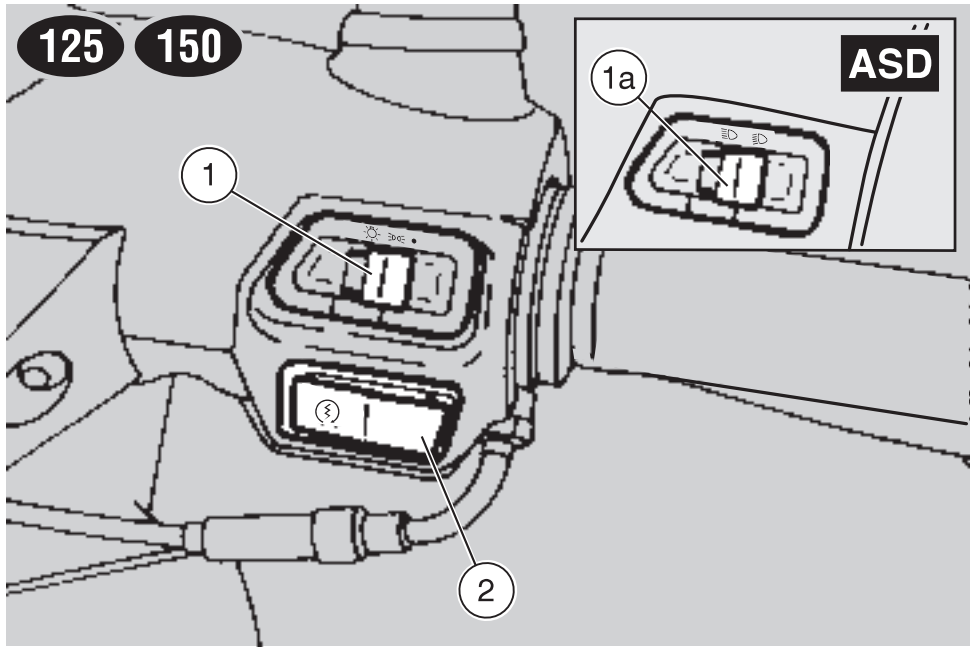
When the light switch is in position "●", the lights are off; when the switch is in position "≡D", the parking lights and the dashboard light are on; when the switch is in position "☼", the parking lights, the dashboard light and the low beam are on. The high beam can be operated by means of the dimmer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

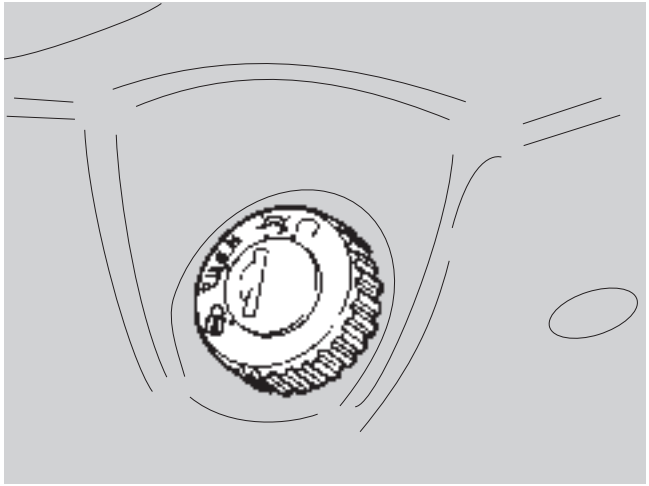
1a) DIMMER SWITCH (≡D - ≡D) ASD

When it is in position "≡D" the parking lights, the dashboard light and the low beam are always on.
When it is in position "≡D", the high beam comes on.

2) START PUSH BUTTON (ⓚ)

When the start push button is pressed and one of the brake levers (front or rear) is activated at the same time, the starter makes the engine run.
For the starting procedure, see p. 36 (STARTING).



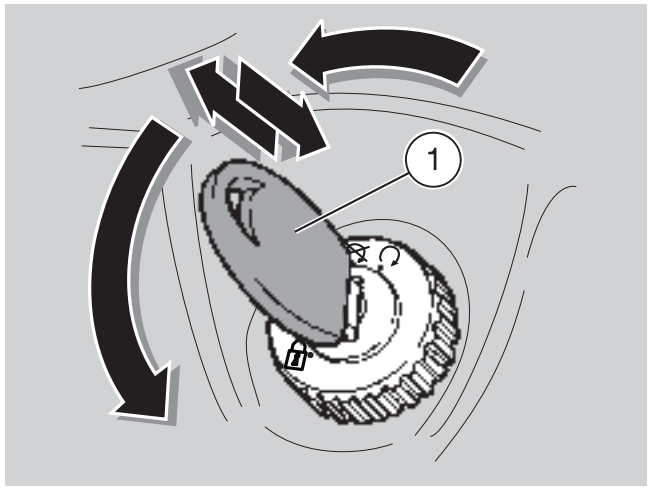


IGNITION SWITCH

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

NOTE The key (1) operates the ignition/steering lock switch, the battery/tool kit compartment lock and the saddle lock.
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.

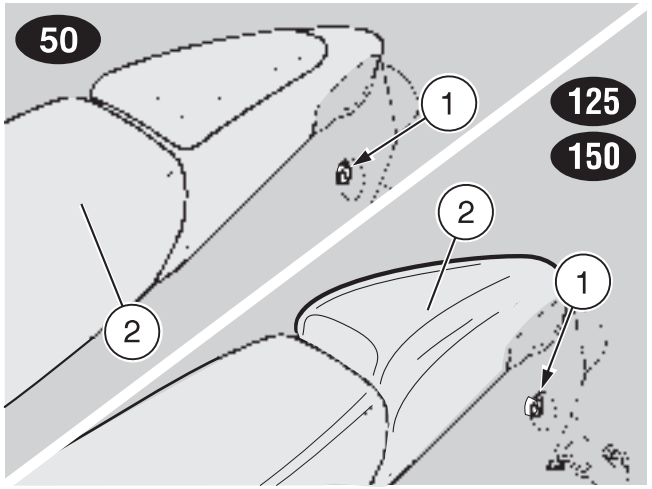
OPERATION

To lock the steering:
- Turn the handlebar completely leftwards.
- Turn the key (1) to position "⊗" and press it.
- Release the key.

NOTE Turn the key and steer the handlebar at the same time.

- Rotate the key (1) anticlockwise (leftwards), steer the handlebar slowly until the key (1) reaches 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.



UNLOCKING / LOCKING THE SADDLE

To unlock and lift the saddle:

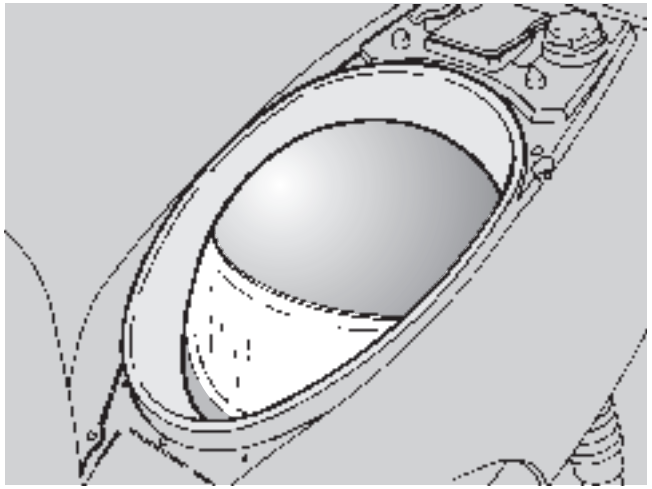
- Position the vehicle on the stand.
- Insert the key in the saddle lock (1).
- Turn the key clockwise and raise the saddle (2).

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:

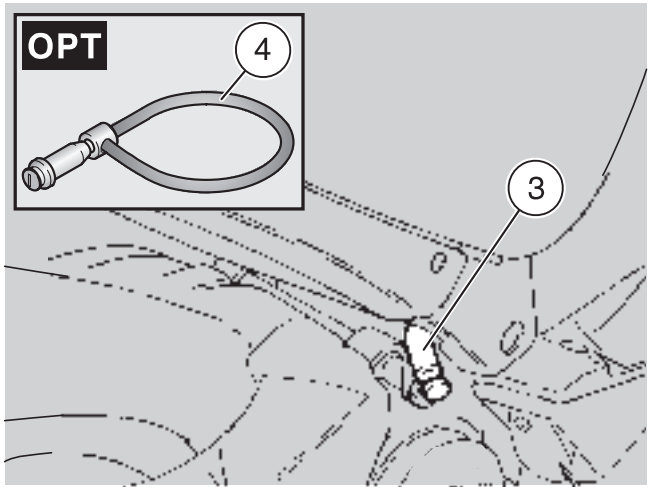
- Raise the saddle (2), see beside (UNLOCKING / LOCKING THE SADDLE).

NOTE Position the helmet with the opening facing downwards, as indicated in the figure.

⚠ WARNING

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

Maximum allowed weight: 2.5 kg.



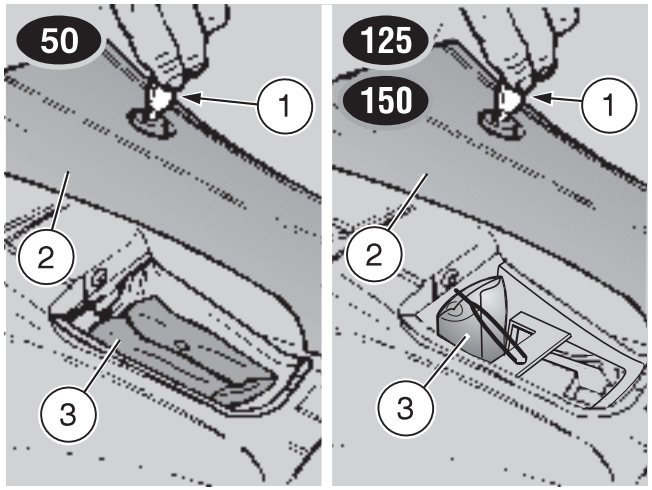
ANTI-THEFT HOOK

The anti-theft hook (3) is positioned on the right side of the vehicle, near the rider's footboard.

To prevent the vehicle from being stolen, it is advisable to secure it with the **aprilia** "Body-Guard" armored cable OPT (4), available at any **aprilia** Official Dealer.

⚠ WARNING

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



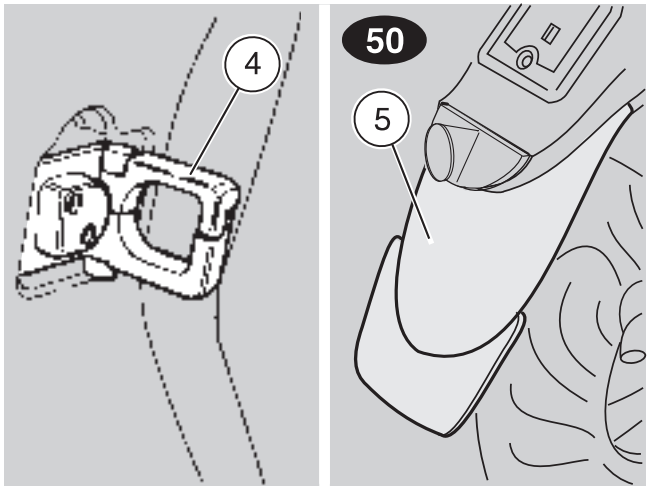
BATTERY / TOOL KIT COMPARTMENT

This compartment is positioned in the lower part of the vehicle, between the footrests.

To reach it, proceed as follows:
- Insert the key (1) in the lock.
- Rotate the key (1) clockwise, pull it and remove the cover (2).

The tool kit (3) includes:

– n. 1 tool case
– n. 1 21 mm spark plug socket spanner
– n. 1 socket spanner rod
– n. 1 double-ended, cross-/cut headed-screwdriver type PH size 2
– n. 1 screwdriver handle
– n. 1 (50) 4 mm hexagon spanner
– n. 1 (50) 8/10 mm socket spanner



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 (4) is positioned on the front part of the inner shield.

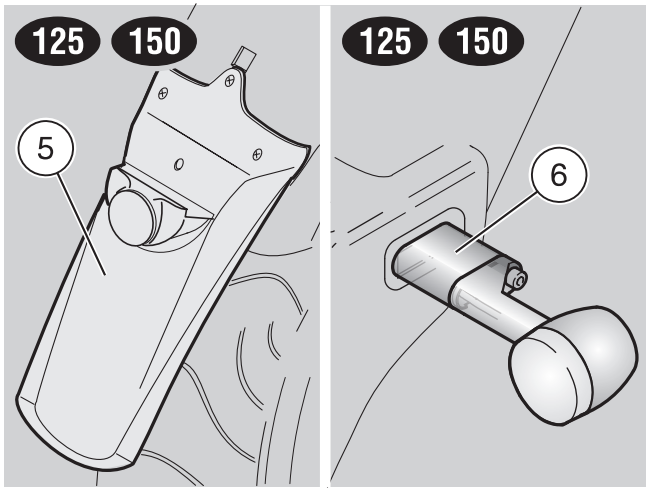
Max. allowed weight: 1.5 kg.

REAR MUDGUARD EXTENSION

The rear mudguard extension (5) 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 rear mudguard extension (5), complete with screws and relevant nuts, is supplied as standard equipment and is housed in the crash helmet/glove compartment.

For the installation, see p. 56 ((50) INSTALLING THE REAR MUDGUARD EXTENSION), see p. 57 ((125) (150) INSTALLING THE REAR MUDGUARD EXTENSION).



(125) (150) DIRECTION INDICATOR EXTENSIONS

In the countries where the number plate size is 280x280 mm, it is necessary to install appropriate extensions (6) for the direction indicators.

NOTE The direction indicator extensions (6), complete with nuts and screws, are supplied as standard equipment and are housed in the crash helmet/glove compartment.

For the installation, see p. 58 ((125) (150) INSTALLING THE DIRECTION INDICATOR EXTENSIONS).

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.

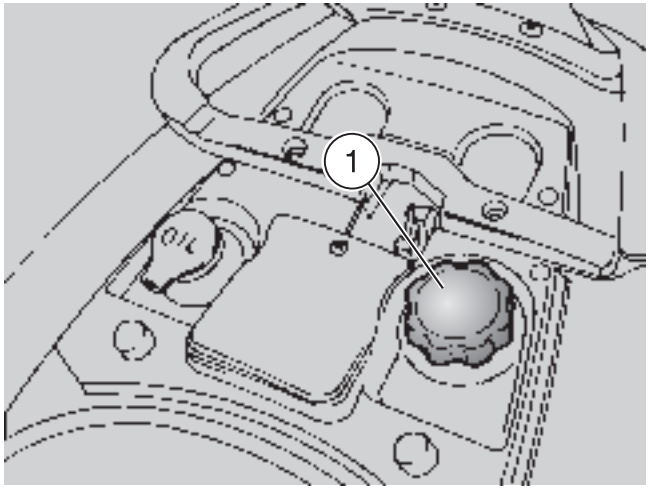
50

Use only premium grade petrol (4 Stars UK), in conformity with the DIN 51600 standard, min. O.N. 98 (N.O.R.M.) and 88 (N.O.M.M.).

Use only unleaded petrol, in conformity with the DIN 51607 standard, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.).

125 150

Use only unleaded petrol, in conformity with the DIN 51607 standard, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.).



FUEL TANK CAPACITY (reserve included): 8 ℓ

TANK RESERVE: 2 ℓ

To refuel, proceed as follows:

- Position the vehicle on the centre stand.
- Lift the saddle, see p. 23 (UNLOCKING / LOCKING THE SADDLE).
- Unscrew and remove the fuel tank plug (1).
- Refuel.

⚠ WARNING

After refuelling, put back the cap (1) in the correct position.

- Put back the cap (1).

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.

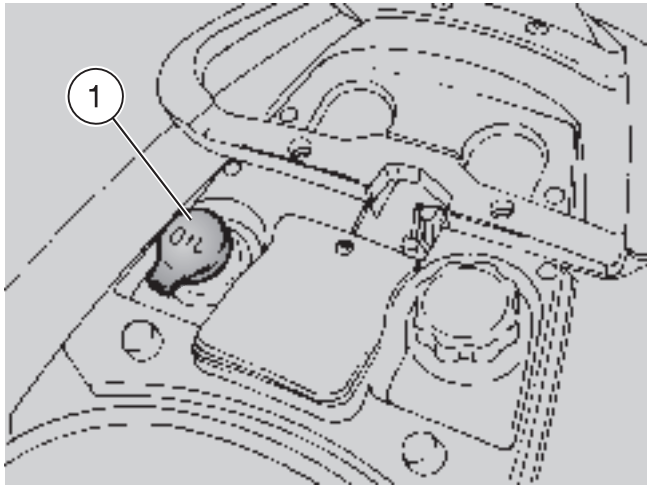
DO NOT DISPOSE OF OIL IN THE ENVIRONMENT.

⚠ 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.

⚠ CAUTION

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



2 STROKE OIL

Top up the 2 stroke oil tank every 500 km (312 mi).
The vehicle is provided with a separate mixer that makes it possible to mix petrol with oil for the lubrication of the engine, see p. 84 (50 LUBRICANT CHART) or p. 85 (125 150 LUBRICANT CHART).
The reserve is indicated by the coming on of the 2 stroke oil reserve warning light "" positioned on the dashboard, see p. 16 and 17 (ARRANGEMENT OF THE CONTROLS / INSTRUMENTS AND INDICATORS).

⚠ CAUTION

The use of the vehicle without 2 stroke oil causes serious damages to the engine.

If you run out of oil in the 2 stroke oil tank or if the 2 stroke oil pipe has been removed, it is necessary to contact an aprilia Official Dealer, who will provide for bleeding the system.

This operation is indispensable, since the operation of the engine with air in the 2 stroke oil system may cause serious damages to the engine itself.

To top up the 2 stroke oil tank, proceed as follows:
- Position the vehicle on the centre stand.
- Lift the saddle, see p. 23 (UNLOCKING / LOCKING THE SADDLE).
- Remove the plug (1).

2 STROKE OIL TANK CAPACITY: 1.6 ℓ

TANK RESERVE: 0.5 ℓ
- Top up the 2 stroke oil tank.

⚠ WARNING

After refuelling, put back the cap (1) in the correct position.

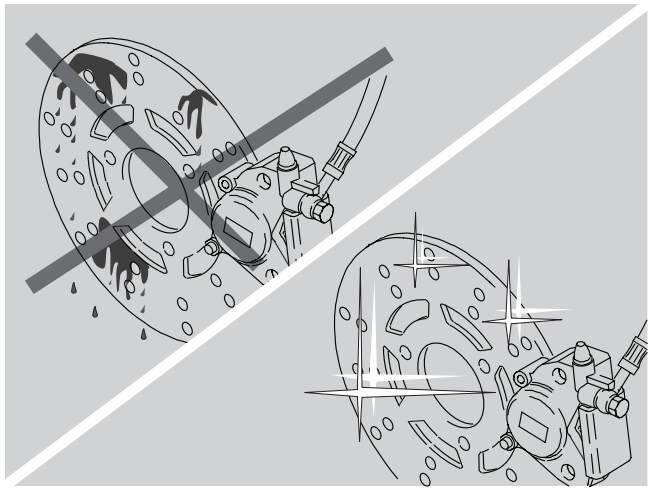
- Put back the cap (1).

50 TRANSMISSION OIL

Have the transmission oil level checked every 4000 km (2500 mi), or every 12 months.
It is necessary to have the transmission oil changed after the first 500 km (312 mi) and successively every 12000 km (7500 mi), or every 2 years.
To check the oil level and to change the oil, contact an **aprilia** Official Dealer.

125 150 TRANSMISSION OIL

Have the transmission oil level checked every 4000 km (2500 mi), or every 12 months.
It is necessary to have the transmission oil changed after the first 1000km (625 mi) and successively every 12000 km (7500 mi), or every 24 months.
To check the oil level and to change the oil, contact an **aprilia** Official Dealer.

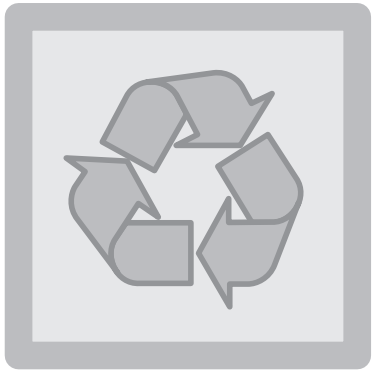


BRAKE FLUID - recommendations

⚠ 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.

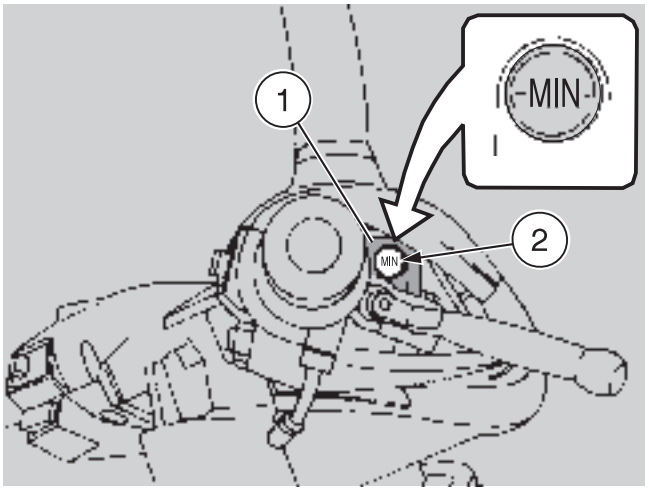
The brake fluid must be changed every two years by an aprilia Official Dealer.

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.

This vehicle is provided with hydraulic disc brakes.

NOTE For the version with rear drum brake, the following information refers to the front disc brake only.

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



The brake fluid reservoir (1) is positioned near the front brake lever coupling. Periodically check the brake fluid level in the reservoir (1) and the pad wear, see p. 51 (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.

MIN = minimum level.

- Position the vehicle on the centre stand.
- 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).

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. 51 (CHECKING THE BRAKE PAD WEAR) and the disc wear.

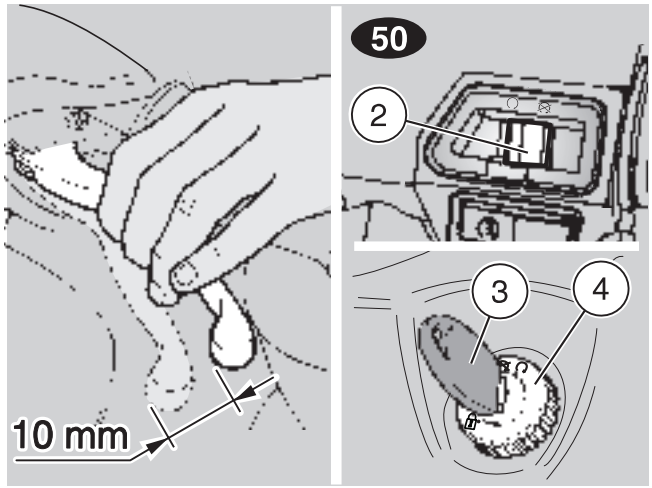
If the pads and / or the disc do not need replacing:

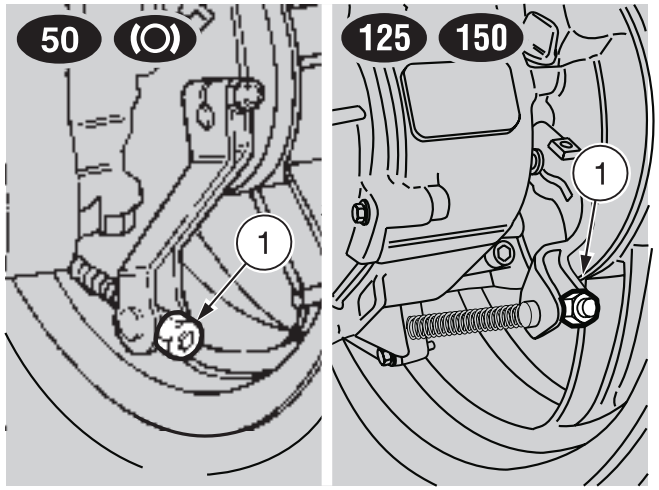
- Contact an **aprilia** Official Dealer, who will provide for topping up.

⚠ 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.





REAR DRUM BRAKE

⚠ WARNING

The brakes are the parts that most ensure your safety and for this reason they must always be perfectly working.

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

ADJUSTING THE BRAKE

- Measure the distance covered by the lever before the brake starts it braking action. The idle stroke at the end of the brake lever must be about 10 mm.

To adjust the clearance, proceed as follows:

- Act on the adjuster (1).
- Put on the brake repeatedly and make sure that the wheel turns freely after the brake has been released.
- Check the braking efficiency.

⚠ WARNING

If the adjuster (1) can be screwed up completely, this means that the brake shoes are worn out.
In this case, see p. 51 (CHECKING THE SHOE WEAR).

NOTE The heating of the brake shoes caused by the braking action may modify the clearance between the friction material and the drum. For this reason, it is advisable to check the clearance even with the shoes at operating temperature.

- Carry out a trial run operating the rear brake two or three times.

⚠ WARNING

Carry out this check with the engine at rest.

- Stop the vehicle, see p. 41 (STOPPING).
- 50 Move the engine stop switch (2) to position "⊠" (for the countries where required).
- Rotate the key (3) and move the ignition switch (4) to position "⊠".
- Position the vehicle on the centrestand.
- Make sure that the wheel turns freely.

If necessary:

⚠ WARNING

When the engine is hot, be careful not to burn yourself while carrying out the following operations.

- Loosen the adjuster (1), making sure that the wheel turns freely.

50 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.

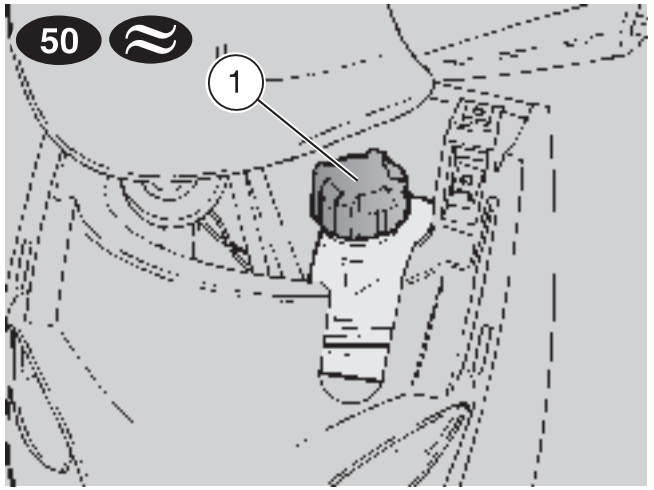
The coolant is made up of 50% water and 50% antifreeze.

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.

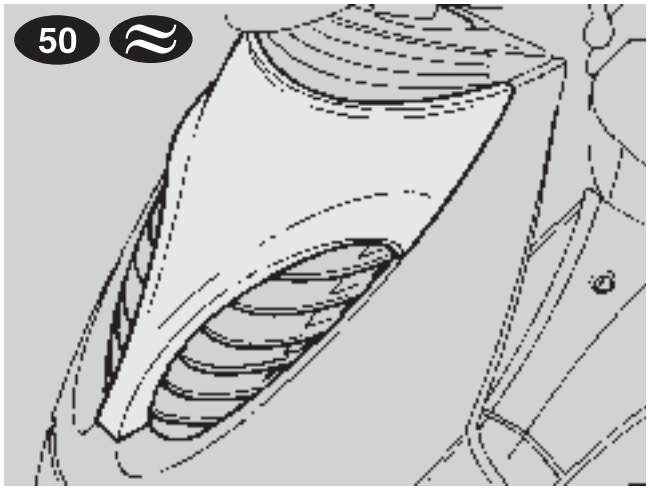
If the outdoor temperature is below 0°C, check the cooling circuit frequently and if necessary increase the antifreeze concentration (up to maximum 60%).

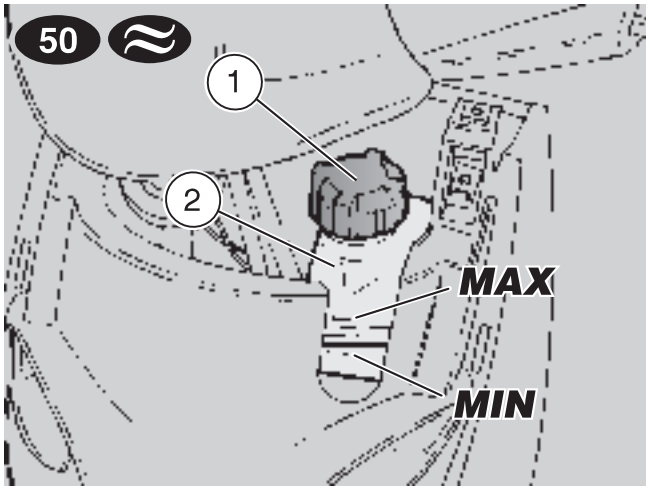


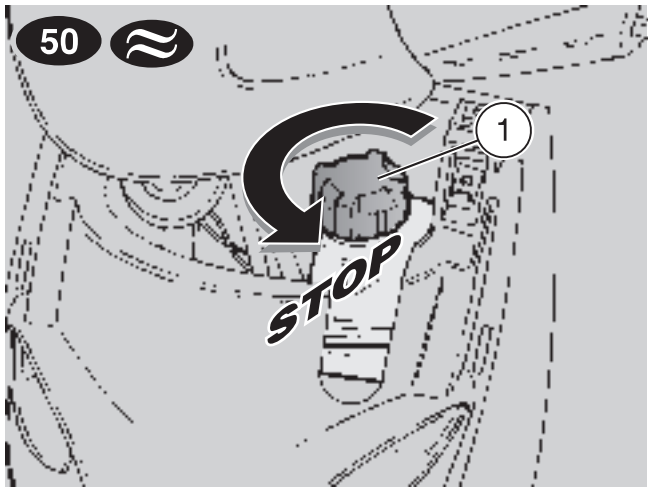
For the cooling solution use distilled water, in order not to damage the engine.

⚠ WARNING

Do not remove the expansion tank cap (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.







50 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. 53 (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) without removing it (give it half turn anticlockwise).
- Wait a few seconds in order to release any residual pressure.
- 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, p. 84 (50 50 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. 53 (REMOVING THE FRONT COVER).

TYRES

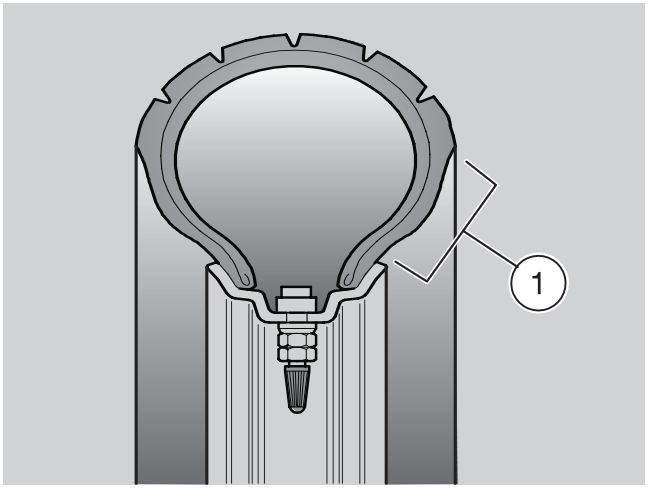
This vehicle is provided with tubeless tyres.

⚠ WARNING

Periodically check the tyre inflation pressure at room temperature, see p. 79 (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.

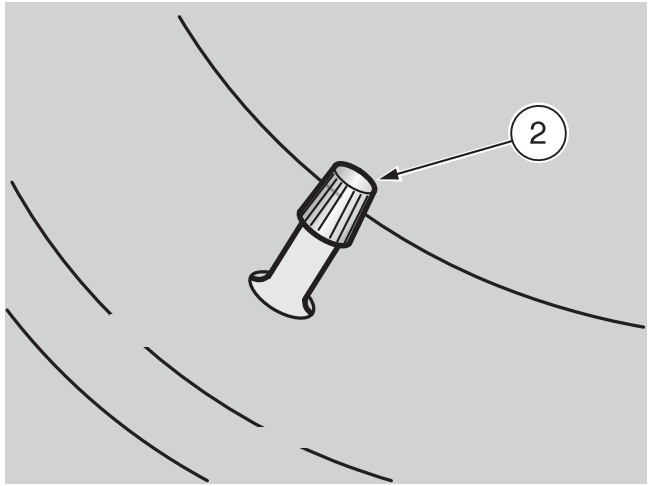
If the tyres are old, even if not completely worn out, they may become hard and may not ensure good road holding.
In this case, have the tyres changed.

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. 79 (TECHNICAL DATA).

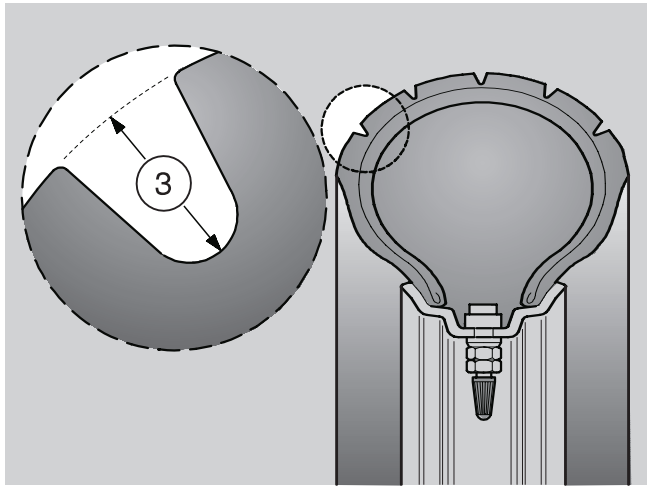
Do not install tyres with air tube on rims for tubeless tyres and viceversa.



Make sure that the tyres always have their valve sealing (2) 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 (3)

front: ..... 1.5 mm (3 mm USA)
rear: ..... 1.5 mm (3 mm USA)

50 AUTOMATIC LIGHT SWITCHING VERSION ASD

The vehicles provided with the Automatic Switch-on Device can be immediately recognized, since the lights come automatically on as soon as the engine is started.

For this reason the light switch has been replaced with a dimmer switch "≣D - ≣D".

The lights can be switched off only by stopping the engine.

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

125 150 AUTOMATIC LIGHT SWITCHING VERSION ASD

The vehicles provided with the Automatic Switch-on Device can be immediately recognized, since the lights come automatically on as soon as the engine is started.

For this reason the light switch has been replaced with a dimmer switch "≣D - ≣D".

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 "≣D" (front low beam).

CATALYTIC SILENCER

⚠ WARNING

Avoid parking the vehicle catalytic version near dry brush wood or in places easily accessible to children, as the catalytic silencer becomes extremely hot during use; be very careful and avoid any kind of contact before it has completely cooled down.

The catalytic vehicle is fitted with a silencer with metal catalytic converter of the “platinum-rhodium bivalent” type.

This device provides for the oxidation of the CO (carbon monoxide) and of the HC (unburned hydrocarbons) contained in the exhaust gases, changing them into carbon dioxide and steam, respectively.

Due to the catalytic reaction, the high temperature reached by the exhaust gases makes for the burning of the oil particles, thus keeping the silencer clean and eliminating the exhaust fumes.

To have the catalytic converter function correctly and for long and to reduce possible problems regarding the soiling of the thermal unit and of the exhaust, it is necessary to avoid covering long distances with the engine running at constantly low rpm.

It is sufficient to alternate these periods with periods in which the engine runs at relatively high rpm, even if only for a few seconds, but rather frequently.

What has been stated above assumes particular importance for the cold starting of the engine: in this case, in order to reach a rpm regime sufficient to enable the “priming” of the catalytic reaction, just make sure that the temperature of the thermal unit has reached at least 50°C, which generally occurs a few seconds after starting the engine.

⚠ CAUTION

Do not use leaded petrol, since it causes the destruction of the catalytic converter.

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.

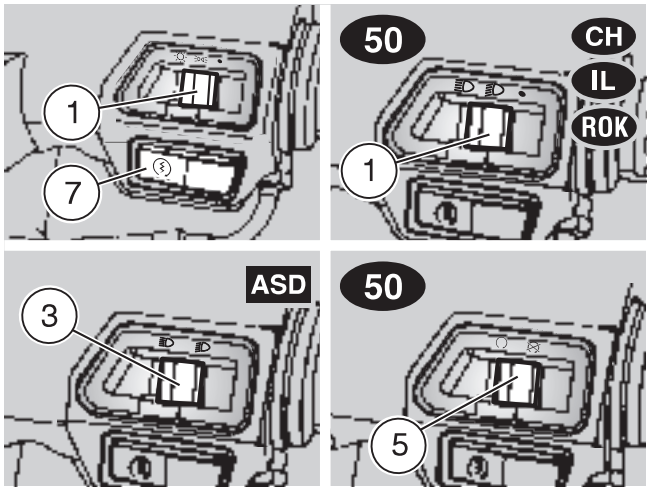
⚠ WARNING

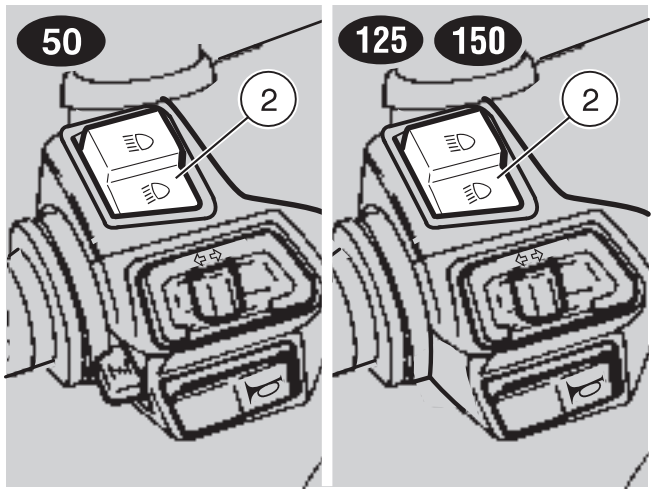
Before departure, always carry out a preliminary checking of the vehicle, to make sure that it functions correctly and safely, see the following table PRELIMINARY CHECKING OPERATIONS.
The non-performance of these checking operations can cause severe personal injuries or damages to the vehicle.

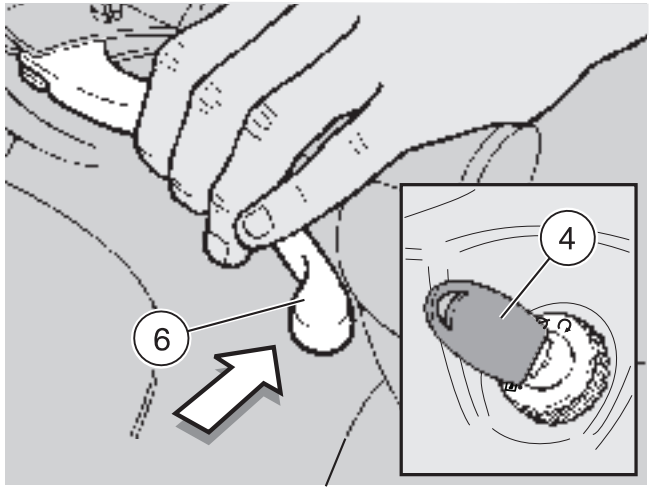
Do not hesitate to consult your aprilia Official Dealer in case there is something you do not understand about the functioning of some controls or in case you suspect or discover some irregularities.
It does not take long to carry out a check-up and this operation ensures you much more safety.

PRELIMINARY CHECKING OPERATIONS

Component	Check	Page
Disc brakes	Check the functioning, the fluid level and make sure there are no leaks. Check the wear of the pads. Top up, if necessary.	27, 28, 51
Rear drum brake	Check the functioning, the idle stroke and the control lever conditions. If the clearance is not correct, adjust it.	29, 51
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.	63
2 stroke oil	Check and/or top up, if necessary.	26
Wheel / tyres	Check the tyre surface, the inflation pressure, wear and tear and any damage.	32 ,33
Brake levers	Make sure that they work smoothly. If necessary, lubricate the articulations.	27, 28, 29
Steering	Make sure that the steering rotates smoothly, without any clearance or slackening.	52
Centre stand	Make sure that they work smoothly and that the spring tension brings it back to its normal position. If necessary, lubricate joints and hinges.	61
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.	25
Coolant	The coolant level in the expansion tank must be included between the “**MIN**” and “**MAX**” markings. Top up, if necessary.	30, 31
Engine stop switch (○ - ⊠) (in the countries where required)	Make sure that it functions correctly.	19
Lights, warning lights, horn and electric devices	Check the proper functioning of all the devices. Change the bulbs or intervene in case of failure.	65 – 75







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.

ELECTRIC STARTING

- Position the vehicle 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”.
- ASD Make sure that the dimmer switch (3) is in position “≡D”.
- Rotate the key (4) and move the ignition switch to position “○”.
- 50 Move the engine stop switch (5) to position “○”, (in the countries where required).
- 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. 37 (STARTING AFTER A LONG PERIOD OF INACTIVITY).

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

- Press the start push button “⚷” (7) without accelerating, then release it as soon as the engine starts.

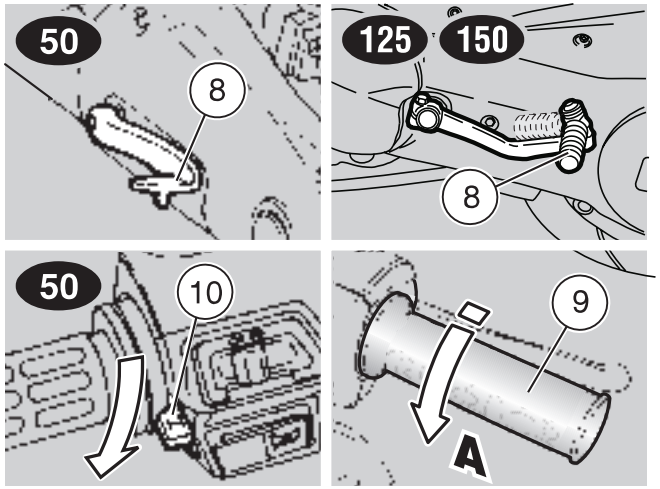
⚠ CAUTION

When the start push button “⚷” is pressed, the 2 stroke oil reserve warning light “🛢” comes on.
With the engine in running condition, when the start push button “⚷” is released, the 2 stroke oil reserve warning light “🛢” must go out; if this does not occur, top up the 2 stroke oil tank, see p. 26 (2 STROKE OIL).
Avoid pressing the start push button “⚷” (7) when the engine is running, since you may damage the starter.

NOTE 125 150 After starting the engine (in particular at very low temperatures), wait 15-20 seconds without accelerating, in order to allow the engine to warm up.

- Do not accelerate and pull the brake levers at the same time until you move off.

To leave, see p. 38 (DEPARTURE AND DRIVE).



KICK START

- Position the vehicle on the centre stand.
- Move to the left side of the vehicle.
- Make sure that the light switch (1) is in position“•”.
- Make sure that the dimmer switch (2) is in position “≡D”.
- ASD Make sure that the dimmer switch (3) is in position “≡D”.
- Rotate the key (4) and move the ignition switch to position “○”.
- 50 Move the engine stop switch (5) to position “○”, (in the countries where required).
- To avoid losing control of the vehicle during the starting, lock both wheels by putting on the brake levers (6).
- 125 150 Rotate the start pedal (8) outwards.

⚠ CAUTION

Do not push down the kick starter with the engine on.

- Push down the kick starter (8) with your right foot, releasing it immediately.
  If necessary, repeat the operation until the engine starts.
- 125 150 Rotate the start pedal (8) back to its original position.

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 “⚷” (7) for a few seconds (letting the engine spin over) with completely open throttle (9) (**Pos. A**).

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:

- 50 Rotate the cold start lever “⌊” (10) downwards.
- Press the start push button “⚷” (7) and at the same time rotate the throttle grip (9) moderately.

If the engine starts.

- Release the throttle grip (9).
- If the idling is unstable, twist the throttle grip (9) slightly and frequently.

To leave, see p. 38 (DEPARTURE AND DRIVE).

If the engine does not start.

Wait a few seconds and repeat the STARTING WITH COLD ENGINE procedure.

- If necessary, remove the spark plug, see p. 64 (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.

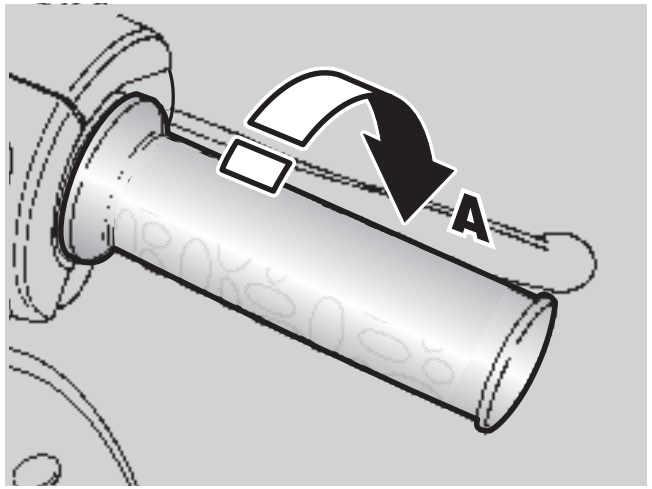
- Press the start push button “⚷” (7) and let the starter run for about five seconds without accelerating.

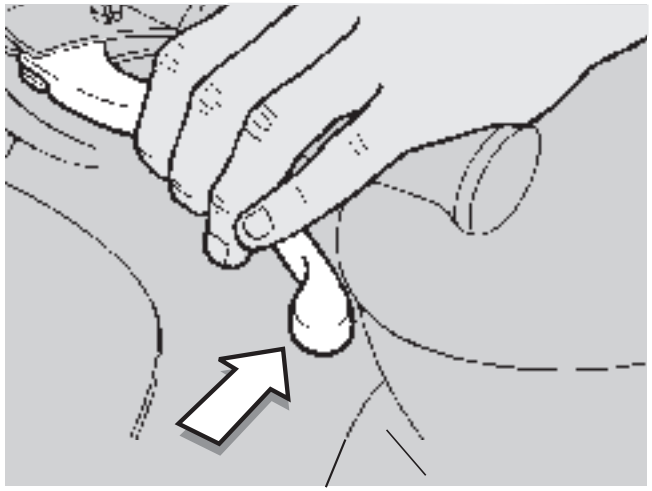
STARTING AFTER A LONG PERIOD OF INACTIVITY

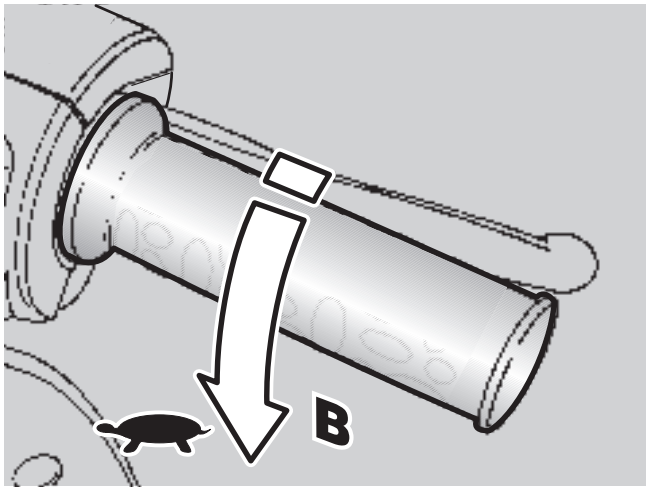
After a long period of inactivity, if the start is not immediate, this may be due to the fact that the fuel circuit is partially empty.

In this case:

- Press the start push button “⚷” (7) for about five 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).

⚠ WARNING

Any mention to the use of the vehicle with passenger is to be intended as referred only to the countries where this is allowed.
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 manouvres.

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

To leave:

- Release the throttle grip (**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.

- To leave, release the brake lever and accelerate by gently rotating the throttle grip (**Pos. B**); the vehicle will start moving.

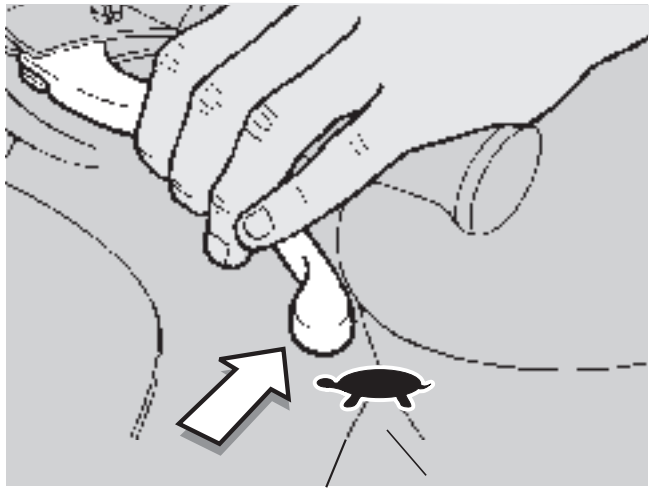
- 50 Once the engine has warmed up, see p. 17 (50 Coolant temperature indicator ≈), rotate the cold start lever “|↖|” upwards.

⚠ 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.



⚠ WARNING

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.

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!

⚠ WARNING

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.

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.

⚠ WARNING

If the 2 stroke oil reserve warning light "" comes on during the normal functioning of the engine, this means that the 2 stroke oil reserve is being used; in this case, top up the 2 stroke oil tank, see p. 26 (2 STROKE OIL).

⚠ CAUTION

50 If the pointer of the coolant temperature indicator "" reaches the red area, stop the engine and check the coolant level, see p. 30 (50 COOLANT).

50 RUNNING-IN

⚠ WARNING

After the first 500 km (312 mi), carry out the checking operations indicated in the column "After running-in" of the REGULAR SERVICE INTERVALS CHART, see p. 44, 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 correct functioning 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.

For the first 500 km (312 mi), keep to the following indications:

- **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.
- **0-300 km (0-187 mi)**
  Do not keep the throttle grip open more than one half for long stretches.
- **300-500 km (187-312 mi)**
  Do not keep the throttle grip open more than three-fourths for long stretches.

125 150 RUNNING-IN

⚠ WARNING

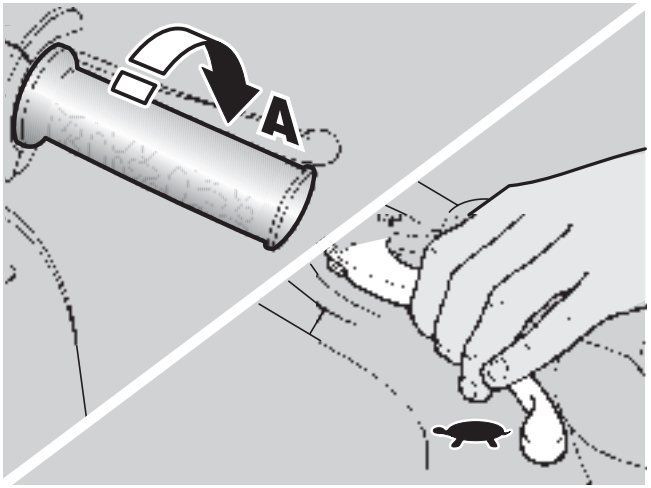
After the first 1000 km (625 mi), carry out the checking operations indicated in the column "after running-in" of the REGULAR SERVICE INTERVALS CHART, see p. 46, in order to avoid hurting yourself or other people and/or damaging the vehicle.

The running-in of the engine is primary to ensure its correct functioning 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.

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.
- **0-1000 km (0-625 mi)**
  During the first 1000 km (625 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.

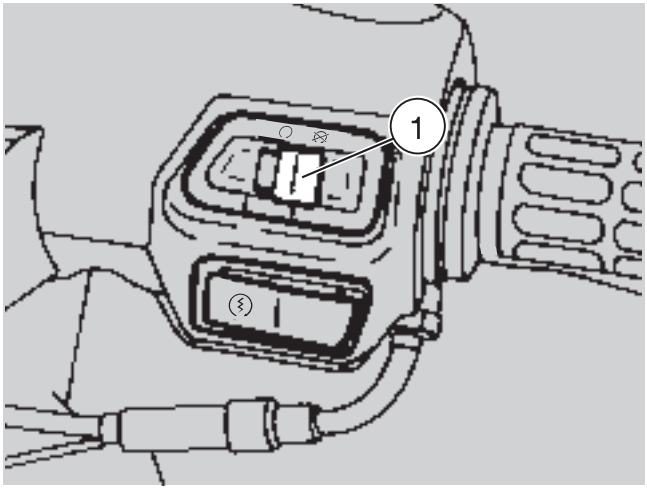


STOPPING

⚠ 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.

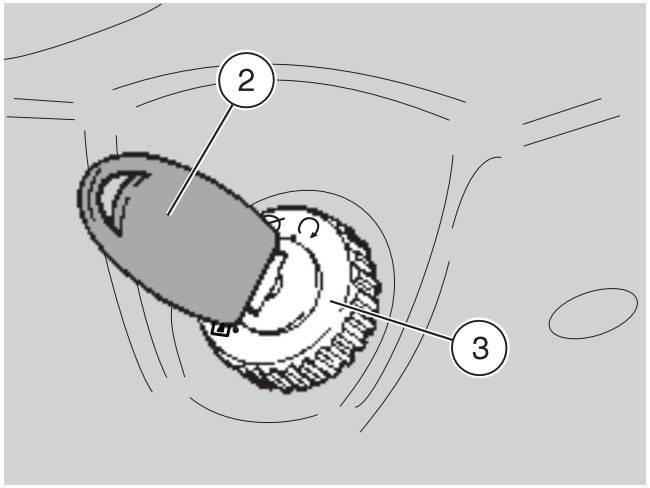
Neither lean the vehicle against walls, nor lay it on the ground.

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 beside (STOPPING).
- Move the engine stop switch (1) to position "⊠" (for the countries where required).



⚠ CAUTION

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

- Rotate the key (2) and move the ignition switch (3) to position "⊠".
- Position the vehicle on the stand, see p. 42 (POSITIONING THE VEHICLE ON THE STAND).

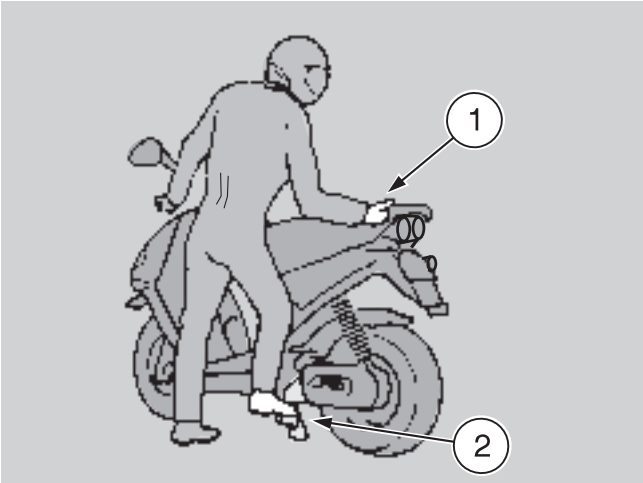
⚠ CAUTION

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. 22 (STEERING LOCK) and extract the key (2).

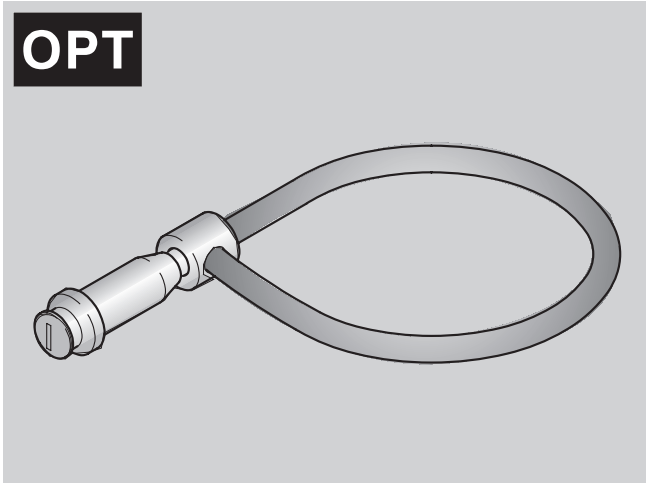


POSITIONING THE VEHICLE ON THE STAND

Carefully read p. 41 (PARKING).

CENTRE STAND

- Grasp the left handgrip and the left rear grab rail (1).
- Push down the stand lever (2).



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.

⚠ 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.

Do not hold any mechanical piece or other parts of the vehicle with your mouth: the components are not edible and some of them are noxious or even toxic.

⚠ 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. 35 (PRELIMINARY CHECKING OPERATIONS).

REGULAR REGULAR SERVICE INTERVALS CHART 50

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

Key

① = check and clean, adjust, lubricate or change, if necessary;

② = clean;

③ = change;

④ = adjust.

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

Component	After running-in [500 km (312 mi)]	Every 4000 km (2500 mi) or 12 months	Every 8000 km (5000 mi) or 24 months
Battery - Terminal fastening - Electrolyte level	①	①	–
Spark plug	①	③	–
Carburettor - idling	④	①	–
Air cleaner	①	②	–
Accelerator operation	①	①	–
Brake locking operation	①	①	–
Light system	①	①	–
Stop light switches	–	①	–
Brake fluid	–	①	–
2 stroke oil	every 500 km (312 mi): ①		
Headlight beam direction - operation	–	①	–
Wheels/tyres and inflation pressure	every month: ①		
Front and rear brake pad wear	①	every 2000 km (1250 mi): ①	

OPERATIONS TO BE CARRIED OUT BY THE aprilia Official Dealer.

Key

① = check and clean, adjust, lubricate or change, if necessary;

② = clean;

③ = change;

④ = adjust.

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

Component	After running-in [500 km (312 mi)]	Every 4000 km (2500 mi) or 12 months	Every 8000 km (5000 mi) or 24 months
Rear shock absorber	–	–	①
Transmission cables and controls	①	①	–
Variator belt	every 6000 km: ③		
Steering tube bearings and steering slack	①	①	–
Wheel bearings	–	①	–
Brake discs	①	①	–
Piston rings	every 12000 km (7500 mi): ①		
Accelerator operation - Mixer	①	①	–
General running of the vehicle	①	①	–
Braking systems/brake discs	①	①	–
Cylinder cooling system	every 20000 km (12500 mi): ② (outside cleaning)		
Rear brake cam pin greasing	–	①	–
Brake fluid	every 2 years: ③		
Coolant	every 2000 km (1250 mi): ① / every 2 years: ③		
Fork oil and oil seal	every 12000 km (7500 mi): ①		
Transmission oil	③	①	every 12000 km (7500 mi) or 2 years: ③
Rear pulley pins	every 12000 km (7500 mi): ③		
Movable/fixed front pulley	every 6000 km (3750 mi): ③		
Variator front pins and guides	every 6000 km (3750 mi): ③		
Wheels/tyres and inflation pressure	①	①	–
Nut, bolt, screw tightening	①	①	–
Front suspension	–	–	①
2 stroke oil reserve warning light	①	①	–
Fuel pipe	every 4000 km (2500 mi): ① / every 4 years: ③		
Braking system pipe	–	①	every 4 years: ③
Mixer oil pipe	①	①	every 2 years: ③
Clutch wear	–	–	①
Rear brake shoe wear	①	①	–

REGULAR REGULAR SERVICE INTERVALS CHART 125 150

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

Key

① = check and clean, adjust, lubricate or change, if necessary;

② = clean;

③ = change;

④ = adjust.

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

Component	After running-in [1000 km (625 mi)]	Every 4000 km (2500 mi) or 12 months	Every 8000 km (5000 mi) or 24 months
Battery - Terminal fastening	①	①	–
Spark plug	①	①	③
Carburettor - idling	④	④	–
Air cleaner	①	②	–
Accelerator operation	①	①	–
Brake locking operation	①	①	–
Light system	①	①	–
Stop light switches	–	①	–
Brake fluid	–	①	–
2 stroke oil	every 500 km (312 mi): ①		
Headlight beam direction - operation	–	①	–
Wheels/tyres - inflation pressure	every month: ①		
Brake pad wear	①	every 2000 km (1250 mi): ①	

OPERATIONS TO BE CARRIED OUT BY THE aprilia Official Dealer.

Key

① = check and clean, adjust, lubricate or change, if necessary;

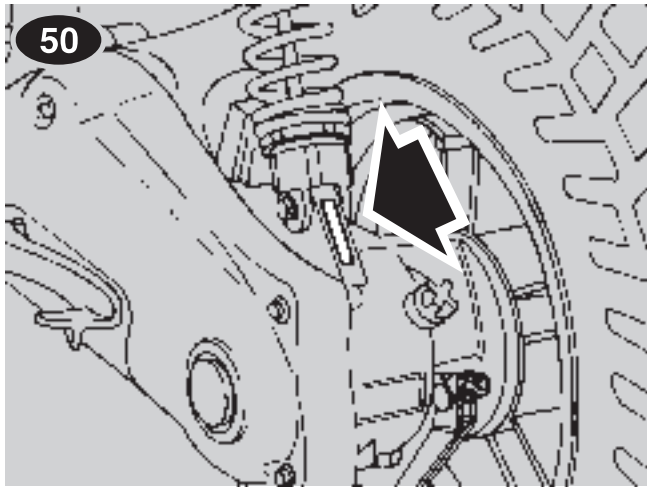
② = clean;

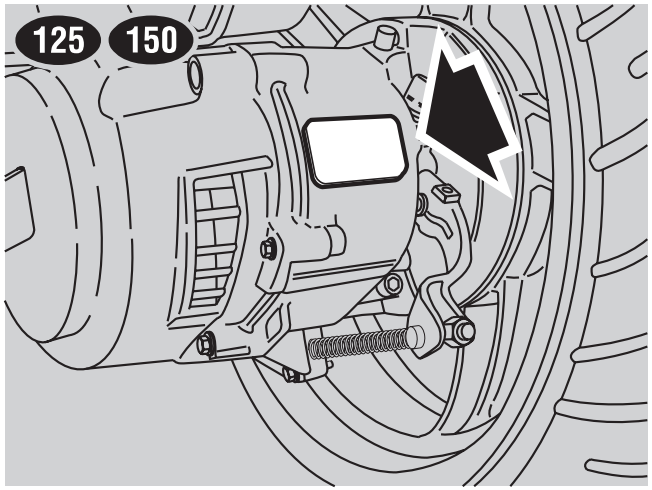
③ = change;

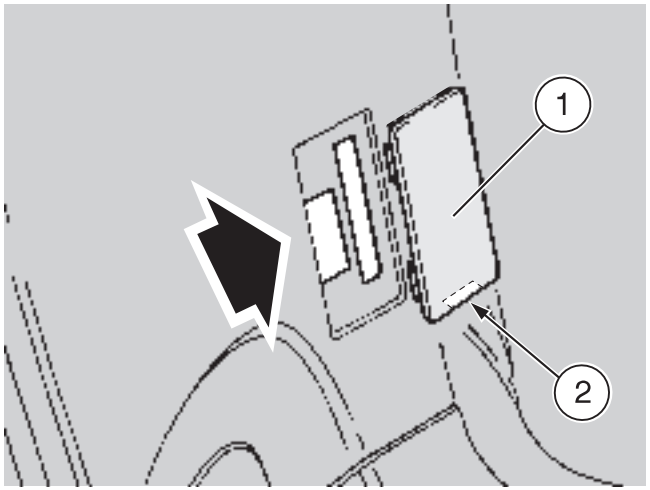
④ = adjust.

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

Component	After running-in [1000 km (625 mi)]	Every 4000 km (2500 mi) or 12 months	Every 8000 km (5000 mi) or 24 months
Rear shock absorber	–	–	①
Transmission cables and controls	①	①	–
Cylinder/Piston	every 12000 km (7500 mi): ①		
Mixer belt	every 30000 km (18750 mi): ③		
Speed change gear belt and roller shoes	every 12000 km (7500 mi): ③		
Steering tube bearings and steering slack	①	①	–
Wheel bearings	–	①	–
Brake discs	①	①	–
Piston rings	every 12000 km (7500 mi): ①		
General running of the vehicle	①	①	–
Braking systems	①	①	–
Cylinder cooling system	every 20000 km (12500 mi): ② (outside cleaning)		
Gas cable splitter greasing	every 12000 km (7500 mi): ①		
Brake fluid	every 2 years: ③		
Mixer/accelerator operation	①	①	–
Fork oil and oil seal	every 12000 km (7500 mi): ①		
Transmission oil	③	①	every 12000 km (7500 mi): ③
Wheels/tyres and inflation pressure	①	①	–
Nut, bolt, screw tightening	①	①	–
2 stroke oil reserve warning light	①	–	–
Fuel pipe	–	①	every 4 years: ③
Braking system pipe	–	①	every 4 years: ③
Mixer oil pipe	①	①	every 4 years: ③
Clutch wear	–	–	①
Rear brake shoe wear	①	every 2000 km (1250 mi): ①	







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 The engine number is stamped on the rear side, near the rear brake adjuster.

50 ENGINE NUMBER

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

Engine no. _____

125 150 ENGINE NUMBER

The engine number is stamped on the rear side, near the rear brake adjuster.

Engine no. _____

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).

NOTE The cover (1) can be inserted in one direction only. The part provided with the tang (2) is the lower part.

Frame no. _____

50 AIR CLEANER

⚠ WARNING

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

Carefully read p. 43 (MAINTENANCE).

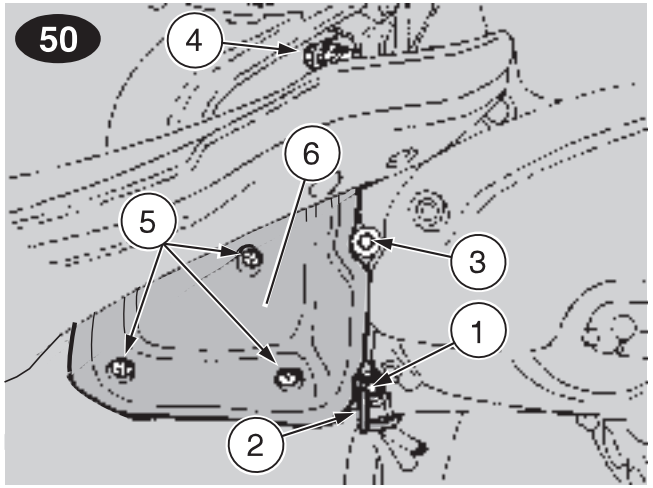
Check the conditions of the air cleaner and clean it monthly or every 4000 km (2500 mi), depending on the conditions in which the vehicle is used.

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

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

REMOVAL

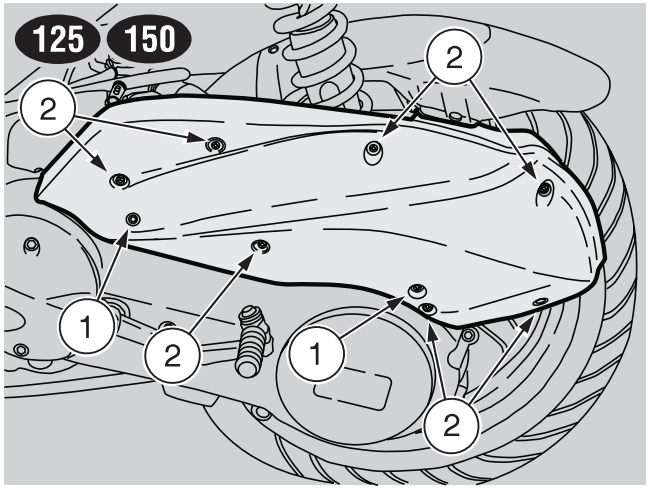
- Remove the lower shield cover, see p. 59 (50 REMOVING THE LOWER SHIELD COVER).
- Remove the left inspection cover, see p. 55 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).
- Unscrew and remove the screw (1), taking the washer and the breather pipe ring (2).
- Unscrew and remove the screw (3) with the relevant washer.
- Loosen the screw (4) of the air manifold clamp.
- Grasp the air manifold in correspondence with the clamp and pull it, thus removing the whole air cleaner casing.

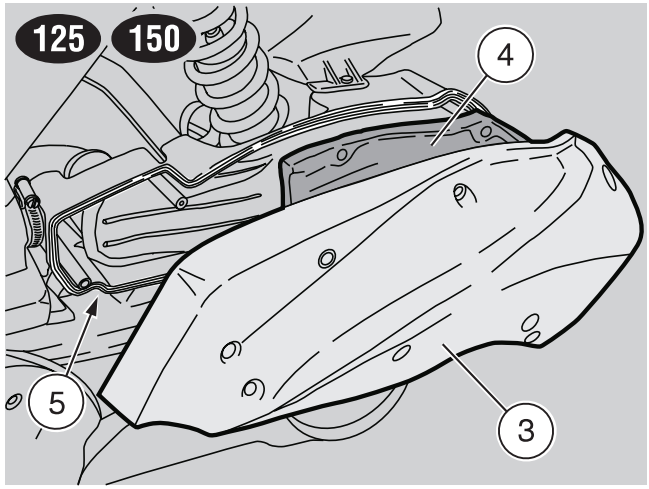


CLEANING THE AIR FILTER

- Unscrew the three screws (5).
- Remove the filter case cover (6) and extract the filtering element.
- To clean the filtering element use clean, non-inflammable solvents or solvents with high volatility point, then let it dry thoroughly.
- Apply a filter oil or a thick oil (SAE 80W-90) on the whole surface of the filtering element, then squeeze it to eliminate the oil in excess.

NOTE The filter must be well impregnated, though not dripping.





125 150 AIR CLEANER

Carefully read p. 43 (MAINTENANCE).

Check the conditions of the air cleaner and clean it monthly or every 4000 km (2500 mi), depending on the conditions in which the vehicle is used.

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

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

REMOVAL

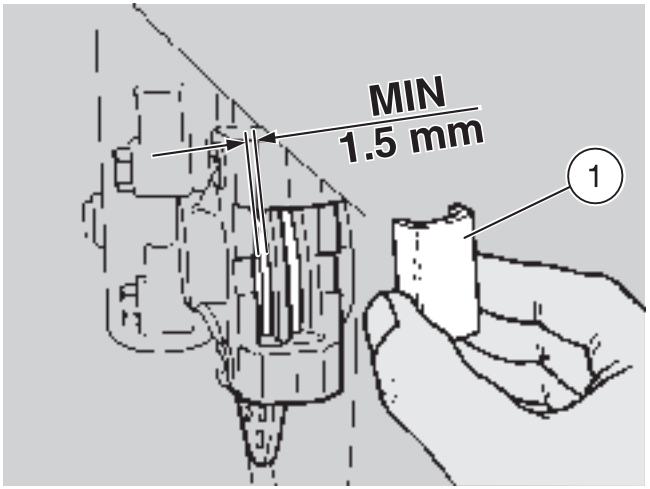
- Position the vehicle on the centre stand.
- Unscrew and remove the two screws (1).
- Unscrew and remove the seven screws (2).
- Remove the filter case cover (3).
- Remove the filtering element (4).
- Check:
  – filtering element (4);
  – filter case gasket (5);
  and change them if necessary.

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.



CHECKING THE BRAKE PAD WEAR

Carefully read p. 27 (BRAKE FLUID - recommendations), p. 28 (DISC BRAKES), p. 43 (MAINTENANCE).

50

Check the brake pad wear after the first 500 km (312 mi) and successively every 2000 km (1250 mi).

125 150

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. The wear will be greater when the vehicle is driven on dirty or wet roads.

⚠ WARNING

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

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

- Position the vehicle on the centre stand.
- Remove the brake caliper cover (1).
- Carry out a visual check between brake disc and pads.

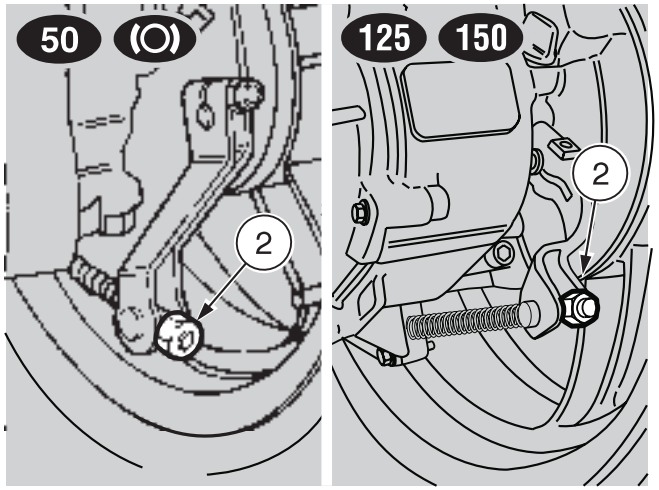
⚠ WARNING

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 about 1.5 mm, replace both pads.

⚠ WARNING

Have the pads changed by your aprilia Official Dealer.



CHECKING THE SHOE WEAR

Carefully read p. 29 (REAR DRUM BRAKE) and p. 43 (MAINTENANCE).

50

Have the rear brake shoe wear checked by an **aprilia** Official Dealer after the first 500 km (312 mi) and successively every 4000 km (2500 mi).

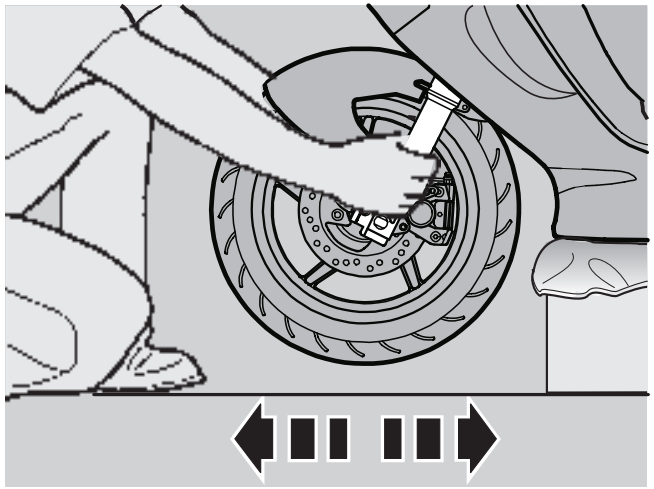
125 150

Have the rear brake shoe wear checked by an **aprilia** Official Dealer after the first 1000 km (625 mi) and successively every 2000 km (1250 mi).

In any case:

⚠ WARNING

If the adjuster (2) can be screwed completely, this means that the shoes are worn; in this case, contact an aprilia Official Dealer.



CHECKING THE STEERING

Carefully read p. 43 (MAINTENANCE).

Occasionally check the steering slack.

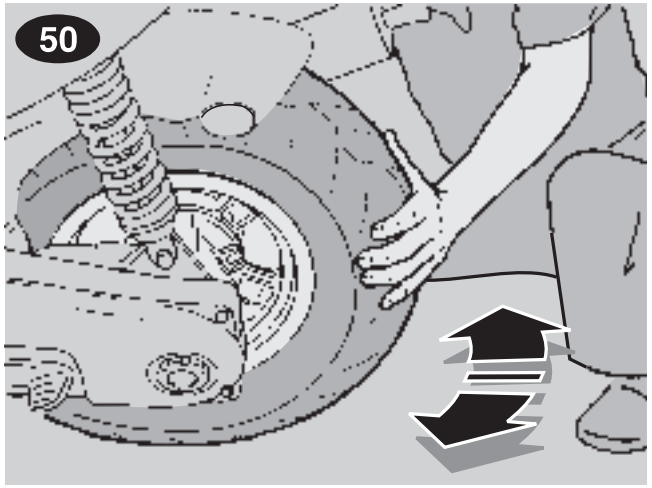
To check the steering it is necessary to:

- Position the vehicle on the centre stand.

NOTE (50) Prepare a 270 mm high support, the base of which must measure 200 x 200 mm.

NOTE (125) (150) Prepare a 210 mm high support, the base of which 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.



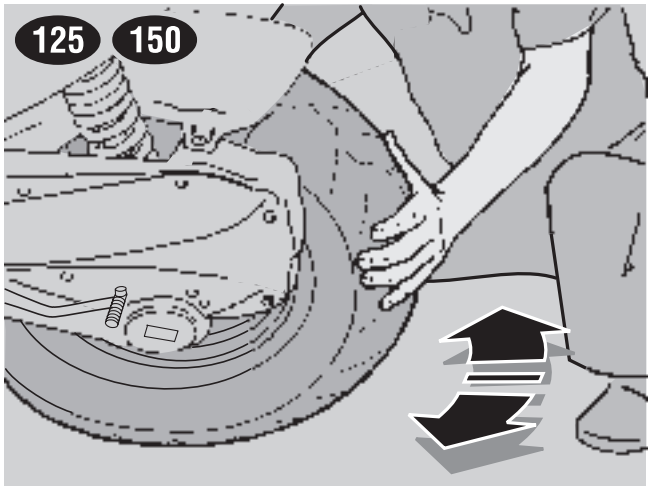
⚠ WARNING

Make sure that the vehicle is stable.

- Shake the fork in the direction of travel.

NOTE Do not shake the fork excesively, 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.



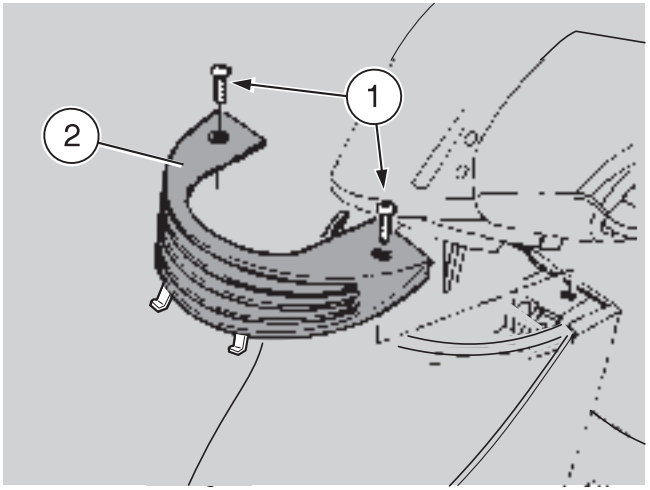
CHECKING THE ENGINE FULCRUM AXIS

Carefully read p. 43 (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.

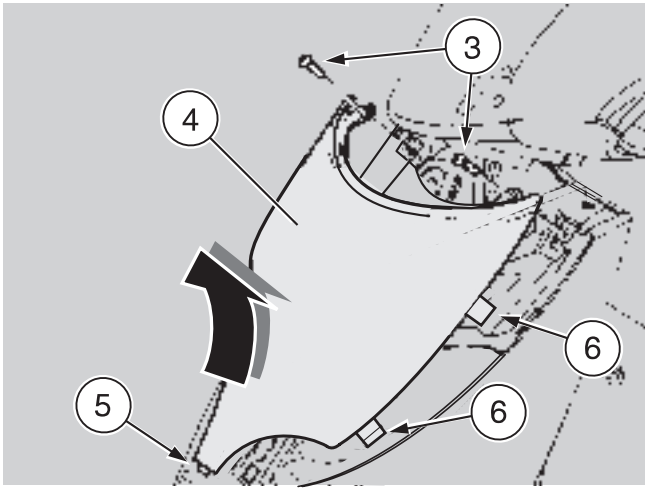


REMOVING THE COVER SUPPORT ELEMENT

Carefully read p. 43 (MAINTENANCE).

- Position the vehicle on the centre stand.
- Rotate the handlebar completely, unscrew and remove the screws (1).
- Remove the cover support element (2).

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



REMOVING THE FRONT COVER

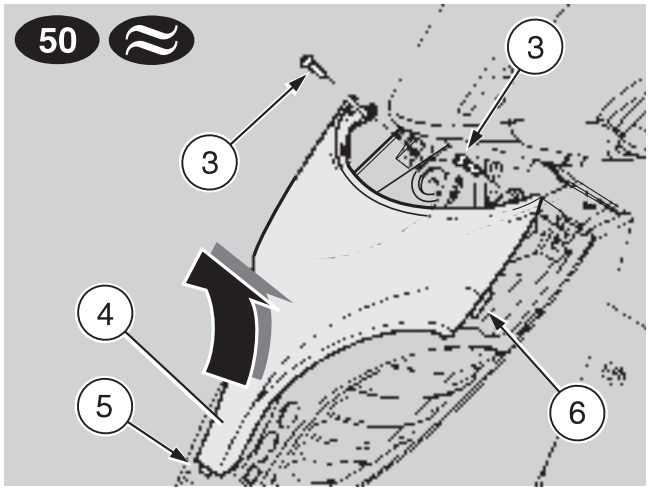
Carefully read p. 43 (MAINTENANCE).

- Remove the cover support element (2), see beside (REMOVING THE COVER SUPPORT ELEMENT).
- Rotate the handlebar completely, unscrew and remove the screws (3), taking the washers.

⚠ CAUTION

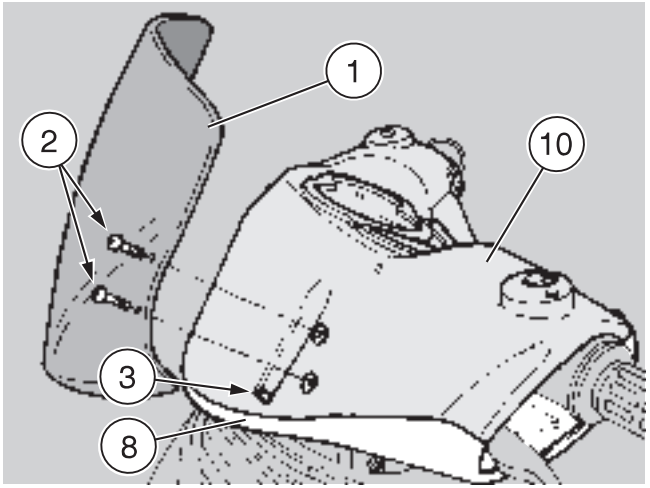
Proceed with care.
Do not damage the tangs and/or their seats.

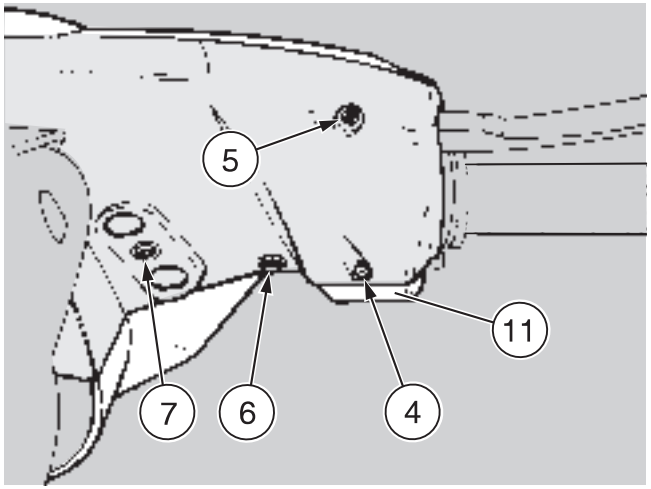
Handle the plastic and painted components with care and avoid scraping or damaging them.

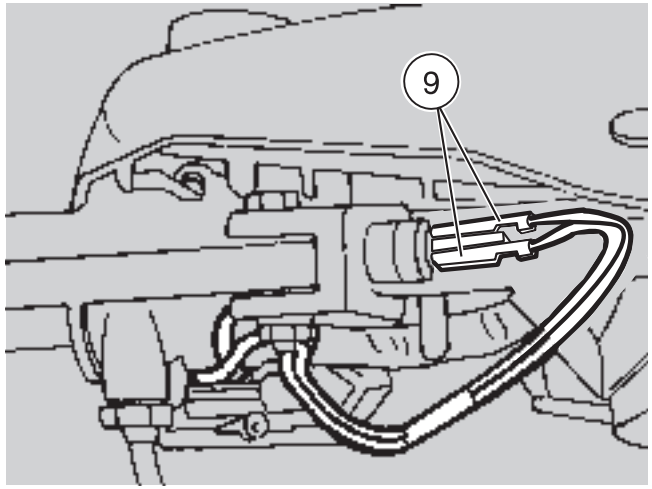


- Remove the front cover (4), by pulling it upwards.

NOTE Upon reassembly, correctly insert the lower tang (5) and successively the four side tangs (6) in their seats.







REMOVING THE LOWER HANDLEBAR COVER

Carefully read p. 43 (MAINTENANCE).

- Remove the cover support element, see p. 53 (REMOVING THE COVER SUPPORT ELEMENT).

NOTE Support the front part of the fairing (1), to prevent it from accidentally falling down.

- ★ Unscrew and remove the two screws (2).

⚠ CAUTION

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

- Remove the front part of the fairing (1).
- ★ Unscrew and remove the screw (3).
- ★ Rotate the handlebar completely rightwards, unscrew and remove the screw (4) (with shorter diameter) and the screws (5) (6) and (7).

NOTE Upon reassembly, fit the screws (4) (with shorter diameter) in the relevant seats.

- Rotate the handlebar in central position, withdraw the lower handlebar cover (8) from the front and remove it.

PARTIAL REMOVAL OF THE UPPER HANDLEBAR COVER

Carefully read p. 43 (MAINTENANCE).

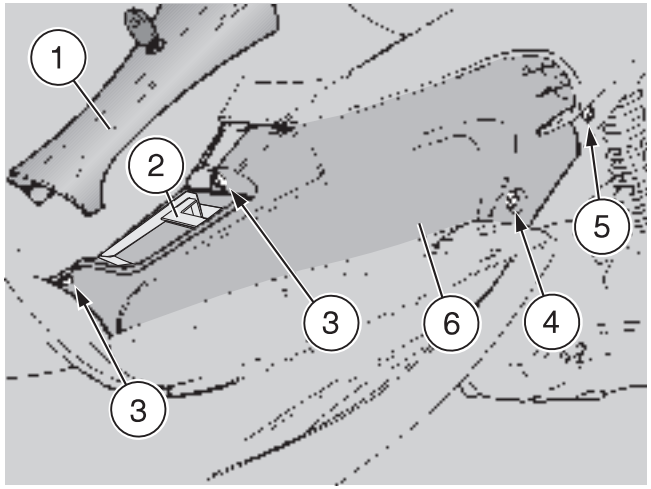
- Remove the rear-view mirrors, see p. 61 (REMOVING THE REAR-VIEW MIRRORS).
- Remove the lower handlebar cover, see beside (REMOVING THE LOWER HANDLEBAR COVER).
- ★ Disconnect the two electric terminals (9).

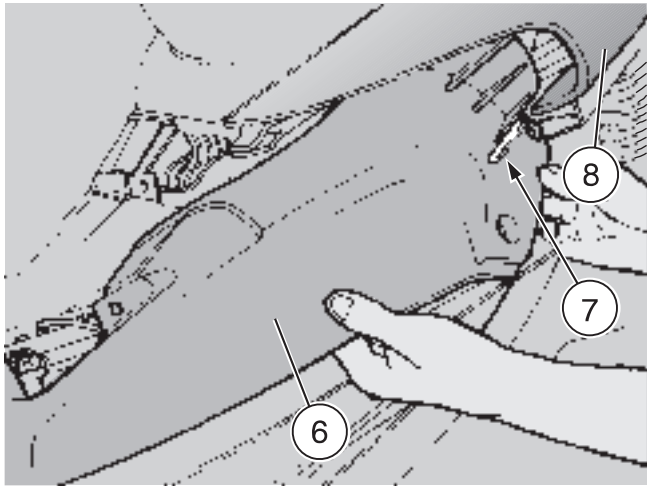
⚠ CAUTION

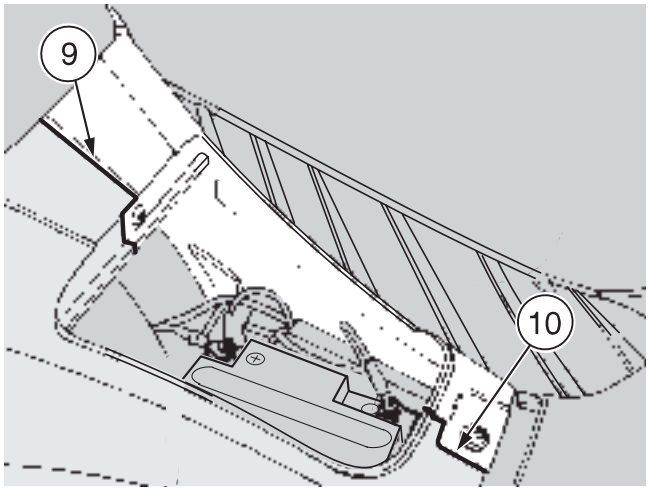
The upper handlebar cover (10) (complete with switches, instruments and indicators) remains connected with the speedometer cable and with the electric cables, which makes it impossible to remove it completely.
Proceed with care in order to avoid damaging the components.

- Paying attention to the two switch connections (11), lift the upper handlebar cover and rotate it forwards, then rest it on the front shield.

NOTE Upon reassembly, when positioning the upper handlebar cover, pass the electric terminal cables (9) behind and under the handlebar.







REMOVING THE RIGHT AND LEFT INSPECTION COVERS

Carefully read p. 43 (MAINTENANCE).

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

- Position the vehicle on the centre stand.
- Remove the battery/tool kit compartment cover (1), see p. 24 (BATTERY / TOOL KIT COMPARTMENT).
- Remove the tool kit compartment (2).
- Unscrew and remove the two screws (3).

NOTE Carry out the following operations on the side of the inspection cover to be removed.

- Unscrew and remove the screw (4) and the screw (5) of the rear part of the fairing.

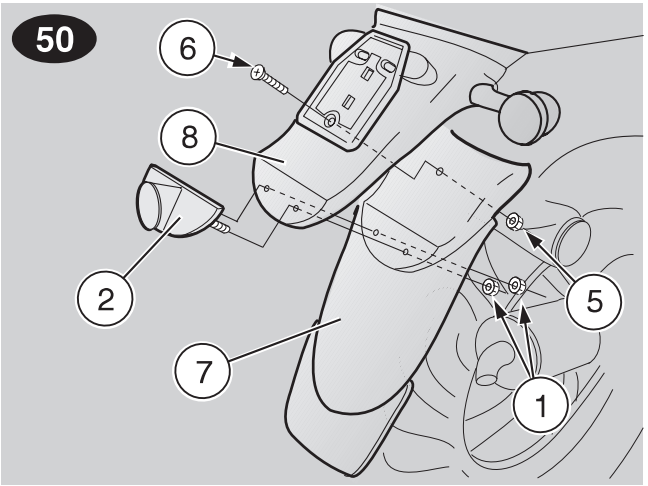
NOTE Upon reassembly, fit the screw (5) (with shorter diameter) of the rear part of the fairing in the relevant seat.

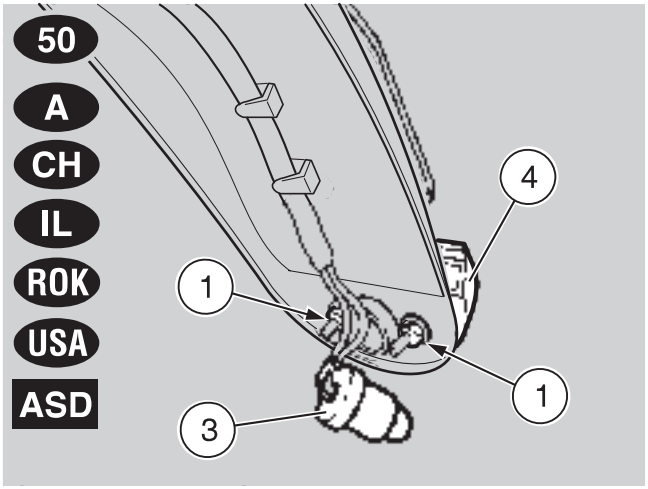
- Slightly raise the inspection cover (6), release it from the footrest and withdraw it sidewards.

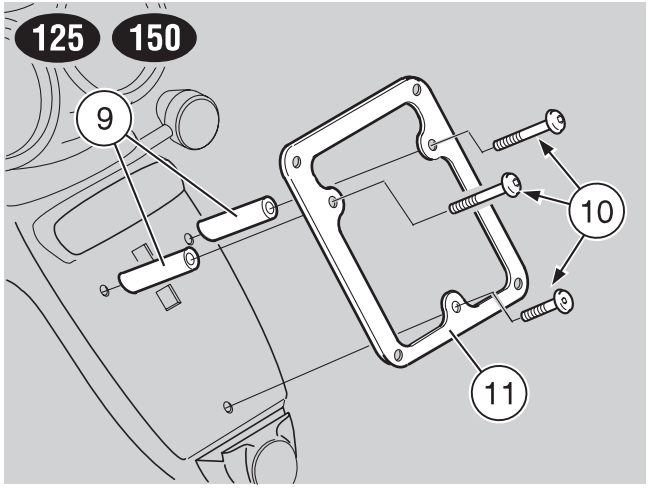
NOTE Upon reassembly, insert the rear part of the inspection cover in the rear part of the fairing, making the seat (7) coincide with the end of the rear part of the fairing (8).

NOTE In points (9) and (10) the left inspection cover must overlap the right ispection cover.

If both inspection covers have been removed, reassemble first the right and then the left cover.







50 INSTALLING THE REAR MUDGUARD EXTENSION

Carefully read p. 43 (MAINTENANCE).

- Position the vehicle on the centre stand.
- Unscrew and remove the nuts (1).
- Remove the reflector (2).

A CH IL ROK USA ASD

- Grasp the bulb socket (3), pull and take it out of its seat.
- Remove the number plate light (4).

- Unscrew and remove the nut (5).
- Withdraw the screw (6).
- Position the rear mudguard extension (7) inside the number plate holder support (8).
- Position the reflector (2) and tighten the relevant nuts (1).

A CH IL ROK USA ASD

- Position the number plate light (4) and tighten the relevant nuts.
- Insert the number plate light cable (3) in the two couplings.

- Insert the screw (6) and tighten the relevant nut (5).
- Make sure that the rear mudguard extension (7) is positioned correctly.

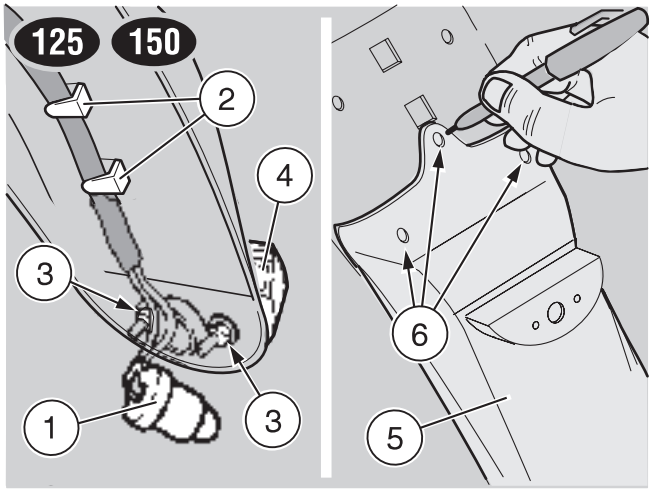
125 150 REMOVING THE NUMBER PLATE SUPPORT

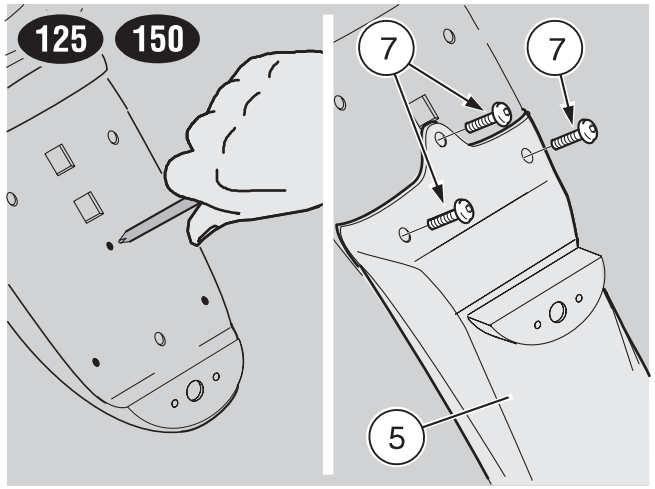
Carefully read p. 43 (MAINTENANCE).

- Position the vehicle on the centre stand.
- Unscrew and remove the number plate fastening screws.
- Remove the number plate.

NOTE Pay attention to the position of the two spacers (9), in order to be able to reinstall them correctly.

- Unscrew and remove the three screws (10), taking the nuts.
- Take the number plate support (11) and the two spacers (9).





125 150 INSTALLING THE REAR MUDGUARD EXTENSION

Carefully read p. 43 (MAINTENANCE).

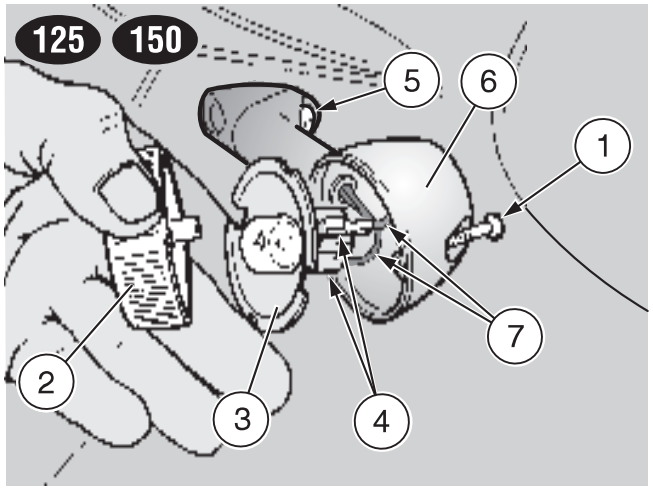
- Remove the number plate support, see p. 56 (125 150 REMOVING THE NUMBER PLATE SUPPORT).
- Grasp the bulb socket (1), pull and take it out of its seat.
- Release the number plate light cable from the two couplings (2).
- Unscrew and remove the two nuts (3).
- Remove the number plate light (4).
- Correctly position the rear mudguard extension (5) in its seat.
- Mark the three holes (6) with an indelible felt-tip pen, as indicated in the figure.
- Remove the rear mudguard extension (5).
- Using a cross-point screwdriver, press in correspondence with the marks, in order to obtain the seat.

⚠ WARNING

Proceed with care. Keep your hands away from the drilling axis.

- Drill in correspondence with the three seats (holes with diameter 5).
- Position the rear mudguard extension (5) correctly in its seat.
- Insert the three screws (7) and screw the relevant nuts, without tightening them.
- Make sure that the rear mudguard extension (5) is positioned correctly.
- Tighten the three nuts.
- Position the number plate light (4) correctly on the mudguard extension seat.

- Screw and tighten the two nuts (3).
- Position the bulb socket (1) correctly in its seat.
- Insert the number plate light cable (2) in the two couplings.
- Put back the number plate support,see p. 56 (125 150 REMOVING THE NUMBER PLATE SUPPORT).



125 150 REMOVING THE WHOLE DIRECTION INDICATOR

- Position the vehicle on the centre stand.
- Unscrew and remove the screw (1).

NOTE When removing the protection screen, proceed with care, in order not to break the cog.

- Remove the protection screen (2).

NOTE Upon reassembly, position the protection screen correctly in its seat. Tighten the screw (1) moderately and with care, in order not to damage the protection screen.

⚠ CAUTION

Handle with care.
Do not force the electric cables.

- Extract the bulb socket (3) as much as necessary to disconnect its two electric terminals (4).

NOTE Upon reassembly, make the bulb socket opening coincide with the seat of the screw (1).

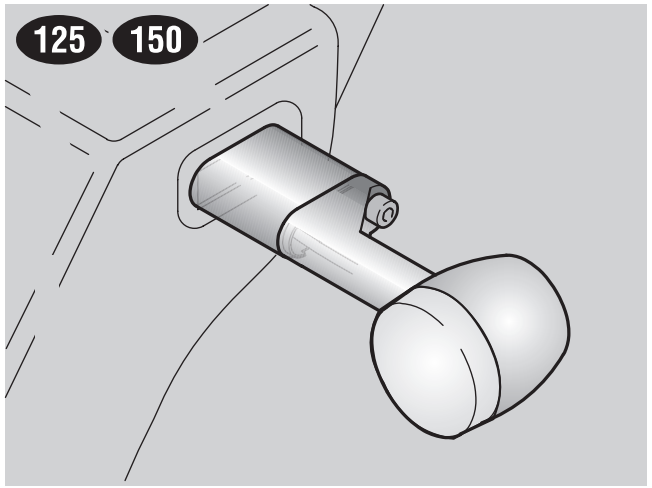
- Unscrew the screw (5) and take the relevant nut.

⚠ CAUTION

Handle with care.
Do not force the electric cables.

NOTE To remove the indicator support (6), withdraw the cables one by one.

- Remove the indicator support (6) and withdraw it from the cables (7).

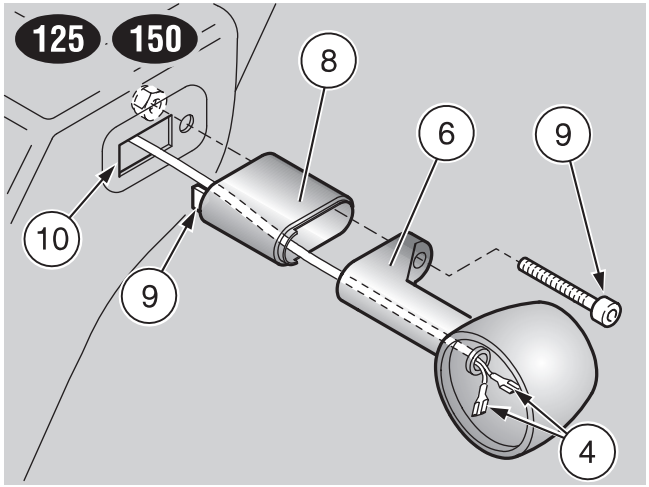


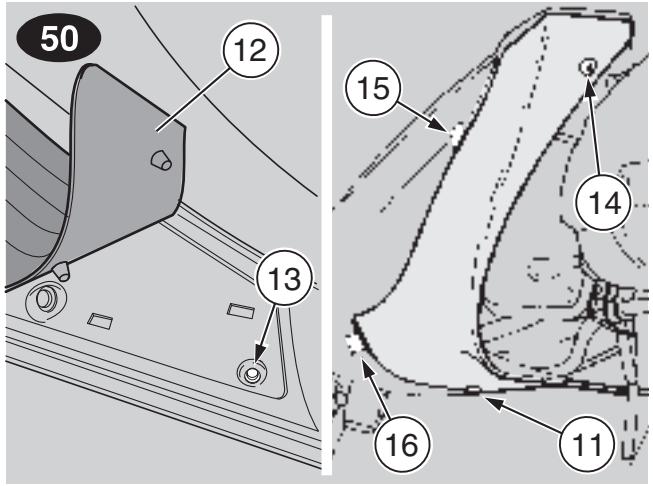
125 150 INSTALLING THE DIRECTION INDICATOR EXTENSIONS

The following information refers to one extension only, but is valid for both.
Repeat the operations on the opposite side of the vehicle.

⚠ CAUTION

The direction indicators must be clearly visible in order to ensure safety.
Install both direction indicator extensions.





◆ Remove the direction indicators, see p. 58 (125 150 REMOVING THE WHOLE DIRECTION INDICATOR).

NOTE The direction indicator extension (8) can be installed in one direction only. The tang (9) must fit in the seat (10).

◆ Insert the electric terminals (4) in the direction indicator extension (8).
◆ Insert the electric terminals (4) in the direction indicator support (6).
◆ Connect the extension (8) to the direction indicator (6) correctly.
◆ Put back the direction indicator, replacing the screw (5) with the screw (9) supplied with this equipment, see p. 58 (125 150 REMOVING THE WHOLE DIRECTION INDICATOR).

50 REMOVING THE LOWER SHIELD COVER

Carefully read p. 43 (MAINTENANCE).

◆ Position the vehicle on the centre stand.

⚠ WARNING

Before performing the operations described below, let the engine and the exhaust silencer cool down until they have reached room temperature, in order to avoid burns.

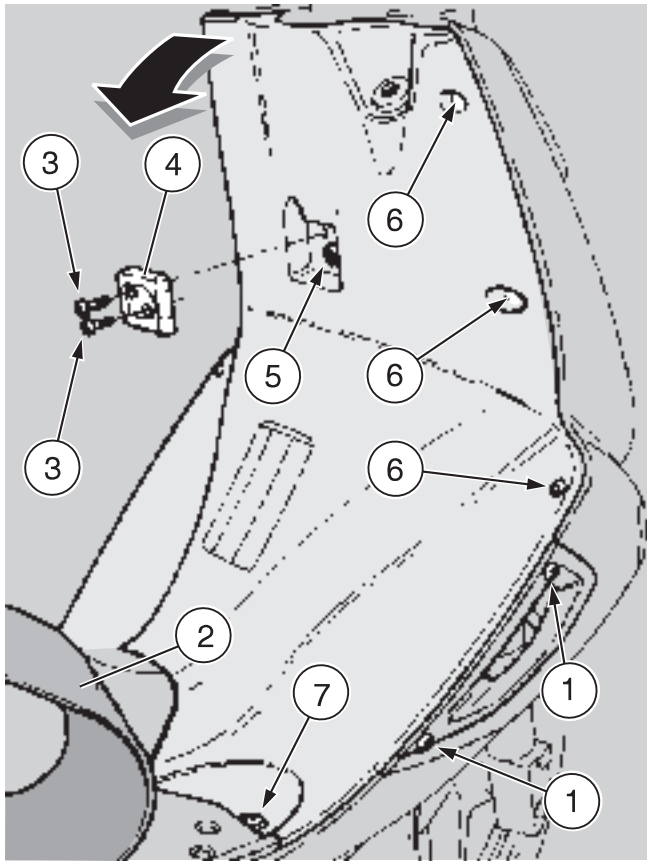
◆ Unscrew and remove the screw (11).
◆ ★ Raise the rear part of the footboard mat (12).
◆ ★ Unscrew and remove the upper screw (13).
◆ ★ Unscrew and remove the rear screw (14).
◆ ★ Withdraw the side tang (15).
◆ Withdraw the two front tangs (16) and remove the lower shield cover.

REMOVING THE FRONT INNER SHIELD

Carefully read p. 43 (MAINTENANCE).

NOTE Remove the key from the ignition switch.

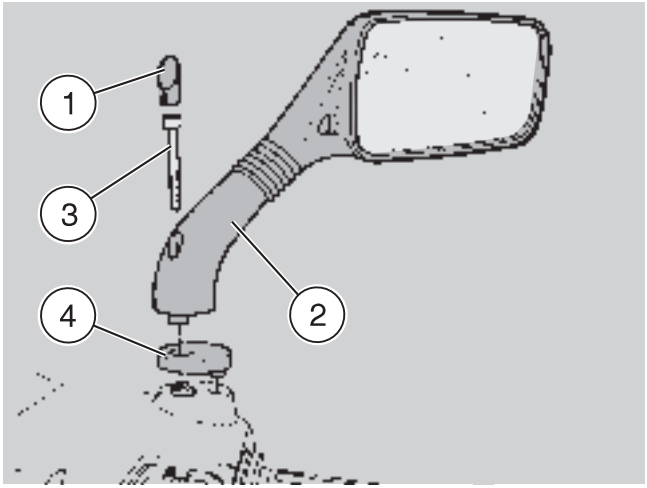
- Position the vehicle on the centre stand.
- ★ Unscrew and remove the two screws (1).
- ★ Remove the footrest mat (2).
- Unscrew and remove the two fastening screws (3) of the bag hook.
- Remove the bag hook (4).
- Unscrew and remove the screw (5) with the relevant washer.
- ★ Unscrew and remove the three screws (6).
- ★ Unscrew and remove the screw (7).



⚠ CAUTION

Proceed with care.
Do not damage the tangs and/or their seats.
Handle the painted components with care and avoid scraping or damaging them.

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



REMOVING THE REAR-VIEW MIRRORS

Carefully read p. 43 (MAINTENANCE).

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

◆ Position the vehicle on the centre stand.

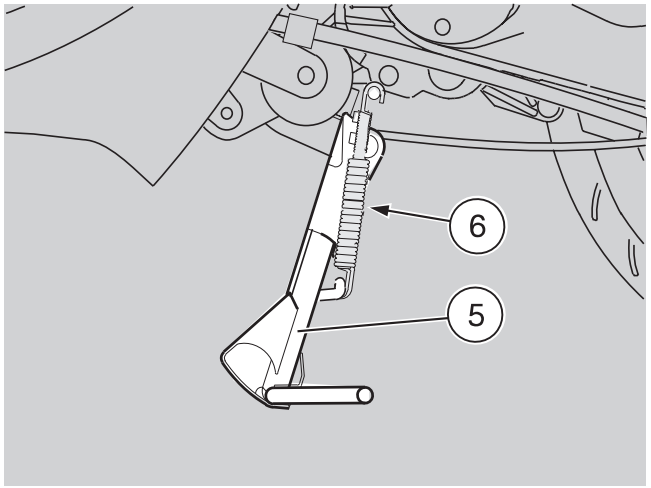
NOTE Group the components of the left and right rear-view mirrors separately.

◆ Remove the cover (1).

⚠ CAUTION

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

◆ Unscrew the screw (3).
◆ Remove the rear-view mirror (2).
◆ Remove the gasket (4).



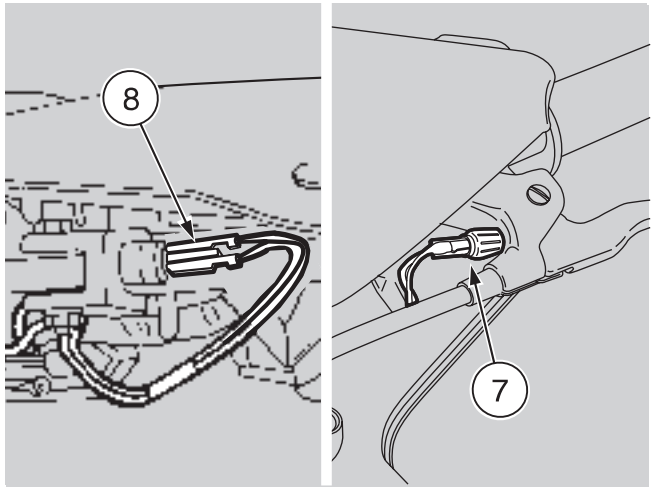
CHECKING THE STAND

Carefully read p. 43 (MAINTENANCE).

The stand (5) must rotate without hindrances.

Carry out the following checks:

◆ The springs (6) must not be damaged, worn, rusty or weakened.
◆ The stand must rotate freely, if necessary grease the joint, see p. 84 (50 LUBRICANT CHART) or p. 85 (125 150 LUBRICANT CHART).



CHECKING THE SWITCHES

Carefully read p. 43 (MAINTENANCE).

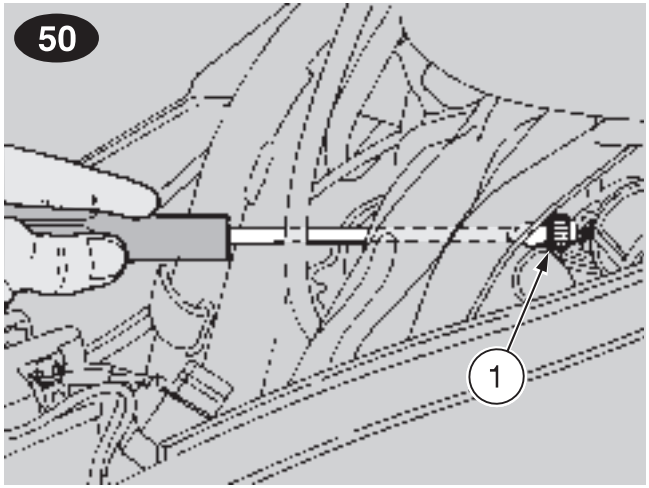
The vehicle is provided with two switches:
– stoplight switch on the rear brake control lever (7);
– stoplight switch on the front brake control lever (8).

To reach the switches, proceed as follows:

◆ Remove the lower handlebar cover, see p. 54 (REMOVING THE LOWER HANDLEBAR COVER).

Periodically carry out the following checks:

◆ Make sure that there are no dirt or mud deposits on the switch; the pin must be able to move without interferences, returning automatically to its initial position.
◆ Make sure that the cables are connected correctly.



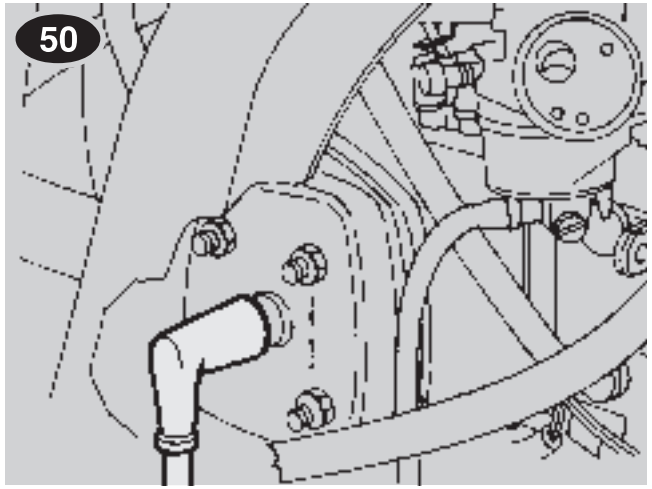
50 IDLING ADJUSTMENT

Carefully read p. 43 (MAINTENANCE).

Adjust the idling after the first 500 km (312 mi) and every time it is irregular.

To carry out this operation, proceed as follows:

- Drive for a few miles until the engine reaches the normal running temperature, then stop the engine.
- Position the vehicle on the centre stand.
- Remove the left inspection cover, see p. 55 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).
- Connect an electronic revolution counter to the spark plug cable.



⚠ WARNING

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

- Start the engine.

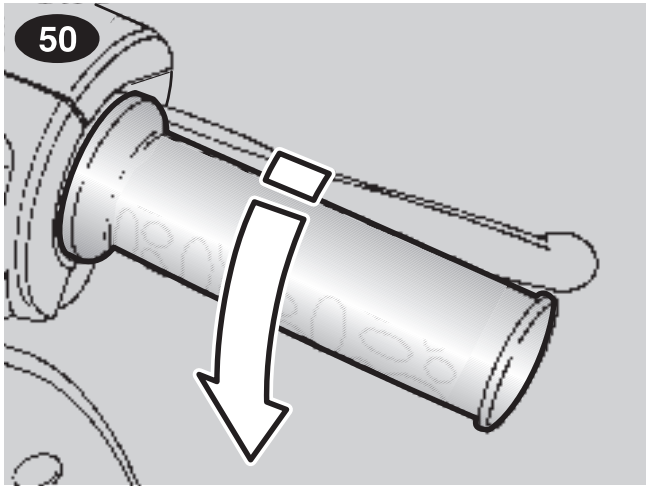
The minimum speed of the engine (idling) must be about 1800 ± 100 rpm; in this case the engine does not make the rear wheel rotate.

If necessary:

- Act on the adjusting screw (1) positioned on the carburettor.

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

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

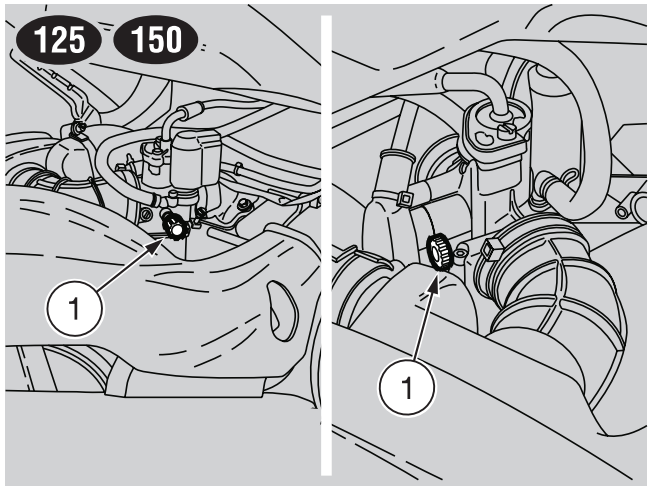


- Twist the throttle grip, accelerating and decelerating a few times to make sure that it functions correctly and to check if the idling speed is constant.

⚠ CAUTION

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

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



125 150 IDLING ADJUSTMENT

Carefully read p. 43 (MAINTENANCE).

Adjust the idling after the first 1000 km (625 mi) and every time it is irregular.
To carry out this operation, proceed as follows:

- Drive for a few miles until the engine reaches the normal running temperature, then stop the engine.
- Remove the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).
- Remove the tool kit compartment.
- Connect an electronic revolution counter to the spark plug cable.

⚠ WARNING

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

- Start the engine.

The minimum speed of the engine (idling) must be about 1500 ± 100 rpm; in this case the engine does not make the rear wheel rotate.

If necessary:

NOTE The vehicle can be equipped with two different carburettor models. For the positioning of the adjuster, see the figure.

- Act on the adjusting screw (1) positioned on the carburettor.

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

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

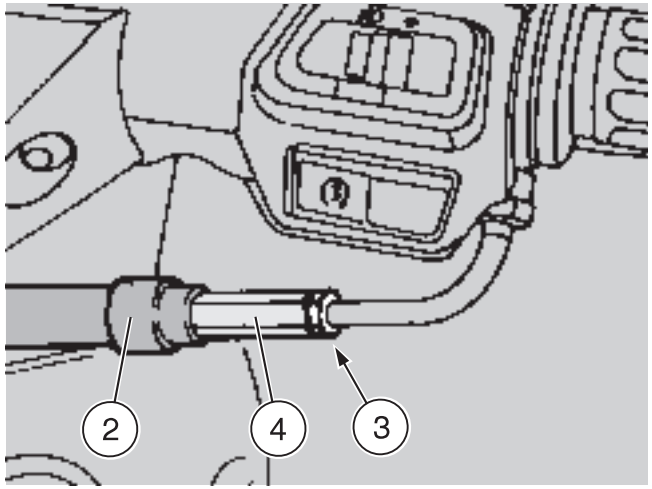
- Twist the throttle grip, accelerating and decelerating a few times to make sure that it functions correctly and to check if the idling speed is constant.

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

ADJUSTING THE ACCELERATOR CONTROL

Carefully read p. 43 (MAINTENANCE).

The ideal slack of the accelerator control should be about 2-3 mm.



To adjust the slack, proceed as follows:

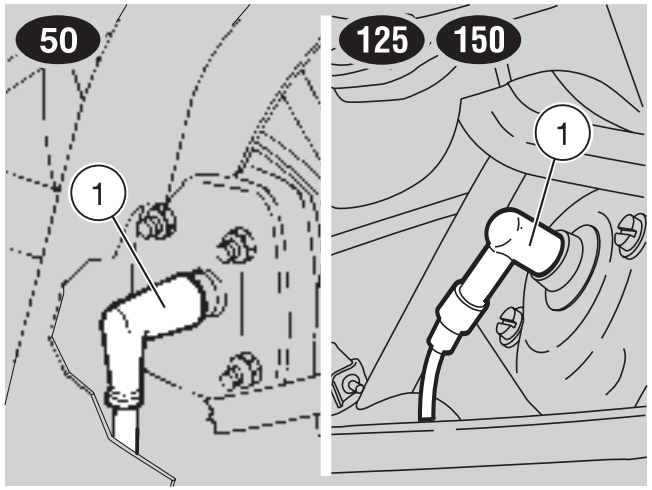
- Position the vehicle on the centre stand.
- Remove the protection element (2).
- Loosen the nut (3).
- Act on the adjuster (4), positioned at the beginning of the accelerator control cable.

After the adjustment:

- Tighten the nut (3), thus locking the adjuster (4) and put back the protection element (2).

⚠ 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. 43 (MAINTENANCE).

50

Check the spark plug after the first 500 km (312 mi). Change it every 4000 km (2500 mi).

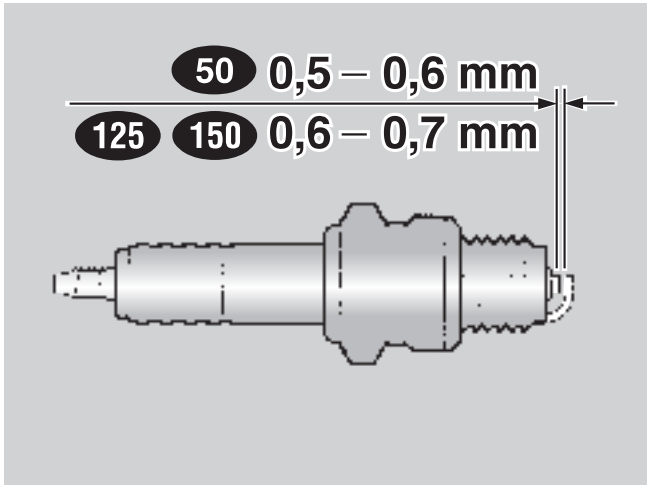
125 150

Check the spark plug after the first 1000 km (625 mi), and successively every 4000 km (2500 mi). Change it every 8000 km (5000 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, see p. 55 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).



To remove and clean the spark plug:

- 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.
- 50 Check the spark plug gap with a thickness gauge.
  The gap must be **0.5 – 0.6** mm; if necessary adjust it, carefully bending the earth electrode.
- 125 150 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:
20 Nm (2 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. 79 (TECHNICAL DATA), in order not to compromise the life and performance of the engine.

- Position the spark plug cap (1).
- Put back the inspection cover.

BATTERY

Carefully read p. 43 (MAINTENANCE).

⚠ 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.

ONLY FOR MAINTENANCE-FREE BATTERIES

If this vehicle is equipped with a "MAINTENANCE-FREE" battery, it does not require any maintenance operation, exception made for periodical checks and recharging, when necessary.

In case of installation of a "MAINTENANCE-FREE" battery, to recharge it use a specific recharger (type with constant voltage/amperage or constant voltage).
The use of a traditional battery recharger may damage the battery.

LONG INACTIVITY OF THE BATTERY

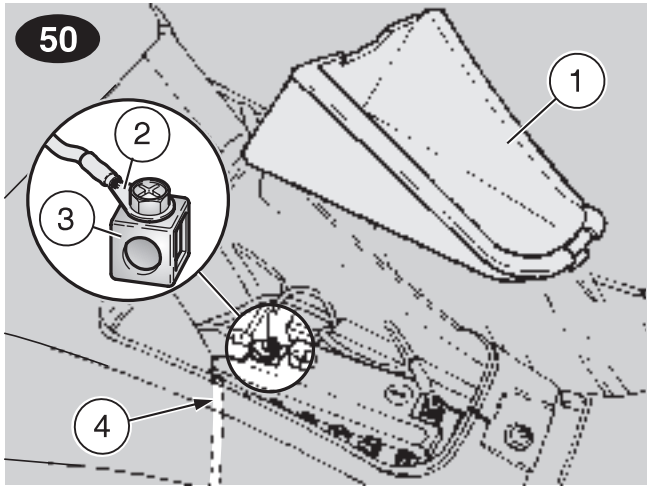
If the vehicle remains unused for more than fifteen days, it is necessary to recharge the battery, in order to prevent its sulphation, see p. 68 (50 RECHARGING THE BATTERY), (125 150 RECHARGING THE BATTERY).

- Remove the battery, see p. 66 (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. 68 (50 RECHARGING THE BATTERY), (125 150 RECHARGING THE BATTERY).

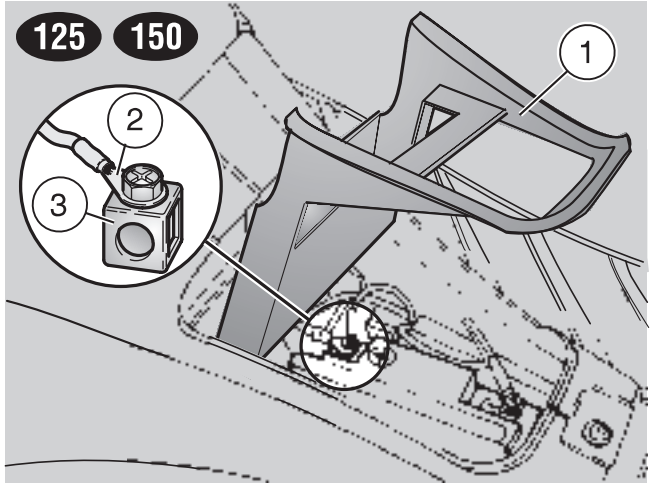
If the battery remains on the vehicle, disconnect the cables from the terminals.



CHECKING AND CLEANING THE TERMINALS

Carefully read p. 65 (BATTERY).

- Remove the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).
- Remove the tool kit compartment (1).
- Make sure that the cable terminals (2) and the battery terminals (3) are:
  - in good conditions (and not corroded or covered with deposits);
  - covered with special grease or Vaseline.



If necessary:

- Make sure that the ignition switch is in position "⊠".
- Disconnect first the negative (**–**) and then the positive cable (red) (**+**).
- Brush with a wire brush to eliminate any sign of corrosion.
- Reconnect first the positive (red) (**+**) and then the negative cable (**–**).
- Cover the terminals with special grease or Vaseline.

After these operations:

- Put back the tool kit compartment (1).
- Put back the battery / tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).

REMOVING THE BATTERY

Carefully read p. 65 (BATTERY).

- Remove the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).
- Remove the tool kit compartment (1).
- Make sure that the ignition switch is in position "⊠".
- Disconnect first the negative (**–**) and then the positive cable (red) (**+**).
- 50 Remove the battery breather pipe (4) (only for batteries that need maintenance).
- 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 tool kit compartment (1).
- Put back the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).

INSTALLING THE BATTERY

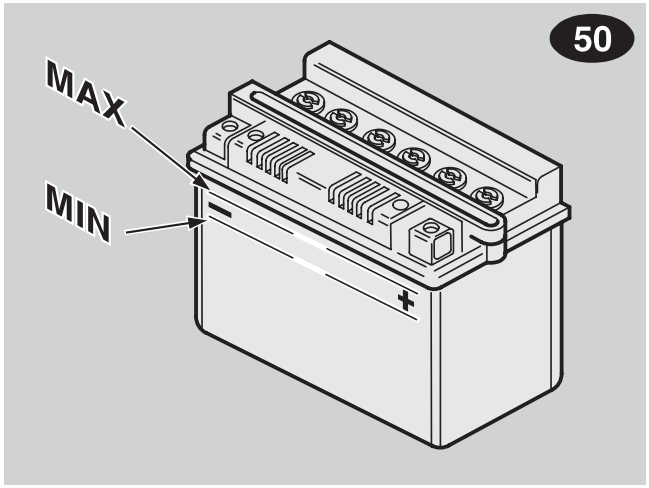
Carefully read p. 65 (BATTERY).

- Remove the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).
- Remove the tool kit compartment.
- Put the battery in its container.
- (50) Connect the breather pipe (only for batteries that need maintenance).

⚠ CAUTION

(50) 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 (red) (**+**) and negative (**–**) cable.
- Cover the terminals with special grease or Vaseline.
- Put back the tool kit compartment.
- Put back the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).



(50) CHECKING THE ELECTROLYTE LEVEL (ONLY FOR BATTERIES THAT NEED MAINTENANCE)

NOTE The following text is valid ONLY if the installed battery needs maintenance.

Carefully read p. 65 (BATTERY).

- Remove the battery from its compartment, see p. 66 (REMOVING THE BATTERY).
- Make sure that the fluid level is included between the two "**MIN**" and "**MAX**" notches stamped on the battery side.

Otherwise:

- Unscrew and remove the element plugs.

⚠ CAUTION

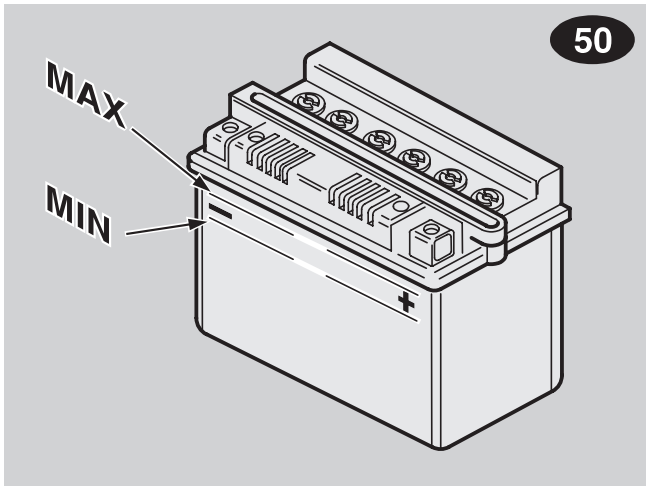
Top up with distilled water only. Do not exceed the "MAX" mark, since the electrolyte level increases during the recharge.

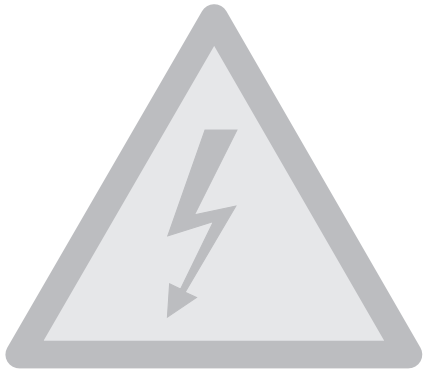
- Top up by adding distilled water.

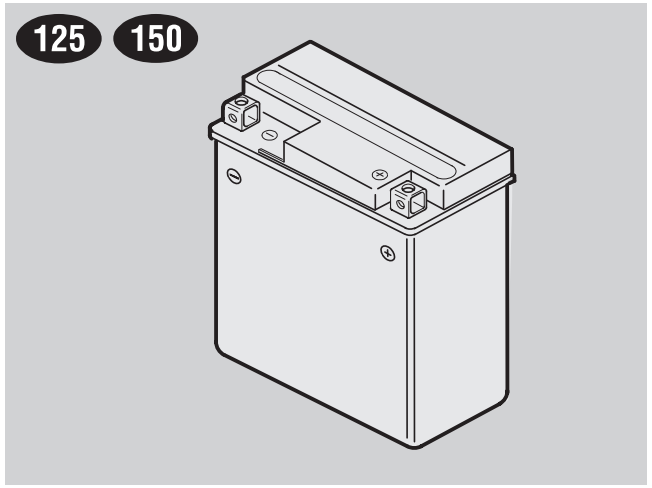
⚠ CAUTION

After topping up, put back the element plugs in the correct position.

- Put back the element plugs.







50 RECHARGING THE BATTERY

(ONLY FOR BATTERIES THAT NEED MAINTENANCE)

Carefully read p. 65 (BATTERY).

- Remove the battery from its compartment, see p. 66 (REMOVING THE BATTERY).
- Unscrew and remove the element plugs.
- Check the electrolyte level, see p. 67 (50 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.
- Replace 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.

125 150 RECHARGING THE BATTERY

(ONLY FOR "MAINTENANCE-FREE" BATTERIES)

Carefully read p. 65 (BATTERY).

NOTE Do not remove the battery plugs: without plugs the battery may be damaged.

- Remove the battery, see p. 66 (REMOVING THE BATTERY).

⚠ WARNING

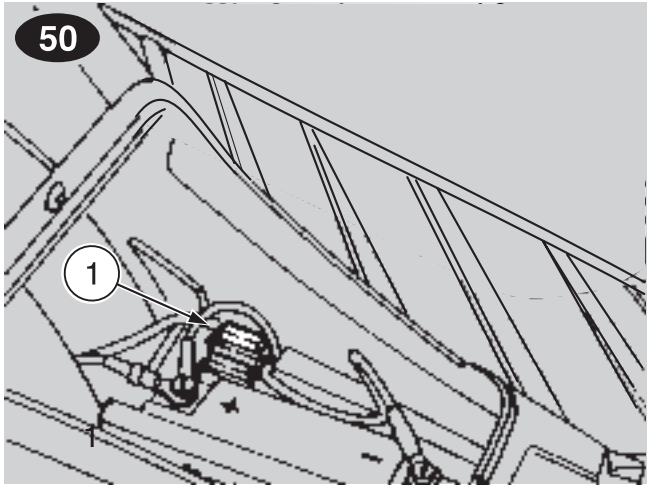
During the recharging or the use, make sure that the room is properly ventilated and avoid inhaling the gases released during the recharging.

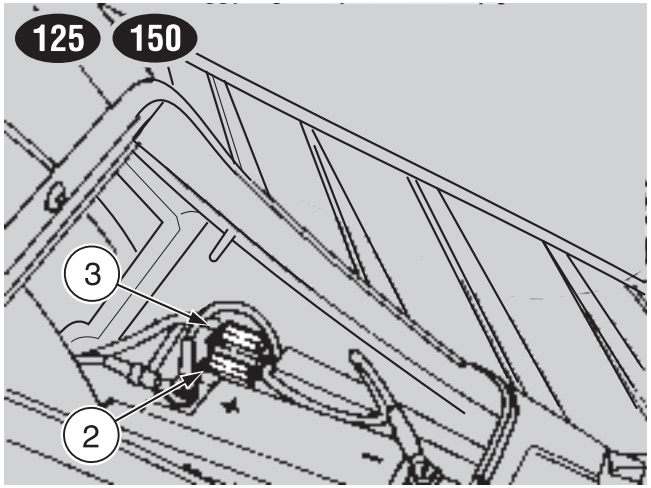
- Connect the battery with a battery charger.

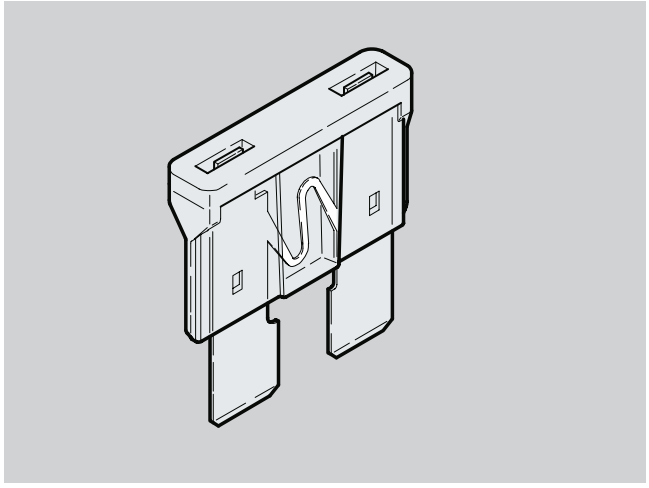
Recharge	Voltage (amp)	Time (hours)
Normal	1.2	8 - 10
Quick	12	0.5

⚠ WARNING

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







CHANGING THE FUSES

Carefully read p. 43 (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.

To carry out the checking:

- Turn the ignition switch to position "⊠", to avoid any accidental short circuit.
- Remove the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).
- Remove the tool kit compartment.
- Extract the fuses one by one and check if the filament 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 tool kit compartment.
- Put back the battery/tool kit compartment cover, see p. 24 (BATTERY / TOOL KIT COMPARTMENT).

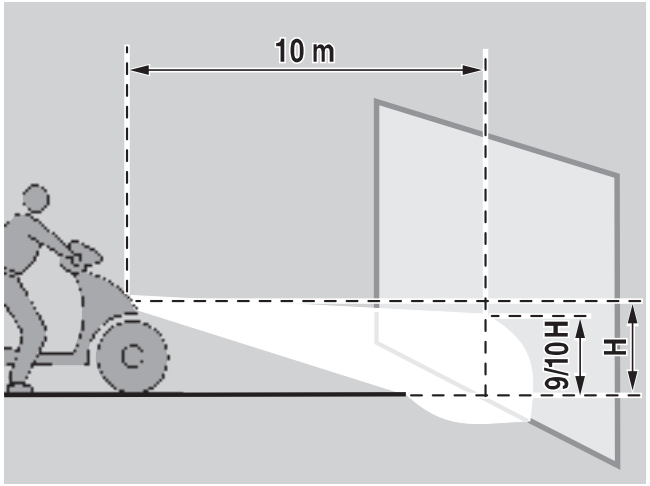
50 ARRANGEMENT OF THE FUSE

7.5 A fuse from the battery to:
all the electric loads, excluding the light circuit, which is fed with alternate current.

125 150 ARRANGEMENT OF THE FUSES

5 A fuse (1) - From key switch to:
– carburettor heater;
– automatic starter.

15A fuse (2) - From battery to:
– ignition switch / steering lock;
– voltage regulator;54
– start relay and relevant circuit;
– fuel level sensor and relevant circuit;
– direction indicators and relevant circuit;
– stop light and relevant circuit;
– 2 stroke oil reserve sensor and relevant circuit;
– horn.



ADJUSTING THE VERTICAL HEADLIGHT BEAM

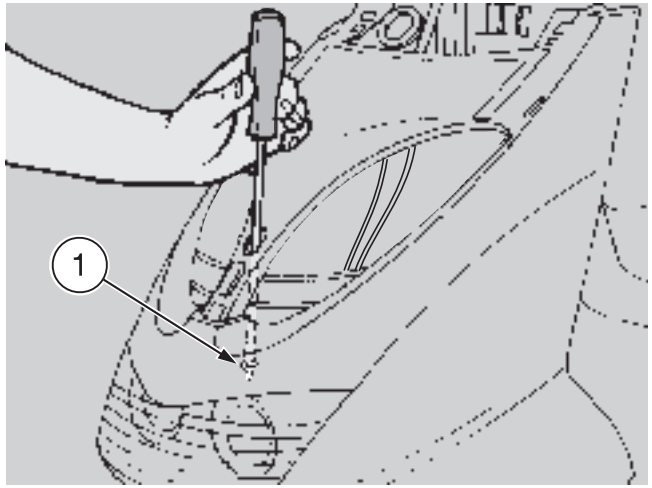
To rapidly check the correct direction of the beam, place the vehicle on flat ground, 10 m away from a wall.

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:

NOTE 50 For the versions CH IL ROK USA ASD it is not necessary to remove the front cover.

- Remove the front cover, see p. 53 (REMOVING THE FRONT COVER).



- Act on the suitable screw (1) by means of a screwdriver.
- 50 CH IL ROK USA ASD Act on the suitable screw (2) by means of a screwdriver.

  By TURNING IT CLOCKWISE, you set the beam upwards.

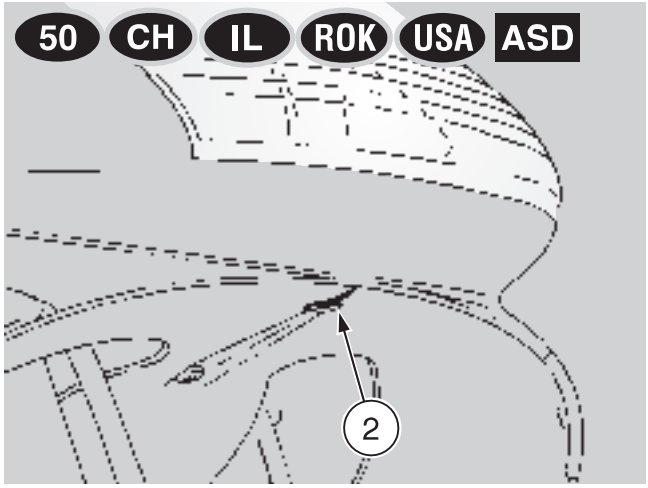
  By TURNING IT ANTICLOCKWISE, you set the beam downwards.

BULBS

Carefully read p. 43 (MAINTENANCE).

⚠ WARNING

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



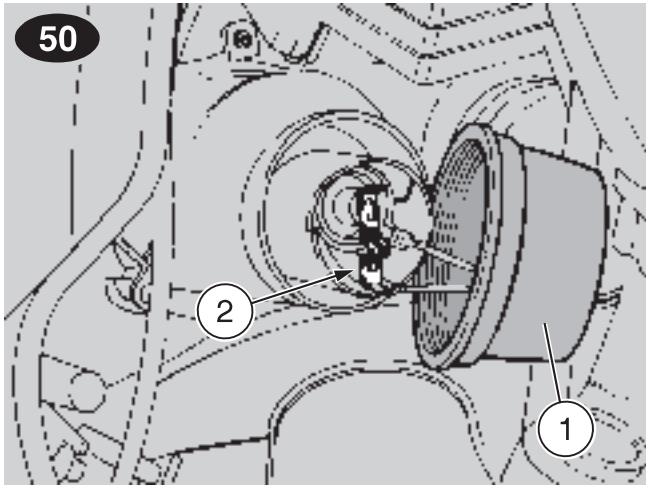
⚠ CAUTION

Before changing a bulb, position the vehicle on the centre stand, 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.



50 CHANGING THE HEADLIGHT BULBS

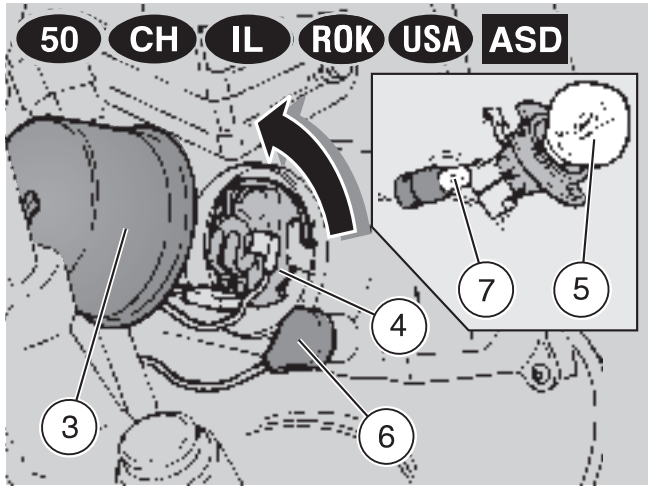
Carefully read p. 70 (BULBS).

The headlight contains:

– two low beam bulbs.

To change the bulbs, proceed as follows:

- Remove the front inner shield, see p. 60 (REMOVING THE FRONT INNER SHIELD).
- Move the protection element (1) with your hands.
- Rotate the check tang (2) positioned behind the bulb socket anticlockwise.
- Extract the bulb and replace it with a new one of the same type.



50 CHANGING THE HEADLIGHT BULBS CH IL ROK USA ASD

Carefully read p. 70 (BULBS).

The headlight contains:

– one parking light bulb (7);

– one low/high beam bulb (5).

LOW / HIGH BEAM BULB

To change the bulb, proceed as follows:

- Remove the front inner shield, see p. 60 (REMOVING THE FRONT INNER SHIELD).
- Move the protection element (3) with your hands.
- Rotate the bulb socket (4) anticlockwise and extract it.
- Press the bulb (5) slightly and rotate it anticlockwise.
- Extract the bulb (5) from its seat.
- Correctly install a new bulb of the same type.

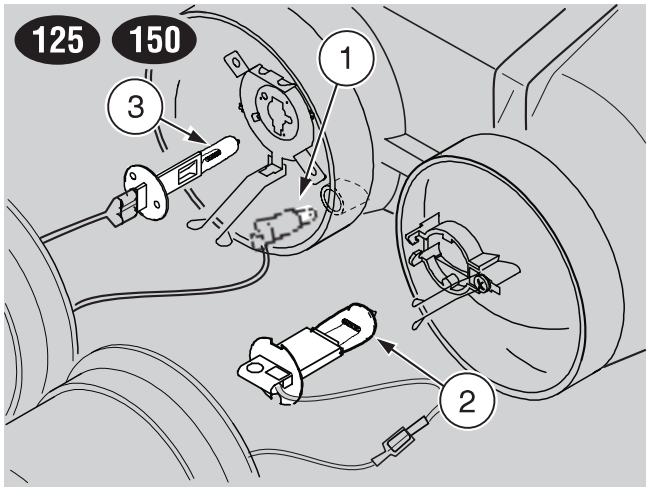
PARKING LIGHT BULB

To change the bulbs, proceed as follows:

⚠ CAUTION

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

- Grasp the parking light bulb socket (6), pull it and remove it from its seat.
- Withdraw the parking light bulb (7) and replace it with a new one of the same type.



125 150 CHANGING THE HEADLIGHT BULBS

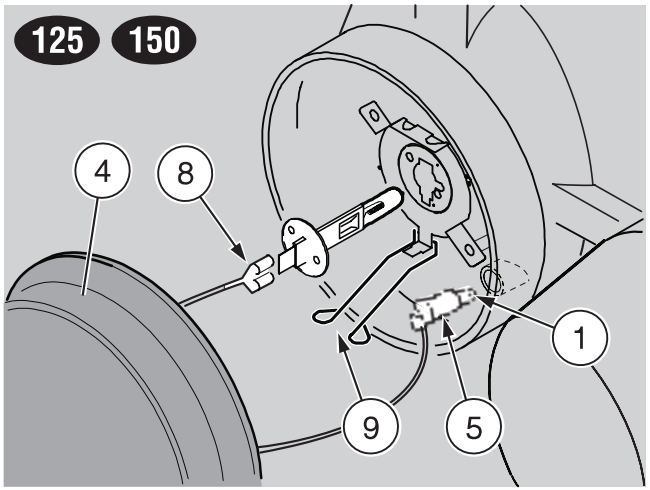
Carefully read p. 70 (BULBS).

The headlight contains:

– one parking light bulb (1);
– one low beam bulb (2);
– one high beam bulb (3).

To change the bulbs, proceed as follows:

◆ Remove the front inner shield, see p. 60 (REMOVING THE FRONT INNER SHIELD).



PARKING LIGHT BULB

⚠ CAUTION

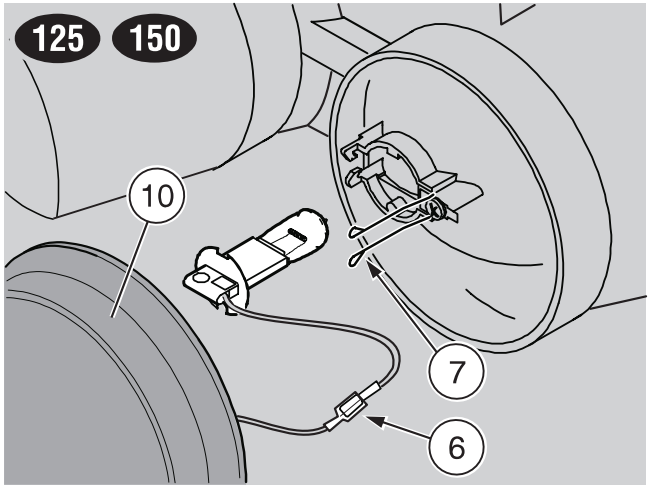
Do not pull the electric cables to extract the bulb socket.

◆ Manually move the protection element (4).
◆ Grasp the parking light bulb socket (5), pull it and remove it from its seat.
◆ Withdraw the parking light bulb (1) and replace it with a new one of the same type.

LOW BEAM BULB

◆ Manually move the protection element (10).
◆ Withdraw the electric terminal (6).
◆ Release the check spring (7) positioned at the rear of the bulb socket.
◆ Extract the bulb from its seat.

NOTE Insert the bulb in the bulb socket, making the relevant positioning seats coincide.



⚠ CAUTION

Do not press the bulb cable with the check spring (7).

◆ Correctly install a new bulb of the same type.

HIGH BEAM BULBS

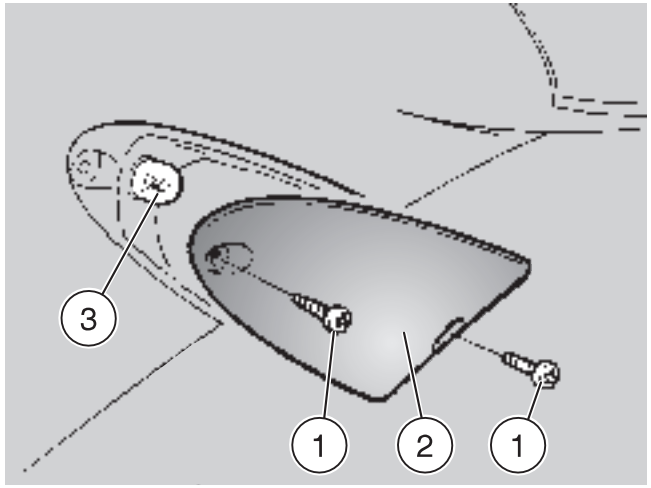
◆ Manually move the protection element (4).
◆ Withdraw the electric terminal (8).
◆ Release the check spring (9) positioned at the rear of the bulb socket.
◆ Extract the bulb from its seat.

NOTE Insert the bulb in the bulb socket, making the relevant positioning seats coincide.

⚠ CAUTION

Do not press the bulb cable with the check spring (9).

◆ Correctly install a new bulb of the same type.



CHANGING THE FRONT DIRECTION INDICATOR BULBS

Carefully read p. 70 (BULBS).

◆ Position the vehicle on the stand.

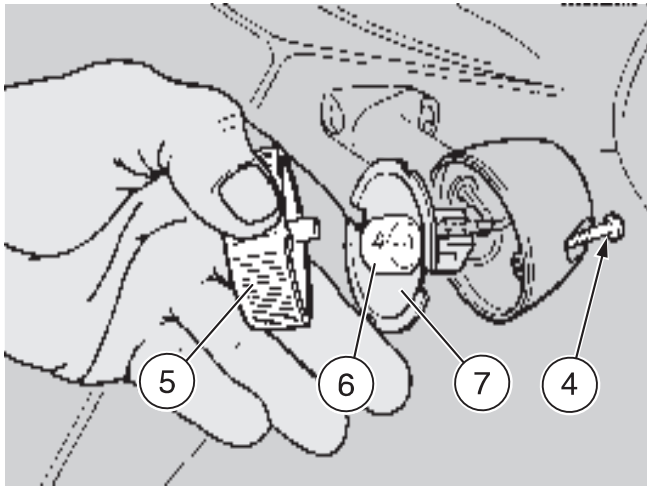
NOTE Before changing a bulb, check the fuses, see p. 69 (CHANGING THE FUSES).

To change the bulbs:

◆ Unscrew and remove the screw (1).
◆ Remove the protection screen (2).

NOTE Upon reassembly, tighten the two screws (1) carefully, in order not to damage the protection screen.

◆ Press the bulb (3) 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.

CHANGING THE REAR DIRECTION INDICATOR BULBS

Carefully read p. 70 (BULBS).

◆ Position the vehicle on the stand.

NOTE Before changing a bulb, check the fuse, see p. 69 (CHANGING THE FUSES).

◆ Unscrew and remove the screw (4).

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

◆ Remove the protection screen (5).

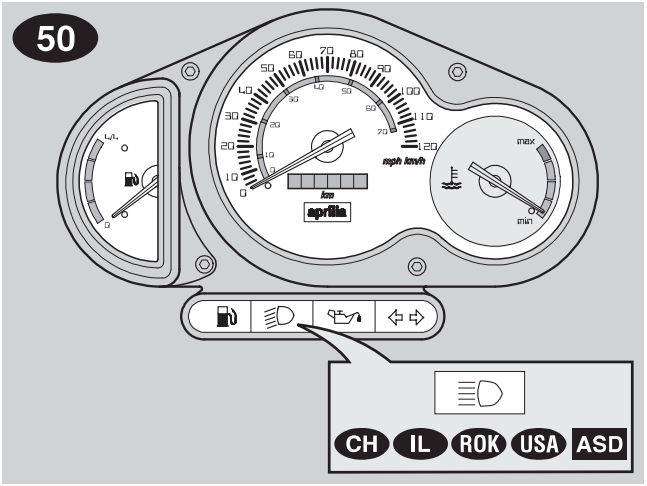
NOTE Upon reassembly, correctly position the protection screen in its seat.
Tighten the screw (4) moderately and carefully, to avoid damaging the protection screen.

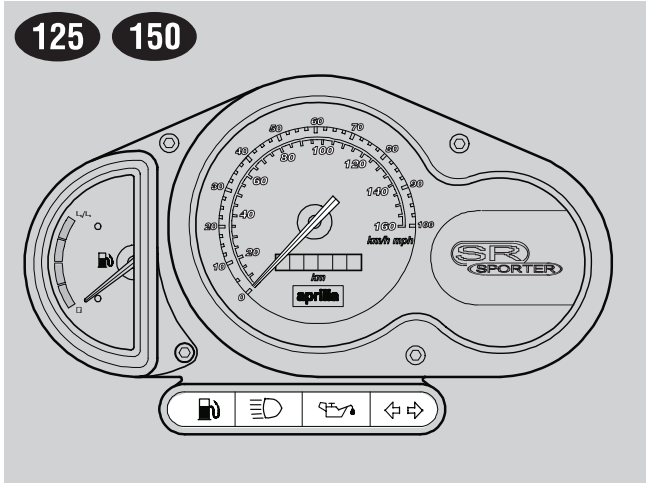
◆ Press the bulb (6) slightly and rotate it anticlockwise.
◆ Extract the bulb (6) from its seat.

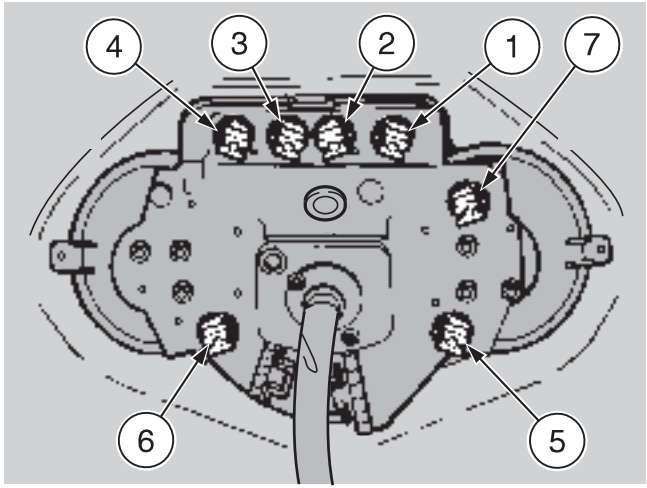
NOTE Insert the bulb in the bulb socket, making the two bulb pins coincide with the relevant guides on the socket.

◆ Correctly install a new bulb of the same type.

NOTE If the bulb socket (7) goes out of its seat, insert it correctly, making the bulb socket opening coincide with the screw seat.







CHANGING THE DASHBOARD BULBS

Carefully read p. 70 (BULBS).

NOTE Before changing a bulb, check the fuses, see p. 69 (CHANGING THE FUSES).

The dashboard contains:
– the warning light bulbs;
– the dashboard lighting bulbs.

To change the bulbs:

◆ Partially remove the upper handlebar cover, see p. 54 (PARTIAL REMOVAL OF THE UPPER HANDLEBAR COVER).

WARNING LIGHT BULBS

NOTE Extract the bulb sockets one by one, in such a way as to avoid positioning them incorrectly during the reassembly.

◆ Extract the relative bulb socket:

Pos.	Warning light	Colour
1	Direction indicators (⇦ ⇨)	green
2	2 stroke oil reserve (🛢)	red
3	50 Low beam (≡D)	green
3	50 High beam (≡D) CH IL ROK USA ASD	blue
3	125 150 High beam (≡D)	blue
4	Low fuel (⛽)	amber

◆ Extract the bulb and replace it with one of the same type.

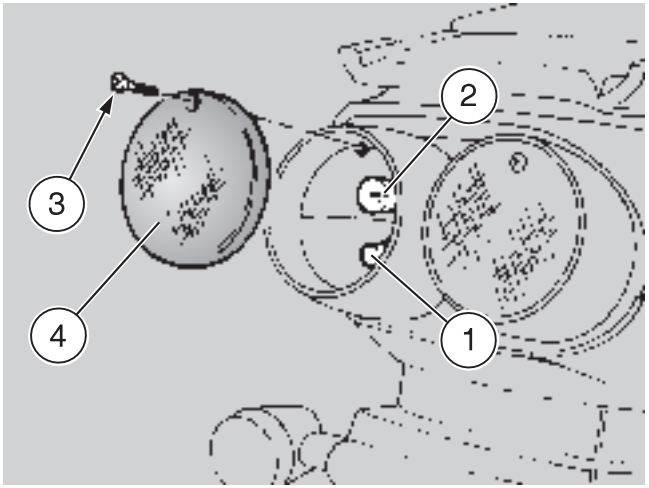
DASHBOARD LIGHTING BULBS

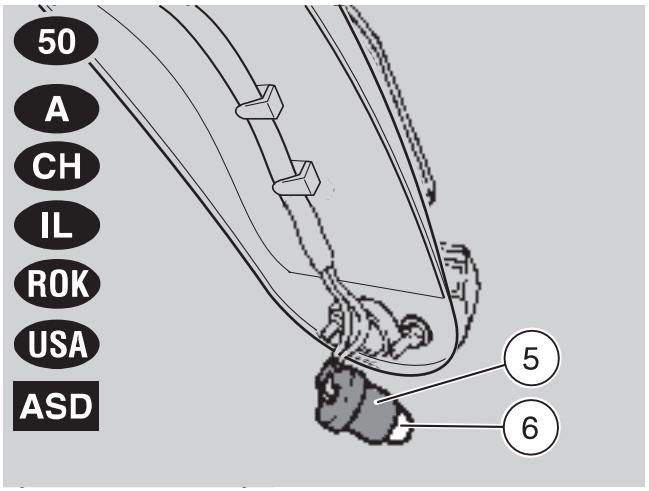
NOTE Extract the bulb sockets one by one, in such a way as to avoid positioning them incorrectly during the reassembly.

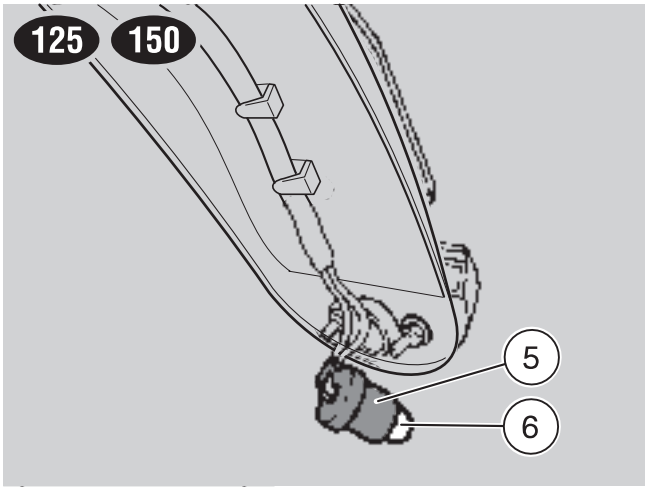
◆ Extract the bulb socket of the dashboard part in which there has been a light decrease:

Pos.	Lit part
5	Upper right part
6	Upper left part
7	Lower right part

◆ Extract the bulb and replace it with one of the same type.







CHANGING THE REAR LIGHT BULB

Carefully read p. 70 (BULBS).

NOTE Before changing a bulb, check the fuse, see p. 69 (CHANGING THE FUSES) and the effective operation of the stoplight switches, see p. 61 (CHECKING THE SWITCHES).

The rear light comprises two units. Each unit contains:
– one parking light bulb (1);
– one stoplight bulb (2).

To change them, proceed as follows:

- Position the vehicle on the stand.
- Unscrew and remove the screw (3).

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

- Remove the protection screen (4).
- For the stoplight bulb (2) only, slightly press the bulb and rotate it anticlockwise.
- 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.

⚠ CAUTION

Upon reassembly, correctly position the protection screen in its seat.
Tighten the screw (3) carefully, without exerting too much pressure, in order to avoid damaging the protection screen.

CHANGING THE NUMBER PLATE BULB

Carefully read p. 70 (BULBS).

To change the bulb:

⚠ CAUTION

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

- Grasp the bulb socket (5) from the inside of the rear part of the fairing cover, pull it and remove it from its seat.
- Withdraw the bulb (6) 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.

⚠ WARNING

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

DRAINING THE FUEL TANK

Carefully read p. 25 (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 fillercap.
- Empty the fuel tank by means of a manual pump or a similar system.

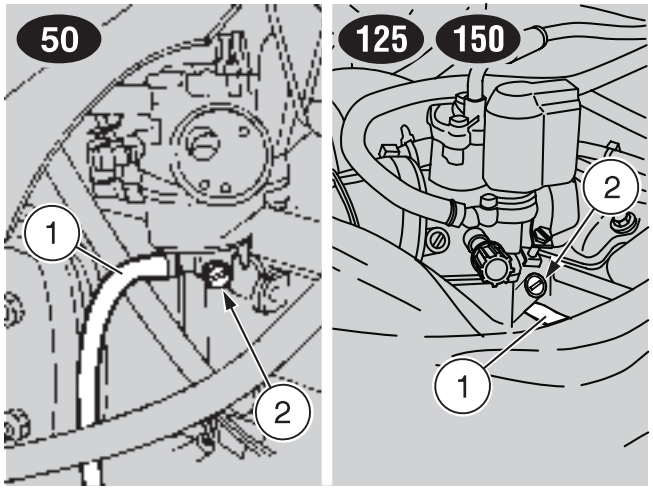
⚠ WARNING

After draining the tank, put back the filler cap in the correct position.

- Put back the filler cap.

To drain the carburettor completely, proceed as follows:

- 50 Remove the left inspection cover, see p. 55 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).
- 50 Remove the filter casing, see p. 49 (50 AIR CLEANER / REMOVAL).



- 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.

⚠ WARNING

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. 35 (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 – 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.

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, petrol or solvents to clean the rubber and plastic parts and the saddle: use only 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.

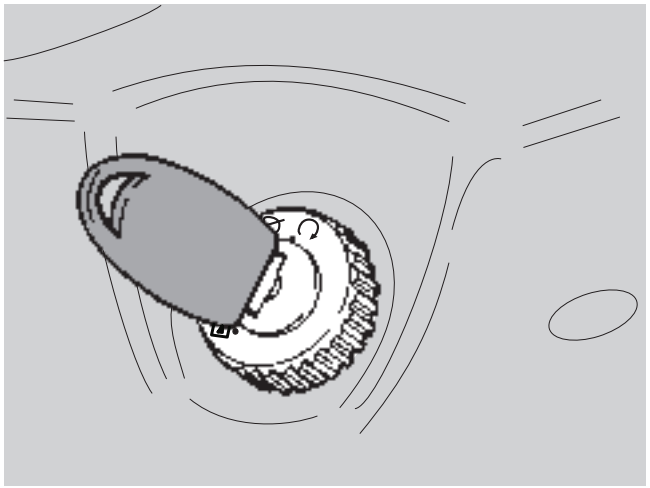
Further, it is important to carry out the necessary repairs and a general check up before the period of inactivity, since you could forget to carry them out later.

Proceed as follows:

- Empty the fuel tank and the carburettor, see p. 76 (DRAINING THE FUEL TANK).
- Extract the spark plug, see p. 64 (SPARK PLUG) and pour a teaspoon (5-10 cm^3) of two-stroke engine oil into the cylinder,

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

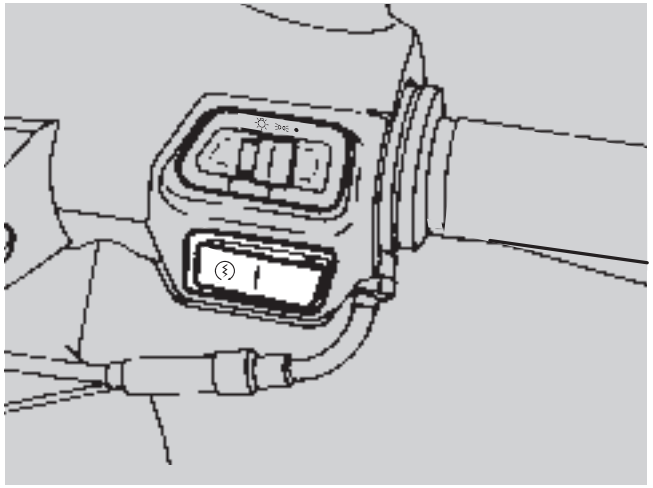
- Move the ignition switch to position "○", press the start push button "⚷" for a few seconds, to distribute the oil evenly on the cylinder surfaces.
- Remove the cloth.
- Put back the spark plug.
- Remove the battery, see p. 66 (REMOVING THE BATTERY).
- Wash and dry the vehicle, see p. 77 (CLEANING).
- Polish the painted surfaces with wax.



- Inflate the tyres, see p. 32 (TYRES).
- 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. 77 (CLEANING).
- Check the charge of the battery, see p. 68 (50 RECHARGING THE BATTERY), (125 150 RECHARGING THE BATTERY) and install it, see p. 67 (INSTALLING THE BATTERY).



- Make sure that the fuel drain screw is thoroughly screwed (breather pipe closing index), see p. 76 (DRAINING THE FUEL TANK).
- Refuel, see p. 25 (FUEL).
- Carry out the preliminary checking operations, see p. 35 (PRELIMINARY CHECKING OPERATIONS).

⚠ WARNING

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

TECHNICAL DATA

Description		50	125	150
DIMENSIONS	Max. length (rear mudguard extension included)	1880 mm	1930 mm	
	Max. width	720 mm	700 mm	
	Max. height (front part of the fairing included)	1160 mm	1195 mm	
	Seat height	830 mm	837 mm	
	Distance between centres	1250 mm	1330 mm	
	Min. ground clearance	160 mm	200 mm	
	Weight ready for starting	94 kg	112 kg	
	Weight ready for starting ≈	99 kg	—	

ENGINE	Type 50	MINARELLI - 2-stroke with controlled ignition		
	Type 125 150	**aprilia** Engines S.A. - 2-stroke with controlled ignition		
	Number of cylinders	1		
	Total displacement	49,26 cm^3	123,54 cm^3	149,98 cm^3
	Bore / stroke	40 mm / 39,2 mm	55 mm / 52 mm	60,6 mm / 52 mm
	Compression ratio	12,5 ±0,5 : 1	10,2 ±0,5 : 1	9,19 ±0,5 : 1
	Starting	electric + kick starter		
	Engine idle	1800 ± 100 rpm	1500 ± 100 rpm	
	Clutch	automatic, centrifugal, dry clutch		
	Change gear	automatic stepless variator		
	Cooling	with forced air		
	Cooling ≈	liquid cooled	—	

Description		50	125	150
CAPACITY	Fuel (reserve included)	8 ℓ		
	Fuel reserve	2 ℓ		
	Transmission oil	110 cm³	80 cm³	
	2 stroke oil (reserve included)	1,6 ℓ		
	2 stroke oil reserve	0,5 ℓ		
	Coolant	1,2 ℓ (50% antifreeze + 50% water)	—	
	Seats	n° 1 (2 in the countries where this is allowed)	n° 2	
	Vehicle max. load (driver + luggage)	105 kg		
	Vehicle max. load (driver + passenger + luggage)	180 kg (50 in the countries where this is allowed)		

TRANSMISSION	Speed change gear	automatic and stepless	
	Primary	V-belt	
	Ratios		
	– minimum for stepless change	2,6	2,39
	– maximum for stepless change	0,862	0,79
	Secondary	with gears	

CARBURETTOR	MODEL		
	– standard	DELL'ORTO PHBN 12	MIKUNI VM20
	– alternative	TEI KEY TK 3AA	DELL'ORTO PHVB 20,5
	Choke tube	Ø 12 mm	—
	Choke tube MIKUNI	—	Ø 20 mm
	Choke tube DELL'ORTO	—	Ø 20,5 mm

Description		50	125	150
FUEL SUPPLY	Fuel	premium grade petrol (4 Stars UK) according to the DIN 51600 standard, min. O.N. 98 (N.O.R.M.) and 88 (N.O.M.M.)	—	
	Fuel	unleaded petrol according to the DIN 51607 standard, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.)	—	
	Fuel	—	unleaded petrol according to the DIN 51607 standard, min. O.N. 95 (N.O.R.M.) and 85 (N.O.M.M.)	

FRAME	Type	one beam split in two at the rear

SUSPENSIONS	Front	hydraulically operated telescopic fork
	Stroke	90 mm
	Rear	hydraulic mono-shock absorber
	Stroke	72 mm

BRAKES	Front	disc brake, Ø190 mm with hydraulic transmission	
	Rear	drum brake, Ø110 mm, with mechanic transmission	—
	Rear	disc brake, Ø190 mm with hydraulic transmission	—
	Rear	—	drum brake, Ø140 mm, with mechanic transmission

Description		50	125	150
WHEEL RIMS	Type	alloy		
	Front	3,50 x 13"		
	Rear	3,50 x 13"		

TYRES	Type	tubeless	
	FRONT	130/60 - 13" - 53L	
	REAR	130/60 - 13" - 53J	130/60 - 13" - 60L
	STANDARD INFLATION PRESSURE		
	Front	170 kPa (1,7 bar)	190 kPa (1,9 bar)
	Rear	190 kPa (1,9 bar)	210 kPa (2,1 bar)
	INFLATION PRESSURE WITH PASSENGER (50 in the countries where this is allowed)		
	Front	170 kPa (1,7 bar)	210 kPa (2,1 bar)
	Rear	210 kPa (2,1 bar)	230 kPa (2,3 bar)

IGNITION	Type	C.D.I.	
	Spark advance	14° ± 2° before T.D.C.	19° ± 1° before T.D.C. at 4000 rpm

SPARK PLUG	Standard	NGK BR7 HS	NGK BR8 ES
	– alternative	—	BOSCH WR3CC; CHAMPION RN2C; CHAMPION QN2C
	Standard	NGK BR8 HS	—
	Spark plug gap	0,5 – 0,6 mm	0,6 – 0,7 mm

Description		50	125	150
ELECTRIC SYSTEM	Battery	12 V - 4 Ah	12 V - 6 Ah	
	Fuses	7,5 A	15 A - 5 A	
	Generator (with permanent magnet)	12 V - 85 W	12 V - 150 W	

BULBS	Low beam	12 V - 15 W	12 V - 55 W H3
	High beam	—	12 V - 55 W H1
	Front parking light	12 V - 5 W	
	Low / high beam CH IL ROK USA ASD	12 V - 35/35 W	—
	Front parking light CH IL ROK USA ASD	12 V - 3 W	—
	Direction indicators	12 V - 10 W	
	Rear parking light	12 V - 5 W	
	Stoplight	12 V - 21 W	
	Number plate	—	12 V - 3 W
	Number plate A CH IL ROK USA ASD	12 V - 3 W	—
	Dashboard lighting	12 V - 1,2 W	

WARNING LIGHTS	High beam	12 V - 1,2 W	
	High beam CH IL ROK USA ASD	12 V - 1,2 W	—
	Direction indicators	12 V - 2 W	
	2 stroke oil reserve	12 V - 2 W	
	Low fuel	12 V - 1,2 W	

50 LUBRICANT CHART

Transmission oil (recommended): IP F.C., SAE 75W - 90 or Agip GEAR SYNTH, SAE 75W - 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. GL-4 specifications.

Mixer oil (recommended): IP GREEN HIT 2 or Agip CITY 2T.
As an alternative to the recommended oil, use high-quality oils with characteristics in compliance with or superior to the ISO-L-ETC++, A.P.I. TC++ specifications.

Fork oil (recommended): IP F.A. 5W or IP F.A. 20W fork oil;
an alternative Agip FORK 5W or Agip FORK 20W fork oil.
If you need an oil with intermediate characteristics in comparison with the IP F.A. 5W and IP F.A. 20W or Agip FORK 5W and Agip FORK 20W, these can be mixed as indicated below:

SAE 10W = IP F.A. 5W 67% of the volume + IP F.A. 20W 33% of the volume, or
Agip FORK 5W 67% of the volume + Agip FORK 20W 33% of the volume;

SAE 15W = IP F.A. 5W 33% of the volume + IP F.A. 20W 67% of the volume, or
Agip FORK 5W 33% of the volume + Agip FORK 20W 67% of the volume.

Bearings and other lubrication points (recommended): IP AUTOGREASE MP or Agip GREASE 30.

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.

⚠ WARNING

Use new brake fluid only.

Brake fluid (recommended): IP F.F., DOT 5 (DOT 4 compatible) or Agip BRAKE 5.1, DOT 5 (DOT 4 compatible).

⚠ WARNING

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

Engine coolant (recommended): IP ECOBLU - 40°C or Agip COOL.

125 150 LUBRICANT CHART

Transmission oil (recommended): SAE 80W - 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. GL-3 specifications.

Mixer oil (recommended): IP GREEN HIT 2 or Agip CITY 2T.
As an alternative to the recommended oil, use high-quality oils with characteristics in compliance with or superior to the ISO-L-ETC++, A.P.I. TC++ specifications.

Fork oil (recommended): IP F.A. 5W or IP F.A. 20W fork oil;
an alternative Agip FORK 5W or Agip FORK 20W fork oil.

If you need an oil with intermediate characteristics in comparison with the IP F.A. 5W and IP F.A. 20W or Agip FORK 5W and Agip FORK 20W, these can be mixed as indicated below:

SAE 10W = IP F.A. 5W 67% of the volume + IP F.A. 20W 33% of the volume, or
Agip FORK 5W 67% of the volume + Agip FORK 20W 33% of the volume;

SAE 15W = IP F.A. 5W 33% of the volume + IP F.A. 20W 67% of the volume, or
Agip FORK 5W 33% of the volume + Agip FORK 20W 67% of the volume.

Bearings and other lubrication points (recommended): IP AUTOGREASE MP or Agip GREASE 30.
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.

⚠ WARNING

Use new brake fluid only.

Brake fluid (recommended): IP F.F., DOT 5 (DOT 4 compatible) or Agip BRAKE 5.1, DOT 5 (DOT 4 compatible).

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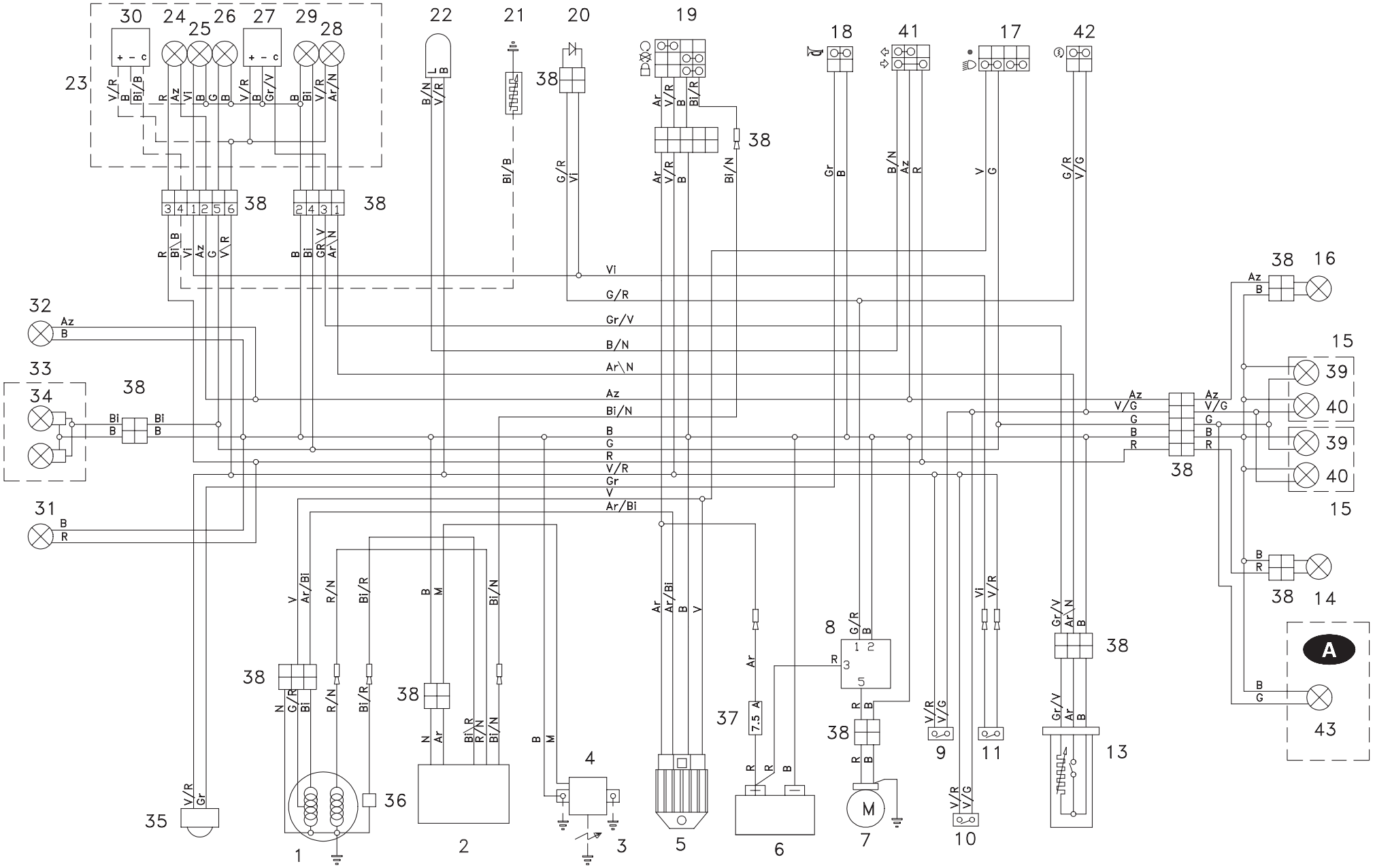
WIRING DIAGRAM - SR 50 (air and liquid-cooled version ≈)


30 24 25 26 27 29 28
23
22 21 20 19 18 41 17 42
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38

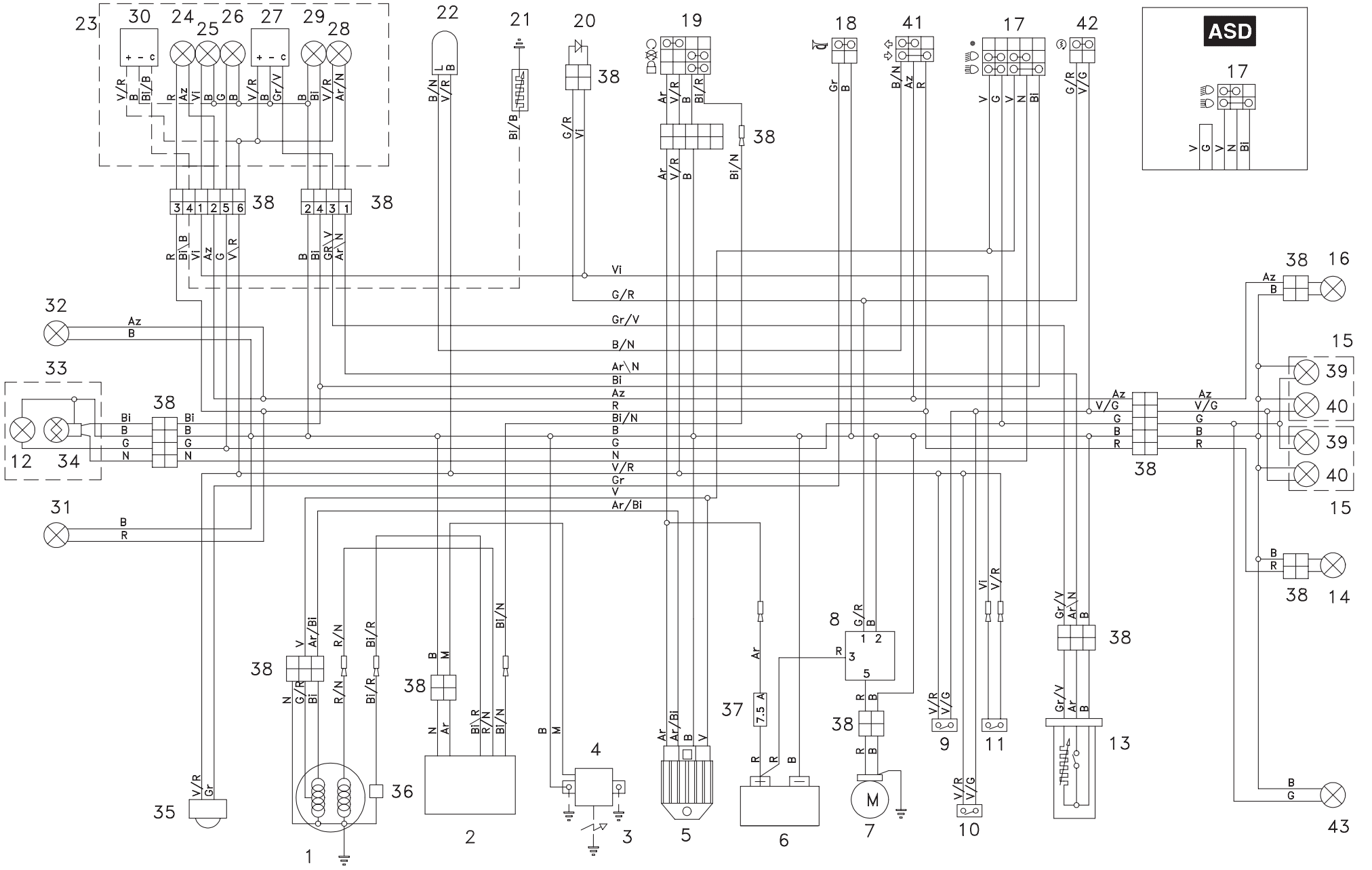
WIRING DIAGRAM KEY - SR 50 (air and liquid-cooled version ≈)

1) Generator
2) CDI
3) Spark plug
4) HT coil
5) Voltage regulator
6) Battery
7) Starter
8) Start relay
9) Front stoplight switch
10) Rear stoplight switch
11) 2 stroke oil reserve switch
12) –
13) Fuel level sensor
14) Rear right direction indicator
15) Rear light
16) Rear left direction indicator
17) Light switch
18) Horn push button
19) Ignition switch/steering lock
20) Control diode
21) Coolant thermistor ≈
22) Blinking
23) Dashboard
24) Direction indicator warning light
25) 2 stroke oil reserve warning light
26) Dashboard light
27) Fuel level instrument
28) Low fuel warning light
29) Low beam warning light
30) Coolant temperature instrument ≈
31) Front right direction indicator
32) Front left direction indicator
33) Front parking light
34) Low beam bulb
35) Horn
36) Pick up
37) Fuse
38) Multiple connectors
39) Rear parking light
40) Rear stoplight
41) Direction indicator switch
42) Start push button
43) Number plate light (A)

CABLE COLOURS

Ar orange
Az light blue
B blue
Bi white
G yellow
Gr grey
M brown
N black
R red
V green
Vi violet
Ro pink

WIRING DIAGRAM - SR 50 CH IL ROK ASD (air and liquid-cooled version)



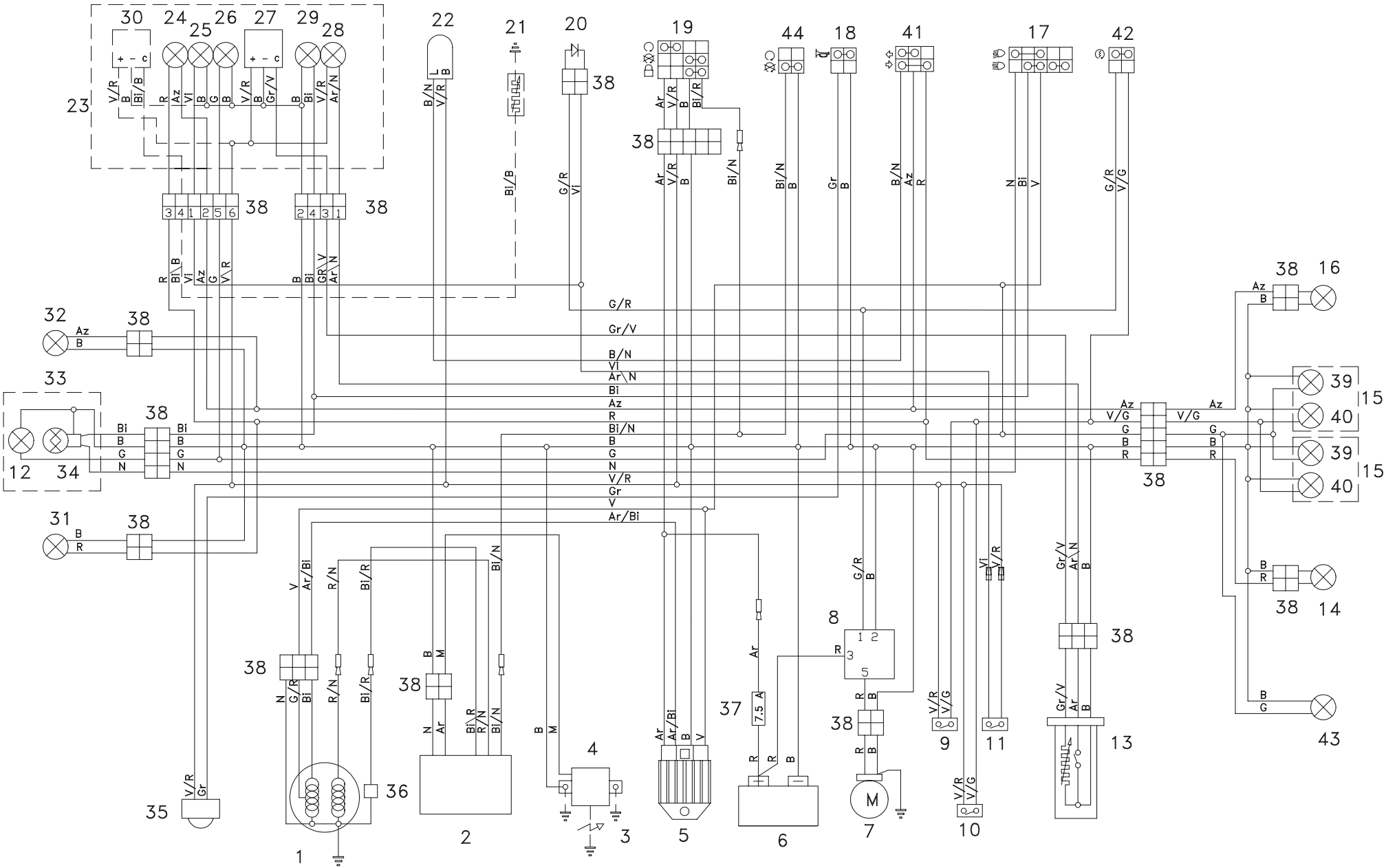
WIRING DIAGRAM KEY - SR 50 CH IL ROK ASD (air and liquid-cooled version ≈)

1) Generator
2) CDI
3) Spark plug
4) HT coil
5) Voltage regulator
6) Battery
7) Starter
8) Start relay
9) Front stoplight switch
10) Rear stoplight switch
11) 2 stroke oil reserve switch
12) Front parking light bulb
13) Fuel level sensor
14) Rear right direction indicator
15) Rear light
16) Rear left direction indicator
17) Light switch (ASD not provided)
17) Dimmer switch ASD
18) Horn push button
19) Ignition switch/steering lock
20) Control diode
21) Coolant thermistor ≈
22) Blinking
23) Dashboard
24) Direction indicator warning light
25) 2 stroke oil reserve warning light
26) Dashboard light
27) Fuel level instrument
28) Low fuel warning light
29) High beam warning light
30) Coolant temperature instrument ≈
31) Front right direction indicator
32) Front left direction indicator
33) Front parking light
34) Low/high beam bulb
35) Horn
36) Pick up
37) Fuse
38) Multiple connectors
39) Rear parking light
40) Rear stoplight
41) Direction indicator switch
42) Start push button
43) Number plate light

CABLE COLOURS

Ar orange
Az light blue
B blue
Bi white
G yellow
Gr grey
M brown
N black
R red
V green
Vi violet
Ro pink

WIRING DIAGRAM - SR 50 (USA) (air and liquid-cooled version)



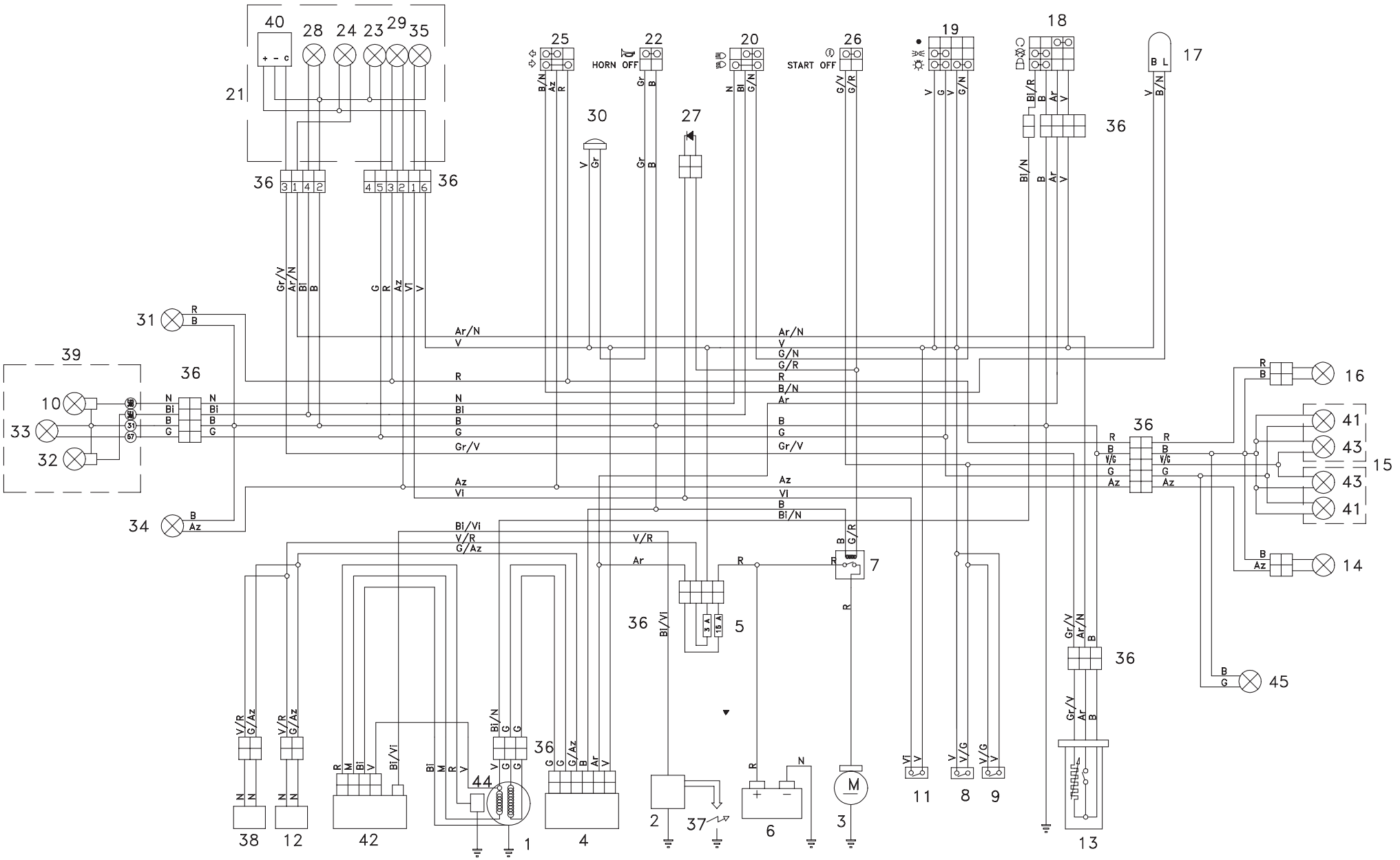
WIRING DIAGRAM KEY - SR 50 (USA) (air and liquid-cooled version ≈)

1) Generator
2) CDI
3) Spark plug
4) HT coil
5) Voltage regulator
6) Battery
7) Starter
8) Start relay
9) Front stoplight switch
10) Rear stoplight switch
11) 2 stroke oil reserve switch
12) Front parking light bulb
13) Fuel level sensor
14) Rear right direction indicator
15) Rear light
16) Rear left direction indicator
17) Dimmer switch
18) Horn push button
19) Ignition switch/steering lock
20) Control diode
21) Coolant thermistor ≈
22) Blinking
23) Dashboard
24) Direction indicator warning light
25) 2 stroke oil reserve warning light
26) Dashboard light
27) Fuel level instrument
28) Low fuel warning light
29) High beam warning light
30) Coolant temperature instrument ≈
31) Front right direction indicator
32) Front left direction indicator
33) Front parking light
34) Low/high beam bulb
35) Horn
36) Pick up
37) Fuse
38) Multiple connectors
39) Rear parking light
40) Rear stoplight
41) Direction indicator switch
42) Start push button
43) Number plate light
44) Engine stop switch (USA)

CABLE COLOURS

Ar orange
Az light blue
B blue
Bi white
G yellow
Gr grey
M brown
N black
R red
V green
Vi violet
Ro pink

WIRING DIAGRAM - SR 125 - SR 150



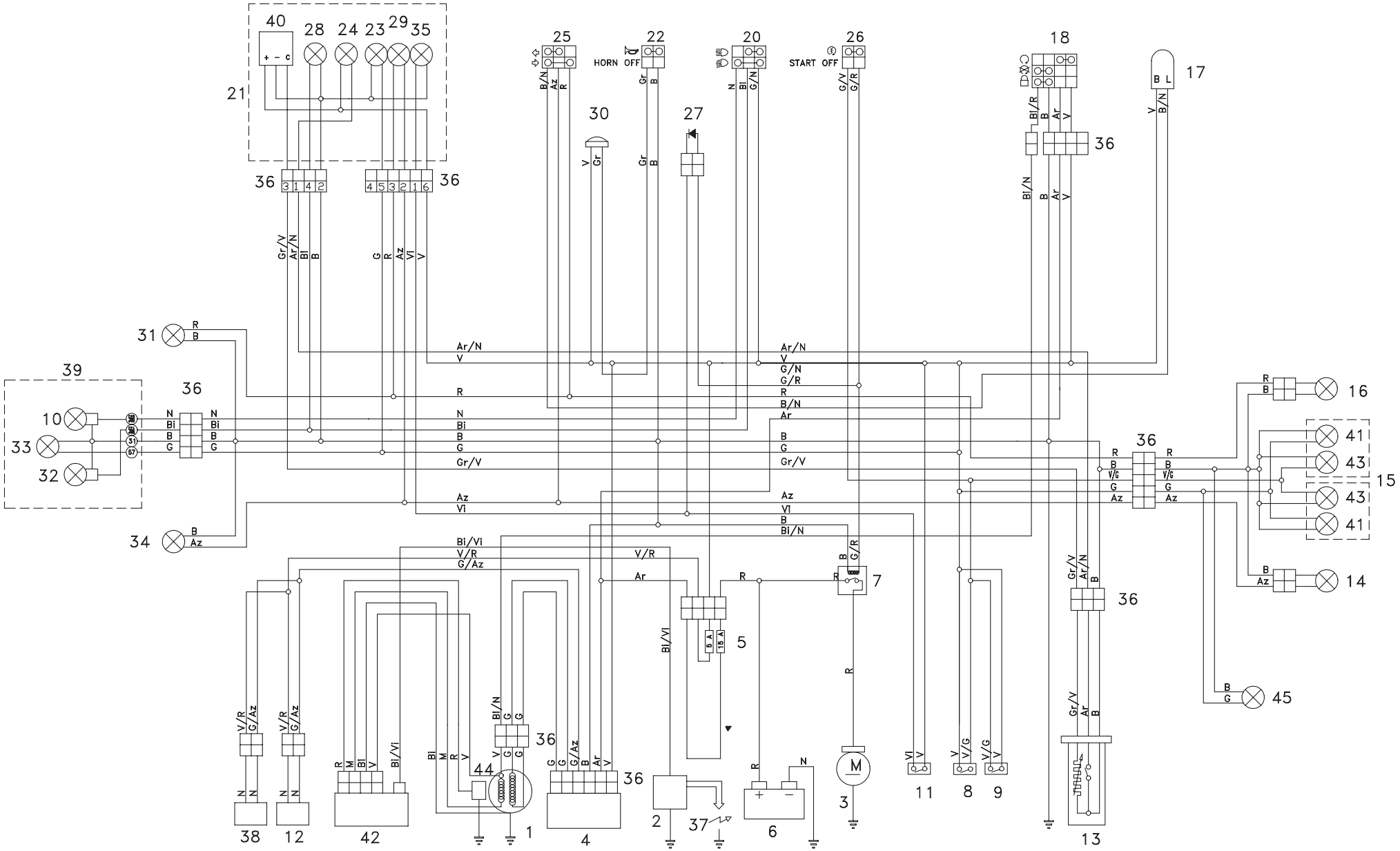
WIRING DIAGRAM KEY - SR 125 - SR 150

1) Generator
2) HT coil
3) Starter
4) Voltage regulator
5) Fuses
6) Battery
7) Start relay
8) Front stoplight switch
9) Rear stoplight switch
10) Low beam bulb
11) 2 stroke oil reserve switch
12) Cold start heating device
13) Fuel level sensor
14) Rear right direction indicator
15) Rear light
16) Rear left direction indicator
17) Blinking
18) Ignition switch / steering lock
19) Light switch
20) Dimmer switch
21) Dashboard
22) Horn push button
23) Dashboard light
24) Low fuel warning light
25) Direction indicator switch
26) Start push button
27) Control diode
28) High beam warning light
29) Direction indicator warning light
30) Horn
31) Front right direction indicator
32) High beam bulb
33) Front parking light
34) Front left direction indicator
35) 2 stroke oil reserve warning light
36) Multiple connectors
37) Spark plug
38) Automatic starter
39) Front light
40) Fuel level instrument
41) Rear parking light
42) CDI
43) Rear stoplight
44) Pick up
45) Number plate light

CABLE COLOURS

Ar orange
Az light blue
b blue
Bi white
G yellow
Gr grey
M brown
N black
R red
V green
Vi violet
Ro pink

WIRING DIAGRAM - SR 125 - SR 150 J



WIRING DIAGRAM KEY - SR 125 - SR 150 J

1) Generator
2) HT coil
3) Starter
4) Voltage regulator
5) Fuses
6) Battery
7) Start relay
8) Front stoplight switch
9) Rear stoplight switch
10) Low beam bulb
11) 2 stroke oil reserve switch
12) Cold start heating device
13) Fuel level sensor
14) Rear right direction indicator
15) Rear light
16) Rear left direction indicator
17) Blinking
18) Ignition switch / steering lock
19) —
20) Dimmer switch
21) Dashboard
22) Horn push button
23) Dashboard light
24) Low fuel warning light
25) Direction indicator switch
26) Start push button
27) Control diode
28) High beam warning light
29) Direction indicator warning light
30) Horn
31) Front right direction indicator
32) High beam bulb
33) Front parking light
34) Front left direction indicator
35) 2 stroke oil reserve warning light
36) Multiple connectors
37) Spark plug
38) Automatic starter
39) Front light
40) Fuel level instrument
41) Rear parking light
42) CDI
43) Rear stoplight
44) Pick up
45) Number plate light

CABLE COLOURS

Ar orange
Az light blue
b blue
Bi white
G yellow
Gr grey
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.