

APRILIA WOULD LIKE TO THANK YOU

for choosing one of its products. We have drawn up this manual to show you all features of your bike. Please read it carefully before riding the bike for the first time. It contains information, tips and precautions for using your vehicle. You will also discover features, details and devices which will reassure you that you have made the right purchase choice. We believe that if you follow our suggestions, you will soon get to know your new motorbike inside out and it will serve you well for a long time to come. This booklet is an integral part of the vehicle and must be handed over to the new owner should the bike be sold.

SX 50 - RX 50

The Aprilia logo, consisting of the word "aprilia" in white lowercase letters on a red rectangular background.

The instructions contained in this booklet were mainly drafted to supply a simple and clear guide on the use of the vehicle. The manual also details routine maintenance procedures and regular checks that should be carried out on the vehicle at an **authorised Aprilia dealer or workshop**, as well as instructions for some simple repairs. The procedures not described in detail here require the use of special tools and/or specific technical knowledge: we therefore advise you to contact an **authorised Aprilia dealer or workshop** if you need them to be carried out.



Personal safety

Failure to completely observe these instructions will result in serious risk of personal injury.



Safeguarding the environment

Sections marked with this symbol indicate the correct use of the vehicle to prevent damaging the environment.



Vehicle intactness

The incomplete or non-observance of these regulations leads to the risk of serious damage to the vehicle and sometimes even the invalidity of the guarantee.

The signs reported above are very important. They are used to highlight those parts of the booklet that should be read with particular care. As you can see, each sign consists of a different graphic symbol, making it quick and easy to locate the various topics. Before you start the engine, read this booklet carefully, paying particular attention to the "SAFE RIDING" paragraph. 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. We therefore recommend that you should take the time to familiarise yourself with your vehicle, so that you can move in road traffic confidently and safely. IMPORTANT This booklet is an integral part of the vehicle and must be kept with the vehicle, even if the vehicle is sold on.

SX 50 - RX 50

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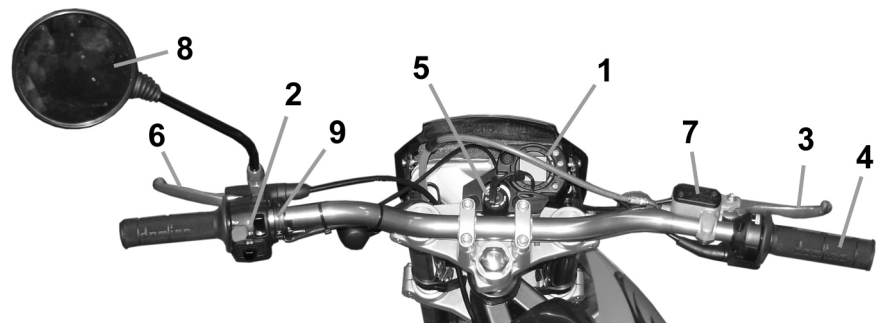
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Chap. 01
Vehicle

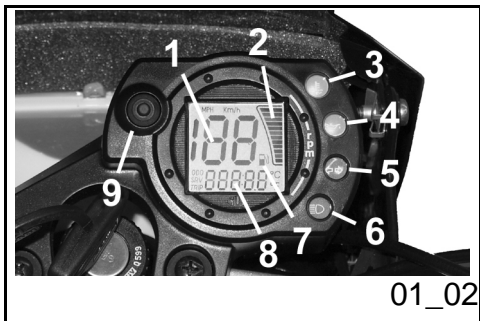


01_01

Dashboard (01_01)

KEY:

- 1. Instrument panel
- 2. Headlamps switch, horn and stop
- 3. Front brake control
- 4. Throttle grip
- 5. Ignition lock
- 6. Clutch control
- 7. Front brake liquid tank
- 8. Rear-view mirror
- 9. Lever control for cool start-up



Analogue instrument panel (01_02)

KEY:

1. Speedometer
2. Engine revs indicator
3. High temperature warning light
4. Oil reserve warning light
5. Turn indicator warning light
6. High-beam ON warning light
7. Low fuel warning light
8. Multifunction gauge
9. Mode button

ODO Total distance travelled

CLOCK

TRIP Partial distance

SRV Distance to next vehicle service coupon

Functions :

WATER TEMPERATURE WARNING LIGHT : RED light, it turns on when the coolant temperature is over 105° C.

MIN. OIL LEVEL WARNING LIGHT : RED light, it turns on when there is a 0.25 litre oil reserve in the reservoir.

LOW FUEL ICON : it turns on when there is a 1.3 litre petrol reserve in the tank.

Each time the key is actuated, the instrument panel will carry on a check (all segments are active for 3 secs).

Once the check has finished, the instrument panel displays the last function set with the button.

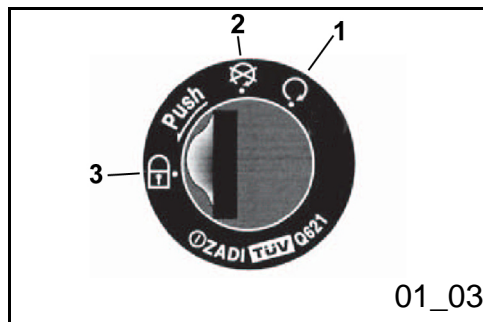
Button operating mode. Press the button for $t < 3$ seconds and the functions are displayed as follows:

ODOMETER _ TRIP _ CLOCK _ SERVICE _ ODOMETER

To reset TRIP, press the button for $t > 3$ secs once the function is displayed.

To set the clock, (once the function is displayed):

- press the button for $t > 3$ secs
- the hour flashes,
- press and hold the button until the current hour is shown
- release the button
- the minutes flash
- press and hold until the current minutes are displayed
- release the button.



Key switch (01_03)

Key position:

1. Position for predisposition for start-up, steering lock not on, non-extractable key.
2. Ignition disabled, extractable key, steering lock not on.
3. Ignition disabled, extractable key, steering lock on.

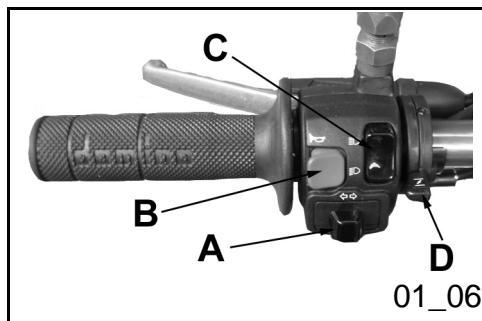
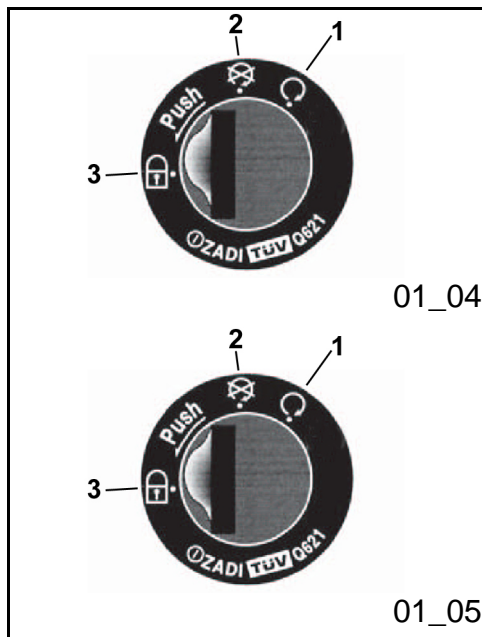
Locking the steering wheel (01_04)

In order to block the steering, turn the handlebar completely to the left. Fully insert the key

and let it return to its original position, turn it to position «3» and take it out.

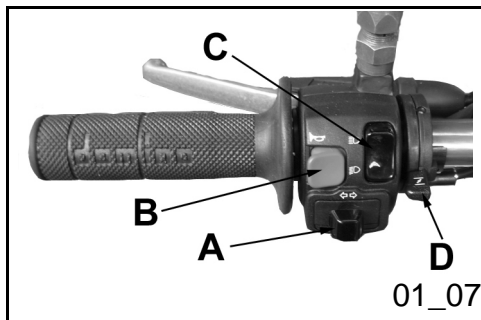
Releasing the steering wheel (01_05)

Insert the key and turn it clockwise.



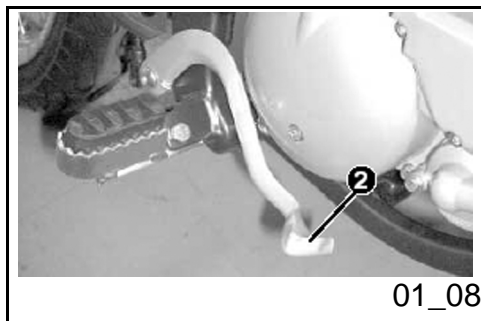
Switch direction indicators (01_06)

To activate the left turn indicators, move the lever «A» leftwards; to activate the right turn indicators, move the lever rightwards. The lever automatically returns to the central position and the indicators remain on. To turn off, push the switch.



Horn button (01_07)

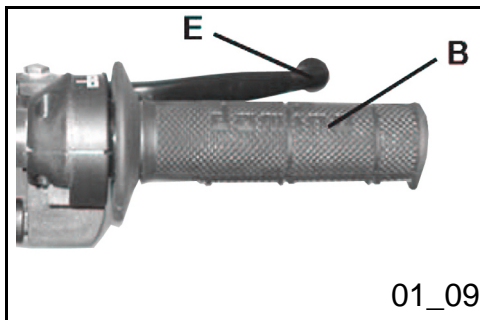
Push «B» to activate the horn.



Rear brake pedal (01_08)

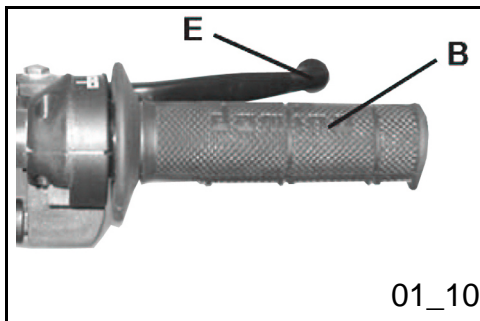
The rear brake control pedal «2» is placed on the right part of the scooter, at engine level. It must be activated gradually with the toe-end. Combination of the rear and front brakes must be used, according to the needs: by doing so, braking will be more effective.

Consider also the conditions of the road! Particularly, if it is wet asphalt or with gravel, oil, etc.



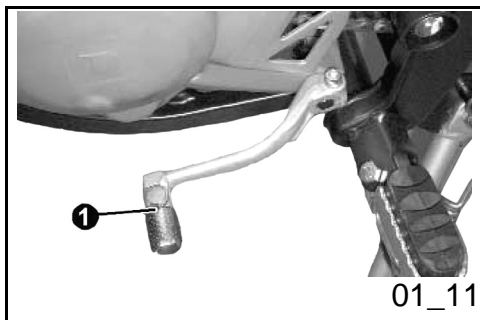
Throttle grip (01_09)

Placed on the right side of the handlebar. When the hand grip «B» is turned downwards, the carburettor valve opens.



Front brake control (01_10)

The front brake control «E» is placed on the right side of the handlebar. Be particularly careful when using the front brake, brake softly and measure the power progressively, according to surface conditions, to avoid blocking the wheel.



Gear pedal (01_11)

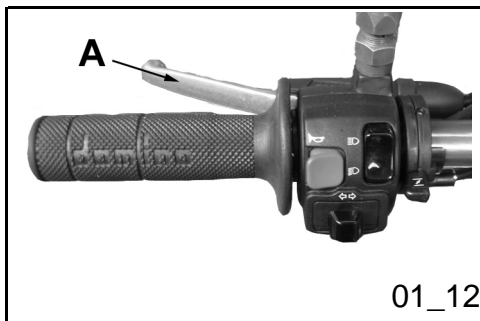
The gear pedal «1» is placed on the left side of the engine. It is activated with a firm stroke of the foot to couple the gear. After the gear is shifted, remove the foot from the pedal; this will return automatically to its initial position. Starting from the neutral position, gears are shifted as follows:

- 1st gear is engaged by pressing the pedal downwards.
- 2nd, 3rd, 4th, 5th and 6th gears are engaged by pressing the pedal upwards.

For downshifting, pressing the pedal down.

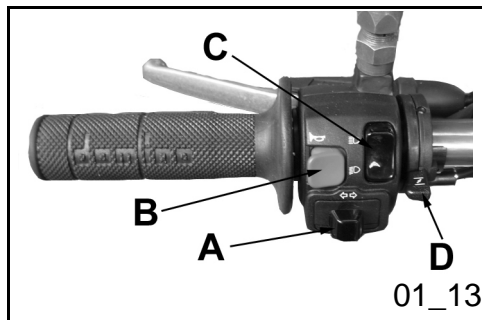
CAUTION

THE GEAR PEDAL MUST BE OPERATED ONLY AFTER HAVING DISENGAGED THE CLUTCH AND RELEASED THE THROTTLE GRIP.



Clutch control (01_12)

The clutch control lever «A» is placed on the right side of the handlebar. When it is pulled completely towards the handlebar, the clutch is disengaged and the engine transmission is released. If the lever is released slowly, the clutch is engaged coupling the engine to the transmission which, with a gear engaged, will transmit the engine power to the rear wheel through the gear.



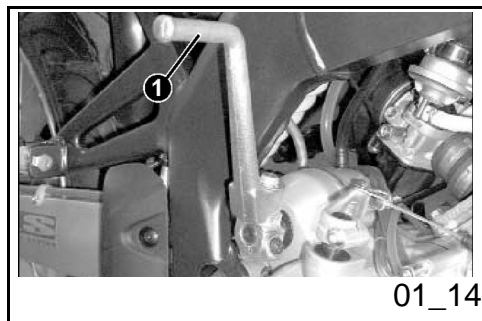
01_13

Light on/of switch (01_13)

The light switch «C» has two positions:

- Down, low-beam light
- Up, high-beam light

Lights turn on automatically immediately after starting the engine.



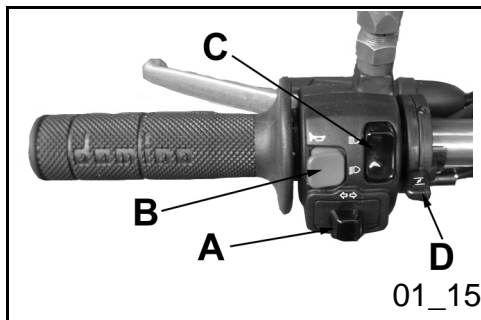
01_14

Start-up button (01_14)

The kick start pedal «1» is placed on the right side of the engine. To start the engine, just push the pedal backwards with your foot.

CAUTION

CHECK THE GEAR IS IN THE NEUTRAL POSITION BEFORE STARTING THE ENGINE.



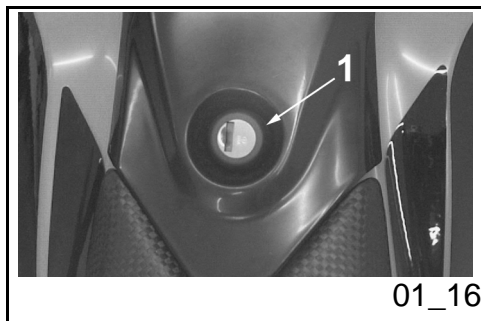
Manual starter control (01_15)

The manual starter control «D» is located on the left hand grip. It has two positions:

- Lever upwards: cold start-up
- Lever downwards: start-up in normal conditions

CAUTION

THE ONLY AIM OF THIS CONTROL IS TO MAKE THE START-UP. ONLY USE IT WHEN THE ENGINE IS COLD.



Fuel tank (01_16)

The fuel tank has a 7-litre capacity and a 1,30-litre reserve. To fill it, insert the key in the lock of the tank cover «1» and, while turning it towards the right, lift the cover.

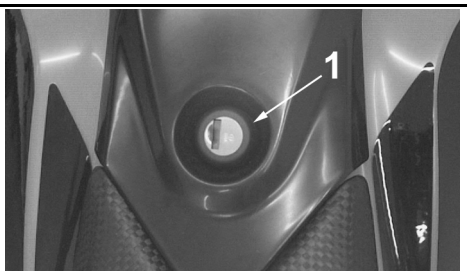
CAUTION

USE UNLEADED PETROL ONLY.

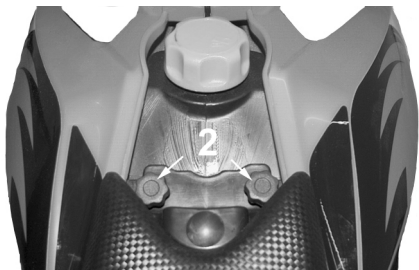
Opening the saddle (01_17, 01_18)

To dismantle the saddle, insert the key in the lock of the tank cover «1» and, while turning it rightwards, lift the cover. After that, remove the two saddle fixing knobs «2».

The oil tank, the battery and the tool kit compartment are under the saddle.



01_17



01_18

Keys (01_19)

Two keys are included with the scooter, both can be used either for the ignition lock or the fuel tank cover.

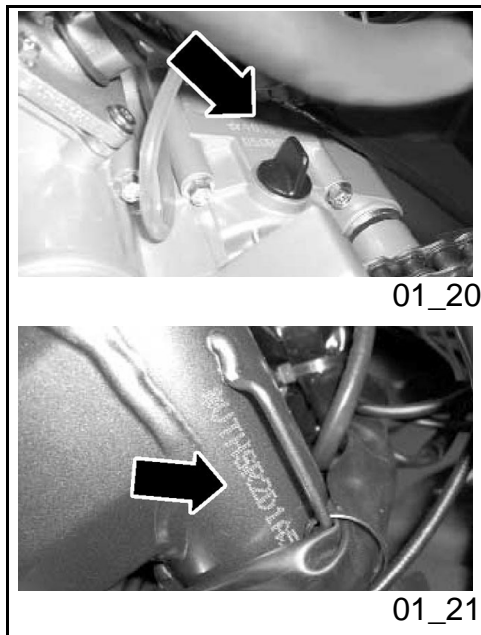
The keys are accompanied by a tag marked with the identification code to be quoted when ordering duplicates.

WARNING

WE RECOMMEND KEEPING THE DUPLICATE KEY TOGETHER WITH ITS TAG IN A SAFE PLACE AND NOT ON THE SCOOTER.



01_19



Identification (01_20, 01_21)

The identification numbers consist of a prefix marked on the chassis and on the engine, followed by a number. They must be quoted when ordering spare parts. We recommend that you check that the prefix and chassis number marked on the vehicle correspond with those in the vehicle documents.

NOTE

ALTERING THE IDENTIFICATION REGISTRATION NUMBERS MAY LEAD TO SERIOUS PENAL SANCTIONS (IMPOUNDING OF THE SCOOTER, ETC.).

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Chap. 02
Use

Checks

Before starting up the scooter, check:

1. that the fuel and oil tanks are full.
2. that the crankcase oil level is correct.
3. that the transmission is in neutral position.
4. that the tyres are correctly inflated.
5. that the headlight, rear light and turn indicators are in correct working order.
6. that the front and rear brakes are in working order.
7. that the liquid level in the brake pump tanks are correct.
8. that the transmission chain is tightened and properly lubricated.
9. that the coolant level is correct.



SWITCH OFF THE ENGINE BEFORE REFUELLING WITH PETROL. PETROL IS HIGHLY INFLAMMABLE. DO NOT LET PETROL SPILL FROM THE TANK WHILE REFUELLING

Tyre pressure

A different pressure from the one indicated may cause problems when riding the vehicle. Therefore, we recommend checking and correcting tyre pressure frequently.

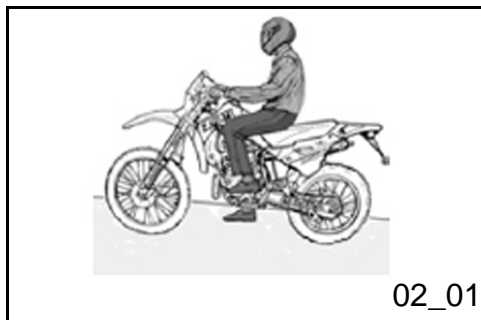
COLD INFLATION PRESSURE FOR FRONT TYRE

Specification	Desc./Quantity
----------------------	-----------------------

Sx front tyre pressure	1.8 kg/cm ² - 180 kPa (rider only)
	2.0 kg/cm ² - 200 kPa (rider and passenger)
Rx front tyre pressure	1.3 kg/cm ² - 130 kPa (rider only)
	1.5 kg/cm ² - 150 kPa (rider and passenger)

COLD INFLATION PRESSURE FOR REAR TYRE

Specification	Desc./Quantity
Rx rear tyre pressure	1.6 k/cm ² - 160 kPa (rider only)
	1.8 Kg/cm ² - 180 kPa (rider and passenger)
Sx rear tyre pressure	1.9 kg/cm ² - 190 kPa (rider only)
	2.1 kg/cm ² - 210 kPa (rider and passenger)



Running in (02_01)



DURING THE FIRST 1000 KM DO NOT RIDE THE VEHICLE OVER 80% OF ITS MAXIMUM SPEED. AVOID OPENING THE ACCELERATOR COMPLETELY AND KEEPING A CONSTANT SPEED FOR LONG STRETCHES. AFTER THE FIRST 1000 KM INCREASE SPEED GRADUALLY UNTIL REACHING MAXIMUM PERFORMANCE.

NOTE

- THE DURABILITY AND THE EFFICIENCY OF YOUR SCOOTER DEPEND STRONGLY ON THE CARE RECEIVED DURING THE RUN-IN PERIOD. DURING THIS PERIOD, THE MECHANISMS OF THE MOBILE PARTS ARE MUTUALLY HARDENED AND ADAPTED.
- A BETTER RUN-IN IS OBTAINED NOT BY RIDING SLOWLY BUT SOFTLY AND CAREFULLY. DURING THIS PERIOD, IT IS ADVISABLE TO RIDE THE VEHICLE AT 3/4 OF MAXIMUM PERFORMANCE. IN THE EVENT THAT FULL ACCELERATION IS NECESSARY (OVERTAKING MANOEUVRES, STEEP SLOPES, ETC.) TRY TO LIMIT THE TIME TO A MINIMUM.
- GEARBOX OIL MUST BE CHANGED ONCE THE FIRST 1,000 KM ARE COVERED. USE THE RECOMMENDED OIL TYPE AND SPECIFIED QUANTITY ONLY. AFTER THE FIRST 1,000 KM, TAKE YOUR SCOOTER TO AN AUTHORISED APRILIA SERVICE CENTRE FOR A CHECK AND SET UP.



TO OBTAIN OPTIMUM ADJUSTMENT OF MOBILE PARTS, A LONG LIFE AND BETTER PERFORMANCE, IT IS NECESSARY NOT TO FORCE THE VEHICLE DURING THE 500 KM. THE VEHICLE MUST HAVE A SUITABLE RUN-IN PERIOD, DURING WHICH THE FOLLOWING PRECAUTIONS MUST BE CONSIDERED:

- AFTER STARTING THE ENGINE, WARM IT UP PROGRESSIVELY, WITHOUT MAXIMUM ACCELERATION (WE RECOMMEND NOT TO EXCEED 3/4 OF THE THROTTLE GRIP OPENING FOR 1ST GEAR) OR OVERCHARGE.
- IN LONG STRETCHES, DO NOT USE FULL SPEED CONSISTENTLY. TURN THE

THROTTLE GRIP SOME SECONDS FROM TIME TO TIME.

- WHEN FACING STEEP SLOPES, DOWNSHIFT TO HAVE BETTER POWER.

- AFTER A LONG RUN DO NOT STOP THE ENGINE SUDDENLY, LEAVE IT RUNNING AT MINIMUM ACCELERATION FOR SOME SECONDS.

- CHECK THE NON-EXISTENCE OF OIL, FUEL OR BRAKE LIQUID LEAKS.

- IN CASE OF ANOMALOUS NOISE, TRY TO IDENTIFY ITS CAUSE IMMEDIATELY. IT IS ESSENTIAL TO MAKE THE CHECKS AND ADJUSTMENTS REQUIRED FOR THE FIRST 500 ÷ 1000 KM COVERED.

Starting up the engine (02_02, 02_03, 02_04)

- Ensure the gear is in neutral position.

- Position the throttle at 1/3 of the stroke.

- Insert the key on and turn it to position «1».

- Step on the start up pedal.

- Repeat procedures if necessary.

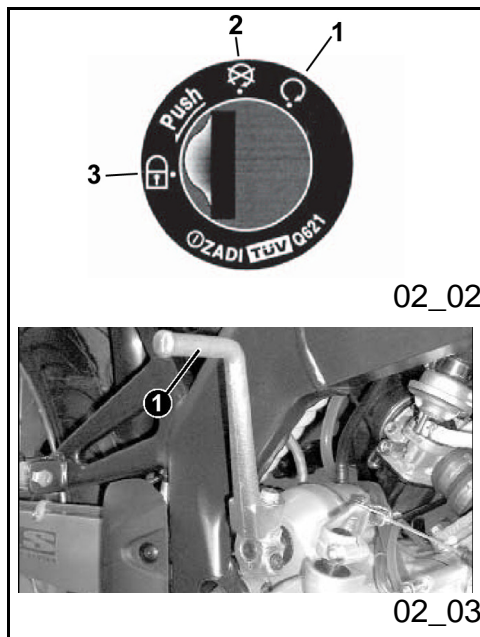
- If the engine is cold, use the carburettor starter «D». Do not activate the starter when the engine is hot.

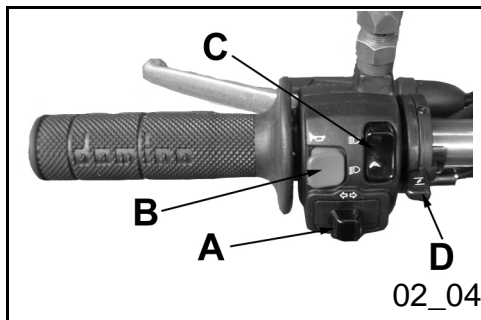
Precautions



- DO NOT KEEP MAXIMUM ACCELERATION FOR A LONG TIME. USE THE ENGINE UP TO A 3/4 OF MAXIMUM PERFORMANCE. PETROL WILL BE SAVED AND THE ENGINE LIFE WILL BE LONGER.

- WHEN BRAKING, STOP ACCELERATING.

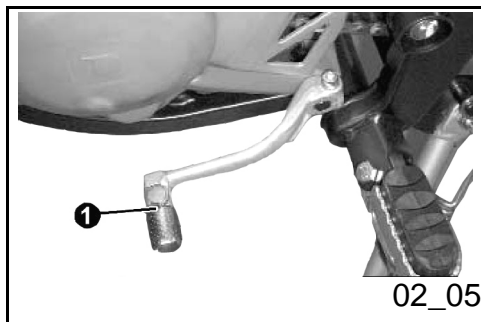




- BRAKE MODERATELY, CONSIDERING THE TYPE OF ROAD. ON ASPHALT-TREATED DRY ROADS, START BRAKING WITH THE FRONT BRAKE AND FINISH WITH BOTH. ON WET ROADS, OR WITH SAND OR SMALL STONES, NEVER USE THE FRONT BRAKE AND KEEP MORE DISTANCE TO STOP THE SCOOTER.

- WHEN STARTING OFF, ACCELERATE MODERATELY AND PROGRESSIVELY, RELEASING THE CLUTCH GRADUALLY.

- AT CURVES, DO NOT TURN EXCESSIVELY.



Stopping the engine (02_05)

To stop the engine, engage gear «1» in neutral position and turn the key switch anticlockwise.

Stand

To position the scooter on the stand, proceed as follows:

- get off the scooter on the left side
- holding it firmly from the handlebar and the saddle, fully flip out the stand with your right foot
- tilt the scooter and rest the stand on the ground
- turn the handlebar fully to the left
- make sure the scooter is stable

Suggestions to prevent theft

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

Park the scooter in a safe place such as a garage or a place with guards.

Whenever possible, use the aprilia "Body-Guard" armoured cable or an additional antitheft device.

Make sure all scooter documents are in order and the road tax paid.

Write down your personal details and telephone number on this page to help identifying the owner in case of scooter retrieval after a theft.

LAST NAME:

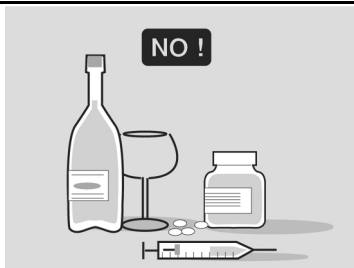
NAME:

ADDRESS:

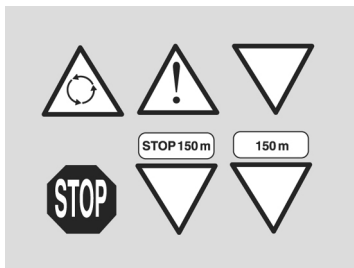
.....

TELEPHONE No:

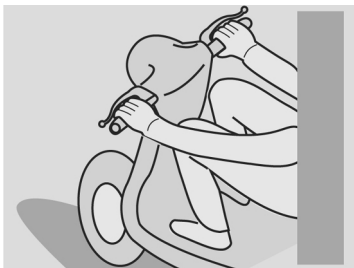
IMPORTANT In many cases, stolen vehicles can be identified through data indicated in the use and maintenance manual



02_06



02_07



02_08

Safe driving (02_06, 02_07, 02_08, 02_09, 02_10, 02_11, 02_12, 02_13, 02_14, 02_15, 02_16, 02_17)

BASIC SAFETY RULES

To ride a motorcycle, you must satisfy certain legal requirements (driving license, minimum age, health condition and fitness, insurance, road tax, vehicle legislation, license plate, etc.).

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

Alcohol, drugs, psychotropic substances and some medicines may increase the risk of an accident.

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

Most road accidents are caused by inexperienced riders.

NEVER lend the vehicle to beginners and always make sure that the rider meets the necessary riding requirements.

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

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

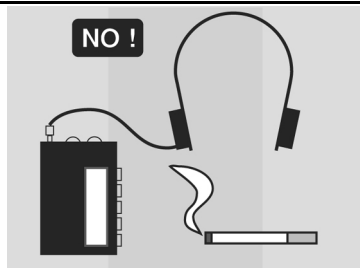
Avoid obstacles that may damage the vehicle or make you lose control.

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

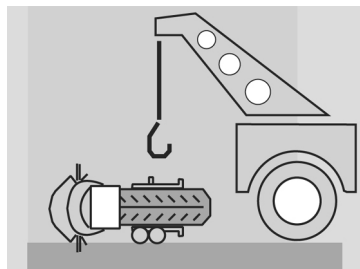
CAUTION



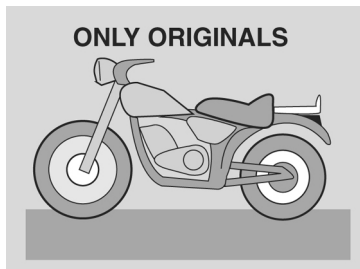
ALWAYS KEEP BOTH HANDS ON THE HANDLEBARS AND BOTH FEET ON THE FOOTREST PLATFORM (OR ON THE FOOTRESTS), IN THE CORRECT RIDING POSTURE.



02_09



02_10



02_11

Do not stand up and stretch your limbs while riding.

Do not allow yourself to be distracted or influenced by people, objects or actions (do not smoke, eat, drink or read etc.) while riding.

Use only the recommended fuel 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 system and critical parts for damage.

If necessary, have the vehicle inspected by an aprilia Official Dealer. Special attention should be paid to frame, handlebars, suspensions, 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 type or amount of damage makes it unsafe to ride.

Do not change the position, angle or colour of: license plate, turn indicators, lights and horns.

Any such changes to the vehicle will invalidate the guarantee.

Making changes to the vehicle and removing original parts may compromise vehicle performance and safety or even make it illegal to ride.

Observe all legal directives and national and regional regulations applicable to vehicle equipment.

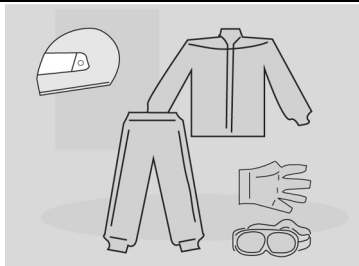
In particular, avoid any changes aimed at upgrading vehicle performance or alter the original specifications.

Do not race with the vehicle under any circumstances.

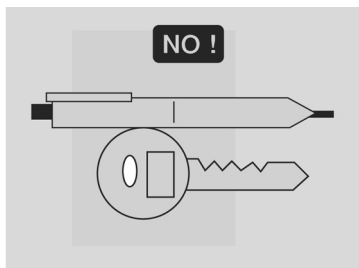
Do not ride off the road.

CLOTHING

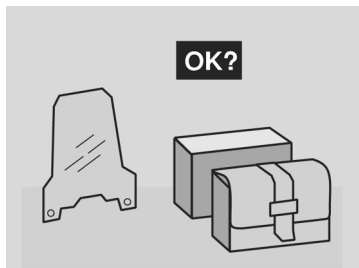
Before riding off, remember to put on your helmet and fasten it correctly. Make sure that the helmet you wear is approved for road usage, is not damaged, it fits correctly and that the visor



02_12



02_13



02_14

is clean.

Wear protective clothing, choosing bright and/or reflective colours. This will make you easily seen by other road users, thus reducing the risk of an accident and increasing your protection level in the event of a fall.

Wear tight-fitting clothing, fastened at the wrists and the ankles. Loose clothing or items such as strings, belts or neckties must not dangle. Make sure that these or other objects do not impair your driving by becoming entangled in the wheels or other moving parts.

Do not keep any sharp and potentially dangerous objects in your pockets such as: keys, pens, glass containers, etc. (the same applies to your passenger).

ACCESSORIES

The owner of the vehicle is responsible for the choice, installation or use of any accessories.

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

Do not install accessories that hinder access to controls and may thus lengthen your response time in the event of an emergency.

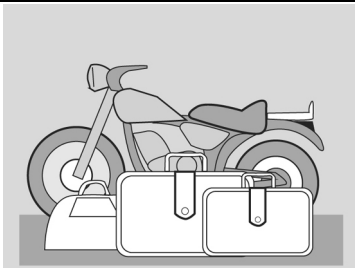
Large fairings and windshields affect vehicle's aerodynamic performance and its stability, especially at high speeds.

After installing any accessory, make sure it is firmly fastened 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 when riding, or a power shortage might render the horn or lights inoperative.

aprilia recommends the use of original accessories (**aprilia** genuine accessories).

LOADING



02_15

Do not overload your scooter. Keep packages as close as possible to the scooter centre of gravity and distribute load evenly on both sides to minimise imbalance. Check also that the load is firm and secured to the scooter, mainly for long trips.

Do not hang anything from your scooter's handlebars, mudguards or forks, such as protruding, bulky, heavy and/or dangerous objects: this will slow the scooter performance when turning and will upset the handling of your scooter.

Do not carry packages that protrude from vehicle sides as this may hit people or objects and result in loss of control of your scooter.

Never carry packages that are not securely fastened to the scooter.

Do not carry packages that protrude from the luggage rack or which cover any of the sound and light alarm devices.

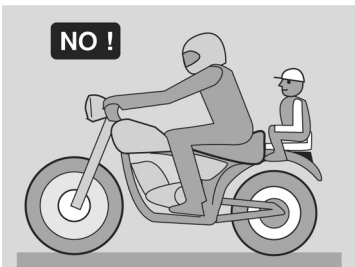
Never carry animals or small children on the glovebox or the luggage rack.

Never exceed the maximum weight allowed for each luggage rack.

Overloading the scooter may result in lack of stability and poor handling.



02_16



02_17

SX 50 - RX 50

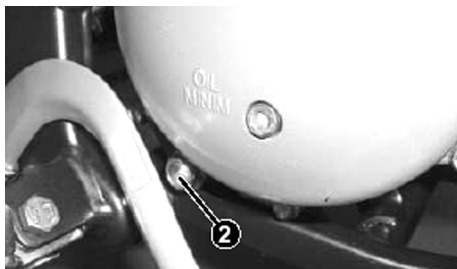
aprilia



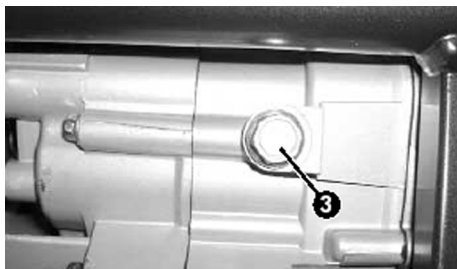
Chap. 03
Maintenance



03_01



03_02



03_03

Gearbox oil level (03_01, 03_02, 03_03)

Check the oil level at the time indicated in the vehicle maintenance table. To do so, make sure the vehicle is vertical, then carefully loosen the control screws on the engine right cover. Visually check that the oil level reaches the threaded hole. Should more oil be added, use only oil with the same specifications as the one present in the engine.

CAUTION

GEARBOX OIL IS TOXIC. DISPOSE IT PROPERLY

Replacement:

Replace oil for the first time after 1.000 Km are covered and, successively, every 10.000 Km. Replacement must be made with a warm engine. Once the filling cap «1» is removed, unscrew also the drainage cap «3» on the crankcase central section and the drainage cap «2» on the cover on the right side of the same crankcase and let the oil flow out. Tighten again, close the drainage caps and refill with 0.65 litres of oil. Once the operation is complete, check the level and lock the refilling cap. Use recommended oil only.

Recommended products

AGIP GEAR SYNTH SAE 75W-90

Transmission oil

SAE 75W-90

Transmission chain (03_04, 03_05, 03_06)

The chain life depends on its correct lubrication and adjustment. Any act of negligence or inattention in these procedures may cause damages and wearing in the pinion, chain and crown, seriously affecting the vehicle performance.

CHECKING THE TRANSMISSION CHAIN TENSION

Check the transmission chain tension periodically. The check must be made with the vehicle unloaded and in vertical position, and it must be repeated with the wheel in different positions to avoid link galling.

To check tension, move the chain at an intermediate point between the crown and the pinion. The chain backlash should be between 30 and 45 mm.

TENSION ADJUSTMENT

To keep the transmission chain clearance within the right values, loosen nut «A» of the wheel pin, screw the two adjusters «B» making the same number of turns for the right as for the left adjuster, so that the wheel is aligned. Once the chain has been adjusted, tighten the wheel axle nut to the specified torque (70-80 Nm).

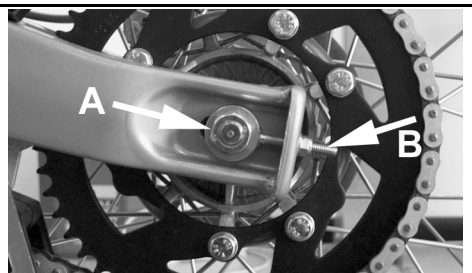


DO NOT ASSEMBLE A NEW CHAIN WITH A WORN PINION OR CROWN, OR VICE VERSA, SINCE NEW COMPONENTS WILL BE EASILY WORN.

LUBRICATION

To lubricate the transmission chain, distribute grease in small quantities on the spaces between rollers and links while turning the wheel.

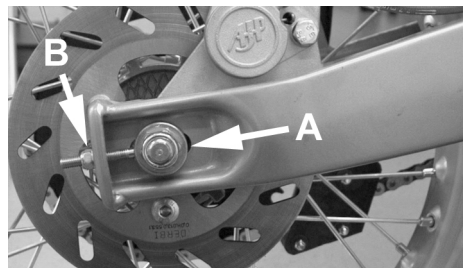
Use special oil for O-ring chains.



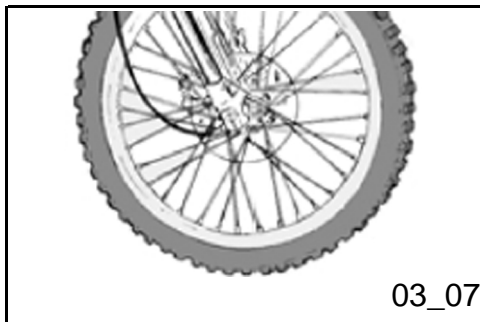
03_04



03_05



03_06



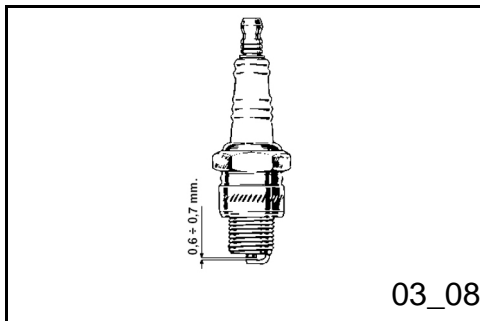
Tyres (03_07)

Periodically check the inflation pressure of each tyre.

Also check that the tyres do not show cuts on the side or irregular tread wear; if this occurs, go to an authorised workshop or at least a workshop equipped for replacement.



THE TYRE PRESSURE SHOULD BE CHECKED WHEN THE TYRES ARE COLD. WRONG PRESSURE MAY CAUSE NOT ONLY AN ABNORMAL TYRE WEAR, BUT ALSO VEHICLE UNSTEADINESS LEADING TO DANGER WHEN RIDING. THE TYRE MUST BE REPLACED WHEN THE TREAD REACHES THE WEAR LIMITS REQUIRED BY LAW.



Spark plug dismantlement (03_08)

Dismantle the spark plug periodically, check electrodes and wear. Use a thickness gauge and check that the distance between electrodes is correct. Replace spark plugs using the recommended brands within the expiration dates indicated in the vehicle maintenance table.



THE USE OF AN INAPPROPRIATE SPARK PLUG MAY CAUSE SERIOUS DAMAGE TO THE ENGINE.

Characteristic

RX SX spark plug and electrode gap

NGK BR8ES / $0.6 \pm 0.7 \text{ mm}$



THE SPARK PLUG MUST BE REMOVED WHEN THE MOTOR IS COLD. THE USE OF SPARK PLUGS OF DIFFERENT THERMAL GRADE FROM THAT REQUIRED OR WITH INAPPROPRIATE THREADS MAY SERIOUSLY DAMAGE THE ENGINE.

Air filter cleaning (03_09, 03_10, 03_11)

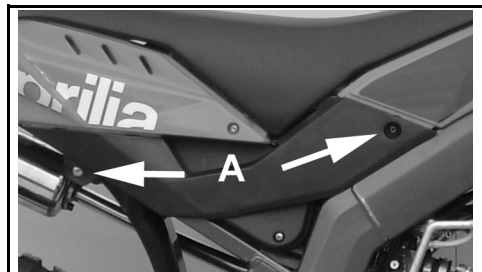
Check the cleaning state and conditions of the filter every 5000 Km and every time the vehicle is used on non-asphalted roads. Proceed as follows:

- Remove the saddle
- Remove the right fairing undoing the two fixing screws «A»
- Remove the 2 screws «B» indicated in the figure
- Move fairing «C» up until it is possible to reach the filter
- Unscrew the 4 fixing screws of the air filter housing and take the air filter out;
- Remove the filtering element;
- Wash the sponge in container with filter oil, gently pressing it several times;
- After washing, gently squeeze the filtering element, let it drip dry and then refit it.

Be extremely careful when refitting and repositioning the sponge in its support in the housing, do so in a way that all the sealing lip perimeter makes contact with the sponge. Tighten the 4 fixing screws of the filter cover respecting the fact that the 2 longest screws are the lower ones.



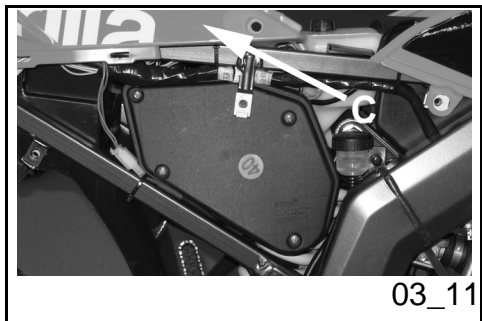
IF THE FILTER IS OBSTRUCTED, THE ADMISSION RESISTANCE WILL INCREASE, LEADING TO POWER LOSS AND FUEL CONSUMPTION WILL INCREASE.



03_09



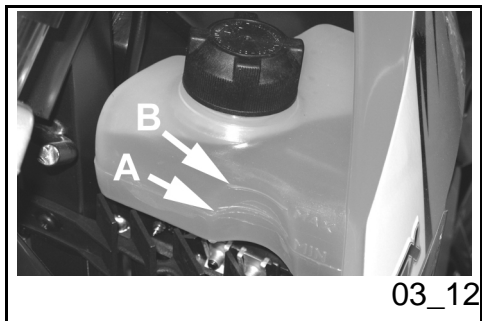
03_10



Recommended products

AGIP OIL FILTER

Oil for sponge air filters



Cooling fluid level (03_12)

Every 1,000 km or after a long journey, the coolant level must be checked with a cold engine, the level must be between the minimum «A» and the maximum «B».

To replace the coolant, remove the expansion reservoir cap and disconnect the hose from the radiator to the water pump and empty it.

After having reinserted the coupling, refill the circuit with coolant, through the expansion tank cap placed on the left side of the scooter.



IN ORDER TO AVOID BURNS, DO NOT UNSCREW THE EXPANSION TANK CAP WHILE THE ENGINE IS STILL HOT.

Recommended products

AGIP ANTIFREEZE PLUS

Coolant

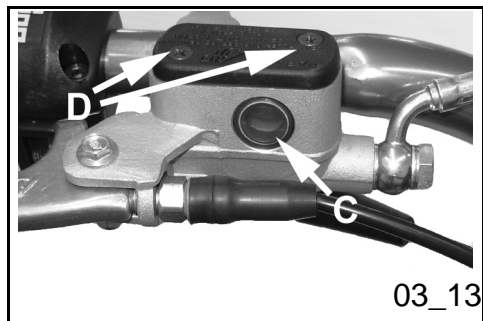
CUNA NC 956 - 16

The cooling circuit approximate capacity is 800 cc.

SYSTEM CHECK:

- Check the manifold conditions.
- If during scooter normal use the high temperature indicator lights up, stop the engine and wait so the coolant becomes cool. After that, with cold engine, check the coolant level and top up, if necessary. Never take the expansion tank cap out with the coolant at high temperature.
- To refill with coolant, the engine must be cold.

The coolant should be replaced every 2 years. Take your scooter to an **Aprilia Authorised Workshop** for replacement.



Checking the brake oil level (03_13, 03_14)

Brake fluid

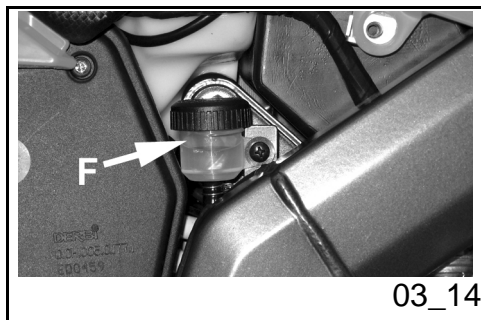
Check the brake fluid reservoir level periodically. Fluid level should be at the upper margin of the inspection sight glass as shown in the photograph. If necessary, refill it with the recommended hydraulic fluid. Do not mix different types of liquid. Do not operate the brake lever when the reservoir is open or the highly corrosive fluid can spill out. Make sure that the water and the brake fluid do not mix. Due to humidity absorption, it is advisable to change the fluid every two years.



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



DO NOT LET THE HIGHLY CORROSIVE BRAKE FLUID CONTACT PAINTED PARTS. SHOULD THIS OCCUR, IMMEDIATELY WASH OFF WITH WATER.



WARNING

THE BRAKE FLUID IS HYGROSCOPIC, IN OTHER WORDS, IT ABSORBS HUMIDITY FROM THE SURROUNDING AIR. IF THE HUMIDITY IN THE BRAKE FLUID EXCEEDS A CERTAIN VALUE, STEAM BUBBLES CAN BE FORMED OR GALLING CAN BE PRODUCED IN THE BRAKE PUMP OR CALLIPER WHICH MAY BLOCK THE BRAKES. NEVER USE BRAKING FLUID KEPT IN CONTAINERS THAT HAVE ALREADY BEEN OPENED, OR PARTIALLY USED.



IN NORMAL CLIMATIC CONDITIONS IT IS ADVISABLE TO REPLACE THE ABOVE-MENTIONED FLUID EVERY 2 YEAR. NEVER USE BRAKE FLUID CONTAINED IN CONTAINERS THAT ARE ALREADY OPEN OR PARTIALLY USED.



USE SPECIFIC SYNTHETIC BRAKE FLUIDS. MINERAL BRAKE FLUID CAUSES IRRE-MEDIABLE DAMAGE TO THE SPECIAL RUBBER GASKETS OF THE BRAKING SYSTEM.

Braking system fluid top up

Air in the braking system.

If brake lever clearance becomes excessive or the lever has an elastic behaviour, purge air from the braking system.

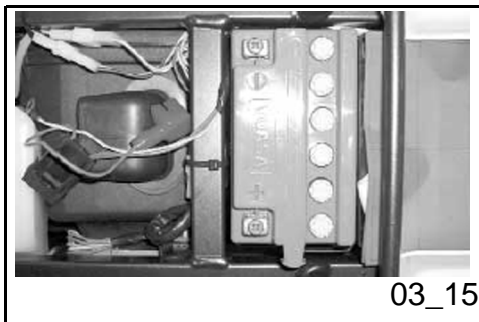
Air purging.

Fit a transparent plastic pipe to the bleed valve. Operate the brake lever, loosen the bleed screw letting the fluid pour out; tighten the bleed valve before the brake lever reaches the end of the stroke; release the brake lever. Do this procedure until all air in the calliper is purged. After purging the air, top up the reservoir with DOT 4 hydraulic fluid.

Recommended products

AGIP BRAKE FLUID DOT 4 PLUS*Brake fluid*

As an alternative to the recommended fluid, other fluids with performance equal to or higher than the specifications may be used. Synthetic fluid SAE J1703, NHTSA 116 DOT 4, ISO 4925

**Battery (03_15)****Battery**

For battery access, it is necessary to insert the key on the tank cover lock, turn the key rightwards and lift the cover. Remove the two fixing knobs of the saddle and take it out. The battery compartment is under the saddle. The battery is the electrical device that requires the most frequent inspections and diligent maintenance. The main points of maintenance to be observed are as follows:

Battery maintenance

- Check electrolyte level: The electrolyte level must be checked frequently and must reach the maximum level. To restore such level use only distilled water. If it is necessary to add water very frequently, control the scooter electrical system; most likely the battery is overloaded and gets damaged in a short time.
- Keep the tank caps perfectly closed. It is important.
- Keep the upper part perfectly clean, dry and away from corrosive materials. The battery terminals must be cleaned and greased to avoid corrosion.
- Check the battery residual capacity with a densitometer. 1.265 or most, it is considered a good capacity: if less, the battery must be charged. The recommended recharge tension is $0.5 \div 1$ Ampere until the advisable charge is obtained.
- The battery, if not used, discharges between 0,5% and 1% every day. This measure increases with temperature. To compensate, a recharge must be done once a month.
- Batteries contain sulphuric acid. Avoid contact with skin, eyes and clothing.



WHEN RECHARGING THE BATTERY, DO NOT EXCEED THE MAXIMUM INTENSITY OF 0.5 ÷ 1 AMPERE, OTHERWISE THE BATTERY WOULD BE SERIOUSLY DAMAGED.



BATTERIES CONTAIN VERY ENVIRONMENTAL DANGEROUS SUBSTANCES. FOR BATTERY REPLACEMENT, TAKE THE SCOOTER TO AN AUTHORISED APRILIA SERVICE CENTRE, AS THEY ARE EQUIPPED FOR BATTERY DISPOSAL IN AN ENVIRONMENTALLY FRIENDLY WAY AND IN COMPLIANCE WITH THE LAW

Use of a new battery

To replace the battery, it must be done using another with the same capacity and voltage: 12V, 4Ah.



FOR A CORRECT EXHAUSTED BATTERY DISPOSAL, IT IS ADVISABLE TO HAVE IT REPLACED AT AN OFFICIAL APRILIA SERVICE CENTRE. BATTERIES CONTAIN, AMONG OTHER SUBSTANCES, SULPHURIC ACID SO, UNDER NO CIRCUMSTANCES, THEY SHOULD BE DISPOSED OF CONTAINERS FOR ORGANIC WASTE.

Long periods of inactivity

Battery performance will decrease if the vehicle is not used for a long time.

This is the result of the natural phenomenon of battery discharging: this may be due to residual absorption by scooter components with constant power consumption.

Poor battery performance may also be due to environmental conditions and the cleanness of the poles.

In order to avoid start-up problems and/or irreversible damage to the battery, follow any of these steps:

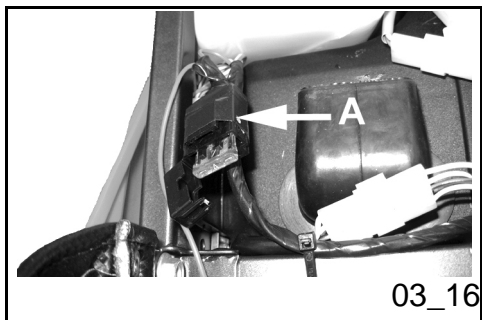
- **At least once a month** start up the engine and keep it running slightly above idle for 10-15 minutes. This keeps all the engine components, as well as the battery, in good working order.
- Store the vehicle with the battery removed. Have the battery cleaned, charged fully and stored in a dry, ventilated place. Recharge **at least once every two months**.

CAUTION

THE CHARGE MUST BE MADE WITH A CURRENT EQUAL TO 1/10 OF THE RATED CAPACITY OF THE BATTERY AND FOR NOT LONGER THAN 8 HOURS TAKE YOUR SCOOTER TO AN AUTHORISED APRILIA SERVICE CENTRE TO CARRY OUT THIS OPERATION SAFELY. WHEN REFITTING THE BATTERY MAKE SURE THE LEADS ARE CORRECTLY CONNECTED TO THE TERMINALS.



IN ORDER TO AVOID DAMAGING THE ELECTRIC SYSTEM, NEVER DISCONNECT THE WIRING WHILE THE ENGINE IS RUNNING. ELECTROLYTE CONTAINS SULPHURIC ACID: AVOID CONTACT WITH EYES, SKIN AND CLOTHES. IN THE CASE OF CONTACT, RINSE WITH PLENTY OF WATER AND CONSULT A DOCTOR. PAY ATTENTION NOT TO TIP THE VEHICLE EXCESSIVELY, IN ORDER TO AVOID DANGEROUS LEAKAGE OF BATTERY ELECTROLYTE.



Fuses (03_16)

The electrical system is protected by a 4 ampere fuse located on the fuse box «A» on the battery positive cable under the saddle. Before replacing a blown fuse, find and solve the problem that caused it to blow. Do not replace the fuse with any alternative form of conductor

BULBS

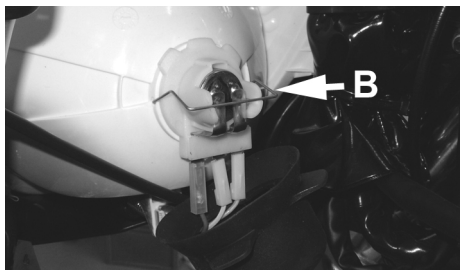
Specification	Desc./Quantity
Front headlamp bulbs	12V. 35/35 W. Type: Double filament
Turn indicators bulb:	12 V, 10 W
LED tail light/stop bulb	12 V LED type

Front light group (03_17, 03_18)

Unscrew two of the four rubber retainers on the same side of the fork. Detach the front cowl to reach the headlight assembly rear part. Remove the protection «A» and disengage the lock «B» in order to take out the bulb. The bulb has a bayonet coupling, to remove it press gently and twist anticlockwise about 30° and then withdraw it.



03_17



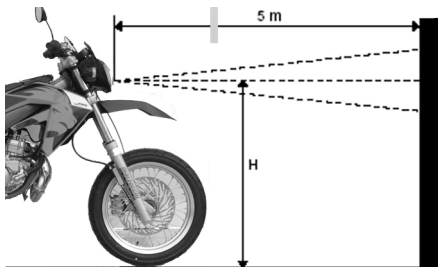
03_18

Headlight adjustment (03_19, 03_20)

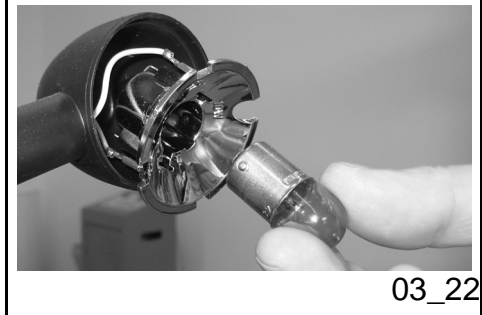
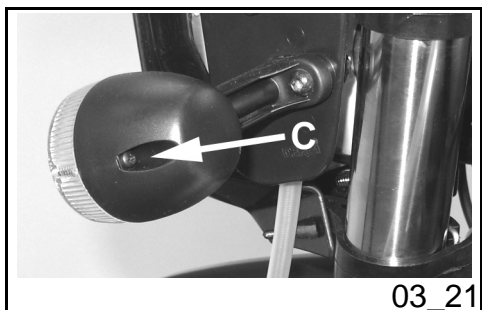
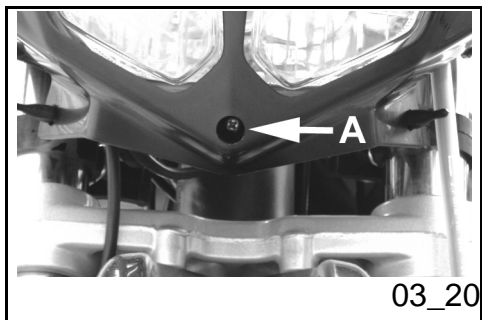
Place the vehicle over on a horizontal floor in front of a white screen placed at a 10 m distance, in a darkened area with the vehicle in perpendicular position to the screen. Start the engine and pull the throttle to 1/3 of its stroke, then turn the headlamp on. Select low-beam light, the maximum demarcation limit between the dark and the light area, must result in a height inferior to a 8/10 height from the ground to the centre of the headlight. The front headlight pointing must be done with screw «A». Before pointing the headlight, check that the tyres are inflated at the indicated pressure.

CAUTION

LIGHT BEAMS HEIGHT MUST BE WITHIN THE LEGAL LIMITS OF THE COUNTRY WHERE THE VEHICLE IS USED".



03_19



Front direction indicators (03_21, 03_22)

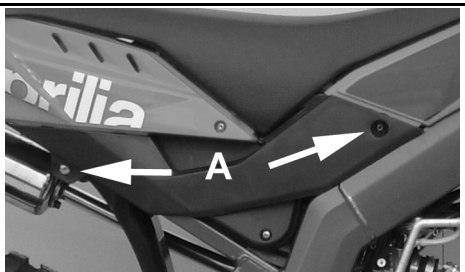
To replace the turn indicator bulbs, loosen screw «C» from the transparent plastic. The bulbs have a bayonet coupling, to remove them press gently and twist anticlockwise about 30° and, then, withdraw them.

Rear optical unit (03_23, 03_24, 03_25, 03_26, 03_27)

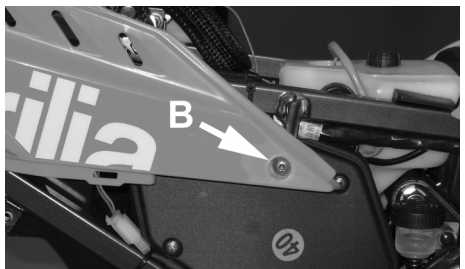
Replace the whole light if a led burns out.

To replace the rear light follow these steps:

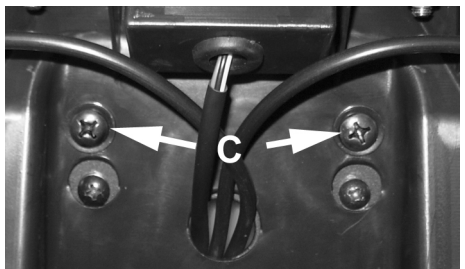
- Remove the two side fairings undoing the fixing screws «A»
- Remove the 2 screws «B»
- Remove the 2 screws «B» located in the wheel compartment
- Slide the rear tail off the frame
- Remove the two nuts «D» fixing the lights to the frame, which are located in the wheel compartment
- Disconnect the connector «E» and remove the light



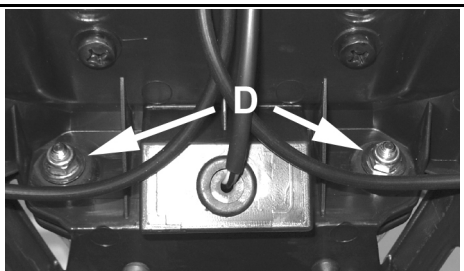
03_23



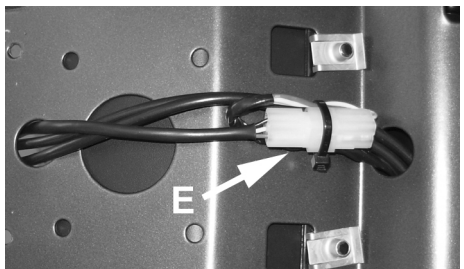
03_24



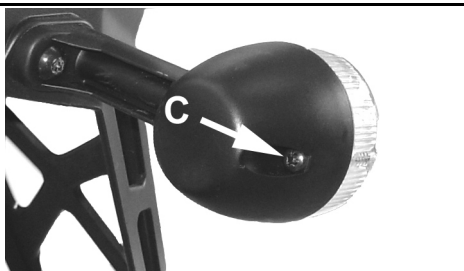
03_25



03_26



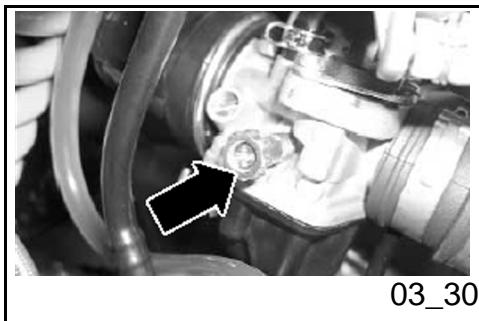
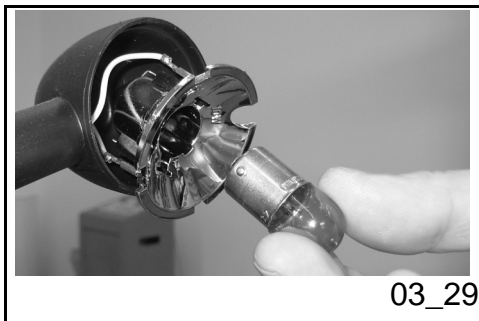
03_27



03_28

Rear turn indicators (03_28, 03_29)

To replace the turn indicator bulbs, loosen screw «C» from the transparent plastic. The bulbs have a bayonet coupling, to remove them press gently and twist anticlockwise about 30° and, then, withdraw them.



Idle adjustment (03_30)

Carburettor

Trouble-free carburetion is the basis for a good engine performance. The carburettor is regulated in factory to perform the best carburetion. Do not alter this adjustment.

Adjusting the idle speed

This operation must be carried out with hot engine, in neutral position and with no acceleration.

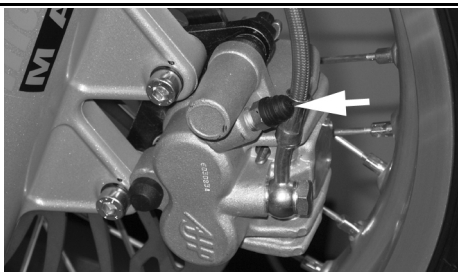
Turn the idle speed set screw clockwise and anticlockwise until the engine idle speed stabilises at a point where the engine works regularly, with no uncertainty and is not over accelerated. For a more accurate adjustment or any other carburettor adjustment, take your scooter to an **Aprilia Authorised Workshop**.

WARNING

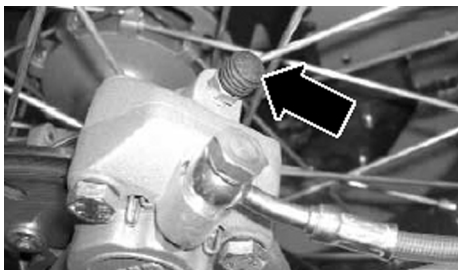
IT IS CONVENIENT TO MAKE A CARBURETTOR CLEANING PERIODICALLY WITH CLEAN PETROL AND PRESSURED AIR.

CAUTION

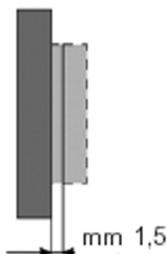
MAKE ALWAYS THE ENGINE IDLE SPEED ADJUSTMENT WITH A HOT ENGINE.



03_31



03_32



03_33

Front and rear disc brake

The disc brakes, compared to drum brakes, have the following specifications and advantages:

- The heat evacuation from friction surfaces is very efficient, since discs turn with direct air contact. This is the reason why they always have a steady braking capacity, even when the brake is used repeatedly at high speed.
- No component of the disc brake is exposed to deformation due to very high temperatures.
- The pad change is simple and does not require difficult procedures.
- Constant functioning of front and rear brakes is ensured since, even in the case discs are wet due to rain, the capacity to recover braking power is excellent, due to the specifications of extreme pressure of the pads.

Front and rear disc brake (03_31, 03_32, 03_33)

Brake disc

The disc surface must be free of oil. Use alcohol and a soft cloth for cleaning.

Brake pads:

Brake squealing may be due to the following causes:

- Incorrect brake functioning
- Brake pad wearing. Excessive wear make the brakes squeal. When either case occurs, take your scooter to an **Aprilia Authorised Workshop**.

Hoses and Joints:

Check periodically that joints are not worn and joint connections have no leakage.

Transmissions (03_34, 03_35, 03_36, 03_37, 03_38)

THROTTLE GRIP

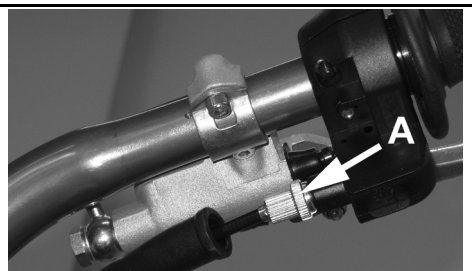
Check that the throttle grip turns freely with the handlebar at the end of the stroke at both sides. Check that the vacuum hand grip stroke is 4 mm. If necessary, adjust with the appropriate adjuster on the throttle grip «B» after removing the corresponding rubber cap.

CLUTCH

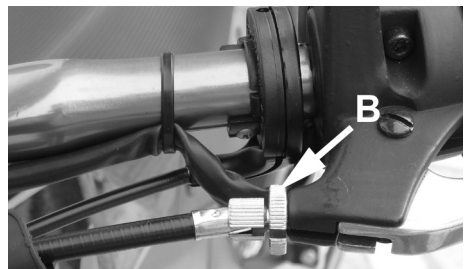
The handlebar clutch lever must have an 8 mm empty stroke, adjust it periodically with the adjuster «B» under the rubber cap.

BRAKES

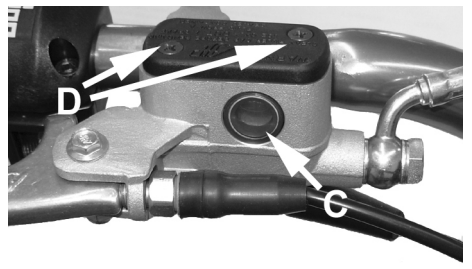
The front brake does not need adjustment and the only maintenance operation is checking the liquid level in the brake pump reservoir. The brake liquid reservoirs have a sight glass «C» of transparent material. With peephole «C» complete, the level inside the reservoir exceeds the Minimum; when the peephole is partially full, the level has decreased to the Minimum; when it is completely empty, the level is inferior to the Minimum. Worn brake pads may cause the decrease of the brake liquid level. Should the level be below the minimum, the Customer is advised to contact an **Aprilia Authorised Workshop** for a thorough check of the braking system. If you need to top up the level, follow the steps listed below. For the front brake, unscrew the 2 screws «D», lift the cover of the brake liquid tank and introduce the necessary liquid quantity, (liquid must always be over the minimum level). For the rear brake, remove the right side fairing undoing the two screws «E» and remove the reservoir cap «F» by turning it anticlockwise. Add the necessary quantity of fluid (fluid must always be above the minimum level). Checking levels must be made with the tank in horizontal position, without vehicle inclination.



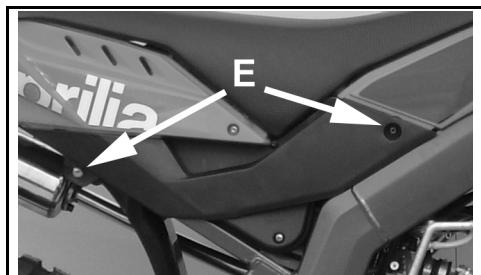
03_34



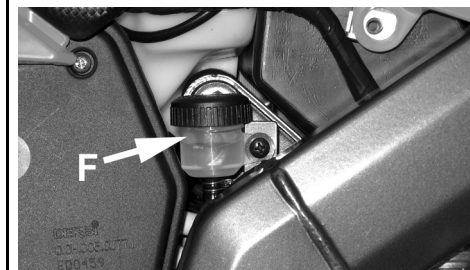
03_35



03_36



03_37



03_38

Periods of inactivity

We recommend carrying out the following operations:

1. General cleaning of the vehicle.
2. With the engine off and the piston in the bottom dead centre position, remove the spark plug, and pour $1 \div 2$ cc. of the recommended oil through the hole. Press the engine start pedal 3 or 4 times letting the engine perform a few revolutions, then replace the spark plug.
3. Detach the cables from the battery to the terminals, remove the battery and put it on a cool and dry place.
4. Inflate the tyres and rest the scooter on the front and rear stands so that the tyres do not

touch the ground.

5. Empty the fuel tank and bleed the petrol in the carburettor tray through the corresponding cap.

CAUTION

THE BATTERY MUST BE RECHARGED WITH A CURRENT LOAD EQUAL TO 1/10 OF THE BATTERY RATED CAPACITY AND FOR A PERIOD NOT LONGER THAN 8 HOURS. TAKE YOUR SCOOTER TO AN AUTHORISED APRILIA SERVICE CENTRE TO CARRY OUT THIS OPERATION SAFELY. WHEN REFITTING THE BATTERY MAKE SURE THE LEADS ARE CORRECTLY CONNECTED TO THE TERMINALS.



IN ORDER TO AVOID DAMAGING THE ELECTRIC SYSTEM, NEVER DISCONNECT THE WIRING WHILE THE ENGINE IS RUNNING. ELECTROLYTE CONTAINS SULPHURIC ACID: AVOID CONTACT WITH EYES, SKIN AND CLOTHES. IN THE CASE OF CONTACT, RINSE WITH PLENTY OF WATER AND CONSULT A DOCTOR. PAY ATTENTION NOT TO TIP THE VEHICLE EXCESSIVELY, IN ORDER TO AVOID DANGEROUS LEAKAGE OF BATTERY ELECTROLYTE.

Cleaning the vehicle

In order to soften the dirt and mud deposited on the surfaces, use a low pressure blast of water. Once softened, mud and dirt must be removed with a soft sponge for bodywork soaked in lots of water and "shampoo" (2-4% of car shampoo in water). Then rinse abundantly with water, and dry with a shammy cloth.



DETERGENTS POLLUTE WATER. THEREFORE THE SCOOTER SHOULD BE WASHED IN AN AREA EQUIPPED FOR THE COLLECTION AND PURIFICATION OF THE LIQUIDS

USED.



NEVER WASH THE SCOOTER IN THE SUN, ESPECIALLY DURING THE SUMMER WHEN THE BODYWORK IS STILL HOT, AS THE SHAMPOO MAY DRY BEFORE BEING RINSED OFF, AND COULD DAMAGE THE PAINTWORK. NEVER USE RAGS SOAKED IN PETROL OR DIESEL OIL TO CLEAN THE PAINTED SURFACES OR PLASTIC SURFACES, TO PREVENT THEM LOSING THEIR SHINE AND MECHANICAL CHARACTERISTICS.



WHEN WASHING THE ENGINE WITH A HIGH-PRESSURE WATER JET:

- ONLY USE THE FAN JET.
- DO NOT PLACE THE GUN CLOSER THAN 60 CM.
- DO NOT USE WATER AT TEMPERATURES OF OVER 40°C.
- DO NOT DIRECT THE JET AT: THE CARBURETTOR, THE WIRING.

DIFFICULT STARTING

Possible Cause	Operation
Empty tank. Obstructed or dirty filters, nozzles or carburettor body.	Filling. Dismantle and wash with petrol Dry with pressured air

IGNITION FAULTS

Possible Cause	Operation
The spark plug do not release sparks. Have H.V. checked by specialised technician.	Check the electrodes, adjustment at 0,5 - 0,6 mm. Clean the electrodes with pure petrol and a metallic brush. Check if there is any fracture or crack in the isolating spark plug and replace if necessary. If the spark plug is in good conditions, take your scooter to an Aprilia Authorised Workshop .
- Engine flooded.	Accelerate and try to start, even pushing, make the engine work at idle and eliminate excessive fuel, clean the spark plug or replace it. Check the sealing of the flotation gear valve pin.

HIGH FUEL CONSUMPTION

Possible Cause	Operation
Air filter obstructed or dirty.	Clean or replace the filter.

LACK OF COMPRESSION

Possible Cause	Operation
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Spark plug adaptor with damaged thread, loose head retainer, worn piston rings.	Take your scooter to an Aprilia Authorised Workshop .
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EXHAUST NOISE WEAKENING

Possible Cause	Operation
Muffler obstructed	Take your scooter to an Aprilia Authorised Workshop .

THE ENGINE TENDS TO STOP WITH MAXIMUM ACCELERATION

Possible Cause	Operation
Check that the throttle valve is not dirty or rusted. Check that the spark plug is not dirty or faulty, that the fuel is supplied normally, the washers are leak-tight.	Take your scooter to an Aprilia Authorised Workshop .

IRREGULAR ENGINE EXHAUST, BLASTS DURING ACCELERATION OR SLOPES

Possible Cause	Operation
Check that the throttle valve is not dirty or rusted. Check that the	Take your scooter to an Aprilia Authorised Workshop .

spark plug is not dirty or faulty,
that the fuel is supplied normally,
the washers are leak-tight.

STARTER GRIP LOCKED IN POSITION OR ONLY PARTIALLY OPEN

Possible Cause	Operation
Unblock and lubricate it	Take your scooter to an Aprilia Authorised Workshop .

INSUFFICIENT BRAKING

Possible Cause	Operation
Disk lubricity, worn pads. Wrong brake adjustment. Air in the braking system.	Take your scooter to an Aprilia Authorised Workshop .

FAULTY SUSPENSIONS

Possible Cause	Operation
Oil leak, silent-block wearing at the end of the stroke, wearing in shock absorber retainers.	Take your scooter to an Aprilia Authorised Workshop .

**ENGINE DOES NOT ACCELERATE OR WORK
REGULARLY AT LOW RPM; NOISY ENGINE
FUNCTIONING**

Possible Cause	Operation
Engine does not accelerate or work regularly at low rpm; noisy engine functioning, clutch malfunctioning, gear spontaneous disengagement, malfunctioning of controls or steering.	Take your scooter to an Aprilia Authorised Workshop .

SX 50 - RX 50

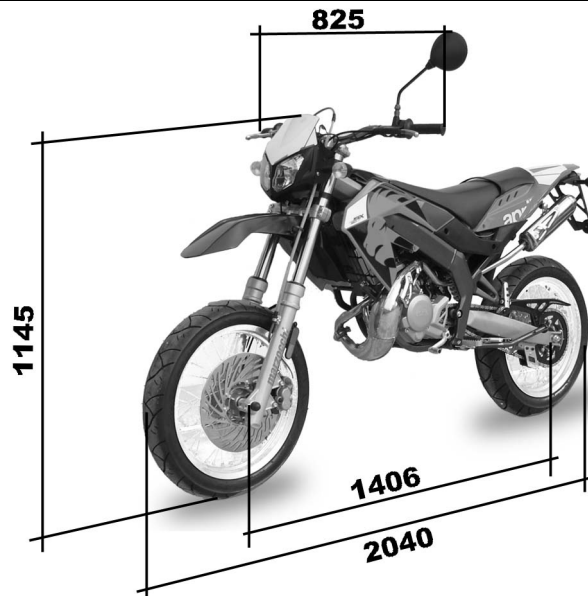
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Chap. 04
Technical data



04_01



04_02

50 6M ENGINE TECHNICAL DATA

Specification	Desc./Quantity
Engine	Single-cylinder 2 strokes of aluminium with inner nickel coating and silicon carbide.
Diameter per stroke	39,86 X 40 mm

Cubic capacity	49 cm ³
Compression ratio	11.5 :1
Cooling	With coolant
Lubrication	<p>Thermal group: With engine oil 2T through pump and variable capacity</p> <p>Transmission: With oil-coated gear for transmissions</p>
Fuel	Unleaded petrol
Carburettor	Dell'Orto PHVA-17.5 with manual starter
Clutch	Oil-coated multiple disk
Main transmission	At rectified gears. Ratio: 21/78
Inlet	Reed, directly to the crankcase
Transmission	At 6 speeds with selector, fork and drum distributor operated by external control
Speeds	<p>First Speed 11/34</p> <p>Second Speed 15/30</p> <p>Third Speed 18/27</p> <p>Fourth Speed 20/24</p> <p>Fifth Speed 22/23</p> <p>Sixth Speed 23/22</p>

Secondary transmission	Through chain, 12.70 mm pitch and 7.75 mm diameter link stud Ratio: 11/53
Start-up	With pedal
Electrical system	A 12V
Ignition advance	TDC: 1,2 mm
Spark plug	NGK BR8 ES

RX SX 50 SCOOTER TECHNICAL DATA

Specification	Desc./Quantity
Chassis	Double diagonal beams.
Front suspension:	Hydraulic fork with 40 mm diameter stems.
Rear suspension:	Swinging with hydraulic progressive shock absorber.
Front wheel brake:	Hydraulic disc Ø 260 mm (RX) Ø 300 mm (SX)
Rear wheel brake:	Hydraulic disc Ø 180 mm.
Front tyre:	90/90 x 21" (RX) 100/80 x 17" (SX)

Rear tyre:	110/80 x 18" (RX)
	130/70 x 17" (SX)
Petrol tank	7 litres (of which 1.3 l is reserve)
Oil mixer tank	1 litre (of which 0.25 l is reserve)
Total length:	2090 mm (RX)
	2040 mm (SX)
Centre to centre distance	1412 mm (RX)
	1406 mm (SX).
Overall width	825 mm
Maximum height	1190 mm (RX)
	1145 mm (SX)

SX 50 - RX 50

aprilia



Chap. 05
Programmed
maintenance

AFTER 1000 KM

Action

Coolant- Change

Air filter - cleaning

Odometer cable - greasing

Steering - check up

Brake control levers - Greasing

Brake pads - check

Transmission chain - greasing

Tension transmission chain - check

Safety locks - check

Front fork- Check

Electrical system and battery - Check

Wheel - Check

Tyres pressure - Check

Fuel and oil hoses - Check

Vehicle and brake test - test ride

Engine oil - change

Spark plug/electrode gap - check

Carburettor - Adjustment

Clutch control lever - Adjustment

Scheduled maintenance table

Adequate maintenance is fundamental to ensure long-lasting, optimal operating conditions and performance of your scooter.

For this purpose, Aprilia offers a set of checks and maintenance services for payment, which are included in the summary table shown on the following page. Any minor failures should be reported without delay to an **Aprilia Dealer or Authorised Retailer** without waiting until the next scheduled service coupon to solve the problem.

It is essential to carry out the vehicle servicing as soon as the prescribed distance has been reached. Carrying out scheduled service coupons on time is necessary to ensure your warranty remains valid. For further information concerning Warranty procedures and fulfilment of "Scheduled Maintenance" operations, please refer to the "Warranty Booklet".

A 5,000; 25,000; 35,000; 55,000 Km

Action
Coolant level - check
Air filter - cleaning
Brake control levers - Greasing
Brake pads - check
Brake fluid level - check
Transmission chain - greasing
Tension transmission chain - check
Front fork- Check
Electrical system and battery - Check

Tyre condition and wear - Check

Tyres pressure - Check

Fuel and oil hoses - Check

Vehicle and brake test - test ride

Engine oil - Check

Spark plug/electrode gap - replacement
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Carburettor - Adjustment

Clutch control lever - Adjustment

A 10,000; 20,000; 40,000; 50,000 Km

Action

Coolant- Change

Air filter - cleaning

Radiator - Cleaning

Odometer cable - greasing

Steering - check up

Brake control levers - Greasing

Brake pads - check

Brakes hoses- Check

Transmission chain - greasing

Tension transmission chain - Replacement
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Safety locks - check
Front fork - Replacement
Rear shock absorber - Check
Electrical system and battery - Check
Headlight - Adjustment
Tyre condition and wear - Check
Wheel - Check
Tyres pressure - Check
Oil filter -Replacement
Fuel and oil hoses - Replacement
Vehicle and brake test - test ride
Engine oil - change
Spark plug/electrode gap - replacement
Carburettor - Adjustment
Clutch control lever - Adjustment

A 15,000; 30,000; 45,000; 60,000 Km

Action
Coolant level - check
Air filter - cleaning
Brake control levers - Greasing

Brake pads - check
Brake fluid level - check
Transmission chain - greasing
Tension transmission chain - check
Front fork- Check
Electrical system and battery - Check
Tyre condition and wear - Check
Tyres pressure - Check
Fuel and oil hoses - Check
Vehicle and brake test - test ride
Engine oil - Check
Spark plug/electrode gap - replacement
Carburettor - Adjustment
Clutch control lever - Adjustment
Cylinder head and cylinder - Cleaning
Complete piston - Replacement

EVERY 2 YEARS

Action
Brake fluid - Change

RECOMMENDED PRODUCTS TABLE

Product	Description	Specifications
AGIP SPEED 2T	Oil mixer	Synthetic oil that passes API TC ++ specifications
AGIP GEAR SYNTH SAE 75W-90	Transmission oil	SAE 75W-90
AGIP ANTIFREEZE PLUS	Coolant	CUNA NC 956 - 16
AGIP BRAKE FLUID DOT 4 PLUS	Brake fluid	As an alternative to the recommended fluid, other fluids with performance equal to or higher than the specifications may be used. Synthetic fluid SAE J1703, NHTSA 116 DOT 4, ISO 4925
AGIP GREASE 30	Grease for the steering bearings, pin seats and swinging arm	NLG12



THE VALUE OF GOOD SERVICE

Only the mechanics of the official Aprilia service network know this vehicle well, thanks to constant technical professional development and Aprilia-specific training programmes, and have the tools needed to carry out maintenance and repair operations correctly.

The bike's reliability also depends on its mechanical condition. Checking the vehicle before setting off, carrying out routine maintenance and using only Aprilia original spare parts is crucial!

To find out which is your nearest official dealer and/or service centre, use the Yellow Pages or the map provided on our official Internet site:

www.aprilia.com

Only by asking for Aprilia original spare parts will you get a product designed and tested during the bike's development phase. Aprilia original spare parts are subject to systematic quality control procedures so that their reliability and performance over time is guaranteed.

The descriptions and illustrations supplied in this publication are not meant to be binding. While the basic features as described and illustrated in this manual remain unchanged, Aprilia reserves the right, at any time and without being required to update this publication beforehand, to make any changes to components, parts or accessory supplies, which it deems necessary to improve the product or which are required for manufacturing or commercial reasons.

Not all versions shown in this publication are available in all countries. The availability of individual versions should be checked with the official Aprilia sales network.

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