

aprilia

ATLANTIC 500



aprilia part# 8104589

use+maintenancebook



SAFETY INFORMATION

The following conventions are used to identify safety information throughout the manual. This symbol identifies safety-related information.



Whenever you see this symbol in the manual or attached to the vehicle, use utmost care to avoid the risk of injury. Disregarding the instructions identified by this symbol may put your safety, as well as that of other persons or of the vehicle at risk!

WARNING

Disregarding these indications may lead to severe injury or death.

CAUTION

Disregarding these indications may lead to minor injury or vehicle damage.

NOTE The term “Note” in this manual precedes important information or instructions.

TECHNICAL INFORMATION

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

Unless expressly specified otherwise, assembly is a reversal of the dismantling procedure.

The terms “left” and “right” are referred to the motorcycle when viewed from the riding position.

WARNINGS - PRECAUTIONS - GENERAL ADVICE

Before starting the engine, carefully read this manual paying special attention to section “SAFE RIDING”.

Your safety and that of other road users depends as much on your ability to respond to other traffic and unexpected occurrences as on your familiarity with your vehicle, the vehicle’s efficiency and your knowledge of basic “SAFE RIDING” techniques. Becoming familiar with your vehicle is the key to deal with traffic effectively and safely.

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NOTE This manual forms an integral part of the vehicle and must remain with the vehicle, even if the vehicle is re-sold.

The information contained in this manual was correct and up-to-date at the time of going to print. However, minor discrepancies between manual specifications and your vehicle are possible as a result of **aprilia's** ongoing efforts to improve product design. Please refer to your **aprilia** Official Dealer for any doubts about the information contained in this manual.

For inspections and repairs not expressly described in this manual, to purchase of **aprilia** genuine spare parts, accessories and other products, or simply for technical advice on specific matters, contact aprilia Official Dealers and Service Centres only for guaranteed prompt, quality service.

Thank you for choosing **aprilia**. Enjoy your ride!

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

NOTE Emission and noise standards in force in some countries require periodical testing.

Owners who use their vehicles in these countries must:

- Have affected components replaced with those having country-specific approval at an **aprilia** Official Dealer and
- Have the vehicle tested at the required intervals.

NOTE After purchase, please report the identification data indicated on the SPARE PARTS IDENTIFICATION LABEL in the table here below. The label is attached to the left-hand frame member. Remove the left inspection cover to give access to the label, see pag. 53 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).

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

Identification data are:

- YEAR = year of manufacture (Y,1,2,...);
- I.M.= engineering change index (A,B,C,...);
- COUNTRY CODES = country for which the vehicle is approved (I,UK,A,...).

You will be asked to provide this information when purchasing spare parts or model-specific accessories from **aprilia** Official Dealers.

Throughout the manual, the following symbols are used to identify the different versions:

- ASD** Automatic light switching version (Automatic Switch-on Device)
- OPT** Option

VERSION:

- I** Italy
- UK** United Kingdom
- A** Austria
- P** Portugal
- SF** Finland
- B** Belgium
- D** Germany
- F** France
- E** Spain
- GR** Greece
- NL** Holland
- CH** Switzerland
- DK** Denmark
- J** Japan
- SGP** Singapore
- SLO** Slovenia
- IL** Israel
- ROK** South Korea
- MAL** Malaysia
- RCH** Chile
- HR** Croatia
- AUS** Australia
- USA** United States of America
- BR** Brazil
- RSA** South Africa
- NZ** New Zealand
- CON** Canada

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safe riding



BASIC SAFETY RULES

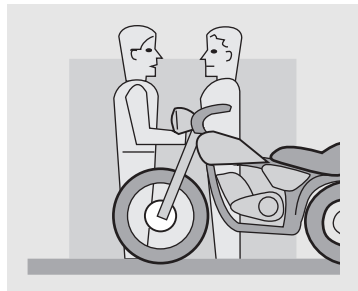
To ride a motorcycle, you must satisfy certain legal requirements (driving licence, minimum age, health conditions and fitness, insurance cover, state taxes, vehicle registration, number plate, etc.).

Practice riding in areas away from traffic or on private ground until you become familiar the vehicle and its controls.



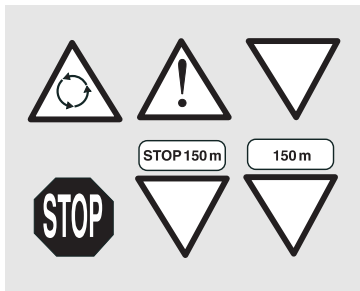
Alcohol, drugs, psychotropic substances and some medicines may affect your riding leading to an accident.

Do not ride when you feel unwell, distracted, tired or drowsy.



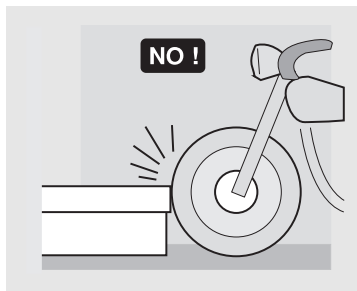
Most road accidents are caused by inexperienced riders.

NEVER lend the vehicle to beginners or anyone unless you are sure they meet the requirements.



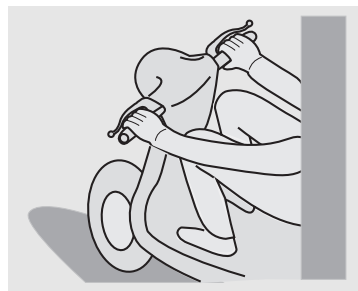
Observe all road signs as well as national and local road regulations.

Avoid sudden manoeuvres that put your safety and that of other persons at risk (for example: rearing up on the back wheel, speeding, etc.). Adjust your speed and riding to road surface conditions, visibility, etc.



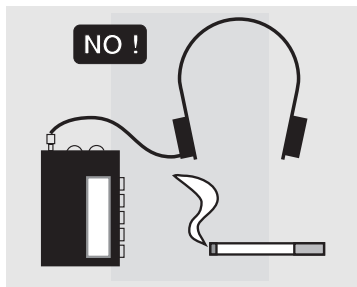
Avoid obstacles that could damage the vehicle or make you lose control.

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

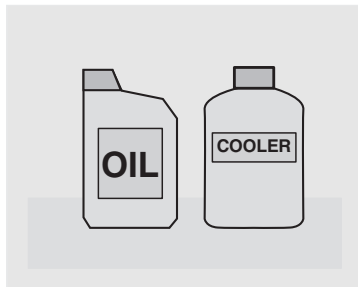


Always keep both hands on the handlebars and both feet on the footrest platform (or on the footrests), in the correct posture.

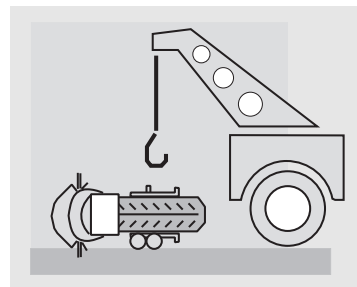
Do not stand up or stretch your limbs while riding.



Keep your eyes on the road and pay close attention to other traffic. Do not smoke, eat, drink or read while riding.



Use only the recommended fuels and lubricants specified in the "LUBRICANT CHART". Make it a rule to check oil, fuel and coolant levels frequently.

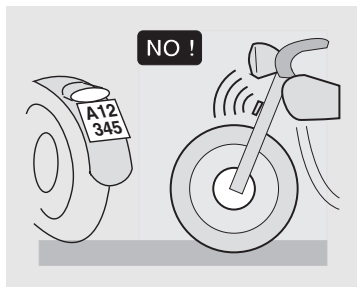


If the vehicle has been involved in an accident or has fallen over, check the control levers, pipes, wires, braking systems and critical parts for damage.

If necessary, have the vehicle inspected by an **aprilia** Official Dealer. Special attention should be paid to frame, handlebars, suspension, safety parts and all the devices that you are not able to inspect yourself.

Report any malfunction to help mechanics in their work.

Never use the vehicle when the amount of damage makes it unsafe to ride.



Do not change the position, inclination or colour of: number plate, direction indicators, lights and horns.

Any such changes to the vehicle will invalidate the guarantee.



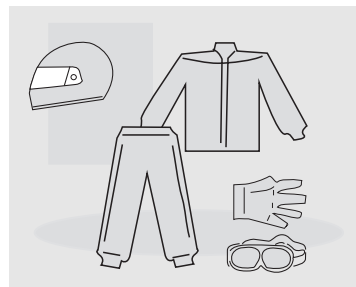
Making changes to the vehicle and/or removing original components can compromise vehicle performance and safety or make it illegal to ride.

Observe all law regulations and national and local regulations applicable to vehicle equipment.

In particular, avoid any changes apt to upgrade vehicle performance or alter its original specifications.

Racing on public roads is prohibited by the law.

Do not ride off the road.



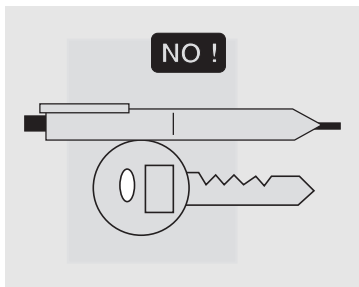
CLOTHING

Always wear an approved safety helmet and fasten it securely. The helmet must not be damaged, must fit correctly and the visor must be clean.

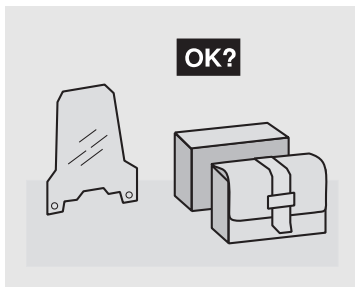
Wear protective clothing. To ensure you are easily seen, choose bright colours. Clothing with reflective strips is also very effective. Protective clothing protects you in the event of a fall and helps other road users to see you, reducing the risk of an accident.

Wear close-fitting clothing, fastened at the wrists and ankles.

Loose clothing or items, such as strings, belts or neckties may impair your movements while riding or become tangled in the wheels or other moving parts.



Do not keep any pointed or sharp objects, such as keys, pens, glass items, etc. in your pockets. They might cause injury in the event of a fall. Do not allow your passenger to keep such objects.



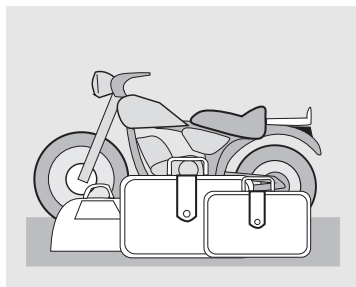
ACCESSORIES

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

Ensure that any accessory you install is does not cover the horn or the lights or impair their operation, be in the way of suspension travel or steering angle, impair the operation of the vehicle controls, reduce ground clearance or lean-in angle.

Do not install accessories that hinder access to the vehicle controls, lengthening your response time in an emergency.

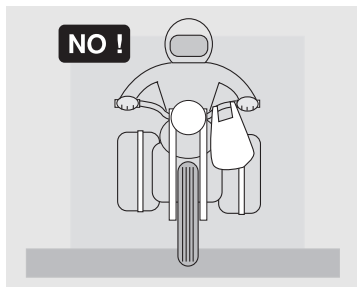
Large fairings and windshields affect vehicle aerodynamics and stability, especially at high speed.



After installing any accessory, make sure it is firmly secured to the vehicle and does not create a hazard when riding. Do not add any electrical devices or modify those fitted to your vehicle. Overloading might kill the engine unexpectedly while riding or a power shortage might render the horn and lights inoperative. Use only genuine **aprilia** accessories.

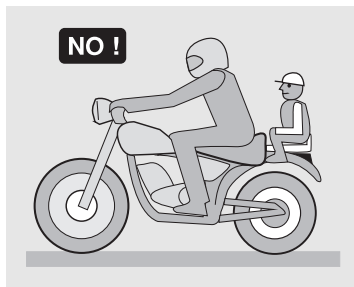
LOAD

Be careful when loading your luggage. Place your luggage as close as possible to the centre of gravity of the vehicle and ensure the load is distributed evenly to avoid imbalance. Make sure the load is firmly secured to the vehicle, especially during a long trip.



Do not hang bulky, heavy and/or dangerous objects on the handlebars, mudguards and forks. This might slow down steering response and adversely affect handling.

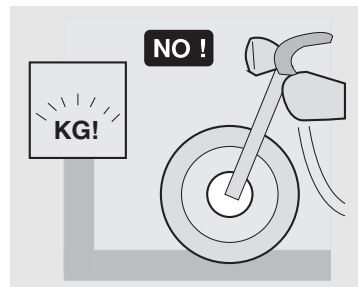
Do not secure bulky luggage to the sides of the vehicle, which could hit persons or object while riding and make you lose control of the vehicle.



Do not carry luggage unless it is firmly secured to the vehicle.

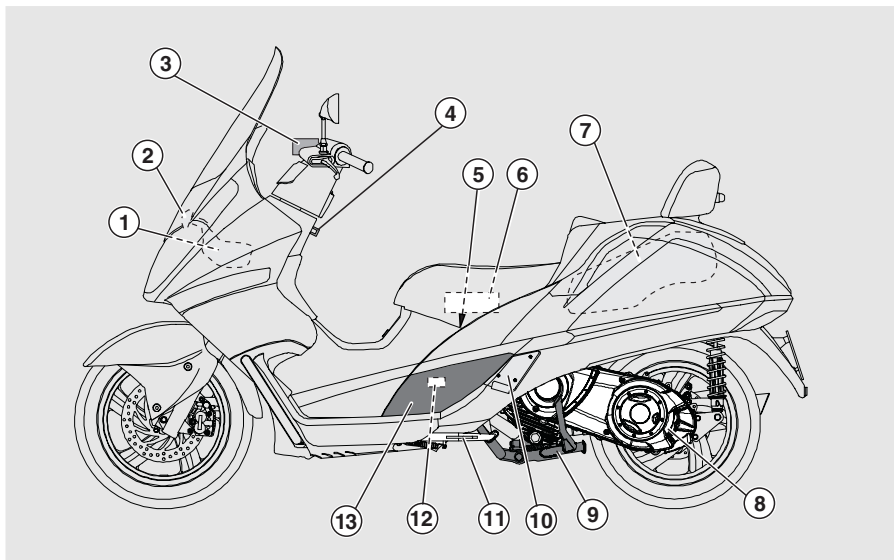
Luggage should not protrude exceedingly over the luggage rack or cover the lights, horn or indicators.

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



Do not exceed the maximum load allowed.

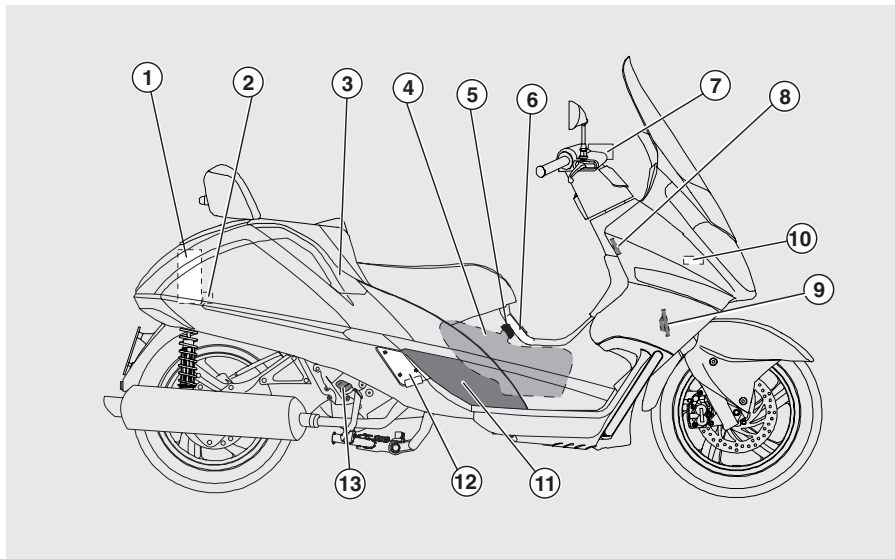
Excess load will make the vehicle unstable and affect steering.

**KEY**

- 1) Expansion tank
- 2) Coolant expansion tank plug
- 3) Rear brake fluid reservoir
- 4) Bag hook
- 5) Helmet hook
- 6) Air cleaner

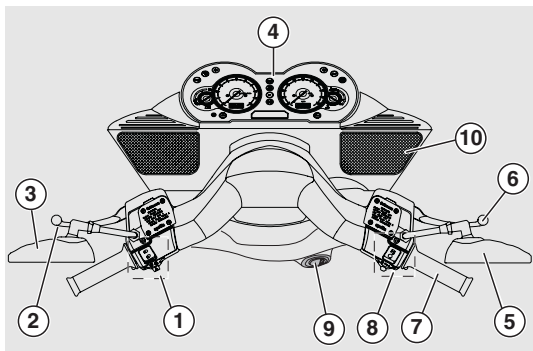
- 7) Crash helmet compartment
- 8) Converter air cleaner cover
- 9) Centre stand
- 10) Passenger left footrest
- 11) Side stand
- 12) Spark plug

- 13) Left inspection cover



KEY

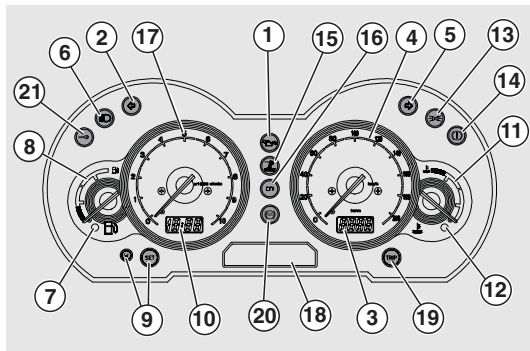
- | | | |
|------------------------------|--|------------------------------------|
| 1) Battery | 7) Front brake fluid reservoir | 13) Engine oil level / filler plug |
| 2) Main fuse carrier | 8) Ignition switch/steering lock/seat lock | |
| 3) Passenger grab rail | 9) Horn | |
| 4) Fuel tank | 10) Auxiliary fuse carrier | |
| 5) Fuel tank filler cap | 11) Right inspection cover | |
| 6) Fuel tank filler cap flag | 12) Passenger right footrest | |

**ARRANGEMENT OF THE CONTROLS/INSTRUMENTS – KEY**

- 1) Electric controls on the left side of the handlebar
- 2) Front and rear brake lever (integral braking system)
- 3) Left rear-view mirror
- 4) Instruments and indicators
- 5) Right rear-view mirror
- 6) Front brake lever
- 7) Throttle twistgrip
- 8) Electric controls on the right side of the handlebar
- 9) Ignition switch / steering lock (- -)
- 10) Loudspeakers protective grid ().

INSTRUMENTS AND INDICATORS – KEY

- 1) Red engine oil pressure light ()
- 2) Green left turn indicator light ()
- 3) Digital odometer
- 4) Speedometer





- 5) Green right turn indicator light ()
- 6) Blue high beam light ()
- 7) Amber low fuel light ()
- 8) Fuel level indicator ()
- 9) Digital clock function and setting buttons
- 10) Digital clock
- 11) Coolant temperature indicator ()
- 12) Red coolant high temperature light ()
- 13) Green low beam light ()
- 14) Parking brake light ()
- 15) Amber side stand down light ()
- 16) "EFI" warning light
- 17) Rev counter
- 18) LCD display
- 19) 3 display function selection, and 18 and 3 resetting
- 20) Red ABS light () (for versions with ABS only)
- 21) Red anti-theft (IMMOBILIZER) light ()

INSTRUMENTS AND INDICATORS TABLE

CAUTION

When the key is turned to ON “○”, all warning lights, the dashboard lights and the segments of the three displays come on for an instrumentation check-up and go out after three seconds.

Description	Function
Right indicator repeater light (⇒)	Blinks when the right direction indicator is on.
Left indicator repeater light (⇐)	Blinks when the left direction indicator is on.
Engine oil pressure light (🛢)	Comes on briefly each time the ignition switch is set to “○” with the engine stopped. Doubles as LED test light. The light must go out as soon as engine is fired.  CAUTION If the light comes on during the normal engine operation, it means that engine oil pressure in the circuit is too low. Stop the engine immediately and contact an aprilia Official Dealer.
Digital odometer	Gives total distance covered in kilometres, TRIP1 and TRIP2 (see page 22).
Speedometer	Gives road speed
High beam light (≡D)	Comes on when the high beam is on or when you flash the high beam (PASSING).
Low fuel light (🛢)	Comes on when there are about 4 litres of fuel left in the tank.
Fuel level indicator (🛢)	Indicates approximate fuel level in the tank. When the pointer reaches the red area, it means that the quantity of fuel left in the tank is about 4 litres. Refuel as soon as possible, see page 25 (FUEL).
Digital clock	Hour and date display, see page 20 (DIGITAL CLOCK/DATE DISPLAY).
Anti-theft device (immobilizer) light (—Ⓞ)	Blinks when the engine is off as a deterrent to prevent theft. Indicates that the anti-theft system is operating.
Parking brake light	(where fitted). Indicates that the hand brake is pulled.  CAUTION Release brake before start.

Description	Function
ABS (Anti-Lock Braking System) (ABS)	(where fitted). Anti-lock braking system check-up. Comes on in the event of a malfunction. CAUTION If the light comes on during normal engine operation, it means that there is a failure in the anti-locking system. Stop the engine immediately and contact an aprilia Official Dealer.
High Coolant temperature indicator (HCT)	Indicates the approximate temperature of coolant in the engine. When the pointer begins to move away from the "Min" level, the engine is warm enough to ride. The central portion of the scale corresponds to normal running temperature range. If the pointer reaches the red area or the warning light comes on, stop the engine and check coolant level, see page 29 (COOLANT). CAUTION Exceeding the maximum temperature allowed (red "Max" area of the scale) may lead to severe engine damage.
Coolant high temperature light (HCT)	It comes on when the coolant temperature pointer reaches the red area. Immediately stop the engine and check coolant level, see page 29 (COOLANT). CAUTION Exceeding the max. temperature allowed for a long period may lead to severe engine damage.
Low beam light (LB)	Comes on when the low beam is on.
Side stand light (SSL)	Comes on when the side stand is down. CAUTION When the side stand is down, the warning light comes on and engine starting is inhibited.
Electronic fuel injection control light (EFI)	Comes on, for about three seconds, whenever the ignition switch is set to "O" with the engine stopped, thus testing the injection system operation. The light must go out as soon as engine is fired. CAUTION If the light comes on during the normal engine operation, it means that the fuel electronic injection system is not working properly. Stop the engine immediately and contact an aprilia Official Dealer.
Rev counter	Indicates the number of engine revolutions.
LCD multifunction display	External temperature, max. speed, average speed, battery voltage, average fuel consumption after the last "RESET", chronometer and kilometers till next scheduled service are displayed. See page 21 (LCD MULTIFUNCTION DISPLAY).

KEY CONTROLS

CONTROLS ON THE LEFT SIDE OF THE HANDLEBAR

NOTE The electric components work only when the ignition switch is in position “○”.

1) HORN BUTTON (🔊)

Press it to operate the horn.

2) DIRECTION INDICATOR SWITCH (↔)

Move the switch to the left in order to signal your intention to turn left; move the switch to the right to signal a right turn. Press the switch at the centre in to cancel the signal.

The indicators are self-cancelling and turn off automatically after 40 seconds or after the vehicle has covered 500 m. The self-cancelling feature only operates when the vehicle is in motion.

3) DIMMER SWITCH (🔍 - ☹) / HIGH BEAM FLASHER (PASSING↕)

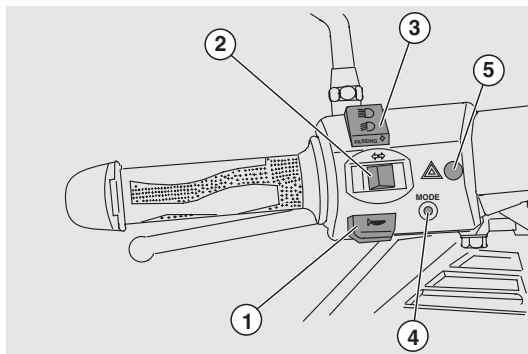
Set the dimmer switch to “☹”, to turn on the low beam, set it to 🔍 to turn on the high beam.

Push the dimmer switch to position “PASSING ↕ ” to flash the high beam.

NOTE Release the switch to stop the flasher.

4) MODE BUTTON (MODE)

Press it repeatedly to select the various indications provided by the multifunction display.

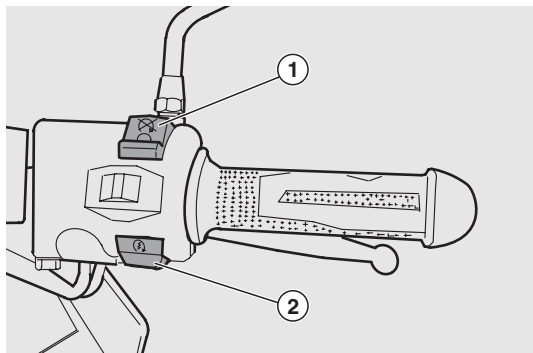


5) HAZARD BUTTON (⚠)

OPERATION Press the button to activate the emergency stop blinker. When the blinker is on, it is possible to turn the ignition switch to (⊗) and extract the key.

DEACTIVATION

Insert the key into the ignition switch and turn it to position “○”, press the HAZARD button again to turn off the blinker.



CONTROLS ON THE RIGHT SIDE OF THE HANDLEBAR

NOTE The electric components work only when the ignition switch is in position “○”.

1) ENGINE KILL SWITCH (○ - ⊗)

⚠ WARNING

Do not operate the engine kill switch “○ - ⊗” while riding.

This is a safety or emergency switch. When it is in position “○”, the engine can be started. When set to position “⊗”, it will stop the engine.

⚠ CAUTION

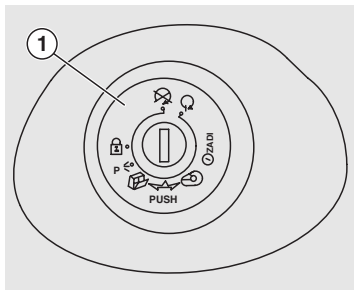
**Leaving the ignition switch in position “○” when the engine is stopped may flatten the battery.
After stopping the vehicle, stop the engine and then turn the ignition switch to position “⊗”.**

2) STARTER BUTTON (ⓘ)

When pressed, the starter button “ⓘ”, turns the engine over. See page 34 (STARTING) for starting procedure.

DEACTIVATION

When the key is inserted into the ignition switch and turned to “○”, the device is automatically disconnected.



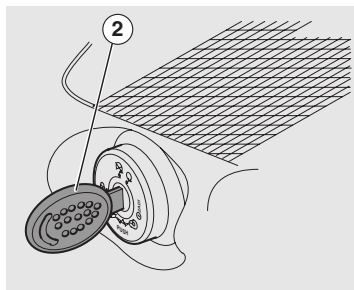
IGNITION SWITCH

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

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


Two keys are delivered along 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 “” while riding or you might lose control of the vehicle.




OPERATION

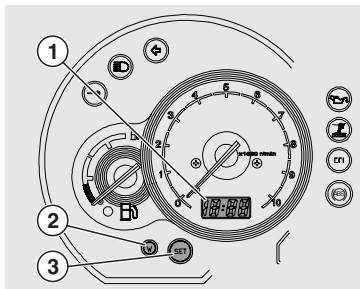
To lock the steering:

- ◆ Turn the handlebar fully to the left.
- ◆ Turn the key (2) to position “”.
- ◆ Extract the key.

To open the compartments:

- ◆ Push in the key (2) and turn it clockwise to open the small storage compartment.
- ◆ Push in the key (2) and turn it anticlockwise to release/lock the saddle and access the compartment under the saddle.

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



DIGITAL CLOCK/DATE LIQUID CRYSTAL DISPLAY

NOTE The Displays only operate when the ignition switch is set to "O".

Display functions (1):

- ◆ Normal display: hours and minutes.
- ◆ Date display: press the key SET (3), the month and the day are displayed for less than five seconds.

Setting the clock:

NOTE The clock must be set with the engine stopped, the vehicle at standstill and the direction indicators off.

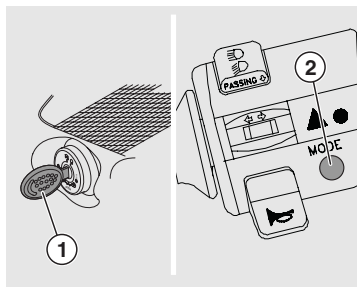
- ◆ Press the key W (2) for more than three seconds to enter the clock setting mode (only when the time is displayed).
- ◆ Press or hold down the key SET (3) until setting the correct time.
- ◆ Press the key W (2) to confirm the time setting. The clock switches to minutes setting automatically.
- ◆ Press or hold down the key SET (3) until setting the minutes.
- ◆ Press the key W (2) to confirm the minutes setting.
- ◆ The clock setting procedure is finished and the clock returns to normal operation.

Setting the date:

- ◆ Press the key W (2) for more than three seconds to enter the date setting mode (only when the date is displayed).
- ◆ Press or hold down the key SET (3) until setting the day.
- ◆ Press the key W (2) to confirm the day setting. The display switches automatically to month setting.
- ◆ Press or hold down the key SET (3) until setting the month.
- ◆ Press the key W (2) to confirm the month setting.
- ◆ The date setting procedure is finished and the date display returns to normal operation.

WARNING

Clock and date display may only be set when the engine is stopped, the vehicle is at standstill and the direction indicators are off.



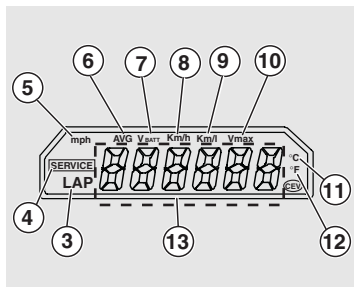
MULTIFUNCTION LIQUID CRYSTAL DISPLAY

When the ignition key (1) is set to "O", all segments of the multifunction display come on (this is a test of all components). The display resumes the last function set after the vehicle was stopped.

CAUTION

After the first 1000 kilometres and every 6000 kilometres afterwards, a SERVICE warning is displayed.

When you see this message, contact an Aprilia Official Dealer to have the vehicle serviced as specified in the periodic maintenance chart, see page 41 (PERIODIC MAINTENANCE CHART).

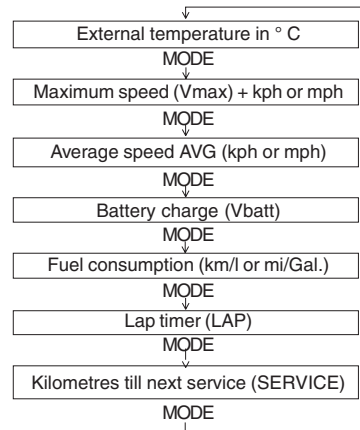


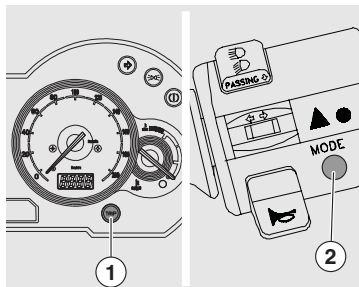
The different functions are selected and displayed by pressing the MODE button (2) placed on left side of the handlebar.

The segments of the multifunction display are:

Lap timer indicator (3), service term icon (4), average mph speed icon (5), average speed (6), battery charge icon (7), average kph speed icon (8) (the same icon is used for "consumption" indication expressed in Km/l), consumption expressed in mi/Gal. (used on versions (USA UK) only) (9), maximum speed icon (10), icon of the external temperature expressed in Celsius degrees (° C) (11), icon of the external temperature expressed in Fahrenheit degrees (° F) (12), six-digit reading of the set functions identified by the corresponding icons (13).

Press the MODE button repeatedly to select in the order:





RESETTING AVERAGE AND MAXIMUM SPEED, FUEL CONSUMPTION AND LAP TIMER

NOTE These indications may only be reset when the odometer is displayed on the right digital display.

- ◆ Press the TRIP key (1) for more than three seconds.

NOTE The displayed function will be reset.

LAP TIMER START/STOP AND RESET

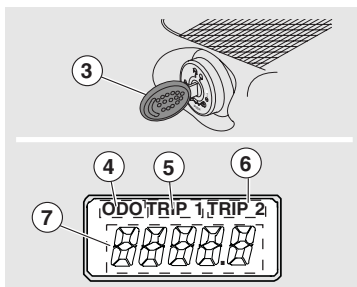
NOTE These indications may only be reset when the odometer is displayed on the right digital display.

START/STOP:

Press the MODE key for more than three seconds.

RESET:

- ◆ Press the TRIP key (1) for more than three seconds only when the lap timer is stopped.



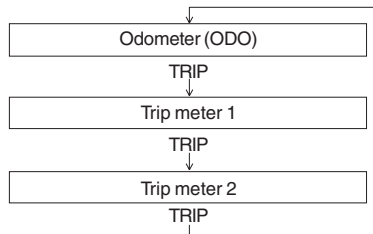
DIGITAL ODOMETER

NOTE The displays only operate when the ignition switch is set to “○”.

When the ignition key (3) is set to “○”, all segments of the display come on to test components for proper operation. The initial display shows the odometer.

The segments of the Display are: Odometer display icon (4), TRIP 1 display icon (5), TRIP 2 display icon (6), and five-digit reading of selected indication (7).

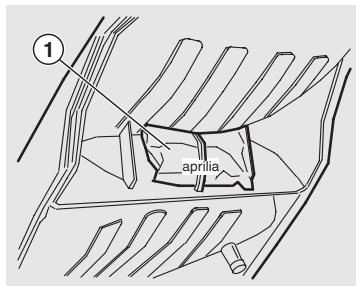
Press the TRIP key repeatedly to access in the order:



RESETTING TRIP 1 AND TRIP 2

- ◆ Press the TRIP key (1) for more than three seconds when the TRIP meter you wish to reset is displayed.

NOTE The function displayed currently will be reset.



TOOL KIT

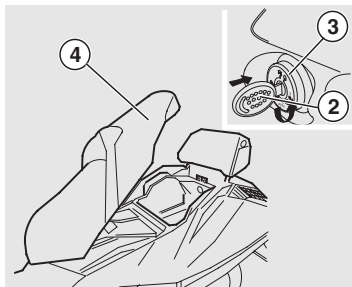
The tool kit (1) is fixed inside the helmet compartment under the saddle.

To reach it:

Raise the saddle, see page 23 (UNLOCKING / LOCKING THE SADDLE).

The tool kit includes:

- 4 mm Allen wrench;
- Double head/flat-blade screwdriver;
- handgrip for screwdriver;
- 3 mm Allen wrench;
- 16x70 mm socket wrench with hexagon ring;
- 13 mm combination wrench;
- spanner wrench with square snug;
- tool bag.

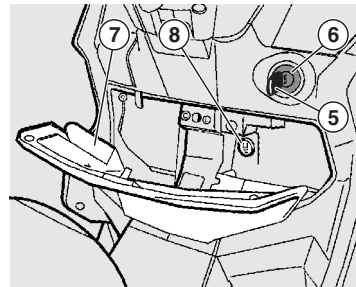


UNLOCKING/LOCKING THE SADDLE

- ◆ Insert the key (2) into the saddle lock (3).
- ◆ Press and turn the key (2) anticlockwise.
- ◆ The pneumatic piston keeps the saddle raised (4) and the light inside the saddle compartment comes on.
- ◆ To lock the saddle, lower it and then press down (without exerting too much pressure) until the lock becomes engaged.

WARNING

Make sure the saddle is locked securely before riding.



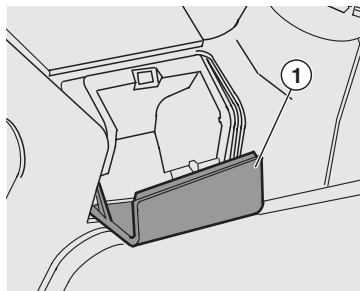
GLOVE COMPARTMENT

The glove compartment can accommodate bulky objects when you leave your bike unattended.

- ◆ Insert the key (5) into the ignition switch (6).
- ◆ Press and turn the key clockwise.
- ◆ The compartment flap (7) will open.
- ◆ A 12V power socket (8) is fitted inside the glove compartment.
- ◆ The power socket can be used to recharge small appliances rated up to 180 W (mobile phone, inspection lamp, etc.).

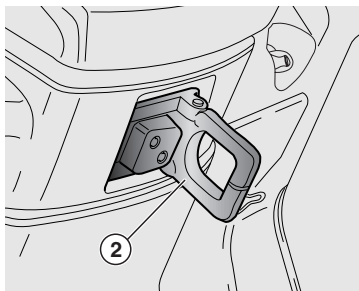
CAUTION

Prolonged use of the power socket with the engine stopped may flatten the battery.



SMALL STORAGE COMPARTMENT

- ◆ Push on the top section of the door (1).
- ◆ The door clicks open to give access to the compartment.
- ◆ To close the door, push gently until hearing an audible click.



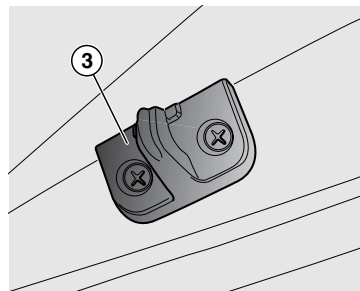
BAG HOOK

WARNING

Do not hang heavy or bulky bags on the hook, or this might adversely affect manoeuvrability and impair foot movement.

The bag hook (2) is mounted to the inner shield at the front end.

Maximum load allowed: 1.5 kg



HELMET HOOK

The helmet hook (3) is located under the saddle, on vehicle left side: to gain access to this part, raise the saddle as described in "UNLOCKING/LOCKING THE SADDLE" (page 23).

- ◆ Hook helmet and lower saddle.

WARNING

Use helmet hook when the vehicle is not running. Never leave helmets hooked when riding the vehicle.

FUEL

WARNING

The fuel used to operate engines is highly flammable and becomes explosive under particular conditions. Refuelling and engine service should take place in a well-ventilated area with the engine stopped. Do not smoke when refuelling or in the proximity of sources of fuel vapours. Avoid contact with open flames, sources of sparks or any other source which may ignite the fuel or lead to explosion. Take care not to spill fuel out of the filler, or it may ignite when in contact with hot engine parts. In the event of accidental fuel spillage, make sure the affected area is fully dry before starting the engine. Fuel expands from heat and when left under direct sunlight. Never fill the fuel tank up to the rim. Tighten the filler cap securely after each refuelling. Avoid contact with skin. Do not inhale vapours. Do not swallow fuel. Do not transfer fuel between different containers using a hose.



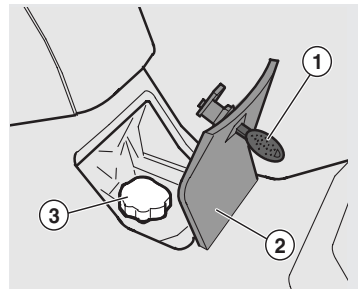
DO NOT RELEASE FUEL INTO THE ENVIRONMENT.

KEEP AWAY FROM CHILDREN.

Use only premium-grade unleaded fuel with a minimum octane rating of 91 (RON) and 81 (MON).

TANK CAPACITY (reserve included):
– 16.5 ℓ

FUEL RESERVE :
– 4 ℓ



To reach the filler cap:

- ◆ Insert the key (1) into the lock (2) of the filler cap flap, which is positioned between the footrest platforms.
- ◆ Turn the key clockwise and pull to open the flap.
- ◆ Unscrew the filler cap (3).

LUBRICANTS

WARNING

Prolonged or repeated contact with oil may cause severe skin damage.

Wash your hands thoroughly after handling oil.

Wear latex gloves during servicing.

KEEP AWAY FROM CHILDREN.

DO NOT RELEASE INTO THE ENVIRONMENT.

CAUTION

Handle carefully.

Do not spill oil!

Avoid smearing the components, the area in which you are working and the surrounding area.

Remove any trace of oil.

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



TRANSMISSION OIL

Check transmission oil level every 6000 km (3750 miles).

Change transmission oil after the first 1000 km (625 miles) and then every 24.000 km (15000 miles)

Have oil level checked and oil changed at an **aprilia** Official Dealer.

ENGINE OIL

Check engine oil level every 3000 km (1875 miles), see page 44 (CHECKING AND TOPPING UP OIL LEVEL).

NOTE Use oil meeting 5/W 40 specifications, see page 74 (LUBRICANT CHART).

CAUTION

Do not overfill (top up beyond the "Max" level).

Have engine oil changed after the first 1000 kilometres (625 miles). Afterwards:

- Have engine oil changed every 6000 km (3750 miles).
- Check oil level every 3000 km (1875 miles) and top up as required.

Have engine oil changed at an **aprilia** Official Dealer.



BRAKE FLUID - Recommendations

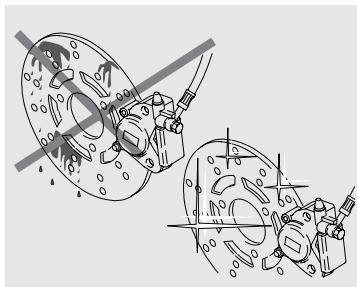
NOTE This vehicle is fitted with front and rear disc brakes.

Each braking system is operated by an independent hydraulic circuit. The information provided below applies to both braking systems.

▲ WARNING

Any sudden changes in play or hardness in the brake lever are warning signs of problems with the hydraulic circuits.

If in doubt about the braking efficiency of your bike or if you are not able to perform routine checks, contact an **aprilia** Official Dealer.



▲ WARNING

Ensure that the brake discs and brake linings have not become contaminated with oil or grease. This is particularly important after servicing or inspections.

Make sure the brake lines are not twisted or worn.

KEEP AWAY FROM CHILDREN.

DO NOT RELEASE BRAKE FLUID INTO THE ENVIRONMENT.



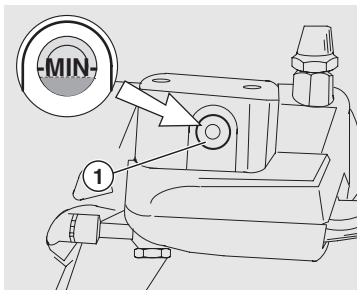
DISC BRAKES

▲ WARNING

The brakes are critical to your safety and must always be kept in sleek running order. Check the brakes before each ride.

A dirty disc soils the pads, leading to loss of braking. Dirty pads must be replaced, whereas a dirty brake disk may be cleaned with a high-quality degreasing product.

Have brake fluid changed at an **aprilia** Official Dealer every two years.



CHECKING BRAKE FLUID LEVEL

Check level as follows:

NOTE Place the vehicle on firm, level ground.

- ◆ Place the vehicle on the centre stand.
- ◆ Turn the handlebar. The fluid in the reservoir must be parallel with the **"MIN"** mark on the sight glass (1).
- ◆ Ensure that fluid level in the reservoir is above the **"MIN"** mark on the sight glass (1).

MIN = minimum level.

NOTE This vehicle is fitted with front and rear disc brakes. Each braking system is operated by an independent hydraulic circuit. The information provided below applies to both braking systems.

Brake fluid level decreases gradually as the brake pads wear down.

The brake reservoirs are placed under the handlebar cover, near the brake lever connections.

Check brake fluid level in the reservoirs at regular intervals - see (CHECKING BRAKE FLUID LEVEL) at the side - and inspect the brake pads periodically for wear, see page 48 (CHECKING THE BRAKE PADS FOR WEAR)

WARNING

Do not ride if the braking system is leaking.

WARNING

Do not ride when brake fluid level is below the **"MIN"** mark.

WARNING

Brake fluid level decreases gradually as the brake pads wear down.

- ◆ Check the brake pads and brake disc for wear, see page 48 (CHECKING THE BRAKE PADS FOR WEAR).

If the brake pads and/or the brake disc are in good condition:

- ◆ Contact an **aprilia** Official Dealer and have brake fluid level topped up.

WARNING

Check braking efficiency.
When the brake lever has exceeding travel or if you notice a loss of braking, contact an **aprilia** Official Dealer. The braking system may need bleeding.

COOLANT

▲ CAUTION

Do not ride when coolant is below the “MIN” level.

Check coolant level every 2000 km (1250 miles) and after a long trip. Have coolant changed at an **aprilia** Official Dealer every two years.

▲ WARNING

Coolant is toxic when ingested. Contact with eyes or skin may cause irritation. In the event of contact with eyes, rinse repeatedly with abundant water and seek medical advice. In the event of ingestion, induce vomiting, rinse mouth and throat with abundant water and seek medical advice immediately.

DO NOT RELEASE INTO THE ENVIRONMENT.

KEEP AWAY FROM CHILDREN.

Take care not to spill coolant onto hot engine parts. It may ignite and produce invisible flames. Wear latex gloves when servicing. Have coolant changed at an **aprilia** Official Dealer.

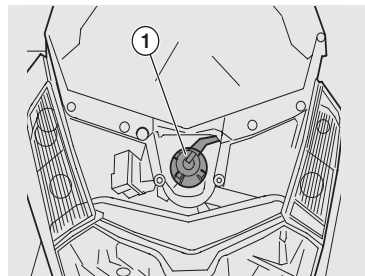


Coolant mixture is a solution of 50% water and 50% anti-freeze.

This is the ideal solution for most operating temperatures and provides good corrosion protection.

This solution is also suited to the warm season, as it is less prone to evaporative loss and will reduce the need for top-ups. In addition, less water evaporation means fewer minerals salts depositing in the radiator, which helps preserve the efficiency of the cooling system.

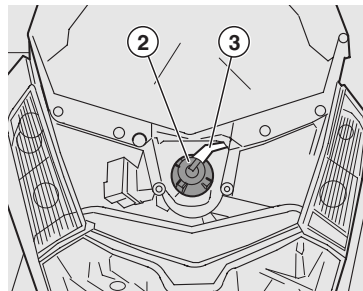
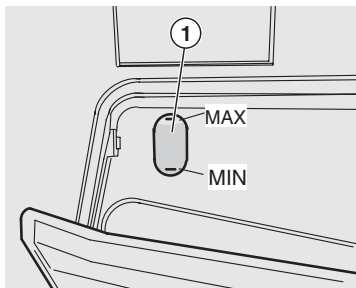
When temperature drops below zero degrees centigrade, check the cooling system frequently and add more anti-freeze (up to 60% maximum) to the solution.



Use distilled water in the coolant mixture.

▲ WARNING

Do not remove the expansion tank plug (1) when the engine is hot, since coolant is under pressure and very hot. Contact with skin or clothes, may cause severe scalding and/or damage.



CHECKING AND TOPPING UP

WARNING

Wait for the engine to cool down before checking or topping up coolant level.

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

NOTE Place the vehicle on firm and level ground.

- ◆ Open the small storage compartment, see page 23 (GLOVE COMPARTMENT).
- ◆ Check that coolant level in the expansion tank (1) is between the “**MIN**” and “**MAX**” marks.

MIN = minimum level.

MAX = maximum level.

If not so:

- ◆ Remove the front cover, see page 54 (REMOVING THE FRONT COVER)
- ◆ Turn the filler cap (2) anticlockwise to release it, but do not remove the cap.
- ◆ Allow a few seconds for any residual pressure to discharge.

NOTE A breather pipe (3) is connected to filler cap (2). Do not force or disconnect the breather pipe (3).

- ◆ Unscrew and remove the filler cap (2).

WARNING

Coolant is toxic when ingested. Contact with eyes or skin may cause irritation. Do not put your fingers or any other object into the filler opening in order to ensure that there is coolant.



CAUTION

Never top up beyond the “**MAX**” level mark or coolant will leak out when the engine is running.

- ◆ Top up with coolant, see page 74 (LUBRICANT CHART) up to about the “**MAX**” mark.
- ◆ Refit the filler cap (2).

CAUTION

If coolant level drops too quickly or the tank is empty, check the cooling circuit for leaks. Have the leak repaired at an **aprilia** Official Dealer.

- ◆ Refit the front cover, see page 54 (REMOVING THE FRONT COVER).



TYRES

This vehicle is fitted with tubeless tyres.

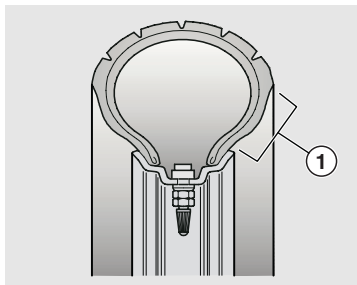
WARNING

Check tyre inflation pressures periodically with the tyres at room temperature, see page 70 (TECHNICAL DATA).

Checking pressure on hot tyres will result in inaccurate measurement.

Take care to check tyre pressures before and after a long journey.

An overinflated tyre will provide a harsh ride, reduce riding comfort and stability when cornering.



An underinflated tyre will extend the contact patch to include a larger portion of the tyre wall (1). When this is the case, the tyre may slip on or become separated from the rim, leading to loss of control.

The tyre may even jump off the rim under hard braking.

Lastly, the vehicle may skid in a bend.

Inspect tread surface and check for wear. Badly worn tyres adversely affect traction and handling.

Some of the tyre types approved for this vehicle are fitted with wear indicators.

There are various types of wear indicators. Inspect tread surface and check for wear. Badly worn tyres adversely affect traction and handling.

Enquire about correct wear inspection procedure with your supplier.

Old tyres may not ensure full grip due to material ageing – even when they are still within the wear limit – and must be replaced.

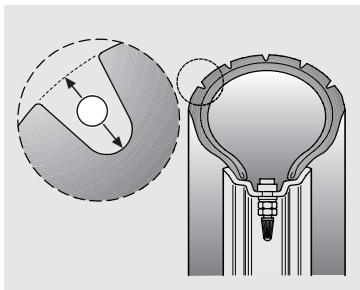
Always change a worn tyre. A tyre that becomes punctured in the tread area should be changed when the puncture is larger than 5 mm.

The wheel must be balanced after each tyre repair.

Use only tyres of the specified size, see page 70 (TECHNICAL DATA).

Never use tube tyres on tubeless tyre rims, or viceversa.

Always check that the caps are in place on the valves, or the tyres may deflate suddenly.



Tyre replacement and repair, and wheel servicing and balancing are delicate operations. They should be carried out using adequate tools and are best left to experienced mechanics. Have your tyres and wheels serviced at an **aprilia** Official Dealer or a specialised tyre repairer. New tyres may be coated with an oily film. Drive carefully until covering several kilometres. Never apply non-specific products to the tyres.

MINIMUM RECOMMENDED TREAD DEPTH (2)

Front tyre: 2 mm ( 3 mm)

Rear tyre: 2 mm ( 3 mm)

WARNING

Never exceed the maximum load allowed. Overloading the vehicle will impair stability and handling and may damage the tyres.



MAXIMUM LOAD 180 Kg.

TYRE PRESSURES

	FRONT	REAR
SOLO	2.1	2.3
FULL LOAD (rider + passenger)	2.2	2.6

After extensive testing, **aprilia** approved the tyres listed below for this model.

Use these tyres only:

	MAKE	SIZE	TYPE
FRONT	MICHELIN	120/70-15' 56S	GOLD STANDARD
REAR		140/60-14' 64S	GOLD STANDARD
FRONT	CHENG SHIN MAXXIS	120/70-15' 56R	M-6002
REAR		140/60-14' 64R	M-6002

MUFFLER/EXHAUST SILENCER

WARNING

Tampering with the noise control system is prohibited.

Owners are warned that the law may prohibit:

- The removal or disconnection, except for maintenance, repair or replacement operations, of any device or element of design incorporated into any new vehicle - to check the noise - before its sale or delivery to the final purchaser or while it is in use.
- The use of the vehicle after the removal or disconnection of this device or element of design.

Check the muffler/exhaust silencer and the silencer pipes for rust or holes. Ensure that the exhaust system works correctly.

If the exhaust system noise increases, contact an **aprilia** Official Dealer immediately.

▲ WARNING

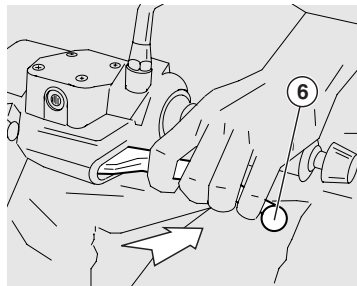
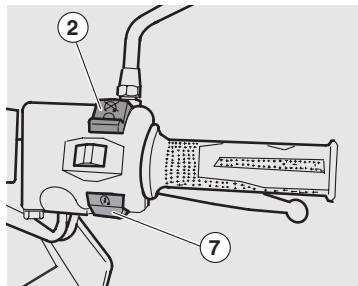
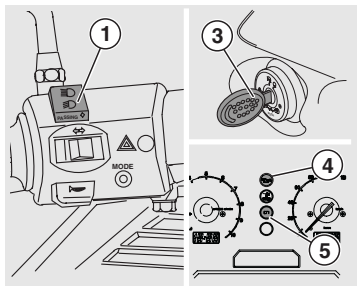
Check the vehicle before each ride to ensure safe riding. See the chart at the side (PRE-RIDE CHECKS CHART). Failure to do so may lead to severe injury or vehicle damage.

If you are not clear about the operation of the vehicle controls or believe that any vehicle components might be malfunctioning, do not hesitate to contact an **aprilia** Official Dealer.

A quick check is done in no time, but does wonders for your safety.

PRE-RIDE CHECKS CHART

Part	Action	Page
Front and rear disk brakes	Check for proper operation. Check brake lever free play and brake fluid level. Check for leaks and brake pad wear. Top up brake fluid level, if necessary.	27, 48
Brake levers	Make sure they move smoothly. Lubricate the joints, if necessary.	-
Throttle	Ensure that it turns smoothly. The throttle should open and close fully at all positions of the steering. Adjust and/or lubricate, if necessary.	55
Engine oil	Check and top up as required.	26
Wheels/tyres	Check tyre surface, inflation pressures. Check for wear or damage.	31
Steering	Steering should rotate smoothly and evenly. There should be no play or looseness.	51
Side stand and centre stand	The stand should operate smoothly and snap back in the rest position. Lubricate joints and connections, if necessary.	50
Fasteners	Make sure the fasteners are properly tightened. Adjust or tighten as required.	-
Fuel tank	Check fuel level and refuel if low. Check for leaks or blockages in the fuel system. Make sure the filler cap is tightened securely.	25,67
Coolant	Coolant level in the expansion tank must be between the "MIN" and "MAX" marks.	29
Engine kill switch (○ - ⊗)	Check for proper operation.	19
Lights, warning lights, injection light, horn and electrical devices	Check sound and visual devices for proper operation. Change bulbs or fix a failure, if necessary.	57-62
Injection pump	Check for proper operation.	-



STARTING

▲ WARNING


Exhaust emissions contain carbon oxide, which is a poisonous gas and extremely harmful if inhaled. Never operate the engine in an enclosed place. Make sure the area is well ventilated before starting the engine. Failure to heed these warnings may lead to loss of conscience or even death. Do not stand on the vehicle when starting the engine. Do not start the engine when the vehicle is on the side stand.

- ◆ Place the vehicle on the centre stand to start the engine.
- ◆ Make sure that the dimmer switch (1) is set to “☐”.
- ◆ Set the engine kill switch (2) to “○” (this only applies to some market versions).

- ◆ Turn the key (3) to set the ignition switch to “○”.

▲ WARNING

When you turn the key:



– the engine oil pressure light “” (4) on the dashboard will come on. The light should go out as soon as engine is started. Once all lights have gone out, the Engine Fuel Injection (EFI) (5) will remain on for about three seconds.

If the lights do not come on or fail to go out after three seconds, contact an **aprilia** Official Dealer.


- ◆ Pull a brake lever (6) to lock at least one of the wheels. Otherwise the safety system will cut power supply to the starter relay and the engine will not start.

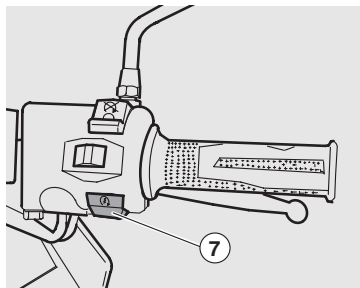
NOTE If the vehicle has been left unused for some time, follow the procedures

described at page 35 (STARTING AFTER A LONG PERIOD OF INACTIVITY).

NOTE Do not press the starter button “” for more than five seconds at a time (ten if you are starting the engine after a long period of inactivity) or it will draw too much current from the battery. If the engine does not start, wait ten seconds and then press the button “” again.

▲ WARNING

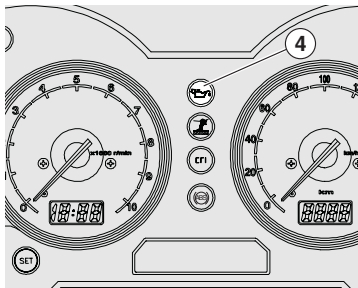
Avoid pressing the starter button “” (7) with the engine running or you will damage the starter.



- ◆ Do not open the throttle while pressing the starter button “⚡” (7) and release the button as soon as the engine starts.

⚠ WARNING

After the engine has started, the engine oil pressure light “⚡” (4) must go out. If the oil light stays on or comes on during normal operation, it means that oil pressure in the circuit is too low. When this is the case, stop the engine immediately and contact an **aprilia** Official Dealer. Do not use the vehicle when engine oil is low, or this will damage engine components.



- ◆ Keep at least one brake lever pulled and do not accelerate before moving off.

⚠ WARNING

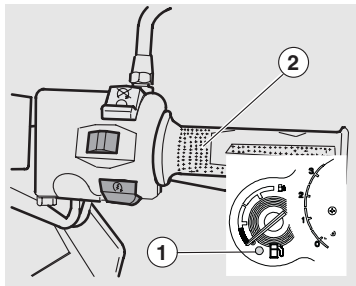
Do not move off abruptly after starting the engine from cold. Ride at low speed until covering several kilometres. This will allow to engine to warm up and reduce polluting emissions and fuel consumption.

DIFFICULT STARTING

The fuel system manages starting according to engine temperature, ambient temperature and pressure.

STARTING AFTER A LONG PERIOD OF INACTIVITY


When the vehicle has been left unused for some time, fuel may have drained off from some points of the fuel system and the engine may not start at the first attempt.



MOVING OFF - RIDING

NOTE Before riding the vehicle, carefully read the “Safe riding” chapter, see page 5 (SAFE RIDING).

⚠ CAUTION

If the low fuel light “” (1) on the dashboard comes on while riding, it means that the electric reserve device is operating and there are still 4 litres of fuel available. Refuel as soon as possible, see page 25 (FUEL).

⚠ WARNING

If you are riding solo, make sure that the passenger footrests are folded. While driving, keep your hands on the grips and your feet on the footrests.

NEVER DRIVE IN ANY POSITION OTHER THAN THOSE INDICATED.

If you are carrying a passenger, instruct him/her on the basic safety rules of pillion riding.

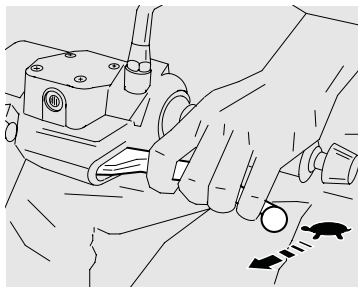
Ensure that the stand/stands is/are completely up before moving off.

Moving off:

- ◆ Release the throttle twistgrip (2) (Pos. A), apply the rear brake and take the vehicle off the stand.
- ◆ Mount on the vehicle. Keep one foot at least on the ground to help keep your balance.
- ◆ Adjust the rear-view mirrors.

⚠ WARNING

With the vehicle stopped, try to familiarise with the use of the mirrors. Convex mirrors provide a larger view, but any objects seen in these mirrors seem farther than they really are. It may take some time to learn to judge the distance of traffic behind accurately.

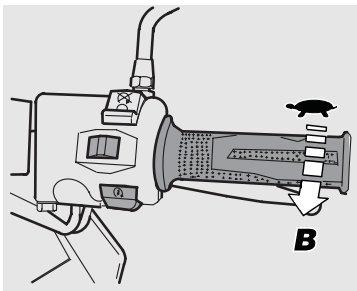


- ◆ Release the brake lever and accelerate, by turning the throttle twistgrip slightly; the vehicle will start moving.

⚠ CAUTION

Do not move off abruptly after starting the engine from cold.

Ride at low speed until covering several kilometres. This will allow the engine to warm up and reduce polluting emissions and fuel consumption.



⚠ WARNING

Avoid harsh accelerations and slow down gradually or you might lose control of the vehicle.

Avoid harsh braking. Slow down and apply both brakes. Adjust the pressure on the brakes to decelerate gradually.

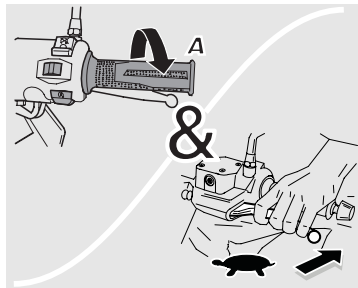
Using one brake only reduces braking force significantly and may lock a wheel resulting in loss of grip. To stop while riding uphill, close the throttle and simply use the brakes to keep the vehicle steady. Using the engine to keep the vehicle steady may result in the converter overheating.

⚠ WARNING

When approaching a bend, slow down or brake in good time. Take the bend at steady speed or accelerate slightly. Late braking may put the vehicle into a skid.

Use the brakes sparingly when riding downhill, or the brake lining may overheat and impair braking efficiency. Use engine braking and apply both brakes intermittently. Never ride downhill with the engine off. When riding on wet or slippery surfaces (such as snow, ice, mud), slow down, avoid harsh braking and do not swerve suddenly to avoid skidding.

Watch for skid hazards and changes in the road surface. Uneven road surfaces, rails, inspection covers, painted signals, construction site metal covers become slippery in rainy weather and must be negotiated carefully, smoothly and keeping the vehicle upright.



⚠ WARNING

Always signal your intention to change lane or direction in good time using the direction indicators. Avoid sudden manoeuvres. Switch off the direction indicators immediately after changing direction. Be very careful when overtaking or being overtaken.

When it rains, large vehicles lift surface water, which affects visibility. In addition, the air displacement may make you lose control of the vehicle.

RUNNING-IN

WARNING

After covering the first 1000 km (625 mi), perform the checks listed in the “post running-in” column of the “PERIODIC MAINTENANCE CHART” (see pages 41-42).

Failure to perform these checks may lead to personal injury to yourself or third persons, or vehicle damage.

Proper engine running-in is essential to preserving engine life and performance over time. Twisty roads and gradients are ideal to run in engine, suspension and brakes effectively.

NOTE Top acceleration and speed are only obtained after covering the first 1000 km (625 mi).

Observe the following instructions:

- ◆ Do not flip the throttle open abruptly when the engine is running at low speed, both during and after the running-in period.
- ◆ **0-100 km (0-62 mi)**
Apply the brakes gently and avoid hard, prolonged braking until covering the first 100 km (62 mi). This will allow the brake pad lining to wear in properly rubbing on the brake discs.
- ◆ **0-500 km (0-312 mi)**
Never exceed 80% of top speed during the first 500 km (312 mi).
- ◆ Vary speed frequently.
- ◆ After the first 1000 km (625 mi), progressively increase speed until reaching max. performance.

STOPPING

WARNING

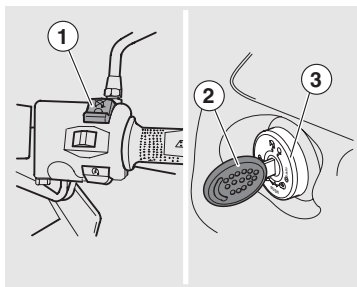
If possible, avoid stopping abruptly or slowing down suddenly. Brake progressively and in good time.


- ◆ Release the throttle twistgrip (**pos. A**) and apply the brakes gradually to stop the vehicle.
- ◆ When stopping for a short time, keep at least one brake on.

WARNING


Park the vehicle on firm and level ground to prevent it falling over. Do not lean the vehicle against walls and do not lay it down on the ground. Make sure that the vehicle, and in particular hot vehicle components, may not put the safety of persons and children at risk. Do not leave the vehicle unattended with the engine running or with the key inserted into the ignition switch. Do not sit on the vehicle when the stand is down.


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



- ◆ Set the engine kill switch (1) to “”.

CAUTION

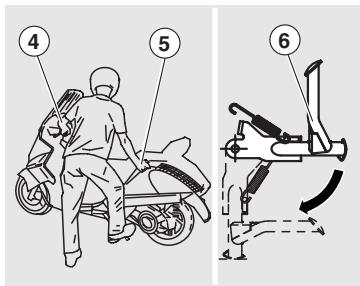
Leaving the ignition switch in position “” when the engine is stopped may flatten the battery.

- ◆ Turn the key (2) and set the ignition switch (3) to position “”.
- ◆ Place the vehicle on the stand, see page 39 (PLACING THE VEHICLE ON THE STAND).

CAUTION

Do not leave the key in the ignition switch.

- ◆ Lock the steering, see page 19 (STEERING LOCK) and extract the key.



PLACING THE VEHICLE ON THE STAND

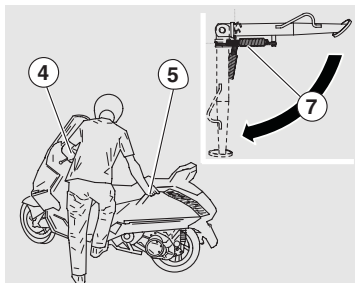
Read page 38 (STOPPING) carefully.

CENTRE STAND

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

SIDE STAND

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



- ◆ Push the side stand (7) fully down with your right foot.
- ◆ Lean the vehicle towards you until the stand rests on the ground.
- ◆ Steer the handlebar fully to the left.

WARNING

Make sure that the vehicle is stable.

SUGGESTIONS TO AVOID THEFT

NEVER leave the ignition key in the switch and always use the steering lock. Park the vehicle in a safe place, possibly in a garage or an area protected by security.

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

Make sure to have all the necessary documents and the Excise Duty stamp.

Write down your personal data and telephone number in this page. This will identify you as the owner in the event the motorcycle is stolen and then recovered.

SURNAME:

NAME:


ADDRESS:


.....

.....

PHONE NUMBER:

NOTE In most cases, stolen vehicles are identified through the data written on the Use and Maintenance Book.

NOTE The vehicle is fitted with an immobilizer anti-theft system  by

 an electronic system that prevents engine starting unless an authorised key is used - for added security. The immobilizer system is automatically activated each time the ignition key is removed from the switch.

Keep the second key in a safe place, as you cannot make any copy once lost. If this should be the case, many parts of the vehicle, locks included, will have to be changed.

Embedded in the key grip is a transponder, an electronic device that modulates the radiofrequency signal emitted by a special antenna built into the switch when the key is turned to on. The modulated signal acts as a "password" that tells the system control unit whether an authorised key is being used to start the engine.

MAINTENANCE

WARNING

Fire hazard.

Keep fuel and other flammable products away from electric components.

Before servicing or inspecting the motorcycle: stop the engine and remove the key from the ignition switch; allow for the engine and exhaust system to cool down; where possible, lift the motorcycle using adequate equipment placed on firm and level ground.

Make sure that the room is properly ventilated before proceeding. Be careful of any parts of the engine or exhaust system which may still be hot to the touch in order to avoid scalds or burns.

Never put any mechanical parts or other vehicle components in your mouth when you have both hands busy. None of the motorcycle components is edible. Some components are harmful to the human body or toxic.

WARNING

Unless expressly specified otherwise, motorcycle assemblies are refitted or re-assembled by reversing the removal or dismantling procedure.

Wear latex gloves before servicing the vehicle



Normally, the owner can take care of routine maintenance. However, some maintenance operations require specific tools and are best left to experienced mechanics.

If you need assistance or technical advice, contact an **aprilia** Official Dealer for guaranteed accurate, prompt service.

"We recommend having the vehicle road-tested at the Dealer after repair or servicing. In addition, perform the "Pre-ride checks" after any maintenance operation, see page 33 (PRE-RIDE CHECKS CHART).

PERIODIC MAINTENANCE CHART

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

Components	Post running-in [1000 km (625 mi)]	Every 6000 km (3750 mi) or 8 months	Every 12000 km (7500 mi) or 16 months
Carburetor – idle rpm (CO)		①	
Throttle cable (adjustment)	①	①	
Converter belt		③	
Steering bearings and steering	①	①	
Wheel bearings		①	
Fuel filter		every 24000 km (15000 mi): ①	every 48000 km (30000 mi): ③
Engine oil filter		every 6000 km: ③	
Valve clearance		④	then after 18000 Km
Brake systems	①	①	
Cooling system	①	①	
Stop light switches		①	
Brake fluid	①	every 6000 km (3750 mi): ①/ every 2 years: ③	
Coolant	①	every 2000 km (1250 mi): ①/ every 2 years: ③	
Engine oil		every 3000 km: ①/every 6000 km (3750 mi): ③	
Fork oil		every 30000 km (18750 mi) or every 4 years: ③	
Transmission oil	③	①	every 24000 km: ③
Converter rollers and plastic guides			①
Wheels / tyres and inflation pressure	①	①	
Battery terminals torque	①		
Nuts and bolts torque	①	①	
Brake fluid bleeding	①		
Fuel lines	①	①	every 4 years: ③

① = check and clean, adjust, lubricate or replace if necessary. ② = clean; ③ = replace; ④ = adjust.

Shorten maintenance intervals if you are riding in rainy and dusty conditions or on loose road surfaces.

OPERATIONS TO BE CARRIED OUT BY THE **aprilia** Official Dealer (CAN BE CARRIED OUT BY THE USER AS WELL)

Components	Post running-in [1000 km (625 mi)]	Every 6000 km (3750 mi) or 8 months	Every 12000 km (7500 mi) or 16 months
Battery – Electrolyte level	①	①	
Spark plug		①	③
Injection – Idle rpm	①		①
Air cleaner		①	③
Throttle operation	①	①	
Brake locking operation	①	①	
Lighting system	①	①	
Brake fluid	①	①	
Coolant	①	every 2000 km (1250 mi): ①	
Engine oil	every 1000 km (625 mi): ①		
Beam setting – operation		①	
Wheels / tyres and inflation pressure	every month: ①		
Battery terminals torque	①		
Suspensions	①	①	
Engine oil pressure light	at every start: ① (*)		
Front and rear brake pads wear	①	every 2000 km (1250 mi): ①	
① = check and clean, adjust, lubricate or replace if necessary. ② = clean; ③ = replace; ④ = adjust. Shorten maintenance intervals if you are riding in rainy and dusty conditions or on loose road surfaces.			

(*) To check these components see pages 15-16: INSTRUMENTS AND INDICATORS TABLE.

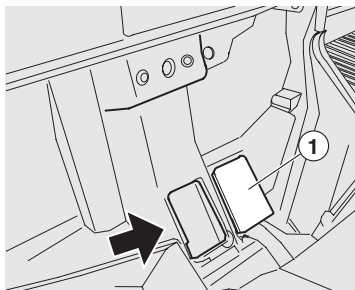


IDENTIFICATION DATA

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.

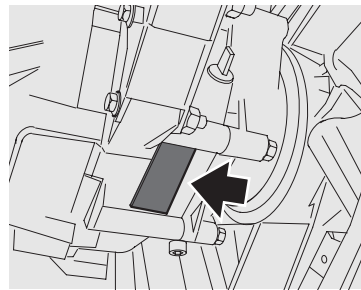
NOTE Altering the identification numbers is a legal offence. Altering the frame number invalidates the guarantee.



FRAME NUMBER

The frame number is stamped on the central frame tube. To expose the frame number, open the guard (1).

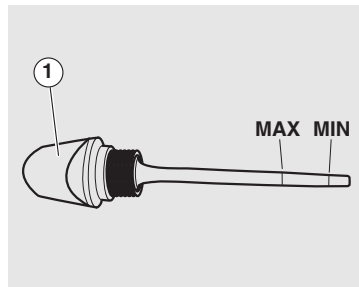
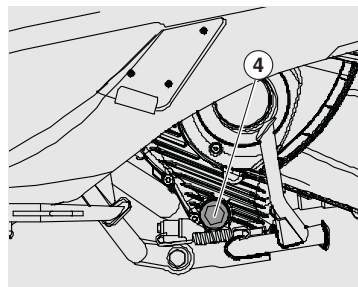
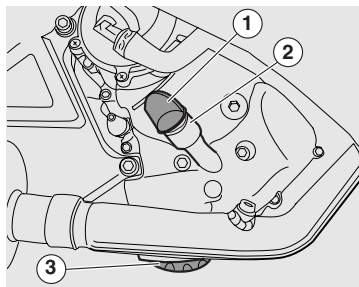
Frame no _____



ENGINE NUMBER

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

Engine no _____



CHECKING AND TOPPING UP ENGINE OIL LEVEL

Read page 26 (LUBRICANTS), page 40 (MAINTENANCE) and page 74 (LUBRICANT CHART).

CHECKING LEVEL

NOTE Place the vehicle on firm and level ground.

- ◆ Place the vehicle on the centre stand.

⚠ WARNING

The engine and exhaust system components stay hot for some time even after the engine has been stopped. Wear heat gloves before handling these components or allow for the engine and the exhaust system to cool down.

- ◆ Stop the engine and let it cool down. This will allow the oil to settle into the oil pan and cool down.

NOTE Accurate oil level measurement is only ensured when the above procedures are observed.

- ◆ Unscrew and extract the plug/dipstick (1).
- ◆ Clean the part in contact with the oil with a clean cloth.
- ◆ Tighten the plug/dipstick (1) fully into the filler hole (2).
- ◆ Extract the plug/dipstick (1) again and check oil level on the dipstick:

MAX = maximum level;

MIN = minimum level.

The difference between the **MAX** and **MIN** level is about:

– 400 cc

- ◆ Correct level is achieved when the oil reaches or is just below the dipstick **MAX** level mark.

⚠ CAUTION

Oil level must be between the **MAX** and **MIN** level mark. Incorrect oil level will cause severe engine damage.

- ◆ Top up if needed.

TOPPING UP

- ◆ Pour a small quantity of oil into the filler opening (2). Allow one minute for oil to flow into the crankcase.
- ◆ Check level and top up if needed.
- ◆ Top up with small quantities of oil until obtaining the correct level.
- ◆ When finished, tighten the plug/dipstick (1).

⚠ WARNING

Do not use the vehicle when lubricant levels are low or lubricant has become contaminated. Use specified lubricants only. Improper lubrication will lead to working parts fretting, resulting in irreparable damage.

CHANGING ENGINE OIL AND THE ENGINE OIL FILTER

Read page 26 (FUEL), page 40 (MAINTENANCE) and page 74 (LUBRICANT CHART).

NOTE Place the vehicle on firm and level ground.

- ◆ Place the vehicle on the centre stand.

WARNING

The engine and exhaust system components stay hot for some time even after the engine has been stopped. Wear heat gloves before handling these components or allow for the engine and the exhaust system to cool down.

- ◆ Stop the engine and let it cool down. This will allow the oil to settle into the oil pan and cool down.

NOTE Accurate oil level measurement is only ensured when the above procedures are observed.

Have the oil changed at an **aprilia** Official Dealer

- ◆ Unscrew and extract the plug/dipstick (1).
- ◆ Unscrew and remove the oil cartridge filter (3) from the engine.

WARNING

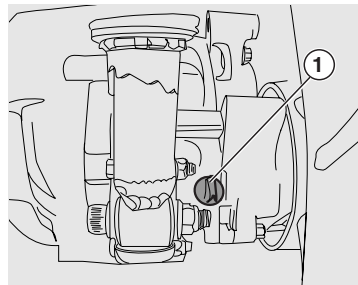
Do not use the vehicle when lubricant levels are low or lubricant has become contaminated. Use specified lubricants only. Improper lubrication will lead to working parts fretting, resulting in irreparable damage.

WARNING

Used oil contains substances that are very dangerous for the environment. Have the oil changed at an **aprilia** Official Dealer, who will dispose of used oil in accordance with applicable regulations.

- ◆ Unscrew and remove the oil drain plug (4) and then drain all engine oil. Install a new oil cartridge filter (3). Lubricate the filter O-rings before installation.
- ◆ Screw and tighten the engine oil drain plug (4).
- ◆ Pour about 1700 cc oil into the filler opening (2).
- ◆ Screw and tighten the oil dipstick (1).
- ◆ Start the engine and let it run for several minutes. Stop the engine and let it cool down. Check engine oil level using the dipstick (1) and top up as required without exceeding the MAX mark.

For top-ups and oil changes, use synthetic oil SAE 5/W 40 type exceeding the API ST specification. Always use new oil.



CHECKING AND TOPPING UP TRANSMISSION OIL LEVEL

Read page 26 (LUBRICANTS), page 40 (MAINTENANCE) and page 74 (LUBRICANT CHART).

NOTE Place the vehicle on firm and level ground.

- ◆ Place the vehicle on the centre stand.

WARNING

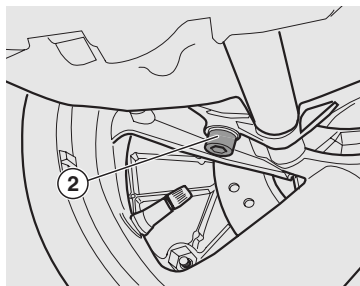
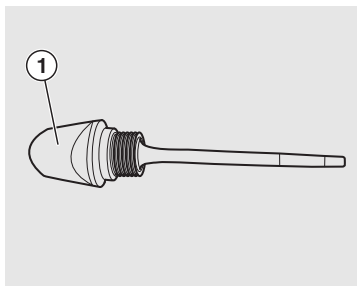
The engine and exhaust system components stay hot for some time even after the engine has been stopped. Wear heat gloves before handling these components or allow for the engine and the exhaust system to cool down.

- ◆ Unscrew and extract the plug/dipstick (1).
- ◆ Clean the part in contact with the oil with a clean cloth.
- ◆ Tighten the plug/dipstick (1) fully into the filler hole.
- ◆ Extract the plug/dipstick (1) again and check oil level on the dipstick:

MAX = maximum level;

MIN = minimum level.

- ◆ Correct level is achieved when the oil reaches or is just below the dipstick MAX level mark.



▲ WARNING

Oil level must be between the MAX and MIN level mark. Incorrect oil level will cause severe engine damage.

- ◆ Top up if needed.

TOPPING UP

- ◆ Pour a small quantity of oil into the filler opening. Allow one minute for oil to flow into the crankcase.
- ◆ Check level and top up if needed.
- ◆ Top up with small quantities of oil until obtaining the correct level.
- ◆ When finished, tighten the plug/dipstick (1).
USE SAE 80W/90 OIL EXCEEDING THE API GL3 SPECIFICATION.

▲ WARNING

Do not use the vehicle when lubricant levels are low or lubricant has become contaminated. Use specified lubricants only. Improper lubrication will lead to working parts fretting, resulting in irreparable damage.

CHANGING TRANSMISSION OIL

Read page 26 (LUBRICANTS), page 40 (MAINTENANCE) and page 74 (LUBRICANT CHART).

NOTE Place the vehicle on firm and level ground.

- ◆ Place the vehicle on the centre stand.

▲ WARNING

The engine and exhaust system components stay hot for some time even after the engine has been stopped. Wear heat gloves before handling these components or allow for the engine and the exhaust system to cool down.

- ◆ Stop the engine and let it cool down. This will allow the oil to settle into the oil pan and cool down.

NOTE Accurate oil level measurement is only ensured when the above procedures are observed.

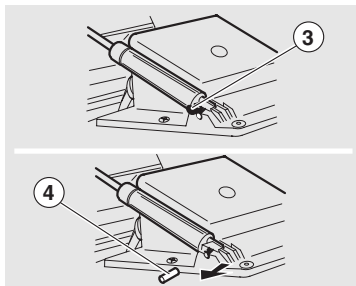
Have oil changed at an **aprilia** Official Dealer.

▲ WARNING

Make sure not to spill oil on the rear brake disc while changing oil.

- ◆ Unscrew and extract the plug/dipstick (1).
- ◆ Release and remove the transmission oil drain screw (2).
- ◆ Let all transmission oil drain out. Collect it in a container with adequate capacity.
- ◆ Fit and tighten the transmission oil drain screw (2).
- ◆ Fill about 250 cc of the specified oil into the transmission.
- ◆ Screw and tighten the plug/dipstick (1).
- ◆ Check transmission oil level again using the dipstick (1). If necessary, top up without exceeding the MAX mark.

For top-ups and oil changes, use new oil specified in the LUBRICANT CHART. Always use new oil.



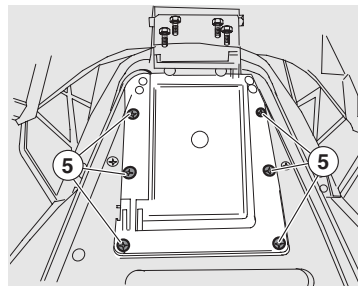
AIR CLEANER

Read page 40 (MAINTENANCE) carefully.

The air cleaner should be cleaned and checked every 6000 km (3750 miles), depending on usage conditions.

If you use the vehicle in rainy or dusty conditions, the air cleaner should be cleaned or changed more frequently.

The filtering element must be removed before cleaning



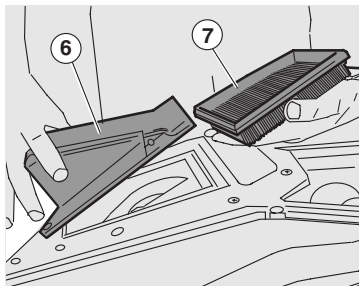
REMOVAL

- ◆ Place the vehicle on the centre stand.
- ◆ Raise saddle (UNLOCKING/LOCKING THE SADDLE).
- ◆ Remove the safety clip (3).
- ◆ Slide out the air cleaner cover piston pin (4), as shown in the figure.

▲ WARNING

During disassembly, take care to keep the saddle raised not to let it fall down.

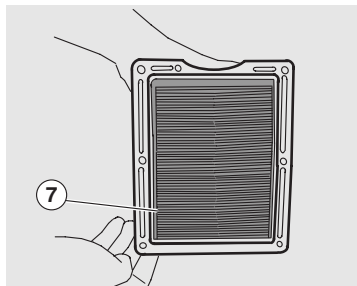
- ◆ Raise the saddle, undo and remove the six screws (5) fixing air cleaner cover to the plastic part under the saddle.



CAUTION

When raising the air cleaner cover, take care not to disconnect the intake union from filter housing.

- ◆ Raise air cleaner cover (6) with care.
- ◆ Remove the air cleaner (7).



CLEANING

WARNING

Fire and explosion hazard! Never wash the filtering element in petrol or flammable solvents.

Do not use additives or fluid detergents, as this would lead to moisture build-up inside the filter casing. Use compressed air only.

- ◆ Blow the filtering element (7) with compressed air.

CAUTION

NEVER SMEAR THE FILTERING ELEMENT WITH OIL. Any oil would affect cleaner and engine operation.

CAUTION

When refitting the cleaner (7), install it inside the filter cover (6) (take care that seal is perfectly seated), then screw cover to filter body again.

CHECKING THE BRAKE PADS FOR WEAR

Read page 27 (BRAKE FLUID - Recommendations), (DISC BRAKES) and page 40 (MAINTENANCE).

NOTE The following instructions apply to both braking systems.

Check the brake pads for wear after the first 1000 km (625 miles) and every 2000 km (1250 miles) afterwards. The rate at which brake pads will wear depends on usage, riding style and road surface condition.



▲ WARNING

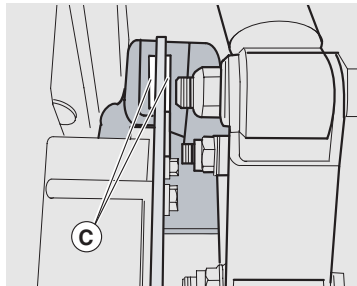
Inspect the brake pads before each ride.

This is a quick inspection procedure to determine brake pads wear:

- ◆ Place the vehicle on the centre stand.
- ◆ Visually inspect the area between brake disc and brake pads proceeding as follows.

FRONT BRAKE CALIPERS

- Check the pads of both calipers looking from the bottom up at the front end.

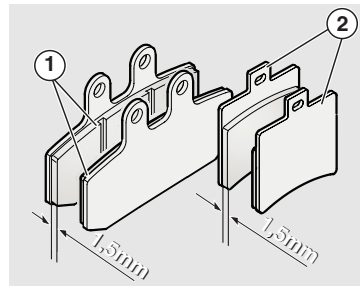


REAR BRAKE CALIPER

- Check both pads (C) looking from the bottom up at the rear end.

▲ WARNING

If brake pads were allowed to wear down until uncovering the metal substrate, metal-to-metal contact with the brake disc would lead to rattle and the brake calliper sparking. This will result in loss of braking and brake disc damage, causing a dangerous riding condition.

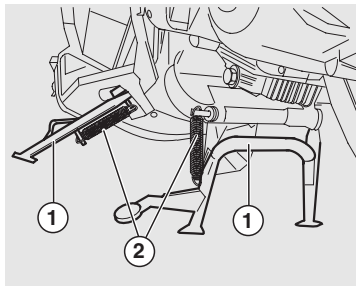


- ◆ When the lining material of even just one of the brake pads is worn down to nearly 1.5 mm, have both brake pads changed.

- Front brake pads (1).
- Rear brake pads (2).

▲ WARNING

Have the parts replaced at an *aprilia* Official Dealer.



CHECKING THE STAND

Read page 40 (MAINTENANCE) carefully.

WARNING

FOR THE SIDE STAND ONLY

Caution: the vehicle might fall or tip over. The side stand folds up automatically when you put the vehicle upright.

NOTE The following instructions apply to both stands.

The stand (1) must rotate freely.

Check for the following:

- ◆ The springs (2) must not be damaged, worn, oxidised or weakened.
- ◆ The stand must rotate freely. Grease the joint if needed, see page 74 (LUBRICANT CHART).

CHECKING THE SWITCHES

The vehicle is fitted with two switches:

- Brake light switch on the rear brake lever (integral braking system).
 - Brake light switch on the front brake lever.
- If you need assistance or technical advice, contact your **aprilia** Official Dealer for guaranteed quality service.



CHECKING THE FRONT AND REAR SUSPENSION

Read page 40 (MAINTENANCE) carefully.

CAUTION

Have front suspension oil changed at an **aprilia** Official Dealer, who can ensure you an accurate and prompt service.

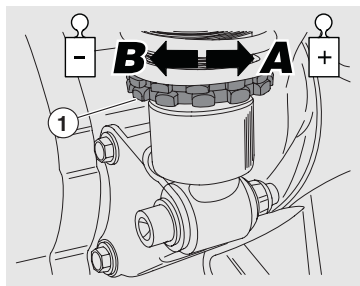
Have the front suspension oil changed every 30000 km (18750 miles) or every 4 years.

Perform the following checks after the first 1000 km (625 miles) and every 6000 km (3750 miles) afterwards:

- ◆ Keep the front brake lever activated and press down repeatedly on the handlebar to compress the front fork.
- ◆ The front fork should compress in a smooth motion. Inspect the fork legs for any traces of oil.
- ◆ Ensure that all parts are properly tightened and check the articulated joints of the rear and front suspension for proper operation.

CAUTION

In the event of malfunction or if the suspension needs expert servicing, contact an **aprilia** Official Dealer.



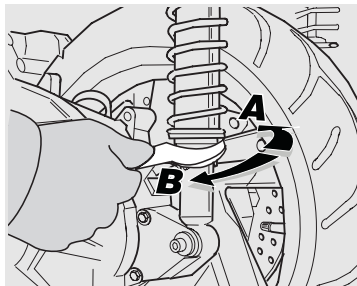
REAR SUSPENSION ADJUSTMENT

The rear suspension is managed by two shock absorbers that control compression and rebound damping. The shock absorbers are connected to the engine through silent blocks.

Factory setting is designed to suit riders weighing about 70 Kg. Turn the ring nut (1) using the supplied locking wrench to change setting so as to meet individual requirements (see chart).

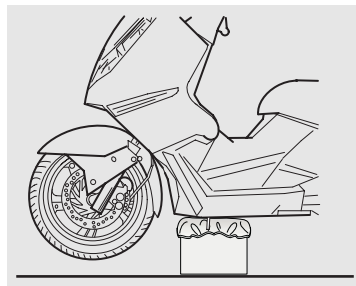
⚠ CAUTION

Both shock absorbers must be set to the same setting.



REAR SUSPENSION SPRING PRELOAD SETTING CHART

Adjusting ring nut	Rotate (arrow A)	Rotate (arrow B)
Effect	Increases spring preload	Reduces spring preload
Vehicle setting	Stiffer	Softer
Road surface	Smooth or normal	Uneven
Recomm. when	Carrying a passenger	Riding solo



CHECKING THE STEERING

Read page 40 (MAINTENANCE) carefully.

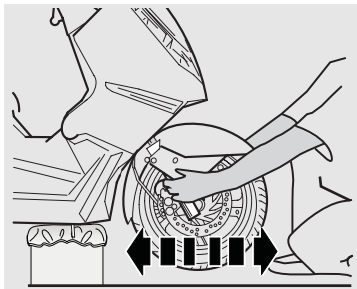
Check the steering for play from time to time.

Check as follows:

- ◆ Place the vehicle on the centre stand.

NOTE Provide a support of adequate height and width to support the vehicle safely.

- ◆ Place the support under the vehicle. Put some padding on the support to avoid damage. The support must prevent the vehicle from falling, while the front wheel should be able to move freely.



⚠ CAUTION

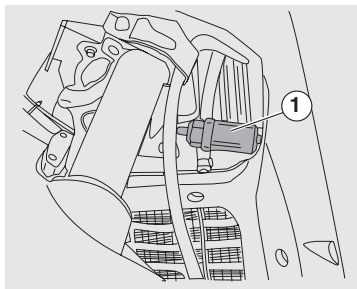
Ensure that the vehicle is supported safely.

- ◆ Rock the fork back and forth in the direction of travel.

⚠ CAUTION

While rocking the fork, watch for looseness in the stand. Repeat several times.

- ◆ If there is too much play, have the vehicle serviced at an **aprilia** Official Dealer.



STEERING DAMPER

Read page 40 (MAINTENANCE) carefully.

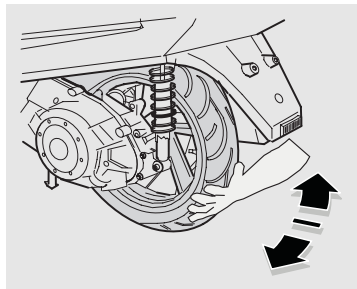
The steering damper can be adjusted in order to achieve the correct setting when carrying the full load (rider + passenger + luggage).

Adjust as follows:

- ◆ Rotate the ring nut (1) clockwise for a harder damping.

⚠ CAUTION

Tightening the ring nut gives a stiffer setting. As a result, the effort required to rotate the handlebar will be greater and handling will be harder.



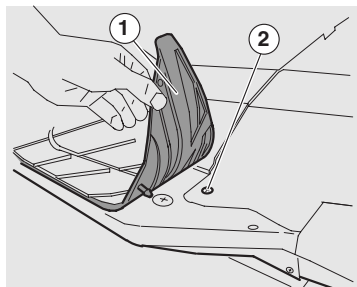
CHECKING ENGINE PIVOT SHAFT

Read page 40 (MAINTENANCE) carefully.

Check for play in the engine pivot shaft bushes at regular intervals.

Check as follows:

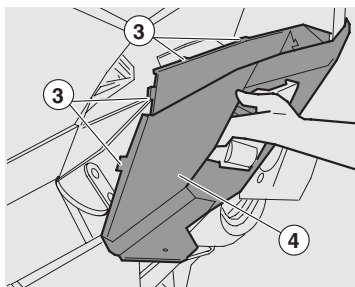
- ◆ Place the vehicle on the centre stand.
- ◆ Rock the wheel from side to side.
- ◆ If you feel any play, have the vehicle serviced at an **aprilia** Official Dealer.



REMOVING THE RIGHT AND LEFT INSPECTION COVERS

Read page 40 (MAINTENANCE) carefully.

- ◆ Place the vehicle on the centre stand.
- ◆ Lift by hand RH or LH mat (1) and remove it.
- ◆ Release and remove the screw (2).



⚠ CAUTION

Proceed with the utmost care.

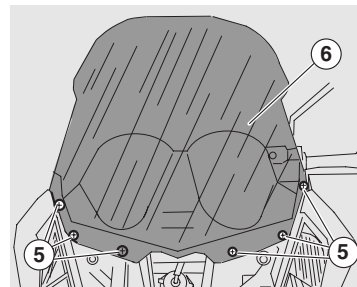
Do not damage the fixing tabs (3) and their seats.

Handle plastic and paint-finished components with care to avoid scratching or damage.

- ◆ Using a screwdriver, force up inspection cover (4) until it comes out of its seat.

⚠ CAUTION

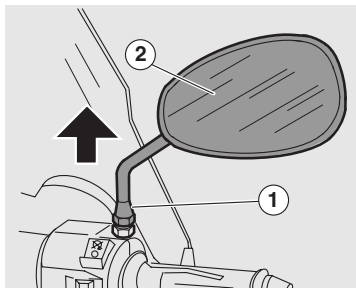
Ensure that the tabs locate correctly into their seats on refitting.



REMOVING THE FRONT FAIRING

Read page 40 (MAINTENANCE) carefully.

- ◆ Place vehicle on the center stand.
- ◆ Remove the front cover, see page 54 (REMOVING THE FRONT COVER).
- ◆ Undo and remove the six screws (5) fixing front fairing to vehicle.
- ◆ Remove front fairing (6).



REMOVING THE REAR-VIEW MIRRORS

Read page 40 (MAINTENANCE) carefully.

The following instructions apply to both rear-view mirrors.

- ◆ Place the vehicle on the centre stand.

NOTE Make sure the individual components of the left and right rear-view mirrors do not become mixed up. Store them away separately.

- ◆ Unscrew the cover (1).

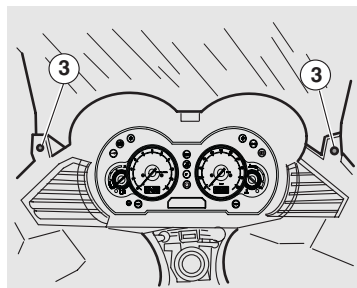
▲ CAUTION

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

▲ CAUTION

Handle plastic and paint-finished components with care to avoid scratching or damage.

- ◆ Lift the rear-view mirror (2) to remove.
- ◆ Collect the cover (1).



REMOVING THE FRONT COVER

Read page 40 (MAINTENANCE) carefully

- ◆ Place the vehicle on the centre stand.
- ◆ Release and remove the two screws (3).

▲ CAUTION

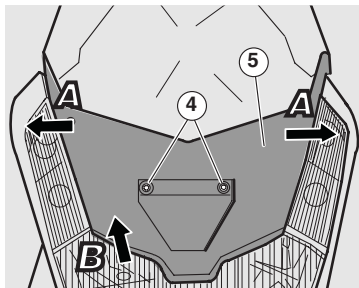
Proceed with care.

Do not damage the fixing tabs and their seats. Handle plastic and paint-finished components with care to avoid scratching or damage.

- ◆ Release and remove the two screws (4).

▲ CAUTION

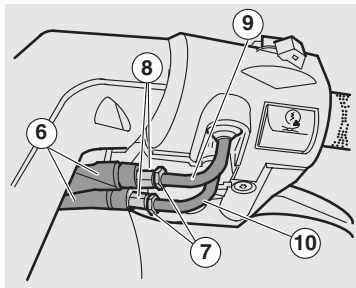
Pay attention to the fixing tab clips. They might come loose during removal.



- ◆ Slightly move the front cover wings apart, as shown by arrows “A” so as to release the meshing tabs from front fairing.
- ◆ Slightly raise cover lower part, as shown by arrow “B”.
- ◆ Pull the front cover (5) gently to remove.

⚠ CAUTION

Ensure that the tabs with the clips locate correctly into their seats on refitting.



THROTTLE TWISTGRIP ADJUSTMENT

Read page 40 (MAINTENANCE) carefully.

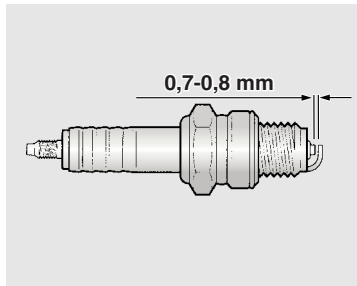
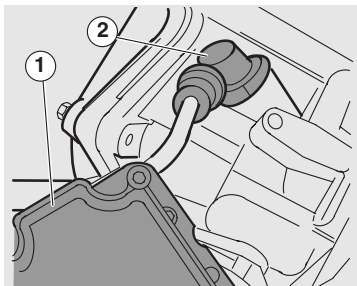
There should be 2–3 mm free play in the throttle twistgrip cable (measured at twistgrip edge).

If not so:

- ◆ Place the motorcycle on the centre stand.
- ◆ Take off the rubber gaiter (6).
- ◆ Loosen the locknut (7).
- ◆ Rotate the adjuster (8) until setting the specified free play.
- ◆ After adjusting, tighten the locknut (7) and check free play again.
- ◆ Refit the rubber gaiter (6).
- ◆ Cable (9) opens the throttle.
- ◆ Cable (10) closes the throttle.

⚠ WARNING

Turn the handlebar and ensure that idling speed is unaffected by handlebar movement. Open the throttle and ensure that the twistgrip springs back to the closed position smoothly and gradually when released.



SPARK PLUG

Read page 40 (MAINTENANCE) carefully.

Check the spark plug every 6000 km (3750 mi) and change it every 12000 Km (7500 mi).

At regular intervals, remove the spark plug and clean off any carbon deposits or replace as required.

In order to gain access to the spark plug:

- ◆ Remove the left inspection cover, see page 53 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).

Removal and cleaning:

WARNING

To avoid any burns, allow the engine and muffler to cool down completely before proceeding.

- ◆ Move away the coolant pipe (1) that might interfere with the following operations.
- ◆ Pull the HT cable cap (1) off the spark plug.
- ◆ Remove any traces of dirt from the spark plug base. Fit the suitable spark plug tool (supplied with the tool kit) to the spark plug. Unscrew and extract the spark plug. Ensure that no dust or foreign matter fall into the cylinder.
- ◆ Check electrode and insulating material for carbon deposits or corrosion. Clean off deposits with a metal wire or wire brush, if needed.

- ◆ Blow with an air line to prevent residues from entering the engine. A spark plug must be changed when: the insulator is cracked; the electrodes show traces of corrosion or exceeding deposits.
- ◆ Check the electrode gap with a feeler gauge. Electrode gap should be 0.7 – 0.8 mm. If it needs adjusting, bend the earth electrode carefully.
- ◆ Make sure the washer is in good condition. Fit the washer and screw the spark plug finger-tight to avoid damaging the thread.
- ◆ Tighten using the supplied tool. Screw in the spark plug by one half turn to compress the washer.

Spark plug torque wrench setting:
12 ÷ 14 Nm (1.2 ÷ 1.4 kgm).

WARNING

It is essential to tighten the spark plug properly. A loose spark plug will cause engine overheating and result in severe damage.

Replace with recommended spark plugs only. See page 70 (TECHNICAL DATA). Using a spark plug other than specified might compromise engine performance and life.

- ◆ Refit the spark plug cap securely onto the spark plug, so that it will not work itself loose when exposed to engine vibration.
- ◆ Refit the left inspection cover, see page 53 (REMOVING THE RIGHT AND LEFT INSPECTION COVERS).

BATTERY

Read page 40 (MAINTENANCE) carefully.

Check battery fluid level and terminal torque after the first 1000 km (625 miles) and every 6000 km (3750 miles) afterwards.

WARNING

FIRE HAZARD!

Keep fuel and other flammable products away from electric components.

Battery fluid is toxic and caustic. It contains sulphuric acid and contact with skin will cause severe burns. Wear protective clothing and a face or eye protection before servicing the battery. In case of contact with skin, rinse with plenty of fresh water.

In case of contact with eyes, rinse with plenty of water for fifteen minutes and contact an eye specialist without delay.

If battery fluid is accidentally swallowed, drink abundant water or milk, then continue with magnesia milk or vegetable oil and seek medical advice immediately.

The battery gives off explosive gases. Keep away from flames and sources of ignition or heat. Do not smoke near the battery.


Provide proper ventilation while the battery is under charging. Do not inhale the gases produced by the battery under charging.

KEEP AWAY FROM CHILDREN.

Avoid leaning the vehicle at steep angles or you might spill battery fluid.

WARNING

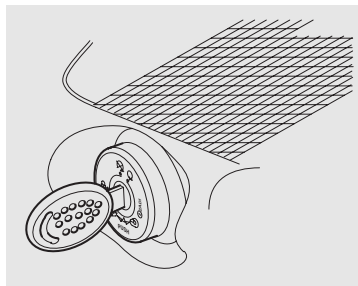
Never invert the battery cables.

Ensure that the ignition switch is in position “

Disconnect in the reverse order.

Battery fluid is corrosive.

Do not spill it, especially on plastic parts. If you have installed a “MAINTENANCE-FREE” battery, use a specific battery charger to recharge it (this will be the constant voltage/amperage or constant voltage type). Using a conventional battery charger might damage your maintenance-free battery.



LONG INACTIVITY OF THE BATTERY

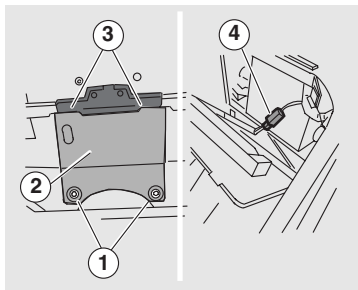
When the vehicle is left unused for over a fortnight, charge the battery to avoid sulphation, see page 59 (CHARGING THE BATTERY).

- ◆ Remove the battery, see page 58 (REMOVING THE BATTERY) and store it in a cool, dry place.

To avoid degradation in the wintertime or while the motorcycle is stored away, check battery charge at regular intervals (monthly).

- ◆ Charge the battery fully at normal charge rate, see page 59 (CHARGING THE BATTERY).

If you are leaving the battery fitted in the motorcycle, disconnect the leads from the terminals.

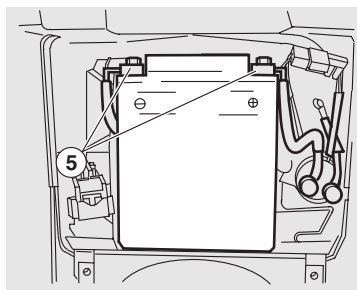


REMOVING THE BATTERY COVER

Read page 57 (BATTERY).

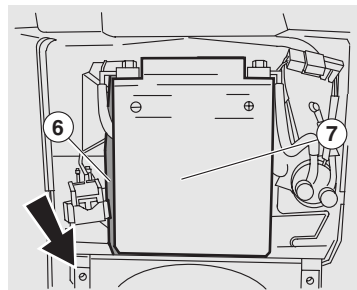
NOTE Place the vehicle on firm and level ground.

- ◆ Make sure that the ignition switch is in position “X”.
- ◆ Raise the saddle, see page 23 (UNLOCKING/LOCKING THE SADDLE).
- ◆ Remove the moquette carpet from the helmet compartment.
- ◆ Loosen and remove the two screws (1).
- ◆ Remove battery cover from below (2). Take care not to damage the upper tabs (3).
- ◆ Disconnect helmet compartment light connector (4).
- ◆ Remove battery cover (2).



CHECKING AND CLEANING THE BATTERY LEAD CONNECTIONS AND TERMINALS

- ◆ Remove the battery cover, see (REMOVING THE BATTERY COVER) at the side.
- ◆ Ensure that the ignition switch is in the “X” position.
- ◆ Make sure that the battery terminals (5) are:
 - in good condition (i.e. show no corrosion deposits);
 - coated with neutral grease or Vaseline.
- If necessary:
 - ◆ Disconnect the negative cable (-) first and then the positive (+) cable.
 - ◆ Clean off any corrosion deposits with a wire brush.
 - ◆ Reconnect the positive cable (+) first and then the negative cable (-).
 - ◆ Coat the battery lead connections and terminals with neutral grease or Vaseline.



REMOVING THE BATTERY

- ◆ Remove the battery cover, see (REMOVING THE BATTERY COVER) at the side.
- ◆ Remove the battery breather hose (6).
- ◆ Rotate the battery (7) rightwards (as indicated by the arrow) to take it out of its mount.
- ◆ Disconnect the negative cable (-) first and then the positive (+) cable.
- ◆ Remove battery (7) from its seat and place it on a flat surface, in a dry environment.

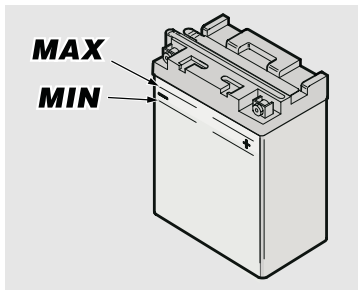
⚠ WARNING

Once removed, store the battery in a safe place, out of the reach of children.

- ◆ Refit the battery cover, see (REMOVING THE BATTERY COVER) at the side.

⚠ CAUTION

Handle with care when the breather hose is removed, or battery fluid might spill out.



CHECKING BATTERY FLUID LEVEL

To check the battery fluid level:

- ◆ Remove the battery cover, see page 58 (REMOVING THE BATTERY COVER).
- ◆ Make sure that battery fluid level is between the MIN and MAX marks on the battery.

If not so:

- ◆ Remove the battery caps.

CAUTION

Top up with distilled water only. Do not exceed the MAX mark, because battery fluid expands when the battery is under charging.

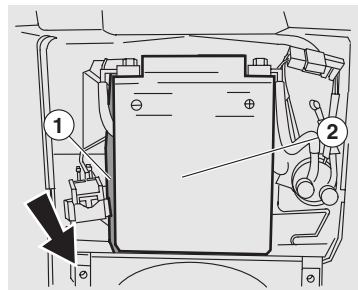
- ◆ Add distilled water until achieving correct level.

CHARGING THE BATTERY

- ◆ Remove the battery, see page 58 (REMOVING THE BATTERY).
- ◆ Remove the battery caps.
- ◆ Check battery fluid level, see (CHECKING BATTERY FLUID LEVEL) at the side.
- ◆ Connect the battery to a battery charger.
- ◆ Recommended charge rate is 1/10th of battery capacity.
- ◆ After charging the battery, check battery fluid level again. Top up with distilled water if needed.
- ◆ Refit the caps.

CAUTION

The battery keeps producing gases for some time after the battery charger has been switched off. Allow 5-10 minutes before proceeding to refit the battery.



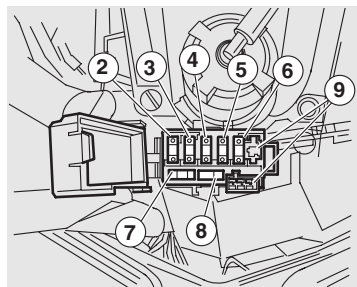
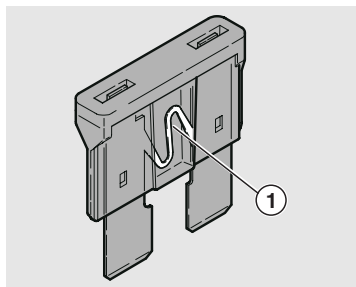
INSTALLING THE BATTERY

- ◆ Remove the battery cover, see page 58 (REMOVING THE BATTERY COVER).
- ◆ Place the battery into its mount.

CAUTION

Make sure to connect the battery breather hose, to prevent sulphuric acid vapours from corroding electric components, paint-finished and rubber parts, and seals.

- ◆ Connect the positive cable (+) first and then the negative cable (-). Tighten terminal screws.
- ◆ Coat the battery lead connections and terminals with neutral grease or Vaseline.
- ◆ Connect the battery breather hose (1).
- ◆ Refit the battery cover, see page 58 (REMOVING THE BATTERY COVER).



REPLACING THE FUSES

Read page 40 (MAINTENANCE) carefully.

⚠ CAUTION

Never attempt to repair a defective fuse. Never use a fuse of a rating other than specified. This could damage the electrical system or cause a short circuit, with the risk of fire.

NOTE When a fuse fitted in a particular position keeps blowing frequently, there might be a short circuit or overloading. When this is the case, contact an **aprilia** Official Dealer.

Checking the fuses is recommended whenever an electrical component fails to operate or is malfunctioning, or when the engine does not start.

Check the 3-A and 15-A fuses first and then the 30-A fuses.

Inspection:

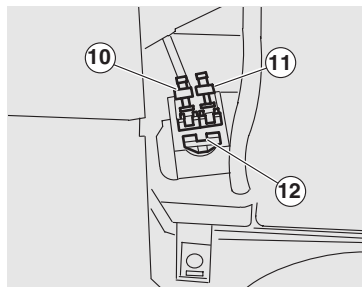
- ◆ Remove the battery cover, see page 58 (REMOVING THE BATTERY COVER) or the front cover, see page 54 (REMOVING THE FRONT COVER).
- ◆ Extract all fuses one by one and check for blown fuses. A blown fuse is identified by the link bar (1) in the centre being divided.
- ◆ When you find a blown fuse, determine and rectify the cause (if possible) before fitting a new fuse.
- ◆ Replace any failed fuses with a fuse of equal current rating.

NOTE When you use one of the spare fuses, remember to add a new fuse of equal rating to the fuse box.

- ◆ Refit the battery cover, see page 58 (REMOVING THE BATTERY COVER) or the front cover, see page 54 (REMOVING THE FRONT COVER).

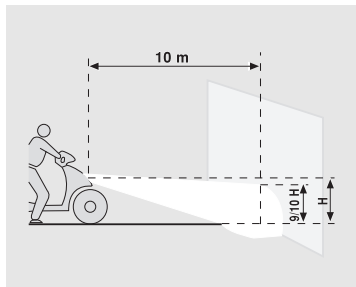
ARRANGEMENT OF AUXILIARY FUSES (FRONT COVER)

- 15-A fuse (2)
From voltage regulator to: fuel injection, brake light/starting logic (seat A in the wiring diagram).
- 15-A fuse (3)
From ignition switch to: engine kill logic, brake lights (seat B in the wiring diagram)
- 15-A fuse (4)
From ignition switch to: lights, horn, dashboard, fan relay, power supply for car radio set (seat C in the wiring diagram).
- 15-A fuse (5)
From main fuse to the power socket in the glove compartment.
- 3-A fuse (6)
From voltage regulator to ECU permanent power supply (seat E in the wiring diagram).
- 15-A fuse (7)
Spare fuse.
- 3-A fuse (8)
Spare fuse.
- Free (9)



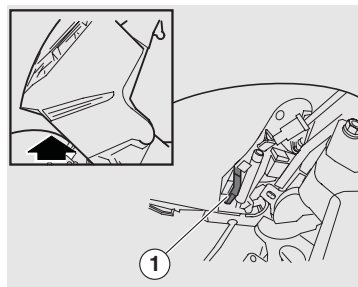
ARRANGEMENT OF MAIN FUSES (BATTERY COMPARTMENT)

- 30-A fuse (10)
From battery to: ignition switch, fuse (2), helmet compartment light, cooling fan, dashboard permanent power supply.
- 30-A fuse (11)
From battery to: voltage regulator, fuse (3), fuse (5).
- 30-A fuse (12)
Spare fuse.



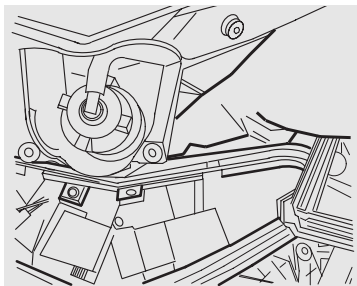
VERTICAL ADJUSTMENT OF THE HEADLIGHT BEAM

This is a quick beam inspection procedure. Place the motorcycle ten metres away from a vertical wall. It is important that the motorcycle be on level ground. Switch on the low beam and sit astride the motorcycle. The light spot on the wall should be just below the horizontal line of the headlight (about nine/tenths of overall height)



To set beam height:

- ◆ Turn the knob (1) at the front of the vehicle to adjust as follows:
turn **CLOCKWISE** to raise the beam;
turn **ANTICLOCKWISE** to lower the beam.



HORIZONTAL ADJUSTMENT OF THE HEADLIGHT BEAM

- ◆ Remove the front cover, see page 54 (REMOVING THE FRONT COVER).

Adjust beam as follows:

- ◆ Turn the knob (as shown in the picture) at the front of the vehicle.
- ◆ Turn **CLOCKWISE** to move the beam to the **RIGHT** (as viewed from riding position). Rotate **ANTICLOCKWISE** to move the beam to the **LEFT** (as viewed from riding position).

BULBS


Read page 40 (MAINTENANCE) carefully.

▲ WARNING

Fire hazard!

Keep fuel and other flammable products away from electric components.

▲ CAUTION

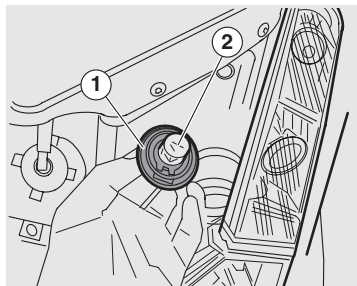
Before proceeding to change a bulb, rotate the ignition switch to “

Wear clean gloves or use a clean, dry cloth to handle bulbs. Do not put your fingerprints on a bulb, as this may cause overheating leading to failure.

If you touch a bulb with your fingers, remove any fingerprints with alcohol to avoid early failure.

DO NOT PULL ON THE WIRING.

NOTE Check the fuses, see page 60 (REPLACING THE FUSES) before changing a bulb.



REPLACING THE BULBS OF THE FRONT DIRECTION INDICATORS

Read paragraph (BULBS) at the side carefully.

To replace the bulbs:

- ◆ Remove the front cover, see page 54 (REMOVING THE FRONT COVER).

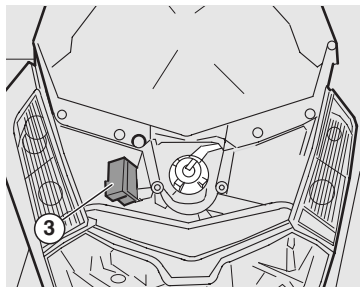
▲ CAUTION

Proceed with care.

Do not damage the tabs and their seats.

LEFT direction indicator:

- ◆ Working from the front of the vehicle, rotate the bulb holder (1) with the bulb (2) clockwise and extract both from their seat.
- ◆ Slightly press the bulb (2) and rotate it anticlockwise.
- ◆ Extract the bulb from its seat.



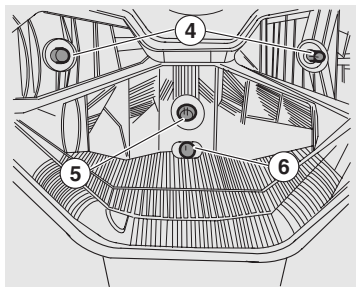
NOTE Insert the bulb into the bulb holder matching the two locating pegs with their guides in the bulb holder.

- ◆ Fit a new bulb of equal rating. Ensure it is positioned correctly.
- ◆ Reverse removal procedure to install the bulb.

RIGHT turn indicator:

- ◆ Take out the auxiliary fuse carrier (3) so as to make disassembly operations easier.
- ◆ Proceed as described for the left turn indicator.

NOTE To change bulbs, you can also remove the loudspeakers covers.



REPLACING THE HEADLIGHT BULBS

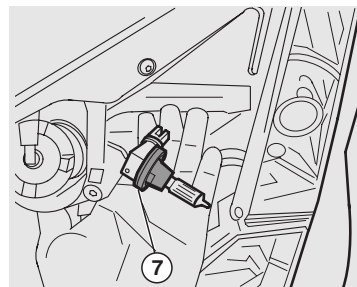
Read page 62 (BULBS) carefully.

The headlight accommodates the following bulbs:

- Two high beam bulbs (4).
- One low beam bulb (5).
- One parking light bulb (6).

To replace:

- ◆ Remove the front cover, see page 54 (REMOVING THE FRONT COVER).



LOW BEAM BULBS

▲ CAUTION

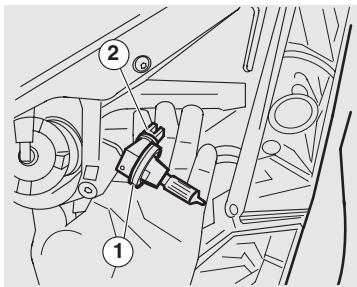
Do not pull on the wiring to disconnect the bulb connector.

- ◆ Grasp the bulb electric connector and pull to detach it from the bulb.
- ◆ Rotate the bulb holder (7) anticlockwise and extract it from its seat in the reflector.
- ◆ Remove the bulb.

To refit:

NOTE Fit the bulb into the seat in the reflector. Ensure the three bulb pegs become seated in the guides in the reflector seat.

- ◆ Place the bulb holder (7) into the reflector seat and turn it clockwise.
- ◆ Connect the bulb connector.



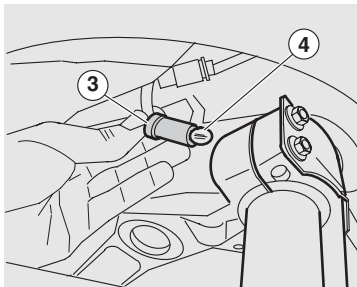
HIGH BEAM BULBS

- ◆ Rotate the bulb socket/bulb (1) anticlockwise and extract it from the seat in the reflector.

⚠ CAUTION

To extract the bulb socket/bulb from the seat, try to avoid damaging the two tabs (2).

- ◆ Remove the bulb (2).
 - ◆ Replace it with a new one of the same rating.
- Upon reassembly, carry on the same operations in reverse order.

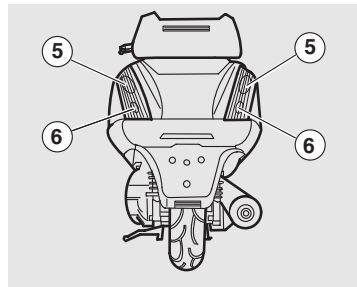


PARKING LIGHT BULBS

⚠ CAUTION

Do not pull on the wiring to remove the bulb holder.

- ◆ Working from the front of the vehicle, grasp the bulb holder (3) and pull to extract from its seat.
- ◆ Remove the parking light bulb (4) and fit a new bulb of equal rating.



REPLACING THE TAIL LIGHT BULBS

Read page 62 (BULBS) carefully.

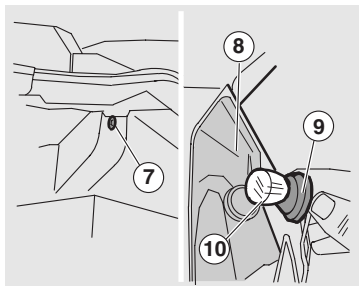
The tail light accommodates:

- two parking light/brake light bulbs (5).
- Two rear direction indicator bulbs (6).

Replacement:

- ◆ Raise the saddle, see page 23 (UNLOCKING/LOCKING THE SADDLE).

NOTE The following instructions apply to both indicators.



- ◆ Remove knob (7) fixing rear light to vehicle.

CAUTION

Do not force or pull on the wiring.

- ◆ To remove the tail light (8), slide out the upper part first and then move it apart from its seat.

CAUTION

Work with extreme care.

Do not damage the tabs and/or their seats.

- ◆ With the tail light in your hand, turn counterclockwise and remove the bulb holder (9) with bulb (10) of reflector (8).
- ◆ Remove the bulb from its seat

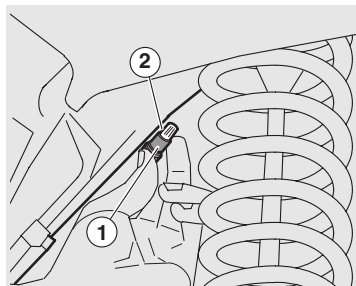
NOTE Insert the bulb into the bulb holder matching the two locating pegs with their guides in the bulb holder.

- ◆ Fit a new bulb of equal rating. Ensure it is positioned correctly.

NOTE Make sure that the protective shield locates correctly into its seat on refitting.

CAUTION

Tighten the screw (7) gradually and moderately or the protective shield will damage.



REPLACING THE NUMBER PLATE BULB

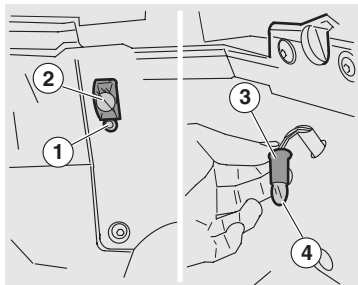
Read page 62 (BULBS) carefully.

To replace the bulb:

CAUTION

Do not pull on the wiring to extract the bulb holder.

- ◆ Grasp the bulb holder (1) and pull to extract.
- ◆ Remove the bulb (2) and fit a new bulb of equal rating.



REPLACING THE HELMET COMPARTMENT LIGHT BULB

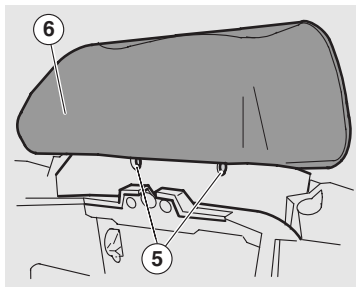
Read page 62 (BULBS) carefully.

- ◆ To replace the bulb:
- ◆ Raise the saddle, see page 23 (UNLOCKING/LOCKING THE SADDLE).
- ◆ Release and remove the screw (1) securing the transparent cover to the battery cover.
- ◆ Remove the transparent (2) by pulling it downwards.

⚠ CAUTION

Do not pull on the wiring to extract the bulb holder.

- ◆ Grasp the bulb holder (3) and pull to extract.
- ◆ Remove the bulb (4) and fit a new bulb of equal rating.



CHANGING THE THIRD STOP BULBS

Carefully read page 62 (BULBS).

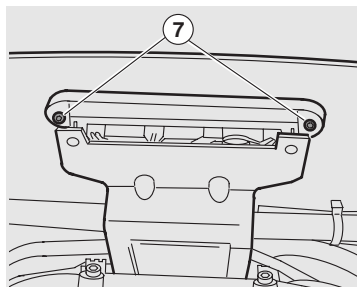
To replace:

- ◆ Raise the saddle, see page 23 (UNLOCKING/LOCKING THE SADDLE).
- ◆ Loosen and remove the two screws (5) fixing sissy bar to vehicle.

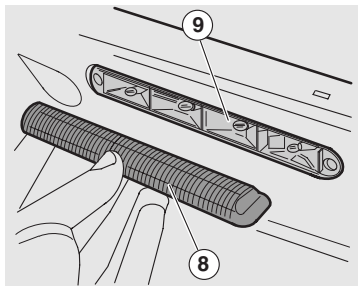
⚠ CAUTION

When removing the sissy bar, proceed with extreme care not to damage the coupling teeth.

- ◆ Pull up sissy bar (6) to remove.



- ◆ Loosen and remove the two screws (7) fixing the protective screen (8) of the third stop.
- ◆ Take out the whole-glass bulbs (9) from their seat.
- ◆ Install a bulb of the same rating.



NOTE At reassembly, position correctly the protective shield into its seat.

▲ CAUTION

Tighten screw (7) with extreme care not to damage the protective shield.

TRANSPORT

▲ WARNING

Before transporting the vehicle, drain all fuel from the fuel tank and the carburettor, see under **(DRAINING THE FUEL TANK)** and make sure that they are fully dry.

During transport, the vehicle must be well secured in an upright position to avoid fuel, oil and coolant leaks.

If stranded, do not have the vehicle towed. Contact a road-side service firm.

DRAINING THE FUEL TANK

Read page 25 (FUEL) carefully.

▲ WARNING

Fire hazard!

Allow some time for the engine and muffler to cool down completely.

Fuel vapours are noxious for human health. Ensure the area is well ventilated before proceeding.

Do not inhale fuel vapours.

Do not smoke or use open flames.

DO NOT RELEASE FUEL INTO THE ENVIRONMENT

- ◆ Place the vehicle on the centre stand on firm and level ground.
- ◆ Stop the engine and wait until it has cooled down.
- ◆ Prepare a container large enough to hold the fuel in the tank and place it on the floor on the left side of the vehicle.
- ◆ Remove the fuel filler cap.
- ◆ Drain fuel using a manual pump or similar system. Do not damage the fuel pump assembly (fuel level sensor accommodated inside the tank).

▲ WARNING

Refit the filler cap after draining all fuel.



Clean the vehicle frequently when it is exposed to adverse conditions, such as:

- ◆ Pollution (urban and industrial areas)
- ◆ Salinity and humidity in the atmosphere (sea areas, hot and damp weather)
- ◆ Particular environmental/seasonal conditions (salt and anti-ice chemical products spread over the roads in the wintertime).
- ◆ Make sure to clean off any industrial residue and pollutants, tar, dead insects, bird droppings, etc. from the vehicle fairings.
- ◆ Avoid parking the vehicle under trees. Resins, fruits or leaves falling from the trees may contain aggressive chemical substances that may damage the paintwork.

⚠ WARNING

Braking efficiency may be temporarily impaired after washing the vehicle, as the friction surfaces of the braking systems may be wet.

Remember that braking distance will be longer. Operate the brakes repeatedly to restore normal operation.

Perform the recommended pre-ride checks, see page 33 (PRE-RIDE CHECKS CHART).

To clean off dirt and mud from painted surfaces, soften caked dirt with a low-pressure water jet. Sponge off using a car body sponge soaked in a car body shampoo and water solution (2-4% parts of shampoo). Rinse with plenty of water and dry with chamois leather. Clean the outer parts of the engine with a degreaser, brushes and a cloth.

⚠ CAUTION

BEFORE WASHING THE VEHICLE

- 1) Empty the glove and helmet compartments. Remove the matting inside the helmet compartment.
- 2) Ensure the storage compartments are closed firmly.
- 3) Use only neutral detergent to wash the vehicle. Rinse with water, but do not use a water cleaner (see page 68).

⚠ CAUTION

Wash the vehicle thoroughly before applying silicone wax.

Do not polish matt-painted surfaces with polishing paste.

Do not wash the vehicle under the sun, especially in the summertime, when the body is still warm. The shampoo drying before it is rinsed away can damage the paintwork.

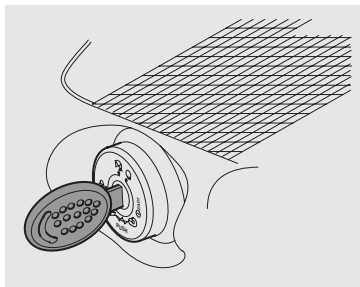
Do not use liquids at a temperature higher than 40° C to clean the plastic components of the vehicle.

Do not aim high-pressure water/air jets or steam jets at the following parts:

wheel hubs, controls on the right and left side of the handlebar, bearings, brake master cylinders, instruments and indicators, silencer, helmet/tool kit compartment, ignition switch/steering lock. Do not clean any rubber and plastic parts and the saddle with alcohol, petrol or solvents: use water and mild soap only.

⚠ CAUTION

Do not apply protective wax on the saddle or it may become slippery.



LONG INACTIVITY

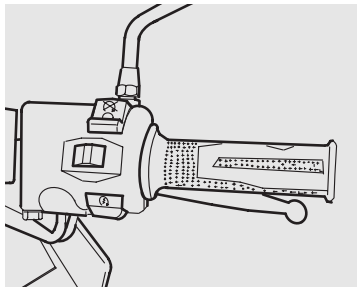
When storing the vehicle away for long periods, some precautions are necessary to avoid damage due to prolonged inactivity.

Minor repairs should not be postponed, lest you forget them. A general check-up of the bike is also recommended.

Proceed as follows:

- ◆ Drain the fuel tank and the carburettor completely, SEE PAGE 67 (DRAINING THE FUEL TANK).
- ◆ Remove the spark plug, see page 56 (SPARK PLUG).
- ◆ Pour a teaspoon of engine oil (5-10 cm) into the cylinder.

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



- ◆ Set the ignition switch to “O” and press the engine starter button “⊗” for a few seconds to let oil spread evenly all over the cylinder.
- ◆ Remove the protective cloth.
- ◆ Refit the spark plug.
- ◆ Remove the battery, see page 58 (REMOVING THE BATTERY) and page 57 (LONG INACTIVITY OF THE BATTERY).
- ◆ Wash and dry the vehicle, see page 68 (CLEANING).
- ◆ Wax all painted surfaces.
- ◆ Inflate the tyres, see page 70 (TECHNICAL DATA).
- ◆ Place a suitable support under the vehicle to keep wheels off the ground.
- ◆ Store the vehicle in dry place, without heating, away from sunlight and with steady temperature.



- ◆ Wrap and tie a plastic bag around the exhaust pipe opening to keep moisture out.
- ◆ Cover the vehicle. Avoid using plastic or waterproof materials.

AFTER STORAGE

- ◆ Uncover and clean the vehicle, see page 68 (CLEANING).
- ◆ Check battery charge, see page 59 (CHARGING THE BATTERY) and install it, see page 59 (INSTALLING THE BATTERY).
- ◆ Refuel, see page 25 (FUEL).
- ◆ Perform the recommended pre-ride checks, see page 33 (PRE-RIDE CHECKS CHART).

WARNING


Test ride the vehicle at moderate speed in an area away from traffic.

TECHNICAL DATA

Description		
DIMENSIONS	Max length	2270 mm
	Max width	720 mm
	Max height (incl. windshield)	1450 mm
	Rider saddle height	780 mm
	Wheelbase	1575 mm
	Minimum ground clearance	150 mm
	Weight in running order	200 Kg
ENGINE	Type	4stroke single-cylinder engine, 4 valves per cylinder, single overhead camshaft operated via a chain on flywheel side.
	No. of valves	4
	No. of cylinders	1
	Total displacement	460 cu cm
	Bore/stroke	92 mm/69 mm
	Compression ratio	10.5 : 1
	Starting	Electric starter
	Engine idling speed	1450 ± 50 rpm
	Clutch	Centrifugal, automatic, dry clutch
	Gearbox	Automatic
	Lubricating system	Forced circulation by trochoidal pump accommodated inside crankcase, oil filter and pressure regulation through bypass valve
Cooling system	Liquid cooling with forced circulation by centrifugal pump	
TRANSMISSION	Converter	Stepless automatic
	Primary	V-belt
	Secondary	Gears
	Total engine/wheel ratio	minimum 1/11.988 maximum 1/4.86

Description		
CAPACITIES	Fuel (including reserve)	17 l
	Fuel reserve	4 l
	Engine oil	
	- engine oil and engine oil filter change	1500 cu cm
	- oil change at engine overhaul	1700 cu cm
	Transmission oil	approx. 250 cu cm
	Coolant (50% water + 50% anti-freeze with ethylene glycol)	1.5 l
	Front fork fluid	220 cu cm (per leg)
	Saddle	Twin-seater
	Max load (rider +luggage)	105 Kg
Max load (rider +passenger +luggage)	180 Kg	

THROTTLE BODY	Type	38 mm Ø, single injector
	Choke	39 mm Ø

FUEL SYSTEM	Type	Electronic fuel injection with electric fuel pump
	Fuel	Premium-grade unleaded petrol (4 Stars ) , minimum octane rating 95 (ROM) and 85 (MON)

FRAME	Type	HIGH-STRENGTH STEEL TUBING
	Steering head angle	28°, 50'
	Trail	118 mm

Description		
SUSPENSION	Front	Hydraulic telescopic fork
	Travel	100 mm
	Rear	Two double-acting hydraulic shock absorbers with 5 positions for spring preload adjustment
	Wheel travel	100 mm

BRAKES	Front	Hydraulic disc brake - Ø 260 mm
	Combined Rear	Twin disc brake – front Ø 260 mm rear Ø 220 mm

WHEELS	Type	Light alloy
	Front	15 x 3.00
	Rear	14 x 3.75

TYRES	Type	Tubeless
	Front	120 /70 -15 M/C 56R
	Rear	140 /60 -14 M/C REINF. 64R
	STANDARD INFLATION PRESSURES	
	Front	2.1 bar
	Rear	2.3 bar
	INFLATION PRESSURES FOR CARRYING A PASSENGER	
	Front	2.2
	Rear	2.6

Description		
IGNITION	Type	C.D.I., inductive
	Timing advance	Variable advance controlled by fuel injection ECU
SPARK PLUG	Standard	CHAMPION RG6YC
	As an alternative	NGK – CR7EKB
	Electrode gap	0.7 – 0.8 mm
ELECTRIC SYSTEM	Battery	12 V - 14 Ah
	Fuses	20 -15 – 3 A
	Permanent-wound magnet generator	14V - 330W
BULBS	Low beam / High beam	12V - 55 W / 12V - 35 W
	Front parking light	12V - 5W
	Rear/front direction indicators	12V - 16W (rear) / 12V - 10W (front)
	Tail light / brake light	12V - 5/ 21W
	Helmet compartment light	12V – 3W
	Number plate light	12V - 5W
	Dashboard light	LED
Third stop light	12V – 2.3W	
WARNING LIGHTS	Turning indicator lights	LED
	Engine oil pressure	LED
	Low beam light	LED
	High beam light	LED
	Low fuel light	LED
	Brake pads wear	LED
	High coolant temperature	LED





LUBRICANT CHART





(Recommended) engine oil:  SUPERBIKE 4, SAE 5W - 40 or  4T FORMULA RACING, SAE 5W - 40.

As an alternative to recommended oils, top brand oils meeting or exceeding A.P.I. SJ specifications can be used.

(Recommended) transmission oil:  F.C., SAE 75W - 90 or  GEAR SYNTH, SAE 75W - 90.

As an alternative to recommended oils, top brand oils meeting or exceeding A.P.I. GL3 specifications can be used.

(Recommended) fork oil:  F.A. 5W,  F.A. 20W; as an alternative,  FORK 5W or  FORK 20W.

When you wish to obtain an intermediate response between those offered by  F.A. 5W and  F.A. 20W oils or  FORK 5W and  FORK 20W, oils, you may mix the different products as follows:

SAE 10W =  F.A. 5W 67% of volume +  F.A. 20W 33% of volume, or
 FORK 5W 67% del volume +  FORK 20W 33% of volume.

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



Bearings and other lubrication points (recommended):  BIMOL GREASE 481 -  GREASE SM2.

As an alternative to recommended grease, use top brand rolling bearing grease that will resist a temperature range of -30°C - +140°C, with dropping point 150°C - 230°C, high corrosion protection, good resistance to water and oxidation.

Battery lead protection: use neutral grease or Vaseline.

WARNING

Use new brake fluid only. Do not mix different makes or types of oil without having checked bases compatibility.

Brake fluid: The system is filled with  Autofluid FR. DOT 4 (the braking system is also compatible with DOT 5);  BRAKE 5.1 DOT 4 (the braking system is also compatible with DOT 5).

As an alternative to the recommended product, top brand brake fluid meeting or exceeding SAE J1703, NHTSA 116 DOT 4, ISO 4925 specifications for synthetic brake fluid can be used.

WARNING

Use only nitrite-free anti-freeze and corrosion inhibitors with a freezing point of -35°C as a minimum.

(Recommended) engine coolant:  ECOBLU -40 °C -  COOL.

As an alternative to the recommended product, top brand coolant meeting or exceeding CUNA NC 956-16 specifications for ethylene glycol based anti-freeze can be used.

THE VALUE OF SERVICE



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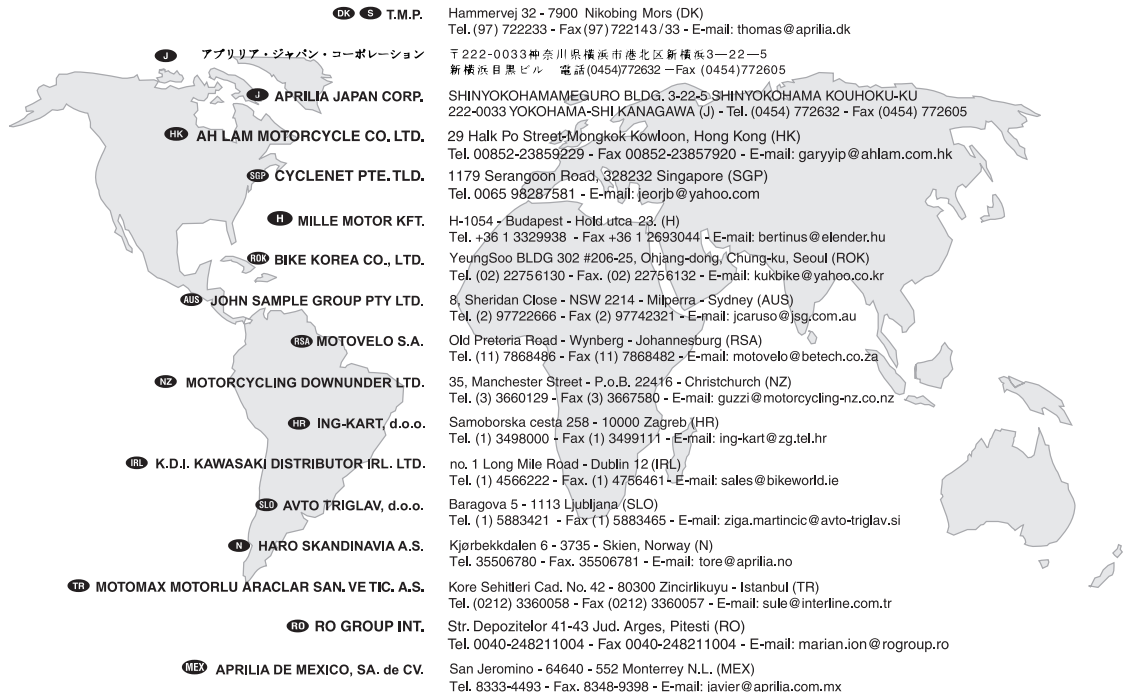
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WIRING DIAGRAM KEY - Atlantic 500

1)	Multiple connectors	33)	Rear brake light switch
2)	RPM sensor	34)	Front brake light switch
3)	Stepper motor	35)	Key-operated switch
4)	Coil	36)	Bank angle sensor
5)	Spark plug	37)	Right dimmer switch
6)	Fuel injector	38)	Fan relay
7)	Fuel pump	39)	Left dimmer switch
8)	Fuel level sensor	40)	Horn
9)	Injection main relay (with diode)	41)	-
10)	Injection auxiliary relay	42)	Dashboard air T thermistor
11)	Side stand switch	43)	Dashboard
12)	Lambda sensor (not available)	44)	Speed sensor
13)	Throttle sensor	45)	Oil pressure sensor
14)	Engine air thermistor	46)	Front right direction indicator
15)	Dashboard/engine H ₂ O thermistor	47)	Front left direction indicator
16)	Fan	48)	Low beam bulb
17)	Voltage regulator	49)	High beam bulb
18)	Flywheel	50)	Parking light bulb
19)	Battery	51)	Headlight
20)	Starter relay	52)	E.C.U.
21)	Starter motor	53)	LH tail light
22)	Main fuses	54)	Diagnostics socket
23)	Power socket	55)	Stop light relay
24)	Auxiliary fuses	56)	Third stop lights (not on USA version)
25)	Compartment light	57)	Immobilizer antenna
26)	Compartment light switch	58)	-
27)	Number plate light	59)	-
28)	Radio power supply	60)	-
29)	Rear right direction indicator		
30)	Rear left direction indicator		
31)	Brake light/parking light bulbs		
32)	RH tail light		

CABLE COLORS

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

REMARKS

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Aprilia PURCHASE ONLY GENUINE SPARE PARTS

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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.