

APRILIA WOULD LIKE TO THANK YOU

for choosing one of its products. We have drawn up this manual to provide a comprehensive overview of your vehicle's quality features. Please read it carefully before riding the vehicle for the first time. It contains information, tips and precautions for using your vehicle. It also describes features, details and devices to assure you that you have made the right choice. We believe that if you follow our suggestions, you will soon get to know your new vehicle well and will use it for a long time at full satisfaction. This booklet is an integral part of the vehicle, and should the vehicle be sold, it must be transferred to the new owner.

SCARABEO 50 2T

The Aprilia logo consists of the word "aprilia" in a white, lowercase, sans-serif font, centered within a solid red rectangular background.

aprilia

The instructions in this manual are intended to provide a clear, simple guide to using your vehicle; brief descriptions of maintenance procedures and periodical controls to be carried out on the vehicle by **authorised Aprilia Dealers or Workshops have been also included**. The booklet also contains instructions for simple repairs. Any operations not specifically described in this manual require the use of special tools and/or particular technical knowledge: for these operations, please take your scooter to an **authorised Aprilia Dealer or Workshop**.



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 recommendations 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 starting the engine, read this manual carefully, particularly the "SAFE RIDING" section. Your safety as well as other's does not only depend on the quickness of your reflexes and agility, but also on how well you know your vehicle, its efficiency and your knowledge of the rules for SAFE RIDING. For your safety, get to know your vehicle well so as to safely ride and master it in road traffic IMPORTANT This booklet is an integral part of the vehicle, and should the vehicle be sold, it must be transferred to the new owner.

SCARABEO

50 2T

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

INDEX

INDEX

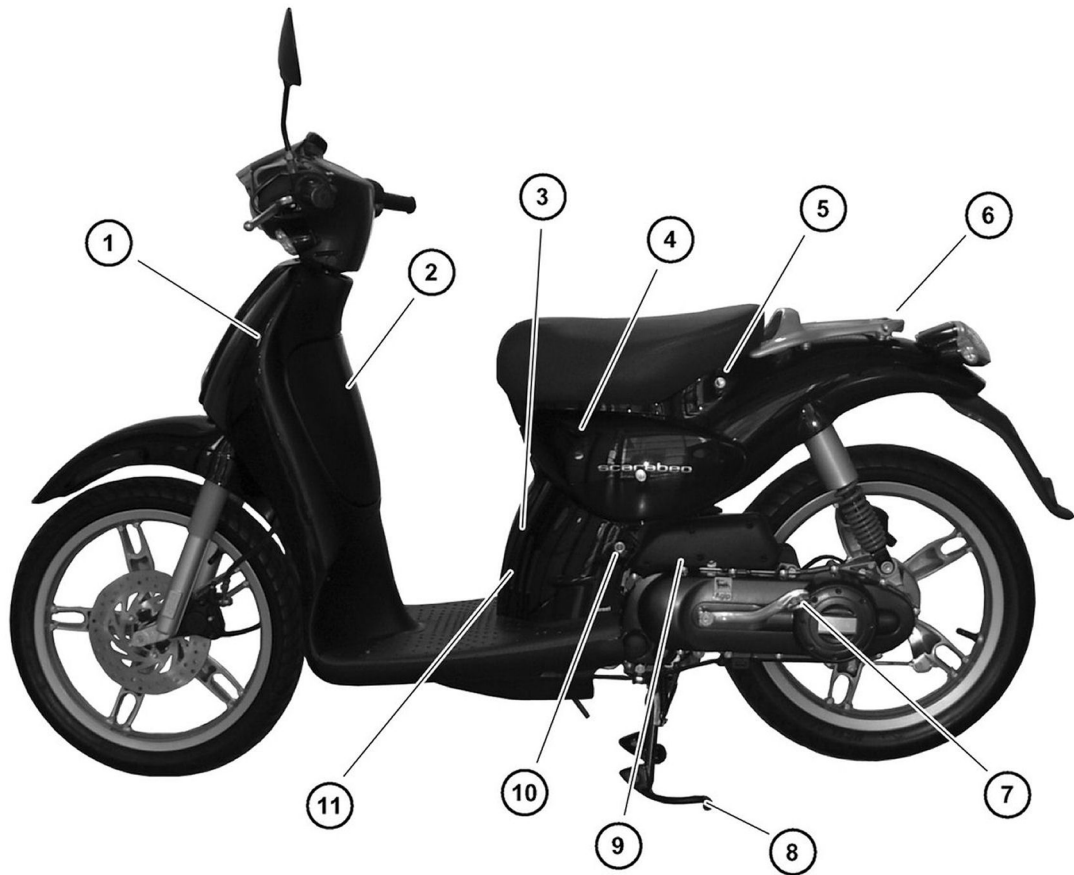
Chap. 01	Vehicle
Chap. 02	Use
Chap. 03	Maintenance
Chap. 04	Technical data
Chap. 05	Programmed maintenance
Chap. 06	Special fittings

SCARABEO

50 2T

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

Chap. 01
Vehicle



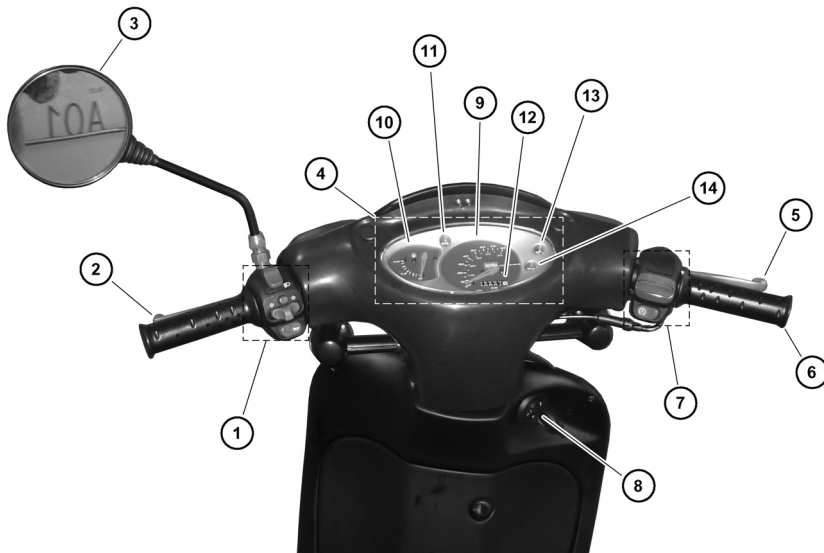


01_02

Arrangement of the main components (01_01, 01_02)

KEY:

1. Horn
2. Glovebox
3. Fuse box
4. Battery
5. Saddle lock
6. Luggage rack
7. Starting pedal
8. Centre stand
9. Air filter
10. Left passenger footrest (countries where available)
11. Inspection cover
12. Mixer oil reservoir
13. Mixer oil reservoir cap
14. Fuel tank cap
15. Bag hook
16. Front brake fluid reservoir
17. Ignition switch /steering lock
18. Chassis number cover
19. Spark plug
20. Right passenger footrest (countries where available)
21. Fuel tank



01_03

Dashboard (01_03)

KEY

1. Electrical controls on the left-hand side of the handlebars
2. Rear brake lever
3. Left rear-view mirror
4. Instruments and gauges
5. Front brake lever
6. Throttle grip

7. Electrical controls on the right-hand side of the handlebars
8. Ignition switch / steering lock (**ON - OFF - LOCK**)
9. Speedometer
10. Fuel gauge
11. Green turn indicators warning light
12. Odometer
13. Blue high-beam warning light
14. Red low mixer oil warning light

INSTRUMENT AND GAUGE DESCRIPTION

Turn indicator warning light «11»

Flashes when in turning mode.

Red low mixer oil warning light «14»

It turns on when the ignition switch is set to «**ON**», one brake lever operated and the starter button pressed, checking if the bulb is working adequately. Replace the bulb if it does not turn on upon starting the vehicle.

NOTE

IF THE BULB TURNS ON BUT DOES NOT GO OFF AFTER RELEASING THE STARTER BUTTON, OR IF IT TURNS ON DURING ORDINARY RIDING, THIS MEANS THE MIXER OIL LEVEL IS IN RESERVE; IF THIS OCCURS, TOP UP THE MIXER OIL.

Total odometer «12»

Shows the total number of kilometres covered.

Speedometer «9»

Shows riding speed.

High-beam warning light «13»

Turns on when the front headlamp is set to high-beam.

Fuel gauge «10»

Shows the approximate fuel level in the tank.

Key switch (01_04)

The ignition switch is found on the right-hand side, near the headstock.

NOTE

THE KEY ACTIVATES THE IGNITION/ STEERING LOCK SWITCH, THE SADDLE LOCK AND THE GLOVEBOX LID.

NOTE

TWO KEYS ARE SUPPLIED WITH THE VEHICLE (A SPARE ONE).

KEEP THE SPARE KEY IN A DIFFERENT PLACE, NOT WITH THE VEHICLE.

OFF: The engine and lights cannot be set to work. It is possible to withdraw the key.

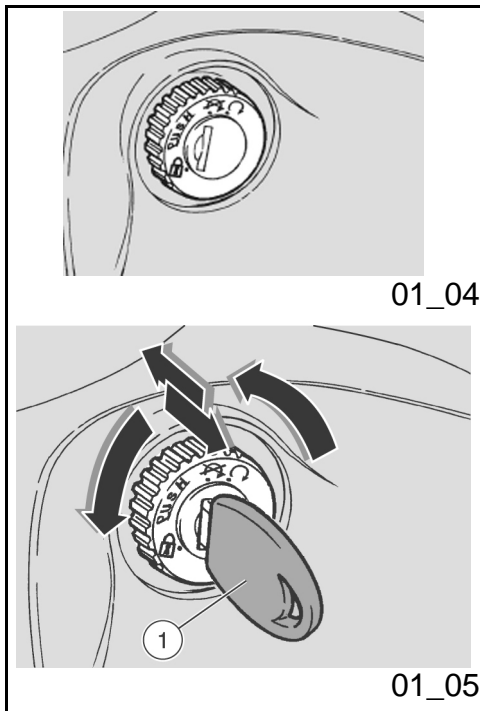
ON: The engine can be set to work. The lights turn on when the engine is running. It is not possible to withdraw the key.

LOCK: The steering is locked. It is not possible to start the engine or turn on the lights. The key can be extracted.

Locking the steering wheel (01_05)

To lock the steering:

- Turn the handlebar completely to the left.
- Turn the key «2» to «OFF».



- Press and turn the key «2» anticlockwise (to the left), move the handlebar slowly until the key «2» is set to «LOCK».
- Extract the key.



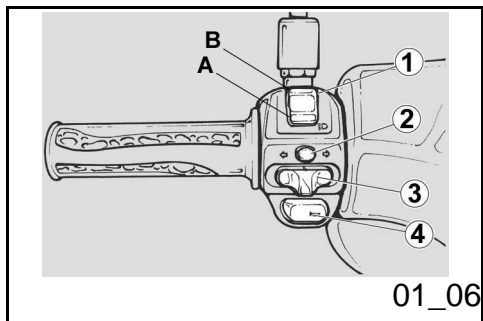
AVOIDING LOSING CONTROL OF THE VEHICLE, NEVER TURN THE KEY TO «LOCK» WHILE RIDING.

NOTE

SIMPLY TURNING, BUT NOT PRESSING, THE KEY TRIPS THE SADDLE LOCK BUT NOT THE STEERING LOCK.

NOTE

TURN THE KEY AND MOVE THE HANDLEBAR AT THE SAME TIME.



Switch direction indicators (01_06)

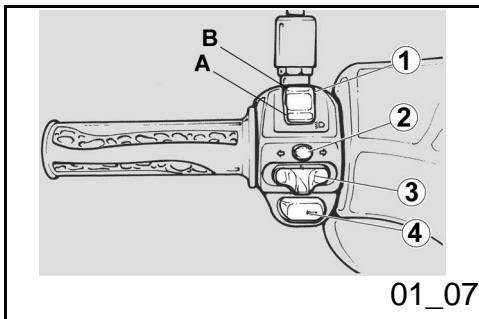
Move the switch «3» to the left, to indicate a left turn; move the switch «3» to the right, to indicate a right turn. Pressing the button «2» deactivates the turn indicator.

TURN INDICATOR DEACTIVATION SWITCH

With the turn indicator switch «3» set to the right or left, pressing the button deactivates the turn indicators.

NOTE

ELECTRICAL COMPONENTS FUNCTION ONLY WHEN THE IGNITION KEY IS SET TO «ON»

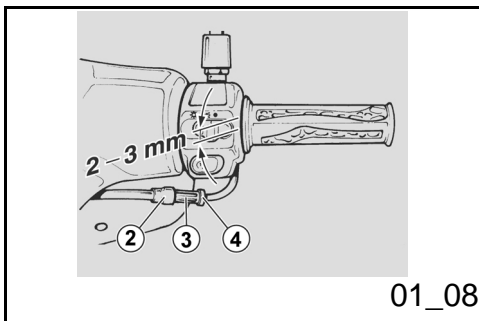


Horn button (01_07)

Pressing the button «4» activates the horn.

NOTE

ELECTRICAL COMPONENTS FUNCTION ONLY WHEN THE IGNITION KEY IS SET TO «ON»



Throttle grip (01_08)

The throttle grip should have about 2-3 mm clearance, measured at the throttle grip.

To adjust clearance:

- Park the vehicle on its centre stand on safe and level ground.
- Slide off the protection cover «2».
- Loosen the nut «3».
- Operate the set screw «4» located at the throttle grip cable input.

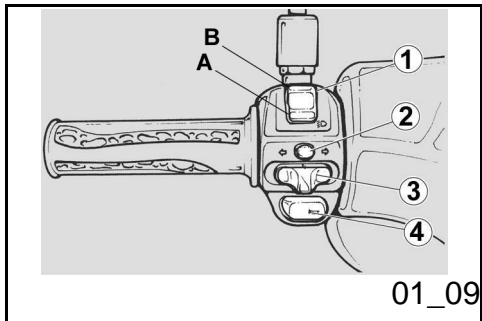
After adjusting:

- Tighten the nut «3», lock the set screw «4» and refit the protection cover «2».

CAUTION



AFTER ADJUSTING, CHECK THAT MOVING THE HANDLEBAR DOES NOT MODIFY THE ENGINE IDLE SPEED AND THAT ONCE RELEASED, THE THROTTLE GRIP HOMES SMOOTHLY AND AUTOMATICALLY.



Light switch (01_09)

If the light switch is set to «A», this activates the low-beam light; if it is set to «B», this activates the high-beam light.

NOTE

ELECTRICAL COMPONENTS FUNCTION ONLY WHEN THE IGNITION KEY IS SET TO «ON»

NOTE

THE LIGHTING SYSTEM WORKS ONLY WITH THE ENGINE RUNNING.

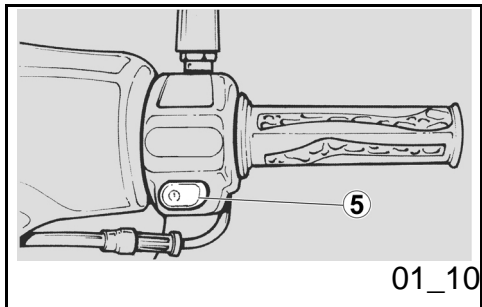
ASD LIGHTS AUTOMATIC LIGHTING

This vehicle is equipped with a system for automatic switching of lights upon engine start-up.

For this reason the light switch has been replaced with a "high-beam-low-beam" light switch.

Light switching on is instructed upon engine start-up.

- Before starting, check that the light switch is set to "low-beam" (front low-beam light).



Start-up button (01_10)

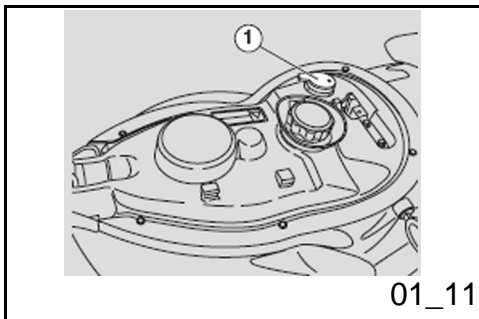
Pressing the starter button «5» and operating a break lever (front or rear) at the same time, the starter motor spins the engine.

NOTE

ELECTRICAL COMPONENTS FUNCTION ONLY WHEN THE IGNITION KEY IS SET TO «ON»

NOTE

THE LIGHTING SYSTEM WORKS ONLY WITH THE ENGINE RUNNING.



Oil mixture reservoir (01_11)

MIXER OIL

Top up the mixer oil reservoir level every 2000 km (1250 miles).

The scooter is equipped with a control unit that controls an electronic pump to supply the adequate oil quantity to lubricate the engine. If the low mixer oil warning light «14» located on the instrument panel turns on, the level is in reserve.

NOTE

DO NOT RIDE THE SCOOTER WITHOUT MIXER OIL AS THIS CAN CAUSE SERIOUS DAMAGE TO THE ENGINE.

IN CASE THERE IS NO MORE OIL IN THE MIXER RESERVOIR OR THE MIXER OIL PIPE HAS BEEN REMOVED, CONTACT AN OFFICIAL APRILIA DEALER TO HAVE THE SYSTEM PURGED.

THIS OPERATION IS ESSENTIAL AS THE ENGINE CAN BE SERIOUSLY DAMAGED IF IT RUNS WITH AIR IN THE MIXER OIL CIRCUIT.



IT IS HARMFUL TO HANDLE OIL FREQUENTLY AND FOR LONG PERIODS.

WASH YOUR HANDS CAREFULLY AFTER HANDLING OIL.

WHEN CARRYING OUT MAINTENANCE OPERATIONS, IT IS ADVISABLE TO WEAR LATEX GLOVES.

KEEP OUT OF REACH OF CHILDREN

DO NOT DISPOSE OF OIL INTO THE ENVIRONMENT.



PROCEED WITH CAUTION.

DO NOT SPILL OIL.

BE CAREFUL NOT TO DIRTY COMPONENTS, THE WORKING OR SURROUNDING AREA.

WASH OUT CAREFULLY ANY POSSIBLE OIL TRACE.

IN CASE OF OIL LEAKS OR MALFUNCTIONING, TAKE YOUR SCOOTER TO AN OFFICIAL APRILIA DEALER.

To add mixer oil in the reservoir:

- Lift the saddle.
- Remove the cap «1».

NOTE

DO NOT ADD ADDITIVES OR OTHER SUBSTANCES TO THE OIL.

WHEN USING A FUNNEL OR ANY OTHER ELEMENT, MAKE SURE IT IS PERFECTLY CLEAN.

Characteristic

Reservoir capacity:

1.5 l

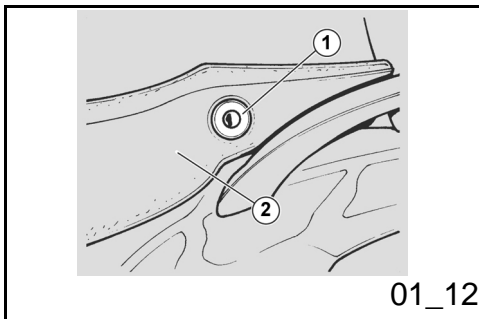
Tank reserve:

0.6 l

- Fill with oil.
- Refit the cap «1».

NOTE

AFTER REFUELLING THE TANK, REFIT THE FUEL TANK CAP «1» ADEQUATELY.



01_12

The saddle (01_12)

To unlock and lift the saddle:

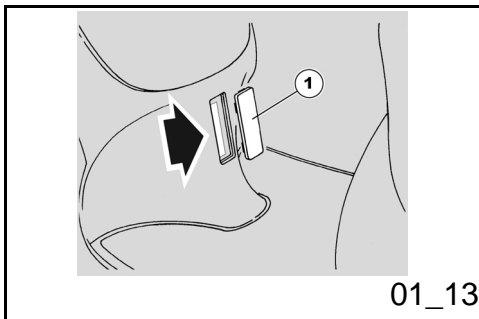
- Park the vehicle on its centre stand on safe and level ground.
- Insert the key in the saddle lock «1».
- Turn the key clockwise and lift the saddle «2».
- To lock the saddle, lower it and press it in the centre to trip the lock.



BEFORE RIDING MAKE SURE THAT THE SADDLE IS CORRECTLY LOCKED INTO POSITION.

NOTE

BEFORE LOWERING AND LOCKING THE SADDLE, MAKE SURE THAT THE KEY HAS NOT BEEN LEFT INSIDE THE HELMET COMPARTMENT.



01_13

Identification (01_13, 01_14)

Write down the chassis and engine numbers in the specific space in this manual.

The chassis number can be used to order spare parts.

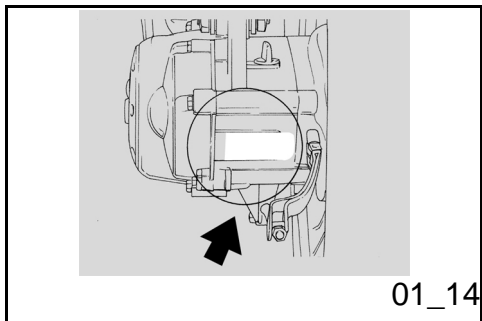
NOTE

ALTERING IDENTIFICATION NUMBERS CAN BE SERIOUSLY PUNISHED BY LAW, PARTICULARLY MODIFYING THE CHASSIS NUMBER WILL IMMEDIATELY INVALIDATE THE GUARANTEE.

CHASSIS NUMBER

The chassis number is stamped on the central chassis bar. Remove the cover «1» to read it.

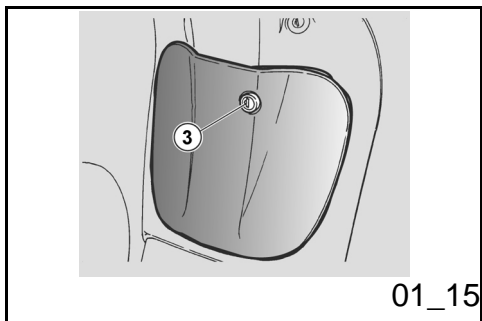
Chassis No.....



ENGINE NUMBER

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

Engine No.....



Rear top box opening (01_15)

To open the glovebox:

- Park the vehicle on its centre stand on safe and level ground.
- Insert the ignition key in the lock «3» and turn it clockwise.

To close:

- Insert the ignition key, turn it clockwise by pushing it, then turn the key anticlockwise to lock it.
- Extract the key and check that the compartment is closed.

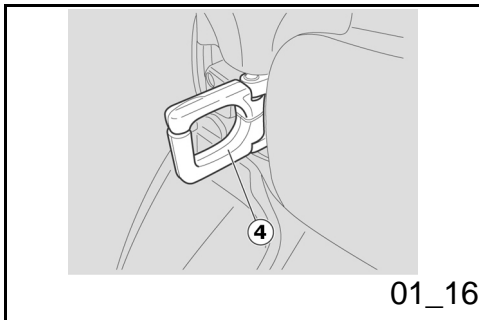
NOTE

DO NOT OVERLOAD THE GLOVEBOX.

Characteristic

Maximum weight allowed:

1.5 kg.



Bag clip (01_16)

The bag hook «4» is under the saddle in the front part.



DO NOT HANG BULKY BAGS OR PACKAGES ON THE HOOK SO AS NOT TO SERIOUSLY OBSTRUCTING VEHICLE HANDLING AND FEET MOVEMENT.

Characteristic

Maximum weight allowed:

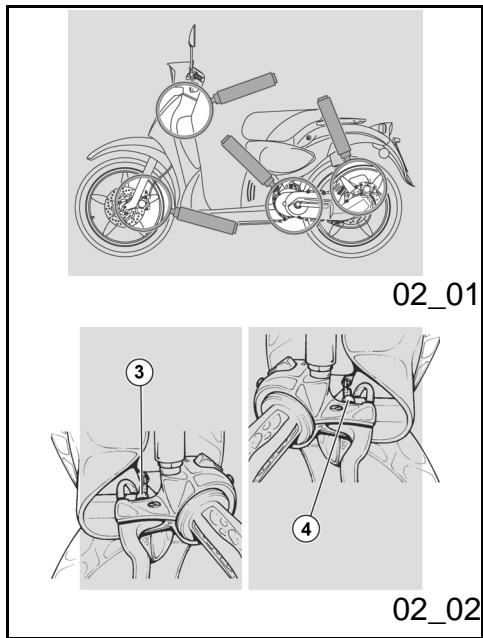
1.5 kg.

SCARABEO

50 2T

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

Chap. 02
Use



02_01

02_02

Checks (02_01, 02_02)

Checks before starting to ride



BEFORE RIDING, ALWAYS PERFORM A PRELIMINARY CHECK OF THE VEHICLE, FOR CORRECT AND SAFE OPERATION. FAILURE TO CARRY OUT THESE CHECKS MAY RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE VEHICLE.

DO NOT HESITATE TO CONTACT AN OFFICIAL APRILIA DEALER IF YOU DO NOT UNDERSTAND HOW SOME CONTROLS WORK OR IF MALFUNCTION IS DETECTED OR SUSPECTED.

THE TIME REQUIRED TO CARRY OUT A CHECK IS EXTREMELY SHORT BUT THIS RESULTS IN A SIGNIFICANT ENHANCED SAFETY.

Disc brake

Check its correct operation, the brake fluid level and possible leaks. Check the brake pad wear. If necessary top-up with brake fluid.

Rear drum brake

Check its correct operation, the empty travel and the gear lever conditions. Adjust the clearance if it is not correct.

Throttle grip

Check it functions smoothly and that it can be fully opened and closed in all steering positions. Adjust and/or lubricate if necessary.

Mixer oil

Check and/or top up as required.

Wheels/tyres

Check that tyres are in good conditions, check inflation pressure, tyre wear and possible damage. Remove any possible strange body that might be stuck in the tread design.

Brake levers

Check they function smoothly. Lubricate the joints if necessary.

Steering

Check that the rotation is homogeneous, smooth and there are no signs of clearance or slackness.

Stand

Check that they work smoothly and they go back to their normal position when the springs are released. Lubricate couplings and joints if necessary.

Clamping elements

Check that the clamping elements are not loose. If necessary, adjust or tighten them.

Fuel tank

Check the coolant level and refill if necessary. Check the circuit for possible leaks or obstructions.

Lights, warning lights, horn and electrical devices

Check the correct operation of the devices. Replace the light bulbs or repair the fault, if necessary.

SWITCH CHECK

There are two switches in the vehicle:

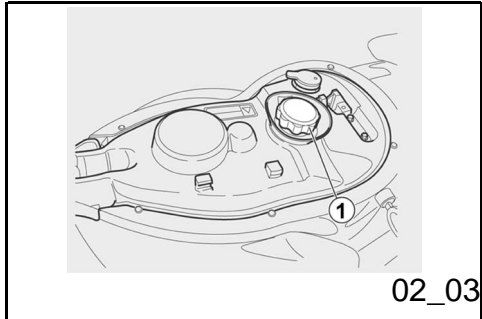
- Stop light switch on the rear brake control lever «3».
- Stop light switch on the front brake control lever «4».

To access the switches:

- Remove the front handlebar cover.

Carry out the following checks regularly:

- Check that there are no deposits of dirt or mud on the switches; the guiding pin should move without interference, going back to its initial position automatically.
- Check that the cables are connected correctly.



Refuelling (02_03)



FUEL USED TO DRIVE EXPLOSION ENGINES IS HIGHLY FLAMMABLE AND CAN BECOME EXPLOSIVE UNDER SPECIFIC CONDITIONS.

CARRY OUT REFILLING AND MAINTENANCE OPERATIONS IN A WELL VENTILATED PLACE AND WITH THE ENGINE OFF.

DO NOT SMOKE WHILE REFUELLING OR WHEN CLOSE TO FUEL VAPOURS, AVOID CONTACT WITH NAKED FLAMES, SPARKS OR ANY OTHER SOURCE THAT MAY CAUSE FUEL TO CATCH FIRE OR EXPLODE.

AVOID SPILLING FUEL OFF THE FILLER AS IT MAY CATCH FIRE IN CONTACT WITH THE ENGINE HOT SURFACES. IN CASE OF ACCIDENTAL FUEL SPILLS, CHECK THAT THE AREA IS COMPLETELY DRY BEFORE STARTING THE SCOOTER.

FUEL EXPANDS WHEN EXPOSED TO HEAT OR SUN RAYS, THEREFORE BE CAREFUL AND DO NOT REFILL THE TANK UP TO THE TOP.

CLOSE THE CAP ADEQUATELY AFTER REFUELLING. BE CAREFUL THE FUEL DOES NOT GET INTO CONTACT WITH THE SKIN, DO NOT BREATHE VAPOURS OR SWALLOW FUEL. DO NOT TRANSFER FUEL FROM ONE CONTAINER TO ANOTHER USING A HOSE.



DO NOT DISPOSE OF FUEL INTO THE ENVIRONMENT.

**KEEP OUT OF REACH OF CHILDREN**

Use unleaded premium petrol with minimum octane rating of 95 (NORM) and 85 (NOMM)

To refuel:

- Lift the saddle.
- Unscrew and remove fuel tank cap «1».
- Carry out the refuelling.
- Refit the cap «1».

DO NOT ADD ADDITIVES OR ANY OTHER SUBSTANCES TO THE FUEL.

WHEN USING A FUNNEL OR ANY OTHER ELEMENT, MAKE SURE IT IS PERFECTLY CLEAN.

NOTE

AFTER REFUELLING THE TANK, REFIT THE FUEL TANK CAP «1» ADEQUATELY.

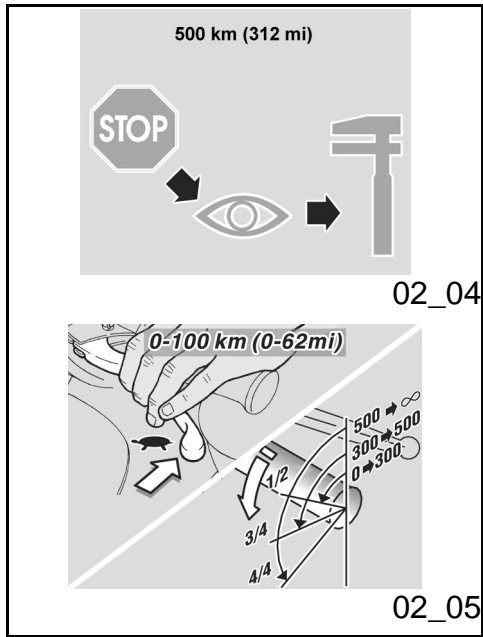
Characteristic

Fuel tank capacity (reserve included):

8 l

Tank reserve:

1 l



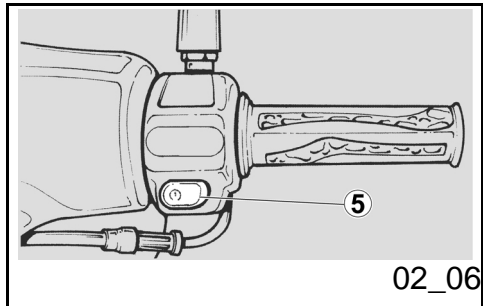
Running in (02_04, 02_05)

Engine run-in is essential to ensure engine long life and correct operation. If possible, ride on roads with lots of bends and/or slopes to test that the engine, suspensions and brakes perform efficiently. For the first 500 km (312 miles) travelled, observe the following indications:

- **0-100 km (0-62 miles)** During the first 100 km (62 miles) step carefully on the brakes to avoid rough and long braking. That is to permit the adequate adjustment of the pad friction material to the brake disc.
- **0-300 km (0-187 miles)** Do not keep the throttle grip twisted more than half the way during long rides.
- **300-500 km (187-312 miles)** Do not keep the throttle grip twisted more than 3/4 the way during long rides.

CAUTION

AFTER THE FIRST 500 KM (312 MILES) IN OPERATION, PERFORM THE CHECKS IN THE "RUN-IN END" COLUMN IN THE SCHEDULED MAINTENANCE CHART TO AVOID INJURIES TO YOURSELF, OTHERS AND/OR DAMAGING THE VEHICLE.

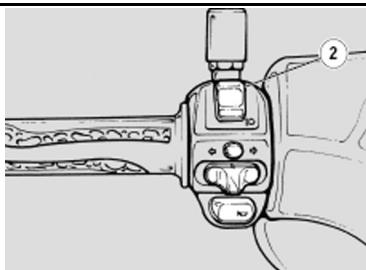


Starting up the engine (02_06, 02_07, 02_08, 02_09, 02_10, 02_11, 02_12)

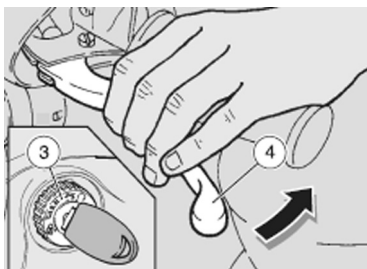


EXHAUST FUMES CONTAIN CARBON MONOXIDE, AN EXTREMELY HARMFUL SUBSTANCE IF INHALED.

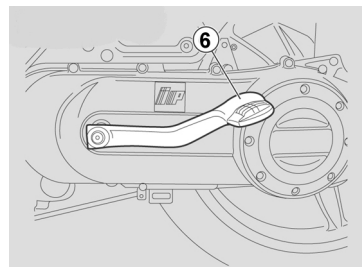
NEVER START THE ENGINE IN CLOSED OR NOT WELL-VENTILATED ROOMS. FAILURE TO OBSERVE THIS WARNING COULD LEAD TO UNCONSCIOUSNESS AND EVEN DEATH CAUSED BY SUFFOCATION. DO NOT CLIMB ON THE VEHICLE TO START IT



02_07



02_08



02_09

UP.

ELECTRIC START-UP

- Park the vehicle on its centre stand on safe and level ground.
- Make sure the light switch «2» is set to low-beam.
- Turn the ignition switch «3» to «ON».
- Lock at least one wheel by operating a brake lever «4». If engine fails to start, it means there is no current in the ignition relay and the starter motor does not spin.

NOTE

IF THE SCOOTER IS NOT USED FOR A LONG TIME, FOLLOW THE PROCEDURES INDICATED IN THE SECTION «PROLONGED INACTIVITY».

NOTE

TO AVOID EXCESSIVE BATTERY CONSUMPTION, DO NOT HOLD DOWN THE STARTER BUTTON FOR MORE THAN FIVE SECONDS. IF THE ENGINE FAILS TO START AFTER THIS TIME, WAIT TEN SECONDS AND PRESS THE STARTER BUTTON AGAIN.

Press the starter button «5» without opening the throttle and release it as soon as the engine starts.

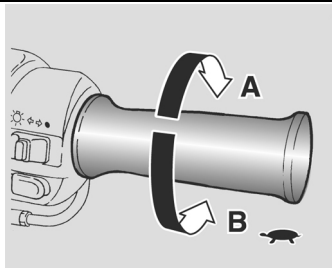
NOTE

PRESS THE STARTER BUTTON AND THE LOW MIXER OIL WARNING LIGHT TURNS ON.

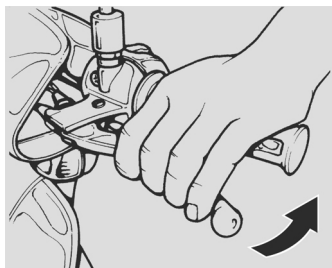
NOTE

WITH ENGINE RUNNING, RELEASE THE STARTER BUTTON AND THE LOW OIL MIXER WARNING LIGHT SHOULD TURN OFF; IF IT REMAINS ON, TOP UP THE MIXER OIL.

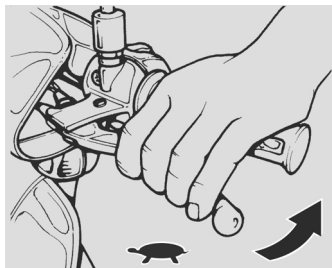
NOTE



02_10



02_11



02_12

NEVER PRESS THE STARTER BUTTON WHEN THE ENGINE IS ALREADY RUNNING: DOING SO MAY DAMAGE THE STARTER MOTOR.

KICK START

- Park the vehicle on its centre stand on safe and level ground.
- Stand on the left-hand side of the vehicle.
- Make sure the light switch «2» is set to low-beam.
- Turn the ignition switch «3» to «ON».
- To avoid loss of control of the vehicle at start-up, lock both wheels by operating the break levers «4».



DO NOT KICK THE KICKSTARTER PEDAL WHEN THE ENGINE IS RUNNING.

- Kick the pedal «6» with your right foot and release it immediately. If necessary, repeat the operation until the engine starts.

SETTING OFF AND RIDING



REFERENCES TO RIDING WITH PASSENGER INTENDED ONLY FOR COUNTRIES WHERE THIS IS PERMITTED.

WHEN TRAVELLING WITHOUT PASSENGERS, MAKE SURE THE PASSENGER FOOTRESTS ARE FOLDED.

WHILE RIDING, KEEP YOUR HANDS FIRMLY ON THE HANDGRIPS AND YOUR FEET ON THE FOOTRESTS. DO NOT RIDE THE VEHICLE IN ANY OTHER POSITION.



IF RIDING WITH A PASSENGER, INSTRUCT THE PERSON CARRIED SO AS TO AVOID TROUBLE WHEN MANOEUVRING.

BEFORE RIDING, MAKE SURE THE STAND OR STANDS ARE COMPLETELY RETRACTED TO THEIR POSITION.

To set off: t

- Release the throttle grip (pos. A), operate the rear brake and move the vehicle down from the stand.
- Get on the scooter and, for stability reasons, keep at least one foot on the ground.
- Adjust the rear-view mirror angle correctly.



WITH THE VEHICLE AT A STANDSTILL, PRACTICE USING THE REAR-VIEW MIRRORS.

- To set off, release the brake lever and the vehicle will start moving.



DO NOT SET OFF SUDDENLY WHEN THE ENGINE IS COLD.

TO MINIMISE THE EMISSION OF AIR POLLUTING SUBSTANCES AND FUEL CONSUMPTION, WARM UP THE ENGINE BY RIDING THE FIRST KILOMETRES AT A LIMITED SPEED.



NEVER ACCELERATE AND DECELERATE REPEATEDLY AND CONTINUOUSLY AS YOU MAY INADVERTENTLY LOSE CONTROL OF YOUR VEHICLE.



IF YOU HAVE TO BRAKE, OPERATE BOTH BRAKES TO OBTAIN A UNIFORM BRAKING, CAREFULLY ACTIVATING THE BRAKING PARTS IN AN ADEQUATE MANNER.

OPERATING ONLY EITHER THE FRONT OR THE REAR BRAKE SIGNIFICANTLY DECREASES THE BRAKING POWER AND A WHEEL MAY GET BLOCKED RESULTING IN LACK OF GRIP.

IN CASE OF STOP IN ASCENT, FULLY DECELERATE AND ONLY USE THE BRAKES TO KEEP THE VEHICLE STOPPED. USING THE ENGINE TO KEEP THE SCOOTER STOPPED MAY CAUSE THE VARIATOR TO OVERHEAT.



BEFORE GETTING INTO A BEND, REDUCE SPEED AND BRAKE; WHILE BENDING, RIDE AT THE SAME MODERATE AND CONSTANT SPEED OR SLIGHTLY ACCELERATE; DO NOT BRAKE IN EXCESS: THERE IS VERY HIGH RISK OF SKIDDING.

BRAKING CONTINUOUSLY WHILE GOING DOWNHILL MAY RESULT IN FRICTION GASKET OVERHEATING AND CONSEQUENTLY IN POOR BRAKING.

TAKE ADVANTAGE OF THE ENGINE COMPRESSION USING THE BRAKES ALTERNATIVELY. WHEN GOING DOWNHILL NEVER RIDE WITH THE ENGINE OFF.

WHEN RIDING WITH LOW VISIBILITY CONDITIONS, TURN ON THE LOW-BEAM LIGHTS, EVEN AT DAY TIME, TO MAKE YOURSELF EASILY VISIBLE TO OTHER DRIVER; WHEN RIDING ON WET SURFACES OR WITH POOR GRIP (SNOW, ICE, MUD, ETC.) AT A MODERATE SPEED AVOIDING SUDDEN BRAKING OR MANOEUVRES THAT MAY LEAD TO LACK OF GRIP AND CONSEQUENTLY TO FALLS.

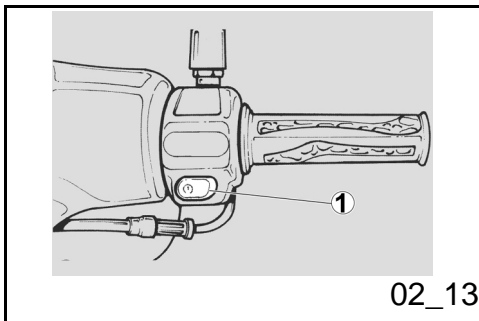
PAY ATTENTION TO OBSTACLES ON OR VARIATIONS IN THE ROAD SURFACE.



UNEVEN ROADS, RUTS, DRAINS, TRAFFIC SIGNS PAINTED ON THE ROADS, PIPE-WORK METAL SHEETS MAY BECOME SLIPPERY WHEN IT RAINS. CROSS OVER THEM WITH EXTREME CAUTION, RIDE CAREFULLY AND INCLINE THE SCOOTER THE LEAST POSSIBLE.

ALWAYS SIGNAL CHANGES IN DIRECTION WITH THE APPROPRIATE DEVICES AND WELL IN ADVANCE, AVOID ABRUPT AND DANGEROUS MANOEUVRES.

TURN OFF THE DEVICES IMMEDIATELY AFTER THE CHANGE IN DIRECTION. WHEN OVERTAKING OR BEING OVERTAKEN BY OTHER VEHICLES RIDE WITH EXTREME CAUTION. WHEN IT RAINS, SPRAY CAUSED BY LARGE VEHICLES REDUCES VISIBILITY; AIR SHIFTS MAY CAUSE LOSS OF CONTROL ON YOUR SCOOTER.



Difficult start up (02_13, 02_14)

START-UP WITH FLOODED ENGINE

If the start-up procedure is not properly carried out or in case of excess of fuel in the inlet ducts, the engine may get flooded.

To clean again a flooded engine:

- Press the starter button «1» for a few seconds (running the empty engine) with the throttle grip «2» completely twisted (**pos. A**).

COLD START

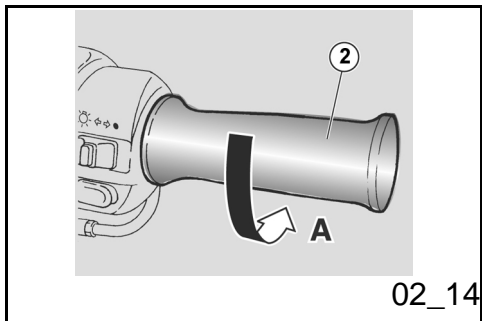
If the ambient temperature is low (near or below 0°C), there may be problems with the first start-up.

In this case:

- Press the starter button «1» and, at the same time, twist the throttle grip «2» slightly.

If the engine starts.

- Release the throttle grip «2».



- If idle speed is not stable, twist the throttle grip «2» slightly and frequently.

If the engine does not start.

Wait a few seconds and carry out the cold start procedure again.

- If necessary, remove the spark plug and check that it is not wet.
- If it is wet, clean and dry it.
- Before refitting it, press the starter button «1» and run the starter motor for about five seconds, without accelerating.

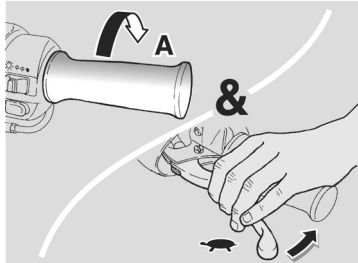
NOTE

PLACE A CLEAN CLOTH ON THE CYLINDER NEXT TO THE SPARK PLUG SEAT TO PROTECT IT FROM POSSIBLE OIL SPLASHES.

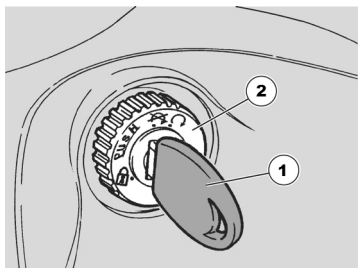
STARTING AFTER PROLONGED INACTIVITY

If the scooter has been inactive for a long time, starting may be delayed as the fuel supply circuit may be partially empty. In this case:

- Press the starter button «1» for about five seconds so that the carburettor float chamber gets filled.



02_15



02_16

Stopping the engine (02_15, 02_16)

- Release the throttle grip (pos. A) and gradually operate the brakes to stop the scooter.
- While at a temporary halt, keep at least one brake operated.
- .



WHENEVER POSSIBLE, AVOID ROUGH BRAKING, SUDDEN DECELERATION AND BRAKING IN EXCESS.

PARKING

- Stop the vehicle.



PARK ON SAFE AND LEVEL GROUND TO PREVENT THE SCOOTER FROM FALLING.

DO NOT LEAN THE SCOOTER ON A WALL OR LAY IT ON THE GROUND. MAKE SURE THE SCOOTER AND ESPECIALLY ITS HOT PARTS DO NOT POSE ANY RISK TO PEOPLE OR CHILDREN.

DO NOT LEAVE YOUR SCOOTER UNATTENDED WITH THE ENGINE ON OR THE KEY IN THE IGNITION SWITCH. DO NOT SIT ON THE VEHICLE WHEN IT RESTS ON ITS STAND.

NOTE

WHEN THE ENGINE IS OFF AND THE IGNITION SWITCH IS SET TO «ON» THE BATTERY CAN GET DISCHARGED.

- Turn the key «1» and set the ignition switch «2» to «OFF» .

- Rest the scooter on its stand.

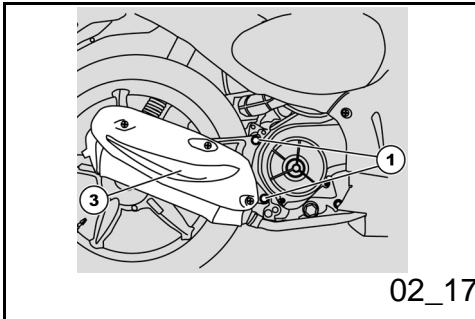
NOTE

WITH THE ENGINE OFF, IT IS NOT NECESSARY TO CLOSE THE FUEL VALVE, FOR IT HAS AN AUTOMATIC SEALING SYSTEM.

NOTE

DO NOT LEAVE THE KEY INSERTED IN THE IGNITION SWITCH.

- Lock the steering and take out the key «1».



Catalytic silencer (02_17, 02_18)

Scooter owners are warned that the law may prohibit the following:

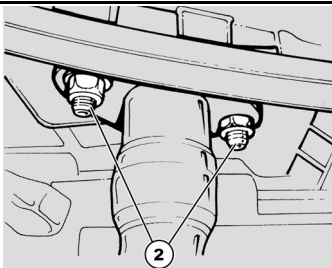
- The removal of any device or element belonging to a new scooter or any other action by anyone leading to render it non-operating, if not for maintenance, repair or replacement reasons, in order to control noise emission before the sale or delivery of the vehicle to the ultimate buyer or while it is used.
- Using the scooter after that device or element has been removed or rendered non-operating.

Check the muffler/exhaust silencer and the silencer pipes, make sure there are no signs of rust or holes and that the exhaust system works properly.

If exhaust noise increases, take your scooter at once to an **Official aprilia Dealer**.



DO NOT TAMPER THE NOISE CONTROL SYSTEM.



02_18

EXHAUST SILENCER REMOVAL

- Park the vehicle on its centre stand on safe and level ground.



BEFORE CARRYING OUT THE FOLLOWING OPERATIONS AND IN ORDER TO AVOID BURNS, LEAVE THE ENGINE AND SILENCER TO COOL OFF TO AMBIENT TEMPERATURE.

- Remove the inspection cover.
- Unscrew and remove the two screws «1» fixing the silencer to the engine.
- Unscrew and remove the two nuts «2».
- Remove the exhaust silencer «3».



UPON REFITTING, REPLACE THE GASKET BETWEEN THE EXHAUST MANIFOLD AND THE SILENCER WITH A NEW ONE.

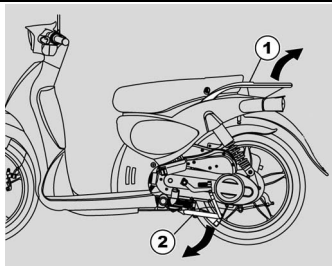
Characteristic

Tightening torque for nuts (2):

12 Nm (1.2 kgm).

Tightening torque for screws (1):

25 Nm (2.5 kgm).



02_19



02_20

Stand (02_19, 02_20)

RESTING THE SCOOTER ON ITS CENTRE STAND

- Hold the left hand grip and the rear handle «1».
- Push the stand lever «2».

MAKE SURE THE SCOOTER IS STABLE.

Stand checking

The rotation of the stand «1» should be free of obstacles.

Carry out the following checks:

- The springs «2» should not be damaged, worn, rusty or slacken.
- The stand should turn freely, grease the joint if necessary.

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.

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

Safe driving (02_21, 02_22, 02_23, 02_24, 02_25, 02_26, 02_27, 02_28, 02_29, 02_30, 02_31, 02_32)

MAIN SAFETY RULES

To ride the scooter it is necessary to comply with all legal requirements (driving license, minimum driving age, psychophysical performance, insurance, taxes and fees, registration, license plate, etc.).

You should practise using the scooter in traffic-free areas and/or private property until you have become thoroughly acquainted with the vehicle.

Driving under the influence of medication, alcohol and narcotic drugs or psychotropic substances dramatically increases the risk of accidents.

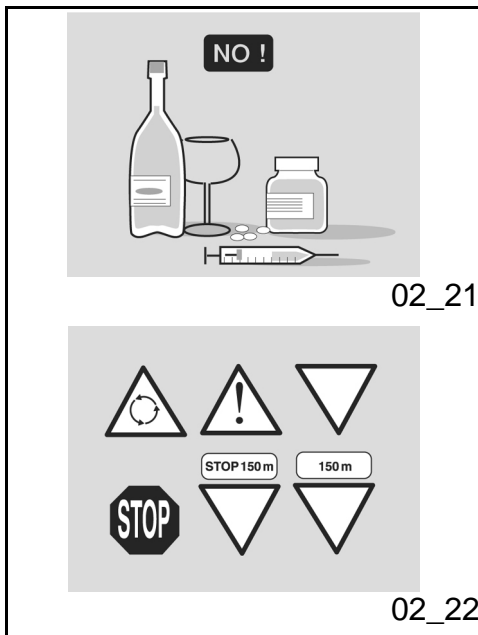
Do not ride your scooter if you feel tired or drowsy and always keep safe psychophysical riding conditions.

The main cause of motorcycle accidents is users' inexperience.

NEVER lend the scooter to beginners and always make sure that the rider complies with all necessary requirements for a safe riding.

Strictly obey all national and local traffic signs and rules.

Avoid any abrupt and dangerous swerves for your own as well as others' safety (for example: rearing up on the back wheel, riding over the speed limit, etc.). Besides, always assess and bear in mind the road surface conditions, visibility, etc.

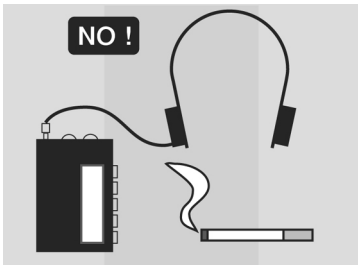


02_21

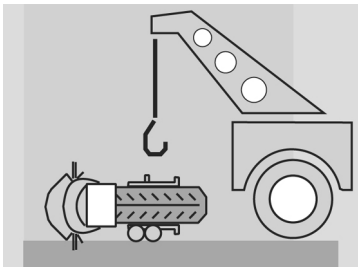
02_22



02_23



02_24



02_25

Do not knock obstacles that can damage the scooter or cause loss of control.

Do not ride on the course of the vehicle in front of you just to improve your own speed.



ALWAYS RIDE WITH BOTH HANDS ON THE HANDLEBAR AND FEET ON THE FOOTRESTS (OR THE RIDER'S FOOTRESTS) IN THE ADEQUATE RIDING POSITION.

Never stand on your feet or stretch yourself while riding.

The rider should always be attentive, never get distracted or influenced by people, things or actions (never smoke, eat, drink, read, etc.) while riding.

Always use fuel and lubricants specific for the scooter, of the type recommended in the "LUBRICANTS TABLE". Check fuel, oil and coolant frequently for correct level.

In case of an accident or after the scooter has fallen down or suffered a sudden bump, make sure the control levers, piping, cables, brake circuit and main parts of the scooter have not been damaged.

If necessary, take the scooter to an Official aprilia Dealer to check especially the frame, handlebar, suspensions, safety components and any device the user cannot assess without the aid of a specialist.

Report any malfunction to the engineers and/or mechanics in order to facilitate their work.

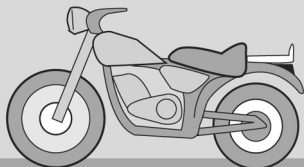
Never ride the scooter if the damage jeopardises safety.

Do not modify the position, angle or colour of: license plate, turn indicators, lighting devices and horn.

Any changes to the scooter will void the warranty.

Any change introduced to the scooter and the removal of original parts may jeopardise the scooter performance and therefore reduce safety or even render the scooter inappropriate for legal riding.

Comply with all national and local laws and regulations on scooter equipment.

ONLY ORIGINALS

02_26

In particular do not introduce technical changes leading to improve performance and under no circumstances alter the original specifications of the scooter.

Never race with vehicles.

Never ride off-road.

CLOTHING

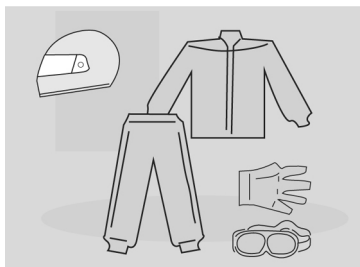
Before riding off, remember to put on the helmet and fasten it correctly. Make sure it is a homologated model, that it is undamaged, of the right size and that the visor is clean.

Wear appropriate protective clothes, preferably light-coloured and/or in reflective material. In this way you will be easily visible to other drivers, thus reducing the risk to be hit and you will be better protected in case of falling.

Always wear tight-fitting clothes without open cuffs; avoid hanging strings, belts or ties; these or any other objects should not interfere with a safe riding when getting entangled with the riding elements or due to a special movement.

Never carry in your pockets objects that can be potentially dangerous in case of fall, like: pointed objects such as keys, pens, glass containers, etc. (the same rule applies to passengers).

02_27

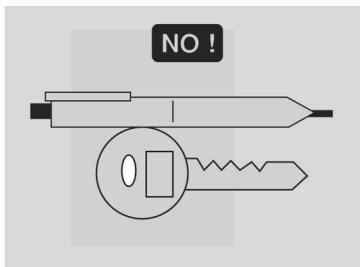
**ACCESSORIES**

User is personally responsible for the installation and use of the accessories.

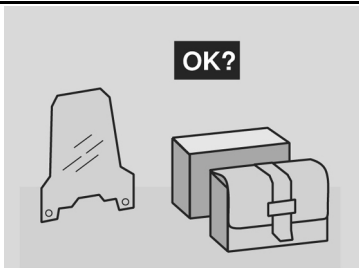
While assembling accessories, make sure that they do not cover the sound or light alarm devices or affect their correct functioning, do not limit the suspension travel or the steering angle, do not obstruct control actuation or reduce the ground clearance and inclination angle at corners.

Do not use accessories that hinder access to the controls as they may increase the reaction time in case of an emergency.

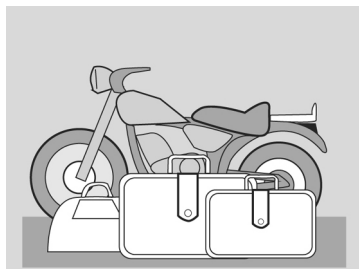
02_28



Fairings and large windscreens fitted to the scooter may cause aerodynamic forces that affect



02_29



02_30



02_31

the scooter stability while riding, mainly at high speeds.

Make sure the accessory is firm and secured to the scooter and that it does not pose any risks while riding the scooter.

Do not add or modify electrical equipment that exceed the vehicle capacity as this may result in a sudden stop or a dangerous lack of power required to keep the sound and light alarm devices operative.

aprilia advises using original accessories (**aprilia** genuine accessories).

LOADING

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.

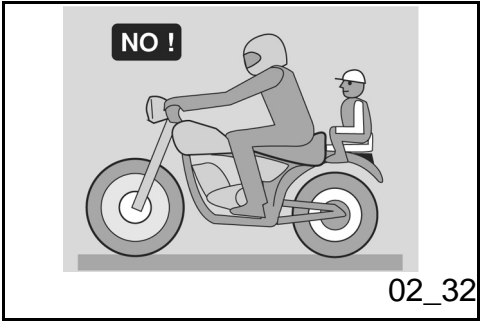
Never carry packages that are not securely fastened to the scooter.

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.

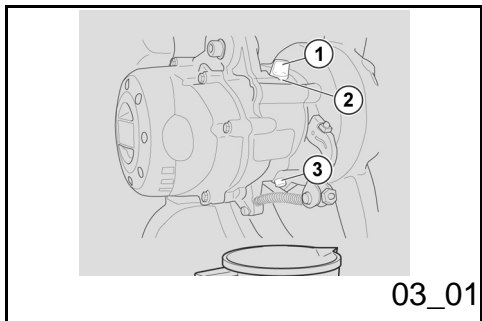


SCARABEO

50 2T

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

Chap. 03
Maintenance



Hub oil level (03_01)

- Ride a few kilometres until the regular working temperature is reached, then stop the engine.
- Park the scooter on its centre stand.
- Unscrew and take out the measuring tap-dipstick «1».
- Clean the area in contact with oil with a clean cloth.
- Screw the tap-dipstick «1» completely in its tube «2».
- Remove the tap-dipstick again and read the level the oil reaches on the dipstick.
- The level is correct when it is close to the dot printed on the measuring dipstick.
- Top up if necessary.



DO NOT DISPOSE OF OIL INTO THE ENVIRONMENT.



SCREW THE FILLING CAP «1» AND DRAINAGE PLUG «3» TIGHTLY AND MAKE SURE THE OIL DOES NOT SEEP THROUGH.

CHECK REGULARLY THAT THERE ARE NO LEAKS IN THE CRANKCASE COVER GASKET.

DO NOT RIDE THE SCOOTER WITH INSUFFICIENT OIL OR WITH CONTAMINATED OR DIRTY LUBRICANTS AS THIS ACCELERATES THE WEAR AND TEAR OF THE MOVING PARTS AND CAN CAUSE IRRETRIEVABLE DAMAGE. TAKE YOUR SCOOTER TO AN OFFICIAL APRILIA DEALER TO HAVE THE OIL CHECKED AND CHANGED.

GEARBOX OIL CHANGE

Replace the gearbox oil as indicated in the scheduled maintenance tables.

Take your scooter to an **Official aprilia Dealer** to have the oil controlled and changed.

Tyres (03_02, 03_03, 03_04)

This scooter is fitted with Tubeless tyres.



CHECK FREQUENTLY TYRE PRESSURE WITH TYRES AT AMBIENT TEMPERATURE.

THE MEASUREMENT MAY BE INCORRECT IF TYRES ARE WARM. CHECK PRESSURE MAINLY BEFORE AND AFTER LONG TRIPS.

IF TYRE PRESSURE IS TOO HIGH, THE SURFACE UNEVENNESS IS NOT CUSHIONED AND IS SENT TO THE HANDLEBAR, RESULTING IN UNPLEASANT RIDING AND POOR ROAD GRIP SPECIALLY WHEN TURNING.



CONVERSELY, WITH LOW TYRE PRESSURE, TYRE SIDEWALLS «1» BEAR MORE STRESS AND THE TYRE CAN SLIDE ON THE RIM OR EVEN GET DETACHED RESULTING IN LOSS OF CONTROL OVER THE SCOOTER.

IN CASE OF SHARP BRAKING, TYRES CAN EVEN GET OFF THE RIMS. EVENTUALLY WHEN TURNING, THE SCOOTER MAY SWERVE.

CHECK TYRE TREAD FOR WEAR AS INADEQUATE CONDITIONS CAN RESULT IN LACK OF GRIP AND POOR MANOEUVRABILITY.

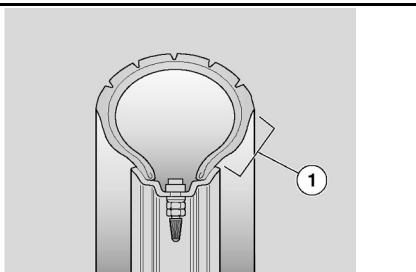
SOME TYRE TYPES HOMOLOGATED FOR THIS SCOOTER FEATURE WEAR INDICATORS.



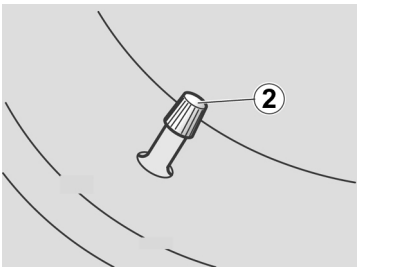
THERE ARE SEVERAL TYPES OF WEAR INDICATORS.

CONSULT YOUR DEALER ON METHODS TO CHECK FOR WEAR.

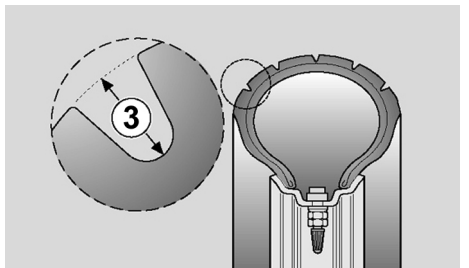
CARRY OUT A VISUAL INSPECTION FOR TYRE CONSUMPTION, REPLACE THEM IF



03_02



03_03



03_04

WORN.

REPLACE TYRES WHEN WORN OR IF THERE IS A PUNCTURE BIGGER THAN 5 mm IN THE TREAD.

AFTER A TYRE IS MENDED, BALANCE THE WHEELS. TYRES SHOULD BE REPLACED WITH OTHERS OF THE TYPE AND MODEL INDICATED BY APRILIA; THE USE OF TYRES OTHERS THAN THE ONES INDICATED RESULTS IN POOR HANDLING.



DO NOT FIT TYRES WITH INNER TUBES ON RIMS FOR TUBELESS TYRES.

CHECK THAT THE INFLATION VALVES «2» HAVE THEIR CAPS FITTED IN ORDER TO AVOID UNEXPECTED FLAT TYRES.

REPLACEMENT, REPAIR, MAINTENANCE AND BALANCING OPERATIONS ARE VERY IMPORTANT; THEY SHOULD BE CARRIED OUT WITH SUITABLE TOOLS BY QUALIFIED PERSONNEL.

IT IS THEREFORE ESSENTIAL TO TAKE YOUR SCOOTER TO AN OFFICIAL APRILIA DEALER OR SPECIALISED TYRE WORKSHOP TO CARRY OUT THE OPERATIONS ABOVE.



NEW TYRES CAN BE COVERED BY A SLIPPERY COAT: RIDE WITH CAUTION DURING THE FIRST KILOMETRES. DO NOT APPLY UNSUITABLE LIQUIDS ON TYRES. OLD TYRES THAT ARE NOT FULLY WORN CAN GET HARD RESULTING IN LACK OF GRIP. REPLACE TYRES IF THIS OCCURS.

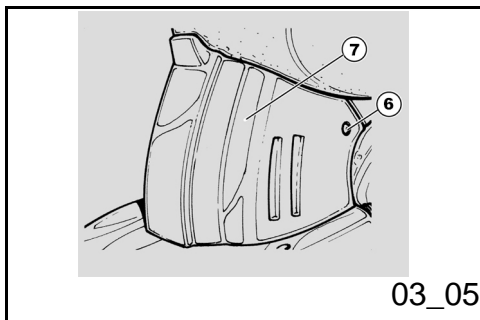
MINIMUM TREAD DEPTH «3»

Specification	Desc./Quantity
Front:	1.5 mm
Rear	1.5 mm

TYRE WEAR MINIMUM THRESHOLD «3» (USA VERSION)

Specification	Desc./Quantity
Front (USA version)	3 mm
Rear (USA version)	3 mm

and not lower than indicated by legislation in force in the country where the vehicle is used.

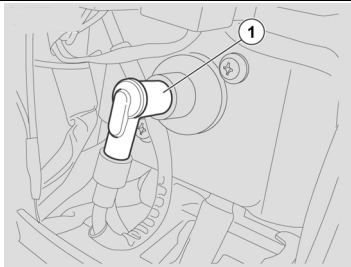
**Spark plug dismantlement (03_05, 03_06, 03_07)**

Check and/or replace the spark plug as indicated in the scheduled maintenance tables.

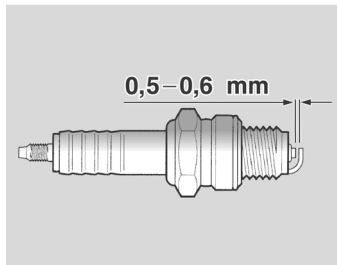
Remove the spark plug regularly, clean off carbon scales, and replace the spark plug if necessary.

To access the spark plug:

- Park the vehicle on its centre stand on safe and level ground.
- Unscrew and remove the screw «6».



03_06



03_07

- Unscrew the inspection cover «7».

HANDLE PAINTED COMPONENTS WITH CARE; DO NOT SCRATCH OR SPOIL THEM.

For removal and cleaning:

- Remove the spark plug tube «1».
- Clean off any trace of dirt from the spark plug base. Unscrew it using the wrench supplied in the tool kit and remove it from its fitting, being careful not to let dust or any other substance into the cylinder.
- Check that the spark plug electrode and centre porcelain are free of carbon deposits or signs of corrosion. If necessary, clean using suitable spark plug cleaners, a wire and/or metal brush.
- Blow with a strong air blast to avoid removed dirt getting into the engine. Replace the spark plug if there are cracks on the spark plug insulating material, corroded electrodes or several deposits.
- Check the electrode gap with a thickness gauge. This should be 0.5 - 0.6 mm; adjust if necessary by carefully bending the earth electrode.
- Make sure the washer is in good conditions. Once the washer is fitted, manually screw the spark plug completely to avoid damaging the thread.
- Tighten using the wrench supplied in the tool kit, make the spark plug complete 1/2 a turn to press the washer.

TIGHTEN THE SPARK PLUG CORRECTLY, OTHERWISE THE ENGINE MAY OVERHEAT AND GET IRRETRIEVABLE DAMAGED.

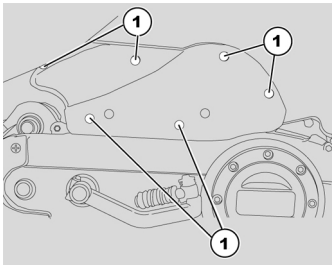
USE ONLY THE RECOMMENDED TYPE OF SPARK PLUG, OTHERWISE, THE ENGINE DURATION AND PERFORMANCE COULD BE COMPROMISED.

Locking torques (N*m)

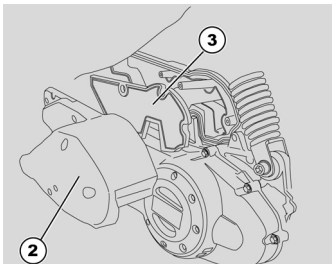
Spark plug tightening torque:

20 Nm (2 kgm)

- Connect the spark plug tube «1».
- Refit the inspection cover.



03_08



03_09

Removing the air filter (03_08, 03_09)

The air filter should be checked and cleaned monthly or as indicated in the scheduled maintenance tables. This depends on the use conditions.

If the scooter is used on dusty or wet roads, clean or replace the filter more frequently.

To clean the air filter, remove it from the vehicle.

REMOVAL

- Park the vehicle on its centre stand on safe and level ground.
- Unscrew and remove the six screws «1».
- Remove the air filter cover «2».
- Remove the filtering element «3».

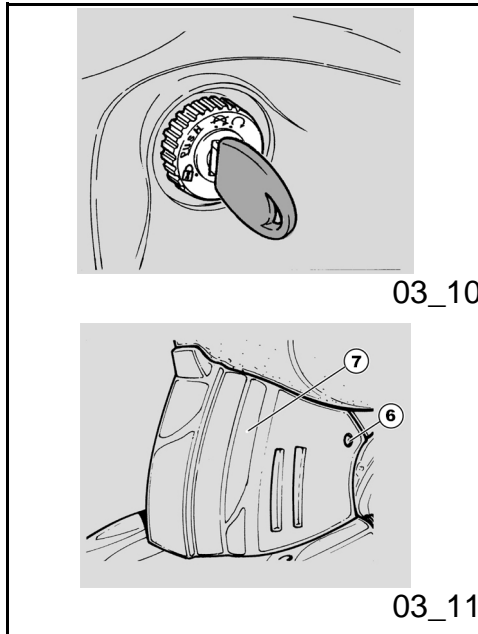
Air filter cleaning

- Wash the filtering element «3» with non flammable or highly volatile clean solvents and leave it dry it properly.

- Apply a specific filter oil over all the surface.



DO NOT USE PETROL OR FLAMMABLE SOLVENTS TO CLEAN THE FILTERING ELEMENT TO AVOID RISK OF FIRE OR EXPLOSION.



03_10

03_11

Battery (03_10, 03_11, 03_12)



DO NOT INVERT THE CONNEXIONS OF THE BATTERY LEADS.

CONNECT AND DISCONNECT THE BATTERY WITH THE IGNITION SWITCH SET TO «OFF», OTHERWISE SOME COMPONENTS MAY BE DAMAGED.

FIRST CONNECT THE POSITIVE TERMINAL (+) AND THEN THE NEGATIVE ONE (-). DISCONNECT IN THE REVERSE ORDER.

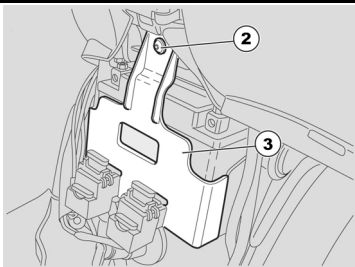


FIRE HAZARD. FUEL OR ANY OTHER FLAMMABLE SUBSTANCES MUST NOT BE CLOSE TO ELECTRICAL COMPONENTS.

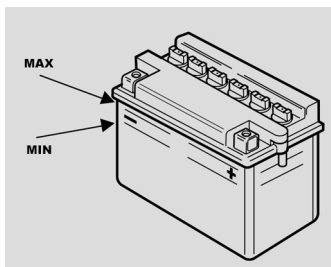
Check the electrolyte level and the leads tightening according to the indications in the scheduled maintenance tables.



THE BATTERY ELECTROLYTE IS TOXIC, CORROSIVE AND AS IT CONTAINS SULPHURIC ACID, IT CAN CAUSE BURNS WHEN IN CONTACT WITH THE SKIN. WEAR



03_12



03_13

PROTECTION CLOTHES, A FACE MASK AND/OR SAFETY GOGGLES WHEN CARRYING OUT MAINTENANCE OPERATIONS.

IF THE ELECTROLYTIC FLUID GETS INTO CONTACT WITH THE SKIN, WASH WITH ABUNDANT COOL WATER.

IF THE FLUID GETS INTO CONTACT WITH THE EYES, WASH WITH ABUNDANT WATER FOR FIFTEEN MINUTES AND CONSULT AN EYE SPECIALIST IMMEDIATELY.

IF IT IS ACCIDENTALLY SWALLOWED, DRINK LARGE QUANTITIES OF WATER OR MILK, FOLLOWED BY MILK OF MAGNESIA OR VEGETAL OIL, AND SEEK MEDICAL ADVICE IMMEDIATELY.

THE BATTERY RELEASES EXPLOSIVE GASES; KEEP IT AWAY FROM FLAMES, SPARKS, CIGARETTES OR ANY OTHER HEAT SOURCE.

WHEN RECHARGING OR USING THE BATTERY, BE CAREFUL TO HAVE THE ROOM ADEQUATELY AIRED. DO NOT BREATHE GASES RELEASED WHEN THE BATTERY IS RECHARGED.

KEEP OUT OF REACH OF CHILDREN

PAY ATTENTION NOT TO TILT THE SCOOTER EXCESSIVELY TO AVOID DANGEROUS SPILLS OF BATTERY FLUID.

BATTERY FLUID IS CORROSIVE.

DO NOT POUR OR SPREAD IT ESPECIALLY ON PLASTIC PARTS.

NOTE

IF YOU NEED ASSISTANCE OR TECHNICAL ADVICE, CONSULT AN OFFICIAL APRILIA DEALER WHO WILL PROVIDE A PRECISE AND PROMPT SERVICE.

CHECKING AND CLEANING TERMINALS AND LEADS

- Access the battery.
- Check that the battery cables terminals «1» and leads «2» are in good conditions (and not corroded or covered by deposits) and covered with special grease or petroleum jelly.

If necessary:

- Make sure the ignition key is set to «OFF».
- Disconnect first the negative lead (-) and then the positive one (red) (+).
- Brush with a metal bristle brush to remove all signs of corrosion.
- Connect again first the positive lead (red) (+) and then the negative one (-).
- Cover the leads and terminals with special grease or petroleum jelly.
- Refit the battery.

BATTERY REMOVAL

ACCESS TO THE BATTERY

- Make sure the ignition switch is set to «OFF».
- Undo the screws «6» and remove the inspection cover «7» as described.
- Remove the screw «2» .
- Turn and pull the fuse box fitting «3» .



THE BATTERY IS CONNECTED TO THE ELECTRIC WIRES. DO NOT FORCE THE WIRES WHEN REMOVING THEM.

COMPLETE REMOVAL

- Disconnect first the negative lead (-) and then the positive (red) one (+).
- Disconnect the breather pipe.
- Remove the battery from its housing and put it away on a level surface in a cool and dry place.



ONCE REMOVED THE BATTERY MUST BE PUT AWAY IN A SAFE PLACE AND OUT OF THE REACH OF CHILDREN.

BATTERY RECHARGE .

- Remove the battery.
- Get a suitable battery charger.
- Unscrew and remove the caps of the cells.
- Check the electrolyte level of the battery.
- Connect the battery to a battery charger.

NOTE

IT IS RECOMMENDED TO RECHARGE USING A CURRENT RATING OF 1/10 OF THE BATTERY CAPACITY.

- Switch on the battery charger.
- Once the battery is recharged, control the electrolyte level and top up with distilled water if necessary.
- Shut the cell caps.



REFIT THE BATTERY ONLY 5-10 MINUTES AFTER DISCONNECTING THE CHARGER AS THE BATTERY KEEPS PRODUCING GAS FOR A SHORT TIME.

BATTERY INSTALLATION

- Make sure the ignition switch is set to «**OFF**».
- Place the battery in its housing.
- Connect the battery breather pipe.



ALWAYS CONNECT THE BATTERY BREATHER PIPE TO AVOID THAT SULPHURIC ACID VAPOURS FROM THE BREATHER CORRODE THE ELECTRICAL SYSTEM, PAINTED PARTS, RUBBER COMPONENTS OR GASKETS.

THE BREATHER PIPE SHOULD BE CONNECTED SO THAT IT IS NOT PRESSED, OTHERWISE, THIS MAY CAUSE PRESSURE INCREASE INSIDE THE BATTERY, AND ALSO DAMAGE IT.

- Connect first the positive (red) lead (+) and then the negative one (-)
- Cover terminals and leads with special grease or petroleum jelly.



UPON REFITTING, THE ELECTRIC WIRES SHOULD BE LED INTO POSITION SO THAT THEY DO NOT GET CRUSHED.

THE NEGATIVE LEAD (-) SHOULD NOT OVERLAP THE POSITIVE LEAD (+) CLAMP, ON THE CONTRARY, IT SHOULD BE PLACED NEXT TO IT, BETWEEN THE BATTERY AND THE HOUSING.

- Press the battery into the battery housing.
- Refit the fuse box fitting «3» .
- Tighten the screws «2» .
- Refit the inspection cover «7» and tighten the screws «6» .

Checking the electrolyte level (03_13)

- Remove the battery.
- Check that the fluid level is between the two "MIN" and "MAX" notches printed on the

side of the battery.

Otherwise:

- Unscrew and remove the caps of the cells.

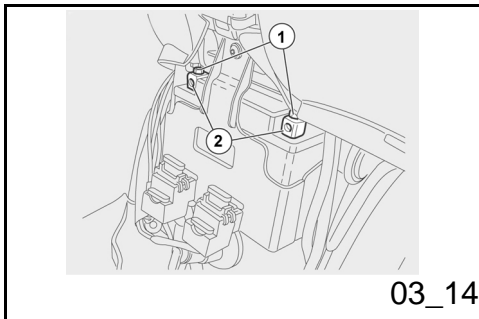
NOTE

USE DISTILLED WATER ONLY TO TOP UP ELECTROLYTE FLUID. DO NOT EXCEED THE "MAX" MARK, SINCE THE LEVEL INCREASES DURING RECHARGE.

- Restore the level adding distilled water only.
- Refit the cell caps.

NOTE

AFTER TOPPING UP, REFIT THE CELL CAPS ADEQUATELY.



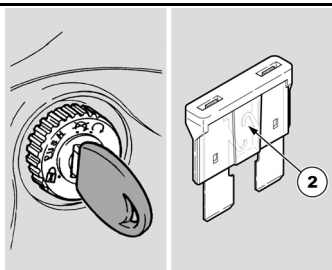
Long periods of inactivity (03_14)

If the scooter is inactive longer than fifteen days, it is necessary to recharge the battery to avoid sulphation,

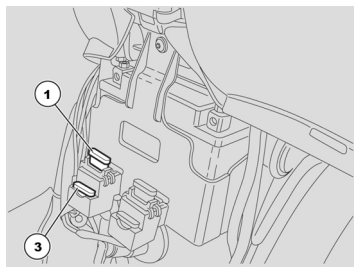
In winter or when the vehicle remains stopped, check the charge frequently (about once a month) to avoid deterioration.

- Fully recharge with an ordinary charge.

If the battery is still on the vehicle, disconnect the cables from the terminals.



03_15



03_16

Fuses (03_15, 03_16)

DO NOT REPAIR FAULTY FUSES.

NEVER USE FUSES OTHER THAN THE ONES SPECIFIED.

DAMAGE TO THE ELECTRICAL SYSTEM OR EVEN FIRE MAY BE CAUSED IN CASE OF A SHORT CIRCUIT.

IF A FUSE BLOWS OUT FREQUENTLY, THAT MAY BE DUE TO A SHORT CIRCUIT OR OVERLOAD. IF THIS OCCURS CONSULT AN OFFICIAL APRILIA DEALER.

Check fuse «1» in case of failure or irregular functioning of an electrical component or engine starting failure.

To check:

- Set the ignition switch to «**OFF**» to avoid an accidental short circuit.
- Remove the inspection cover.
- Take out the fuse «1» and check if the filament «2» is interrupted.
- Before replacing the fuse, find and solve, if possible, the problem that caused the problem.
- Then, replace the damaged fuse with the spare fuse «3» supplied or with one with the same current rating.
- Put the inspection cover back.

IF THE SPARE FUSE «3» IS USED, SUPPLY ANOTHER OF THE SAME TYPE IN THE CORRESPONDING FITTING.

FUSE DISTRIBUTION

15A Fuse (1) from battery to: starter motor.

7.5A Fuse from battery to: all the electric loads, except for the light circuit fed with alternating current.

Lamps



FIRE HAZARD. FUEL OR ANY OTHER FLAMMABLE SUBSTANCES MUST NOT BE CLOSE TO ELECTRICAL COMPONENTS.



BEFORE REPLACING A BULB, TURN THE IGNITION SWITCH TO «OFF» AND WAIT A FEW MINUTES FOR THE BULB TO COOL OFF.

WEAR CLEAN GLOVES OR USE A CLEAN DRY CLOTH TO REPLACE THE BULB.

DO NOT LEAVE PRINTS ON THE BULB AS THIS MAY CAUSE IT TO OVERHEAT OR EVEN BLOW OUT. IF YOU TOUCH THE BULB WITHOUT WEARING GLOVES, CLEAN OFF PRINTS WITH ALCOHOL TO AVOID DAMAGING THE BULB.

DO NOT FORCE ELECTRICAL CABLES.

Front light group (03_17, 03_18, 03_19, 03_20)

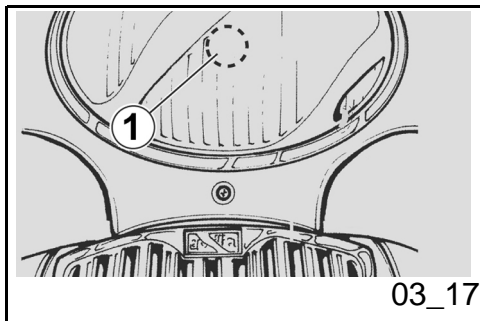
In the front headlight there are:

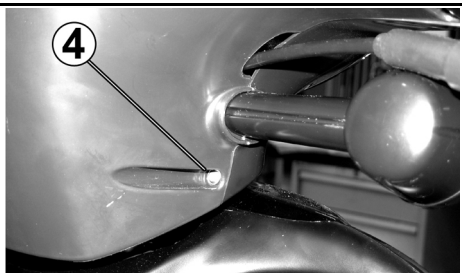
- one low-beam / high-beam light bulb «1».

For replacement:

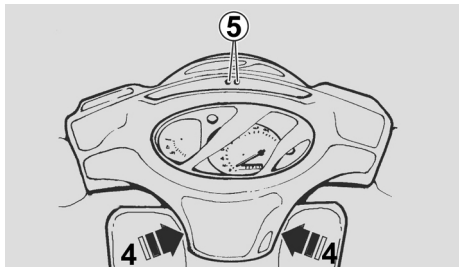
Remove the front handlebar cover as follows:

- Park the vehicle on its centre stand on safe and level ground.
- Unscrew and remove the four screws «4».
- Unscrew and remove the two screws «5».
- Remove the front handlebar cover paying special attention not to break the tabs.
- Remove the front headlamp

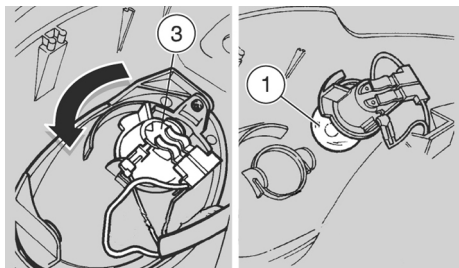




03_18



03_19



03_20

NOTE

HANDLE PLASTIC AND PAINTED COMPONENTS WITH CARE; DO NOT SCRATCH OR SPOIL THEM.

NOTE

UPON REFITTING, CHECK THAT THE TABS ARE INSERTED CORRECTLY.

LOW-BEAM/HIGH-BEAM LIGHT BULB

- Turn the bulb holder «3» clockwise and take it out of its fitting.
- Press moderately and turn the low-beam/high-beam light bulb «1» anticlockwise, remove and replace it with one of the same type.



DO NOT PULL THE ELECTRICAL CABLES WHEN TAKING OUT THE BULB HOLDER.

Headlight adjustment (03_21, 03_22)

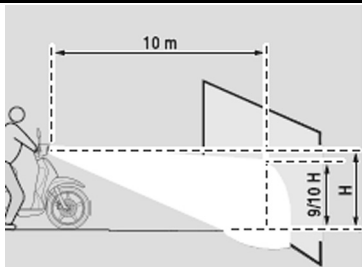
- For a quick check of the correct direction of the front light beams, place the scooter ten metres from a vertical wall and make sure the ground is level.
- Turn on the low beam light, sit on the scooter and check that the light beam projected to the wall is a little below the headlight horizontal straight line (about 9/10 of the total height).

To adjust the light beam:

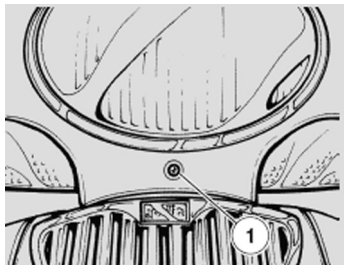
- Park the vehicle on its centre stand on safe and level ground.
- Operate with a screwdriver on the correct screw «1».

SCREW it (clockwise) to lift the light beam.

UNSCREW it (anticlockwise) to lower the light beam.



03_21



03_22



03_23

NOTE

FOLLOW THE SPECIFIC PROCEDURES TO CHECK THE LIGHT BEAM DIRECTION THAT ARE INDICATED BY THE LEGISLATION IN FORCE IN THE COUNTRY WHERE THE SCOOTER IS USED.

Front direction indicators (03_23)

To replace the bulbs:

- Park the vehicle on its stand.
- Unscrew and remove the screw «1».
- Remove the glass.
- Press the light bulb moderately and turn it anticlockwise.
- Remove the light bulb from its fitting.
- Install a light bulb of the same type correctly.



UPON REFITTING, PLACE THE ELEMENTS ADEQUATELY WHERE THEY CANNOT BE SPOILED.

NOTE

INSERT THE BULB IN THE BULB HOLDER SO THAT THE TWO GUIDING PINS COINCIDE WITH THEIR GUIDES ON THE BULB HOLDER.

NOTE

IF THE LAMP HOLDER GETS OFF ITS FITTING, REINSERT IT CORRECTLY MAKING THE LAMP HOLDER OPENING COINCIDE WITH SCREW SEAT.

Rear optical unit

It is not possible to replace the rear headlamp bulb as it is a LED. In this case, it is necessary to replace the whole rear headlamp unit.



Rear turn indicators (03_24, 03_25, 03_26)

The rear turn indicators are integrated with the rear headlamp.

To replace the bulbs:

- Rest the scooter on its centre stand.
- Unscrew and remove the three screws fixing the rear headlamp to the rear mudguard.
- Hold the headlamp and turn it so as to operate the screw «1».
- Unscrew the screw «1» and remove the glass «2».
- Press the light bulb «5» moderately and turn it anticlockwise.
- Extract the bulb from its fitting.
- Install a bulb of the same type adequately.



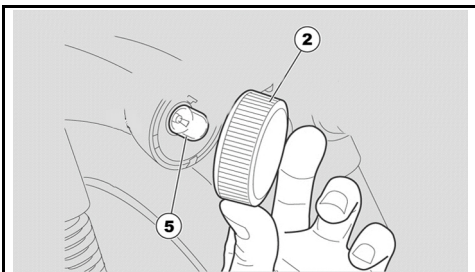
UPON REFITTING, PLACE THE ELEMENTS ADEQUATELY WHERE THEY CANNOT BE SPOILED.

NOTE

INSERT THE BULB IN THE BULB HOLDER SO THAT THE TWO GUIDING PINS COINCIDE WITH THEIR GUIDES ON THE BULB HOLDER.

NOTE

IF THE LAMP HOLDER GETS OFF ITS FITTING, REINSERT IT CORRECTLY MAKING THE LAMP HOLDER OPENING COINCIDE WITH SCREW SEAT.



03_25

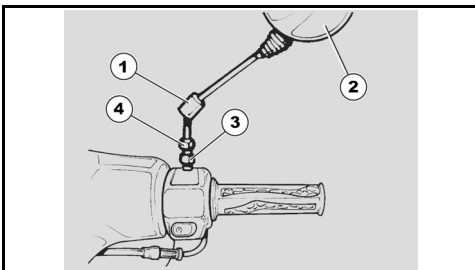


03_26

Rear-view mirrors (03_27)

- Park the vehicle on its centre stand on safe and level ground.
- Lift the protection cover «1».
- Locking the screw «3», loosen the nut «4» completely.
- Unscrew the rear-view mirror «2».

HOLD THE REAR-VIEW MIRROR «2» TO AVOID DROPPING IT BY ACCIDENT.



03_27



Idle adjustment (03_28)

Adjust idle speed as indicated in the scheduled maintenance table.

To carry out this operation:

- Ride a few kilometres, until reaching the regular working temperature, then stop the engine.
- Remove the inspection cover.
- Connect an electronic rpm indicator to the spark plug cable.



BEFORE ANY OPERATION, MAKE SURE THAT THE ROOM WHERE YOU ARE HAS ADEQUATE AIR VENTILATION.

- Start the engine.

The minimum engine idle speed should be of about 1800 ± 100 rpm; in this case, the rear wheel is not turned by the engine.

If necessary:

Operate on the setting panel «1» located on the carburettor.

SCREW it (clockwise) to increase revs.

UNSCREW it (anticlockwise) to reduce revs.

- Twisting the throttle grip, accelerate and decelerate a few times to check the correct operation and if the idle speed is stable.

NOTE

DO NOT TURN THE AIR SET SCREW TO AVOID CHANGING THE CARBURETION ADJUSTMENT.



TAKE YOUR SCOOTER TO AN OFFICIAL APRILIA DEALER IF NECESSARY.

Front disc brake (03_29, 03_30, 03_31)

BREAK FLUID - WARNINGS



UNEXPECTED CLEARANCE VARIATIONS OR ELASTIC RESISTANCE IN THE BRAKE LEVER ARE DUE TO FAILURE IN THE HYDRAULIC CIRCUIT.

CONTACT AN APRILIA OFFICIAL DEALER IN CASE OF DOUBTS ON THE CORRECT OPERATION OF THE BRAKING SYSTEM AND WHEN THE ORDINARY CHECKS CAN NOT BE CARRIED OUT.

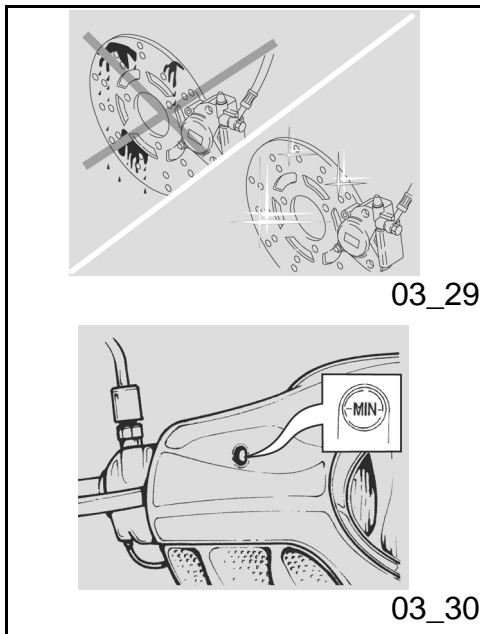
PAY SPECIAL ATTENTION TO THE BRAKE DISC AND THE FRICTION GASKETS AND CHECK THAT THEY ARE NOT OILY OR GREASY, SPECIALLY AFTER MAINTENANCE OPERATIONS OR CHECKS.

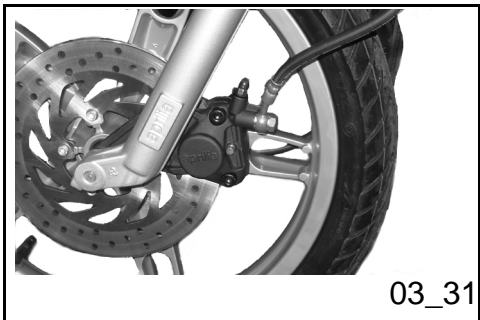
CHECKED THAT THE BRAKE PIPE IS NOT TWISTED OR THREADBARE.

DO NOT DISPOSE OF THE FLUID INTO THE ENVIRONMENT.

KEEP OUT OF REACH OF CHILDREN

DISC BRAKE





BRAKES ARE THE MOST IMPORTANT COMPONENTS TO ENSURE SAFETY AND THEREFORE THEY HAVE TO BE ALWAYS IN PERFECT CONDITIONS; CHECK THEM BEFORE EVERY RIDE.

A DIRTY DISC SMEARS THE PADS RESULTING IN POOR BRAKING. REPLACE DIRTY PADS AND CLEAN AGAIN THE DIRTY DISC USING A TOP QUALITY DEGREASING PRODUCT.

THE BRAKE FLUID SHOULD BE REPLACED EVERY TWO YEARS AT AN OFFICIAL APRILIA DEALER.

DO NOT HESITATE TO CONTACT AN OFFICIAL APRILIA DEALER IN CASE OF DOUBTS ON THE CORRECT OPERATION OF THE BRAKING SYSTEM AND WHEN THE ORDINARY CHECKS CAN NOT BE CARRIED OUT.

NOTE

THE FOLLOWING INFORMATION REFERS ONLY TO THE FRONT DISC BRAKING CIRCUIT.

When the friction pads wear out, the fluid level goes down to automatically compensate for that wear. The brake fluid reservoir is placed near the front brake lever attachment. Check frequently the brake fluid level in the reservoir and the brake pad wear.



DO NOT USE YOUR SCOOTER IF A FLUID LEAK IN THE BRAKING CIRCUIT IS DETECTED.

The brake fluid reservoir is placed near the front brake lever attachment. Check frequently the brake fluid level in the reservoir and the brake pad wear.

CHECK

To check level:

- Park the vehicle on its centre stand on safe and level ground.
- Turn the handlebar so that the fluid in the brake fluid reservoir is parallel to the «**MIN**» reference mark indicated on the sight glass.

MIN = minimum level.

- Check that the brake fluid level in the reservoir is over the «**MIN**» reference mark indicated on the sight glass. If the fluid does not reach at least the «**MIN**» reference mark.

NOTE

THE FLUID LEVEL GOES DOWN GRADUALLY AS THE PADS WEAR OUT.

- Check brake pads for wear.

If pads and/or the disc need not to be replaced:

- Take your scooter to an **Official aprilia Dealer** to carry out the replacement.



CHECK BRAKING EFFICIENCY.

IN CASE OF EXCESSIVE TRAVEL OF THE BRAKE LEVER OR POOR PERFORMANCE OF THE BRAKING CIRCUIT, TAKE YOUR SCOOTER TO AN OFFICIAL APRILIA DEALER AS IT MAY BE NECESSARY TO PURGE AIR IN THE CIRCUIT.

Pads wear check

Check brake pads for wear and replace them as indicated in the scheduled maintenance tables.

Disc brake pad wear depend on the use, the riding style and the roads. Riding your scooter on dirty or wet streets accelerates wear.

To carry out a quick pad check:

- Park the vehicle on its centre stand on safe and level ground.
- Remove the brake calliper cover «1».
- Carry out a visual check between the brake disc and the pads.
- If the thickness of the friction materials (even if only one pad) is reduced to about 1.5 mm, replace both pads.



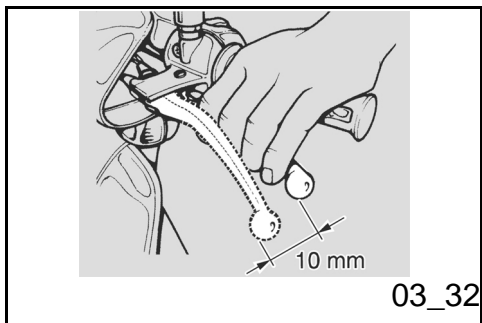
CHECK BRAKE PADS FOR WEAR MAINLY BEFORE EACH RIDE.

NOTE

EXCESSIVE WEAR OF THE FRICTION MATERIAL MAKES THE PAD METAL SUPPORT GET INTO CONTACT WITH THE DISC, WHICH RESULTS IN A METAL NOISE AND SPARKS IN THE CALLIPER; THEREFORE, BRAKING EFFICIENCY AND DISC SAFETY AND INTEGRITY ARE AT RISK.

NOTE

TAKE YOUR SCOOTER TO AN OFFICIAL APRILIA DEALER TO CARRY OUT THE REPLACEMENT.

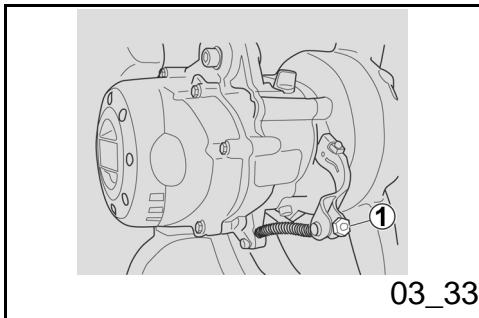


Rear drum brake (03_32, 03_33)



BRAKES ARE THE MOST IMPORTANT COMPONENTS TO ENSURE SAFETY AND THEREFORE THEY HAVE TO BE ALWAYS IN PERFECT CONDITIONS; CHECK THEM BEFORE EVERY RIDE.

DO NOT HESITATE TO CONTACT AN OFFICIAL APRILIA DEALER IN CASE OF DOUBTS ON THE CORRECT OPERATION OF THE BRAKING SYSTEM AND WHEN THE ORDINARY CHECKS CAN NOT BE CARRIED OUT.



BRAKE ADJUSTMENT

- Measure the distance the lever travels before the brake starts braking. The empty travel at the brake lever end should be of about 10 mm.

To adjust clearance:

- Operate on the set screw «1».
- Operate the brake repeatedly and check that the wheel rotates freely after releasing the brake.
- Check braking efficiency.

NOTE

A COMPLETELY SCREWED IN SET SCREW «1» INDICATES SHOE WEAR.



BRAKE SHOE HEATING, CAUSED BY BRAKING, MAY MODIFY THE CLEARANCE BETWEEN THE FRICTION MATERIAL AND THE DRUM. FOR THIS REASON, CHECK THE CLEARANCE EVEN WITH SHOES IN WORKING TEMPERATURE.

- Carry out a test ride operating the rear brake twice or three times.

NOTE

CARRY OUT THE CHECK WITH ENGINE OFF.

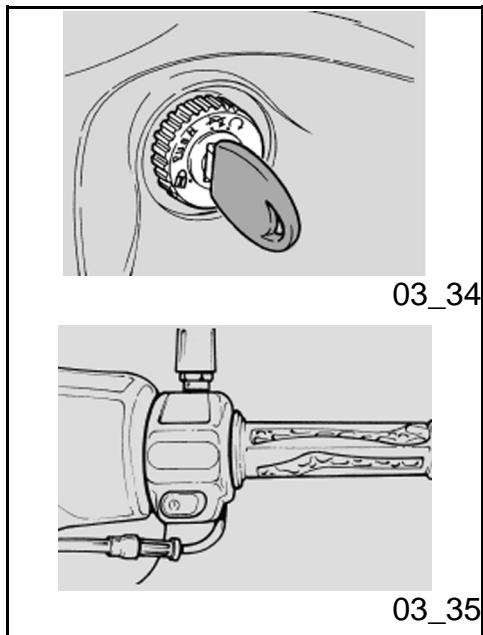
- Park the vehicle.
- Check that the wheel rotates freely.

If necessary:



WITH HOT ENGINE, PAY SPECIAL ATTENTION NOT TO GET BURNED WHEN CARRYING OUT THE FOLLOWING OPERATIONS.

Loosen the set screw «1», checking that the wheel rotates freely.



Periods of inactivity (03_34, 03_35)

Take some measures to avoid the side effects of not using the scooter.

Besides, it is necessary to carry out general repairs and checks before garaging the scooter as one can forget to do so afterwards.

Proceed as follows:

- Empty the reservoir and the carburettor completely.
- Remove the spark plug, and pour a spoonful of two-stroke engine oil (5 - 10 cm³) in the cylinder.
- Set the ignition switch to «ON» and press the starter button for a few seconds to distribute the oil on the cylinder surfaces evenly.
- Remove the protection cloth.
- Refit the spark plug.
- Remove the battery.
- Wash and dry the scooter.
- Polish the painted surfaces.
- Inflate tyres.
- Place the scooter so that both tyres do not touch the ground using a specific support.
- Set the scooter in a room with no heating or humidity, with minimum temperature variations and not exposed to sun rays.
- Put a plastic bag on the muffler exhaust end and tie it so that humidity cannot get in.
- Cover the scooter but do not use plastic or waterproof materials.



PLACE A CLEAN CLOTH ON THE CYLINDER NEXT TO THE SPARK PLUG SEAT TO PROTECT IT FROM POSSIBLE OIL SPLASHES.

AFTER STORAGE

- Uncover and clean the scooter.
- Check that the battery charge is ok and fit it.
- Check the carburettor drainage screw is fully screwed (drainage closing indication)
- Refill the fuel tank.
- Carry out the preliminary controls.



AS A TEST, RIDE THE SCOOTER FOR A FEW KILOMETRES AT A MODERATE SPEED AWAY FROM TRAFFIC AREAS.

Cleaning the vehicle

Clean the scooter frequently when riding in the following areas or conditions:

- Air pollution (cities and industrial areas).
- Atmospheric salinity and humidity (seashore areas, hot and wet weather).
- Special ambient/seasonal conditions (use of salt, anti-icing chemical products on the roads in winter).
- Pay special care that industrial or polluting dust deposits do not form on the body-work and also remove tar stains, dead insects, bird droppings, etc.
- Avoid parking your scooter under trees; during some seasons, actually some

residues, resin, fruits or leaves containing chemical substances which damage the paint fall from trees.



AFTER CLEANING YOUR SCOOTER, BRAKING EFFICIENCY MAY BE TEMPORARILY AFFECTED DUE TO THE PRESENCE OF WATER ON THE FRICTION SURFACES OF THE BRAKING CIRCUIT. CALCULATE A LONGER BRAKING DISTANCE IN ORDER TO AVOID ACCIDENTS. OPERATE THE BRAKES SEVERAL TIMES TO RESTORE NORMAL CONDITIONS.

CARRY OUT THE PRELIMINARY CHECKS.

To remove dirt and mud deposited on the painted surfaces, use a low pressure water jet to soak all dirty parts carefully. Wipe off mud and dirt with a soft sponge for bodywork soaked in a lot of water and shampoo (2 - 4% parts of shampoo in water). Then rinse abundantly with water and dry with a shammy cloth. To clean the engine outer parts, use degreasing detergent, brushes and old cloths.



TO CLEAN THE HEADLAMPS, USE A SPONGE SOAKED IN NEUTRAL DETERGENT AND WATER, SCRUBBING DELICATELY THE SURFACES AND RINSING WITH PLENTY OF WATER FREQUENTLY. REMEMBER TO CLEAN THE SCOOTER CAREFULLY BEFORE ANY POLISHING WITH SILICON WAX. DO NOT POLISH MATT PAINTWORK WITH ABRASIVE PASTES.

THE SCOOTER SHOULD NEVER BE WASHED IN DIRECT SUNLIGHT, ESPECIALLY DURING SUMMER, WITH THE BODYWORK STILL HOT, AS THE SHAMPOO CAN DAMAGE THE PAINTWORK IF IT DRIES BEFORE BEING RINSED OFF.

DO NOT USE LIQUIDS AT TEMPERATURES OVER 40 °C WHEN CLEANING PLASTIC

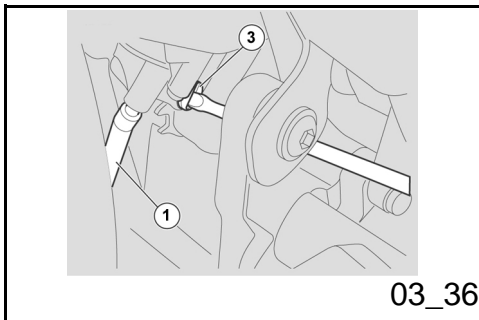
PARTS OF THE SCOOTER.

DO NOT DIRECT HIGH PRESSURE WATER OR AIR OR STEAM JETS TO THE FOLLOWING PARTS: WHEEL HUBS, CONTROLS LOCATED ON THE RIGHT OR LEFT-HAND SIDE OF THE HANDLEBAR, BEARINGS, BRAKE PUMPS, INSTRUMENTS AND GAUGES, MUFFLER EXHAUST, GLOVEBOX / TOOL KIT, IGNITION SWITCH / STEERING, FUEL CAP, HEADLAMPS AND ELECTRICAL CONNECTIONS.

DO NOT USE ALCOHOL, PETROL OR SOLVENTS TO CLEAN RUBBER AND PLASTIC PARTS AND THE SADDLE. USE ONLY WATER AND NEUTRAL SOAP INSTEAD.



DO NOT APPLY PROTECTIVE WAX ON THE SADDLE TO AVOID SLIPPERINESS.

**Transport (03_36)****NOTE**

BEFORE TRANSPORTING THE VEHICLE, IT IS NECESSARY TO EMPTY THE FUEL TANK AND THE CARBURETOR ADEQUATELY, CHECKING THAT THEY ARE DRY.

WHILE TRANSPORTING THE SCOOTER, IT SHOULD BE AT ALL TIMES VERTICAL AND WELL ANCHORED IN ORDER TO AVOID FUEL, OIL OR COOLANT LEAKS.

IN CASE OF FAILURE, DO NOT HAVE THE SCOOTER TOWED. ASK FOR AN ADEQUATE ASSISTANCE.



FIRE HAZARD.

WAIT UNTIL THE ENGINE AND THE MUFFLER ARE COLD.

FUEL VAPOURS ARE HARMFUL TO HEALTH.

BEFORE ANY OPERATION, MAKE SURE THAT THE ROOM WHERE YOU ARE HAS ADEQUATE AIR VENTILATION.

DO NOT INHALE FUEL VAPOURS.

DO NOT SMOKE OR USE NAKED FLAMES.

DO NOT DISPOSE OF FUEL INTO THE ENVIRONMENT.



DO NOT DISPOSE OF FUEL INTO THE ENVIRONMENT.

- Park the vehicle on its centre stand on safe and level ground.
- Shut off the engine and wait until it cools off.
- Get a container, with more capacity than the fuel in the tank, and put it on the ground to the left of the vehicle.
- Remove the fuel tank cap.
- Use a manual pump or a similar system to empty the fuel tank.

NOTE

AFTER EMPTYING THE TANK, REFIT THE FUEL TANK CAP ADEQUATELY.

- Refit the fuel tank cap.

To empty the carburettor completely:

- Operating on the right-hand side of the vehicle, place the free end of pipe «1» into a container.

NOTE

UPON REFITTING, ALWAYS REPLACE WITH A NEW CLAMP.

- Open the carburettor drainage loosening the draining screw «3» under the float chamber.

When all the fuel in the carburettor is drained:

Loosen the drainage screw «3» completely.



LOOSEN THE DRAINAGE SCREW «3» CORRECTLY TO AVOID FUEL LEAKAGE FROM THE CARBURETTOR WHEN REFILLING IT.

TAKE YOUR SCOOTER TO AN OFFICIAL APRILIA DEALER IF NECESSARY.

SCARABEO

50 2T

The Aprilia logo consists of the word "aprilia" in a white, lowercase, sans-serif font, centered within a solid red rectangular background.

Chap. 04
Technical data

TECHNICAL DATA

Specification	Desc./Quantity
Max length	1875 mm
Max. width (to the brakes lever)	710 mm
Max. height (to the rear-view mirrors)	1190 mm
Saddle height	700 mm
Centre to centre distance	1245 mm
Minimum ground clearance	145 mm
Kerb weight (in running order)	91 kg
Seats	2
Scooter max load (rider + passenger + luggage)	180 Kg (in countries where passenger transport is permitted)
Chassis type	split double cradle frame
Front suspension	hydraulic telescopic fork
Front suspension travel	89 mm
Rear suspension	single hydraulic shock absorber

Rear suspension travel	74 mm
Front brake	Ø 220 mm disc brake with hydraulic transmission
Rear brake	Ø 140 mm
Rims	alloy
Front wheel	1.60 x 16"
Rear wheel	1.85 x 16"
Front tyre	80 / 80 x 16" SAVA MC 26 CAPRI 46M REINF
Rear tyre	90 / 80 x 16" SAVA MC 26 CAPRI 52M REINF
Front tyre standard inflation pressure	190 kPa (1.9 bar)
Rear tyre standard inflation pressure	220 kPa (2.2 bar)
Front tyre standard inflation pressure with passenger	190 kPa (1.9 bar)
Rear tyre standard inflation pressure with passenger	230 kPa (2.3 bar)
Battery	12V - 4 Ah
Fuse	70 W

Generator (permanent magneto) 12V - 70W

ENGINE TECHNICAL DATA

Specification	Desc./Quantity
Engine model	PA C421M
Cylinder quantity	Horizontal single-cylinder
Overall engine capacity	49 cm ³
Bore/stroke	40 mm / 39.3 mm
Compression ratio	9.9 ± 0.5:1
Ignition	electric + kick starter
Clutch	centrifugal
Cooling	with forced air
Variator	continuous, automatic
Main	V-belt
Minimum ratio for continuous transmission	3.07
Maximum ratio for continuous transmission	1.18

Secondary transmission	gear reduction unit
Fuel (reserve included)	7 l
Fuel reserve	1 l
Transmission oil	130 cm ³
Mixer oil (reserve included)	1.5 l
Mixer oil reserve	0.60 l
Standard carburettor	DELL' ORTO PHVA 17.5
Fuel	Premium unleaded premium (4 stars) petrol, DIN 51607, with minimum octane rating of 95 (NORM) and 85 (NOMM)
Ignition type	CDI
Ignition advance	20°
Spark plug	CHAMPION RN2C NGK-R BR9ES NGK-R BR8ES
Spark plug electrode gap	0.6 ± 0.05 mm
Engine revs at idle speed	1800 ± 100 rpm

BULBS AND WARNING LIGHTS

Specification	Desc./Quantity
Low-/high-beam light bulb	12V - 35/35W
Turn indicators bulbs	12V - 10W
Rear tail light /stop light bulb	12V - 5/21W
License plate light bulb	12V - 5W
Instrument panel light bulbs	12V - 1.2W
High-beam warning light	12V - 1.2W
Turn indicator warning light	12V - 3W
Low mixer oil warning light	12V - 1.2W



Kit equipment (04_01)

To access the tools kit, unlock and lift the saddle.

The wrenches are placed at the top of the battery compartment cover. The tools kit includes:

- One 21 mm box-spanner;
- One twin screwdriver.

SCARABEO

50 2T

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

Chap. 05
Programmed
maintenance

Scheduled maintenance table



FIRE HAZARD.

FUEL OR ANY OTHER FLAMMABLE SUBSTANCES MUST NOT BE CLOSE TO ELECTRICAL COMPONENTS.

BEFORE ANY MAINTENANCE OPERATION OR INSPECTION ON THE SCOOTER, SHUT OFF THE ENGINE AND REMOVE THE KEY. WAIT UNTIL THE ENGINE AND THE EXHAUST SYSTEM ARE COLD, IF POSSIBLE LIFT THE SCOOTER WITH A SPECIFIC TOOL ON A FIRM AND LEVEL GROUND.

BEFORE ANY OPERATION, MAKE SURE THAT THE ROOM WHERE YOU ARE HAS ADEQUATE AIR VENTILATION.

TO AVOID BURNS PAY SPECIAL CARE WITH HOT ENGINE AND EXHAUST SYSTEM PARTS.

DO NOT HOLD ANY MECHANICAL OR OTHER SCOOTER PARTS WITH YOUR MOUTH: SCOOTER COMPONENT ARE NOT EDIBLE, ON THE CONTRARY SOME OF THEM ARE HARMFUL AND EVEN TOXIC.

NOTE

UNLESS OTHERWISE INDICATED, REFIT THE UNIT FOLLOWING THE REMOVAL STEPS BUT IN REVERSE ORDER.

WHEN CARRYING OUT MAINTENANCE OPERATIONS, IT IS ADVISABLE TO WEAR LATEX GLOVES.

In general routine maintenance operations can be carried out by the user; in some cases it is necessary to use specific tools and have some technical knowledge.

If you need assistance or technical advice, consult an **Official aprilia Dealer** who will provide a precise and quick service.

Ask your **Official aprilia Dealer** to test the scooter on the road after a repair but nonetheless, personally carry out the Preliminary Checks after a maintenance operation.

PERIODIC MAINTENANCE CHART

Adequate maintenance is fundamental to ensuring long-lasting, optimum operation and performance of your vehicle.

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 faults should be reported without delay to any **Official aprilia Dealer** without waiting until the next scheduled service to solve it.

Carrying out scheduled services on time is necessary to ensure your warranty remains valid. For any other information concerning Warranty procedures and Scheduled Maintenance, please refer to the Warranty Booklet.

EVERY 2 YEARS

Action

Brake fluid - change

AFTER 1000 KM OR 4 MONTHS

Action

Hub oil - change

Mixer/gas transmission - adjustment

Odometer gear - grease

Steering - adjustment

Brake control levers - greasing

Brake fluid level - check

Safety locks - check

Electrical system and battery - check

Tyre pressure and wear - check up

Vehicle and brake test - test ride

**AFTER 5000 KM OR 12 MONTHS, 25000, 35000, AND
55000 KM**

Action

Hub oil level - control

Spark plug / electrode gap - replacement

Air filter - cleaning

Mixer/gas transmission - adjustment

Brake control levers - greasing

Brake pads - condition and wear check

Brake fluid level - check

Electrical system and battery - check

Tyre pressure and wear - check up

Vehicle and brake test - test ride

AFTER 10000 KM OR 24 MONTHS AND AFTER 50000**KM****Action**

Hub oil - change

Spark plug / electrode gap - replacement

Air filter - cleaning

Idle speed (*) - adjustment

Mixer/gas transmission - adjustment

Variable speed rollers - replacement

Odometer gear - grease

Driving belt - check

Steering - adjustment

Brake control levers - greasing

Brake pads - condition and wear check

Brake fluid level - check

Transmissions - lubrication

Safety locks - check

Suspensions - Check

Electrical system and battery - check

Headlight - adjustment

Tyre pressure and wear - check up

Vehicle and brake test - test ride

(*) See CO standard in the «Idle speed adjustment» section

AFTER 15000 KM AND 45000 KM

Action

Hub oil level - control

Spark plug / electrode gap - replacement

Air filter - cleaning

Mixer/gas transmission - adjustment

Driving belt - replacement

Brake control levers - greasing

Brake pads - condition and wear check

Brake fluid level - check

Electrical system and battery - check

Tyre pressure and wear - check up

SAS housing (sponge) - cleaning

Vehicle and brake test - test ride

(*) See instructions in the «Secondary air system» section

AFTER 20000 KM AND 40000 KM**Action**

Hub oil - change

Spark plug / electrode gap - replacement

Air filter - cleaning

Idle speed (*) - adjustment

Cylinder ventilation system - check/cleaning

Mixer/gas transmission - adjustment

Driving belt - check

Variable speed rollers - replacement

Mixer belt - replacement

Odometer gear - grease

Steering - adjustment

Brake control levers - greasing

Brake pads - condition and wear check

Brake fluid level - check

Transmissions - lubrication

Safety locks - check

Suspensions - Check

Electrical system and battery - check

Headlight - adjustment

Tyre pressure and wear - check up

Vehicle and brake test - test ride

(*) See «Idle speed adjustment» section

AFTER 30000 KM

Action

Hub oil - change

Spark plug / electrode gap - replacement

Air filter - cleaning

Idle speed (*) - adjustment

Mixer/gas transmission - adjustment

Driving belt - replacement

Variable speed rollers - replacement

Odometer gear - grease

Steering - adjustment

Brake control levers - greasing

Brake pads - condition and wear check

Brakes flexible hoses - replacement

Brake fluid level - check

Transmissions - lubrication

Safety locks - check

Suspensions - Check

Electrical system and battery - check

Headlight - adjustment

Tyre pressure and wear - check up

SAS housing (sponge) - cleaning

Vehicle and brake test - test ride

() See CO standard in the «Idle speed adjustment» section (*) See instructions in the «Secondary air system» section*

AFTER 60000 KM

Action

Hub oil - change

Spark plug / electrode gap - replacement
--

Air filter - cleaning

Idle speed (*) - adjustment

Cylinder ventilation system - check/cleaning
--

Mixer/gas transmission - adjustment

Driving belt - replacement

Variable speed rollers - replacement

Mixer belt - replacement

Odometer gear - grease

Steering - adjustment

Brake control levers - greasing

Brake pads - condition and wear check

Brakes flexible hoses - replacement

Brake fluid level - check

Transmissions - lubrication

Safety locks - check

Suspensions - Check

Electrical system and battery - check

Headlight - adjustment

Tyre pressure and wear - check up

SAS housing (sponge) - cleaning

Vehicle and brake test - test ride

() See CO standard in the «Idle speed adjustment» section (*) See instructions in the «Secondary air system» section*

RECOMMENDED PRODUCTS TABLE

Product	Description	Specifications
AGIP GEAR SYNTH SAE 75W-90	Transmission oil	SAE 75W-90
AGIP FORK 5W or FORK 20W	Fork oil	SAE 5W / SAE 20W

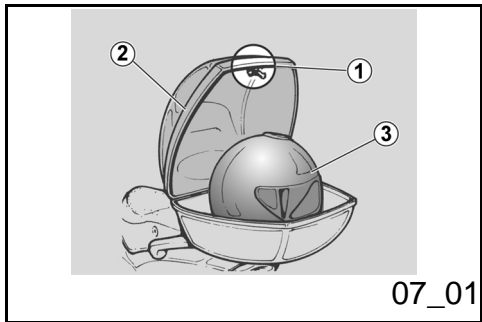
AGIP GREASE SM2	Lithium grease with molybdenum for bearings and other points needing lubrication	NLGI 2
AGIP CHAIN GREASE	Chain spray grease	
AGIP BRAKE FLUID DOT 4	Brake fluid	SAE J1703, NHTSA 116 DOT 4, ISO 4925 synthetic fluid
AGIP PERMANENT PLUS	Coolant	CUNA NC 956-16
AGIP CITY HI TEC 2T	Mixer oil	JASO FC, ISO-L-EGD

SCARABEO

50 2T

The Aprilia logo consists of the word "aprilia" in a white, lowercase, sans-serif font, centered within a solid red rectangular background.

Chap. 06
Special fittings



Luggage rack (07_01)

Thanks to its rear case it is not necessary to take the helmet with you when the vehicle is parked.



NEVER RIDE WITH THE REAR CASE OPEN. THIS CAN JEOPARDISE THE SAFETY CONDITIONS WHILE RIDING.

To place the helmet:

- Rest the scooter on its centre stand.
- Take out the key from the ignition switch and introduce it in the rear case lock «1».
- Turn the key anticlockwise and open the rear case «2».
- Put the helmet «3» in the rear case only as shown in the figure and the sticker on the case.
- Close the rear case «2» until the lock trips and remove the key from the corresponding lock «1».

NOTE

NEVER LEAVE THE KEY INSERTED IN THE LOCK.



THE VALUE OF SERVICE

Thanks to continuous technical updates and specific training programmes on Aprilia products, only Aprilia Official Networks mechanics know this vehicle fully and have the special tools necessary to carry out maintenance and repair operations correctly.

The reliability of the vehicle also depends on its mechanical conditions. Checking the scooter before riding it, its regular maintenance and the use of Original Spare Parts only are essential factors!

For information about the nearest Official Dealer and/or Service Centre, consult the Yellow Pages or search directly on the inset map in our Official Website:

www.aprilia.com

Only Aprilia Original Spare Parts ensure products already studied and tested during the vehicle design stage. All Aprilia Original Spare Parts undergo quality control procedures to guarantee full reliability and duration.

The descriptions and illustrations given in this publication are not binding; While the basic characteristics 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 accessories, which it considers necessary to improve the product or which are required for manufacturing or construction reasons.

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

© Copyright 2006- Aprilia. All rights reserved. Reproduction of this publication in whole or in part is prohibited. Aprilia - After sales service.

Aprilia trademark is property of Piaggio & C. S.p.A.