

Piaggio would like to thank you

for choosing one of its products. We have prepared this manual to help you to get the very best from your vehicle. 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 and it will serve you well for a long time to come. This booklet forms an integral part of the vehicle; should the vehicle be sold, it must be transferred to the new owner.

LUM MP3 300 YOURBAN RL-NRL (2011)



The instructions given in this manual are intended to provide a clear, simple guide to using your vehicle; this booklet also details routine maintenance procedures and regular checks that should be carried out on the vehicle at an **authorised Dealer or Service Centres**. The booklet also contains instructions for simple repairs. Any operations not specifically described in this booklet require the use of special tools and/or particular technical knowledge: to carry out these operations, refer to any **authorised Dealer or Service Centres**.



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 that you see on this page are very important. They are used to highlight parts of the booklet that should be read with particular care. The different symbols are used to make each topic in the manual simple and quick to locate.

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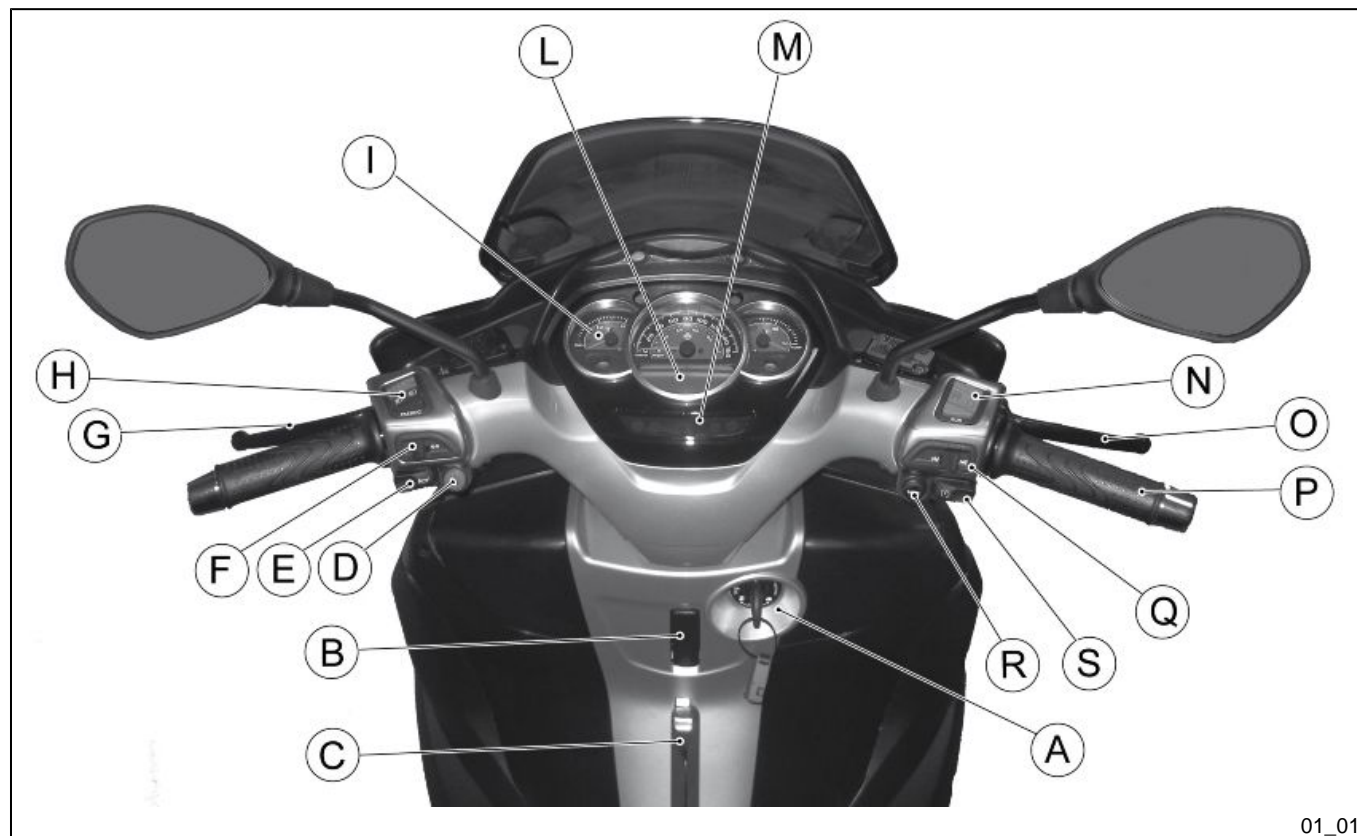
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LUM MP3 300 YOURBAN RL-NRL (2011)



**Chap. 01
Vehicle**



01_01

Dashboard (01_01)

A = Ignition key-switch

B = Bag hook

C = parking brake (where available)

D = Emergency turn indicator switch

E = Horn button

F = Turn signal switch

G = Rear brake lever

H = Light switch

I = Analogue instrument panel

L = Digital instrument panel

M = Warning light unit

N = Emergency cut-off switch RUN/OFF

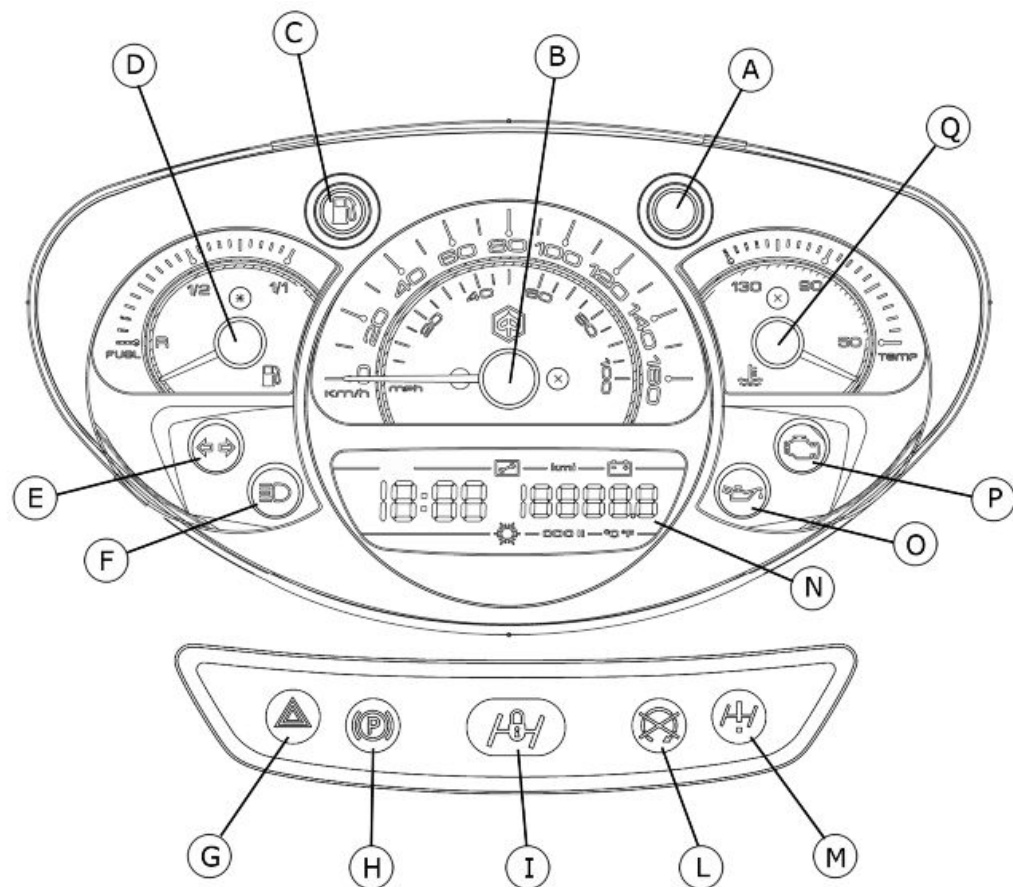
O = Front brake lever

P = Throttle grip

Q = Front suspension locking-unlocking switch (if available)

R = Starter button

S = MODE button



Analogue instrument panel (01_02)

A = Immobilizer / anti-theft LED

B= Speedometer with twin scale (km/h and mph)

C = Fuel reserve warning light

D = Fuel gauge

E = Turn indicator warning light

F = High-beam warning light

G = Emergency turn indicator warning light

H = Warning light for parking brake engaged (where available)

I = Front suspension locking system warning light (where available)

L = Engine stop warning light

M = Front suspension locking system failure warning light (where available)

N = Digital display

O = Low oil pressure warning light

P = Engine control telltale light and injection system failure warning light

Q = Coolant temperature gauge



01_03

Clock (01_03, 01_04, 01_05, 01_06)

Use the switch "MODE" to "ODO" mode

Hold the switch "MODE" for more than 3 seconds, the hours will be displayed. Hours will increase each time the "MODE" button is pressed.

Once the hour is adjusted, hold the switch "MODE" more than 3 seconds to display the minutes. Minutes will increase each time the "MODE" button is pressed.

If no key is pressed for 3 seconds, the system will leave the clock adjustment mode.

WARNING

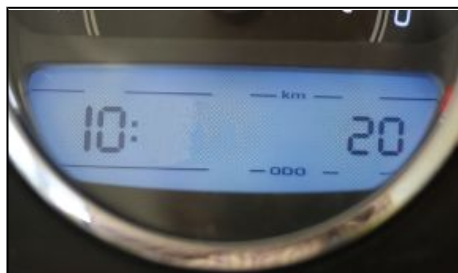
FOR SAFETY REASONS, CLOCK ADJUSTMENT IS POSSIBLE EXCLUSIVELY WITH VEHICLE SPEED EQUAL TO 0 Km/h.



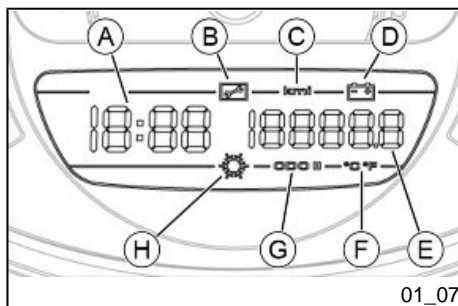
01_04



01_05



01_06



01_07

Digital lcd display (01_07)

A = Clock - date

B = «SERVICE» icon

C = Kilometre-mile indicator

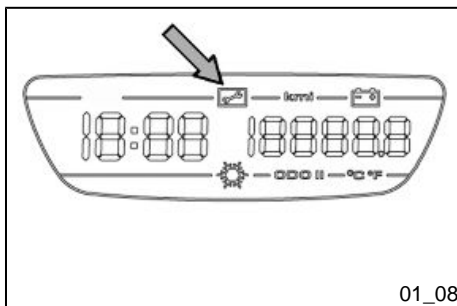
D = State of battery charge icon

E = Odometer indicator, partial odometer I and II, state of battery charge and cyclically selectable ambient temperature with the «MODE» button

F = Ambient temperature indicator in degrees Celsius or Fahrenheit

G = Indicator «ODO», «ODO I» or «ODO II»

H = Low ambient temperature icon



01_08

Maintenance icons (01_08)

At vehicle ignition, immediately after the ignition check, if there are less than 300 km to the next scheduled service, the corresponding icon flashes for 5 seconds. Once the scheduled service mileage is reached, the icon remains lit until the execution of the scheduled service.



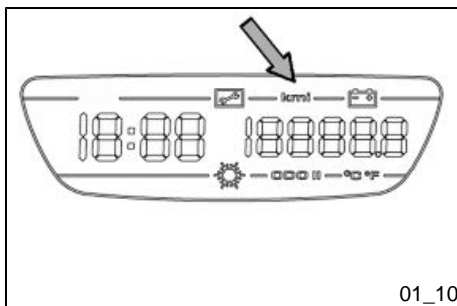
01_09

MODE button (01_09, 01_10)

Pushing the **MODE** button «A» for less than a second displays the following sequence of functions:

- Total Odometer «ODO»
- Partial Odometer «ODO I»
- Partial Odometer «ODO II»
- State of battery charge
- Ambient temperature «°»

To reset the trip odometer, move «ODO I» or «ODO II» and press for more than three seconds the button **MODE** «A».



01_10

UNIT OF MEASUREMENT SETTING

When using the function measuring the voltage of the battery, holding down the **MODE** button for longer than 10 seconds will switch between reading in kilometres or miles for the odometer. For the first 5 seconds the display will not give any signal, for the next 5 seconds the message unit of measurement (**Km** or **mi**) currently in use will blink at a frequency of one flash per second. If the button is released before 10 seconds the measurement unit is not changed.



01_11

Key switch (01_11)

1. **LOCK** = Ignition disabled, extractable key, mechanical antitheft device enabled. The parking brake (where available) cannot be released when pressed and cannot be pressed when released.
2. **«OFF»** = Ignition disabled, extractable key, mechanical antitheft device disabled and enabled/disabled parking brake (where available).
3. **ON** = Ready to start, non-extractable key, mechanical antitheft device disabled.
4. **«SEAT COMPARTMENT OPENING»** = Seat compartment opening position, this position is reached by pressing the key from "OFF" or "ON" and turning it anticlockwise.
5. **«FUEL TANK COVER OPENING»** = Fuel tank cover opening position. Press the key when in "OFF" or "ON" and turn it clockwise.



01_12

Locking the steering wheel (01_12)

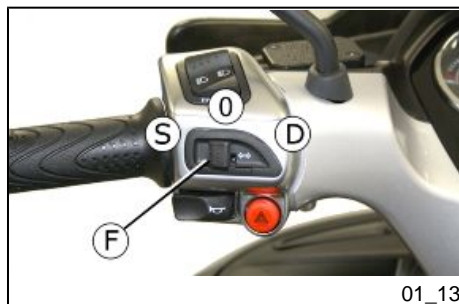
Turn the handlebar to the left (as far as it will go), turn the key to **«LOCK»** and remove the key.

Releasing the steering wheel

Reinsert the key and turn it to **«OFF»**.

CAUTION

DO NOT TURN THE KEY TO «LOCK» OR «KEY OFF» WHILE RIDING.

**Switch direction indicators (01_13)**

Move switch «F» to the left to indicate a left turn; move switch «F» to the right to indicate a right turn. Push the central part of switch «F» to deactivate the turn indicators.

**Horn button (01_14)**

Push the button «E» to sound the horn.



01_15

Light switch (01_15)

When the light switch «H» is set to «0», the low-beam light is on. When set to «1», the high-beam light is activated. If the light switch «H» is pressed when set to «2», the high-beam light flashing is activated. The switch goes back to «0» automatically.



01_16

Emergency flashing light button (01_16)

It enables the activation of the four turn indicators simultaneously. The control «D» can be enabled only with the key set to «ON», but once enabled, it keeps functioning even if the key is set to «OFF» or «LOCK». To disable this function, simply turn the ignition switch to «ON».



Start-up button (01_17)

To start the engine, pull either brake lever and then press the starter button «R».

The vehicle is equipped with special starter procedure management. The starter motor remains active until the engine starts even if switch «R» is released.

Keep one of the two brakes operated (front or rear) so as to not interrupt the starter procedure.

The throttle grip must remain in the minimum position, because any other position inhibits the vehicle starter.

The starter motor will remain active for a maximum of 5 consecutive seconds.

WARNING



IF THE VEHICLE IS EQUIPPED WITH THE SUSPENSION LOCKING DEVICE, IT WILL START, BUT WILL REMAIN (ALSO BY USING THE THROTTLE GRIP) IDLE IF THE RIDER IS NOT SEATED ON THE SADDLE IN RIDING POSITION.



Engine stop button (01_18)

The engine can be started when the emergency stop switch «N» is set to «1» **RUN**; if the emergency stop switch «N» is set to «0» **OFF**, the engine cannot be started or it shuts off if already running.



01_19

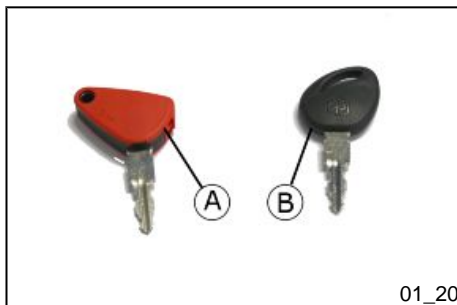
Front suspension unlock-lock switch (01_19)

The «**Q**» switch engages and disengages the front suspension locking system (where available).

As the topic is so complex, find the instructions for using this control in the **Use** chapter.

The immobilizer system

In order to enhance theft protection, the vehicle is equipped with a «**PIAGGIO IMMOBILIZER** » electronic engine locking device that is activated automatically when the ignition switch is removed. Upon start-up, the «**PIAGGIO IMMOBILIZER**» system checks the starter key, and only if this key is recognised will the Immobiliser system allow the vehicle to be started.



01_20

Keys (01_20)

Two types of keys come with the vehicle:

Key «**A**» is the «**MASTER**» key. Only a single copy of this key is supplied, which is necessary to program all your other keys and for your dealer to perform some maintenance operations. We therefore recommend that it be used only under exceptional circumstances.

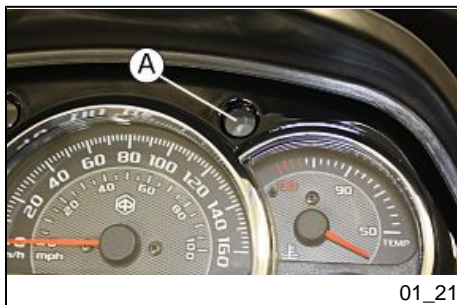
The ignition key «**B**» (single copy supplied) is used for normal operations for the starter.

WARNING

LOSING THE MASTER KEY PREVENTS ANY FURTHER REPAIR OF THE "PIAGGIO IMMOBILISER" SYSTEM AND OF THE ENGINE CONTROL UNIT.

WARNING

KEEP THE MASTER KEY IN A SAFE PLACE (NOT IN THE VEHICLE).



01_21

Immobilizer device enabled indicator led (01_21)

Activation of the "**PIAGGIO IMMOBILIZER**" system is signalled by a flashing «**A**» indicator. In order to reduce battery discharge, the indicator LED turns off automatically after 48 hours of uninterrupted functioning. Should the system fail, different LED flashing patterns will provide the **Authorised Service Centre** with information on the type of fault detected.

Operation

Each time the ignition key «**B**» is removed while in the «**OFF**» or «**LOCK**» positions, the protection system activates the engine lock. Turning the ignition key «**B**» to «**ON**» disables the engine lock, provided that the safety system recognises the code transmitted by the key. If the code is not recognised, turn the ignition key «**B**» first to «**OFF**» and then back to «**ON**» again; if lock persists, try again using the «**A**» MASTER key. If the engine cannot be started, contact an **Authorised Service Centre**, which is provided with the electronic equipment required to detect and repair the system.

When the supplementary starter keys are required, remember that the all the keys, whether new or existing, should be programmed.

Contact an **Authorised Service Centre** and bring the «**A**» MASTER key and all «**B**» starter keys that you own.

The codes of starter keys not submitted for the new programming procedure are deleted from the memory. Any lost starter keys will therefore not be enabled to start the engine.

WARNING



EACH KEY HAS ITS OWN AND UNIQUE CODE, WHICH MUST BE STORED IN THE SYSTEM CONTROL UNIT MEMORY.

VIOLENT SHOCKS MAY AFFECT THE ELECTRONIC COMPONENTS OF THE KEY.

SHOULD THE VEHICLE CHANGE OWNER, IT IS ABSOLUTELY NECESSARY THAT THE NEW OWNER GET POSSESSION OF THE KEY WITH THE MASTER GRIP (AS WELL AS ALL OTHER IGNITION KEYS).

Programming the immobilizer system (01_22)

Below is described the procedure to follow for programming the **PIAGGIO IMMOBILIZER** system and/or for storing other key codes. The programming procedure should be carried out with the engine stop switch set to «**RUN**».

START PROCEDURE

Insert the «MASTER» key «**A**» into the ignition switch (in «**OFF**») and turn it to «**ON**». After 1 - 3 seconds, turn the key to «**OFF** » again and pull it out.

INTERMEDIATE STAGE

After extracting the «MASTER» key «A», insert, within ten seconds, the key that is going to be programmed «B» and turn it immediately to «ON». After 1-3 seconds, turn the key to «OFF» again and pull it out. In this way, a maximum of 7 keys can be programmed by repeating the above procedure and keeping the indicated times.

FINAL STAGE

After extracting the key to be programmed «B», insert the «MASTER» key «A» again and turn it to «ON» (perform this operation within the 10 seconds following the extraction of the previous key). Leave it in this position for 1 to 3 seconds and return it to «OFF».



CORRECT PROGRAMMING CHECK PHASE

Insert the «MASTER» key «A» disabling the transponder «C» (i.e., by tilting the key cap by 90°), and turn the key to «ON». Perform the engine starter operation. Ensure that the engine does not start. Insert the programmed key «B» and repeat the starter operation. Check that engine starts.

WARNING



SHOULD YOU START THE ENGINE WITH THE MASTER KEY (WITH TRANSPONDER OFF) OR IN THE EVENT OF WRONG OPERATION DURING PROGRAMMING, REPEAT THE PROCEDURE FROM THE BEGINNING.



01_23

Accessing the fuel tank (01_23, 01_24)

To open the fuel tank cover, set the key to «OFF» or «ON», then press and turn it clockwise.



01_24

Opening the saddle (01_25)

To open the seat to the positions with the ignition switch in OFF and ON, press the key and rotate counter clockwise.



01_25

Identification (01_26, 01_27)

Identification registration numbers are made up of a prefix and a number, stamped on the chassis and on the engine. These numbers must always be quoted when ordering spare parts. We recommend checking that the chassis registration number stamped on the vehicle corresponds with that on the vehicle documentation.

CAUTION

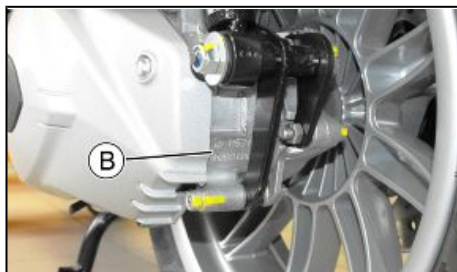


BE REMINDED THAT ALTERING IDENTIFICATION REGISTRATION NUMBERS CAN LEAD TO SERIOUS PENAL SANCTIONS (IMPOUNDING OF THE VEHICLE, ETC.).



Chassis number

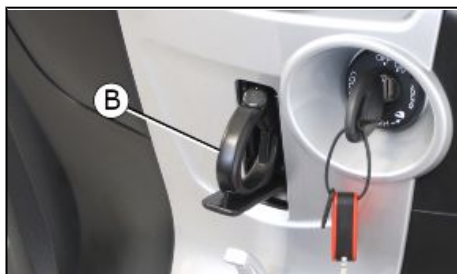
To read the chassis number, open the lid to access the fuel tank and lift the rubber recycling tank.



01_27

Engine number

The engine number «**B**» is stamped near the rear left shock absorber lower support.



01_28

Bag clip (01_28)

To use the retractable bag hook «**B**» mounted on the leg shield back plate, pull it slightly towards the back of the vehicle.

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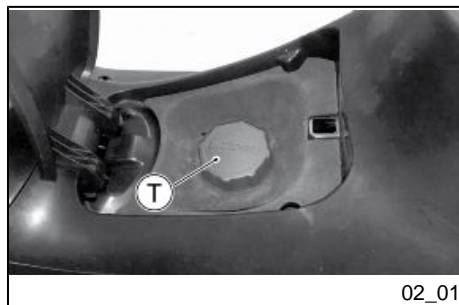


Chap. 02
Use

Checks

Before using the vehicle, check:

1. That there is enough fuel in the fuel tank.
2. That the fluid level for front and rear brakes is correct.
3. That tyres are properly inflated.
4. The correct functioning of daylight running lights, headlamp, turn indicators, stop light and license plate light.
5. The correct functioning of front and rear brakes.
6. The oil level in the gearcase.
7. Engine oil level.
8. The coolant level.



Refuelling (02_01, 02_02)

Fuel: Open the access door to the fuel tank cap and remove the cap «T».

Recommended fuel: Unleaded petrol, min octane rating of 95. The instrument «G» indicates fuel level and the warning light «L» signals the reserve.

WARNING



SWITCH OFF THE ENGINE BEFORE REFUELLING WITH PETROL.

PETROL IS HIGHLY INFLAMMABLE.

DO NOT SMOKE AND KEEP NAKED FLAMES AT A DISTANCE: FIRE HAZARD.

DO NOT INHALE FUEL FUMES.



02_02

DO NOT ALLOW PETROL TO COME INTO CONTACT WITH HOT ENGINE OR ANY PLASTIC PARTS.

CAUTION



PETROL DAMAGES THE PLASTIC PARTS OF THE BODYWORK.

WARNING



DO NOT RIDE WITH THE FUEL TANK ALMOST EMPTY, LACK OF FUEL CAN DAMAGE THE CATALYTIC CONVERTER.

CAUTION



USING NON-RECOMMENDED PETROL REDUCES THE EFFICIENCY OF THE EXHAUST AND FUEL SUPPLY SYSTEMS.

CAUTION



DO NOT USE THE VEHICLE TO THE COMPLETE EXHAUSTION OF THE FUEL; SHOULD THIS OCCUR, DO NOT ATTEMPT TO START THE ENGINE. TURN THE IGNITION SWITCH TO «OFF» AND TOP-UP THE TANK AS SOON AS POSSIBLE. FAILURE TO FOLLOW THESE GUIDELINES COULD DAMAGE THE FUEL PUMP AND/OR THE CATALYTIC CONVERTER.

WARNING

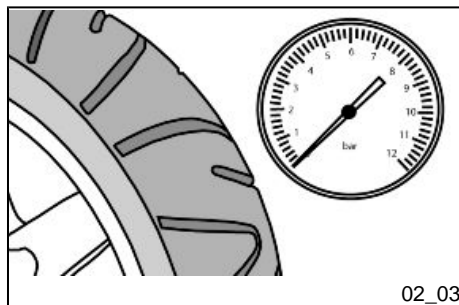
IT IS HIGHLY INADVISABLE TO REFUEL USING METHODS OTHER THAN NORMAL FUEL PUMPS. IF PETROL IS NOT COMPLETELY CLEAN, IT CAN DAMAGE THE FUEL SUPPLY SYSTEM FILTERS.

CAUTION

USING OILS OTHER THAN THOSE RECOMMENDED CAN SHORTEN THE LIFE OF THE ENGINE.

Characteristic**Fuel tank (reserve)**

11.0 (2l)

**Tyre pressure (02_03)**

Check tyre pressure and wear periodically (roughly every 500 km). Tyres feature wear indicators; replace tyres as soon as these indicators become visible on the tyre tread. Also check that the tyres do not show signs of splitting at the sides or irregular tread wear; if this occurs go to an authorised workshop or at least to a workshop equipped to replace tyres.

CAUTION

TYRE PRESSURE SHOULD BE CHECKED WHEN TYRES ARE COLD. INCORRECT TYRE PRESSURE CAUSES ABNORMAL TYRE WEAR AND MAKES RIDING DANGEROUS.

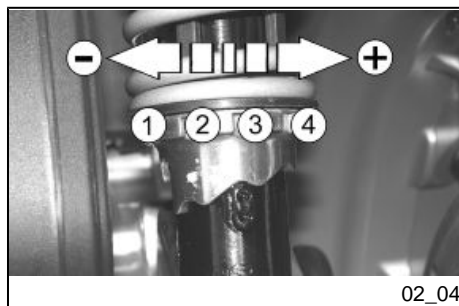
TYRES MUST BE REPLACED WHEN THE TREAD REACHES THE WEAR LIMITS SET FORTH BY LAW.

TYRE INFLATION PRESSURE

Front tyre pressure	1.7 bar
Rear tyre pressure	2.2 bar (2.6 bar with passenger)

TYRES

Front tyre	Without inner tube 110/70-13" 48P
Rear tyre	Without inner tube: 140/60-14" 64P



Shock absorbers adjustment (02_04)

The preloading of the springs can be adjusted to 4 positions acting on the ring nut located in the lower part of the shock absorbers with the specific spanner supplied.

Position 1: minimum preload: rider only

Position 2 medium preloading: rider only

Position 3 medium preloading: rider and passenger

Position 4: maximum preloading: rider, passenger, and luggage.

In order to carry out this operation you will need to use the specific spanner in the kit.

CAUTION



RIDING THE VEHICLE WITH THE SPRING PRELOADING NOT CORRECTLY SET FOR THE RIDER AND POSSIBLE PASSENGER, COULD REDUCE THE COMFORT OF THE RIDE AND THE PRECISION OF THE STEERING.

WARNING

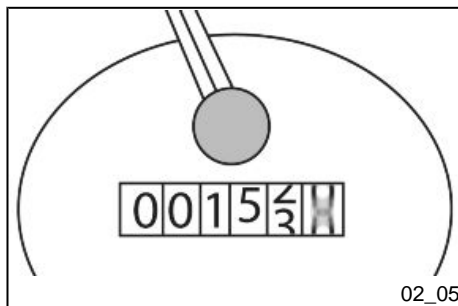


WE RECOMMEND WEARING GLOVES WHILE CARRYING OUT THIS OPERATION IN ORDER TO AVOID INJURIES.

WARNING



IT IS ABSOLUTELY FORBIDDEN TO ADJUST THE PRELOAD DIFFERENTLY ON THE TWO SHOCK ABSORBERS



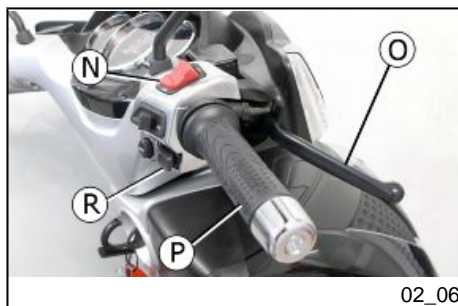
Running in (02_05)

DURING THE FIRST 1000 KM DO NOT RIDE THE VEHICLE OVER 80% OF ITS MAX. SPEED. AVOID OPENING THE THROTTLE GRIP COMPLETELY OR KEEPING A CONSTANT SPEED ALONG LONG SECTIONS OF ROAD. AFTER THE FIRST 1000 KM INCREASE SPEED PROGRESSIVELY, IF POSSIBLE, UNTIL THE MAXIMUM PERFORMANCE IS OBTAINED.

CAUTION



IN ORDER TO AVOID DAMAGING THE VEHICLE, PLEASE COMPLY WITH THE RULES LISTED ABOVE.



Starting up the engine (02_06, 02_07, 02_08)

The vehicle is supplied with an ignition cut-off system, activated by the emergency cut-off switch. The engine cannot be started if the ignition cut-off switch is in the **OFF** position.

A running engine automatically shuts off when the emergency stop switch is set to **OFF**.

The vehicle is equipped with automatic transmission with direct drive, so that starting is carried out by turning the throttle grip to idle speed; After starting, to start-off from a stationary position, progressively twist the throttle grip. The vehicle has a front suspension locking system. A sensor placed under the saddle will prevent the vehicle motion, but not the ignition, if the rider is not seated in a riding position.

In order to start the vehicle:

1. Rest the vehicle on its centre stand, ensuring the rear wheel is not touching the ground.
2. Maintain the throttle grip "P" completely untwisted.
3. Insert the key into the ignition switch «A» and turn it to «ON».



02_07

4. Make sure that switch «N» is in the «ON» position.

5. Either pull the front brake lever «O» or the rear brake lever «G» and then press the starter button «R».

WARNING



THE AUTOMATIC TRANSMISSION MAKES THE REAR WHEEL TURN EVEN WHEN THE THROTTLE GRIP IS SLIGHTLY TWISTED. RELEASE THE BRAKE CAREFULLY AFTER STARTING, AND THEN ACCELERATE GRADUALLY.

CAUTION



DO NOT START-UP THE ENGINE IN CLOSED AREAS BECAUSE EXHAUST GASES ARE TOXIC.

CAUTION



DUE TO THE HIGH TEMPERATURES THE CATALYTIC CONVERTER CAN REACH, ALWAYS TAKE CARE, WHEN PARKING THE VEHICLE, THAT THE EXHAUST DOES NOT COME INTO CONTACT WITH FLAMMABLE MATERIALS, TO AVOID SERIOUS BURNS.

CAUTION



DO NOT SHUT OFF THE ENGINE WHILE THE VEHICLE IS MOVING. UNBURNED FUEL COULD ENTER THE CATALYTIC CONVERTER AND BURN, CAUSING THE CONVERTER TO OVERHEAT AND POSSIBLY DESTROYING IT.



02_08

CAUTION

DO NOT PUSH THE STARTER BUTTON OR TURN THE IGNITION SWITCH TO «ON» WHEN THE TANK IS EMPTY BECAUSE IT COULD DAMAGE THE START-UP SYSTEM.

WARNING

NEVER TRY TO START-UP THE ENGINE WITH THE THROTTLE GRIP TWISTED. THIS MAY LEAD TO LOSING CONTROL OF THE VEHICLE AND TO ROLLOVER, WITH CONSEQUENT SERIOUS OR, IN SOME CASES, LETHAL INJURIES.

Precautions**CAUTION**

NEVER STRESS THE ENGINE AT LOW TEMPERATURES IN ORDER TO AVOID POSSIBLE DAMAGE. BE CAREFUL NEVER TO EXCEED THE MAXIMUM SPEED WHILE RUNNING DOWNHILL, IN ORDER TO AVOID DAMAGING THE ENGINE. IN ANY CASE, IN ORDER TO PRESERVE THE ENGINE FROM PROLONGED OVERREVING, THE REVOLUTION LIMITER WILL BE ACTIVATED IF THE ENGINE SPEED EXCEEDS THE ESTABLISHED THRESHOLD.

WARNING

AFTER A LONG DISTANCE COVERED AT THE MAXIMUM SPEED, DO NOT STOP THE ENGINE IMMEDIATELY, BUT LET IT RUN AT IDLE FOR A FEW SECONDS.



02_09

Stopping the engine (02_09)

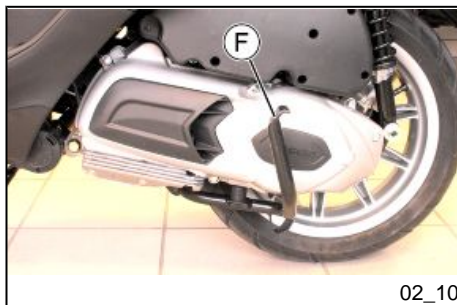
Fully untwist the throttle grip, then rotate the key in the switch «A » to «KEY OFF» (extractable key).

CAUTION

DUE TO THE HIGH TEMPERATURES THE CATALYTIC CONVERTER CAN REACH, ALWAYS TAKE CARE, WHEN PARKING THE VEHICLE, THAT THE EXHAUST DOES NOT COME INTO CONTACT WITH FLAMMABLE MATERIALS, TO AVOID SERIOUS BURNS.

CAUTION

DO NOT SHUT OFF THE ENGINE WHILE THE VEHICLE IS MOVING. UNBURNED FUEL COULD ENTER THE CATALYTIC CONVERTER AND BURN, CAUSING THE CONVERTER TO OVERHEAT AND POSSIBLY DESTROYING IT.



02_10

Stand (02_10)

Push with your foot on the centre stand's fork "F" while lifting the vehicle backward, holding onto the handlebar.

Automatic transmission

To ensure simple, pleasurable riding, the vehicle is equipped with automatic transmission with regulator and centrifugal clutch. The system is designed to provide the best performance (acceleration and consumption) while driving on both flat roads and uphill.

If you have to stop up a hill (traffic lights, traffic jam, etc.) **use only the brake to keep the vehicle still, leaving the engine running at idle speed. Using the engine to keep the vehicle still can cause the clutch to overheat, due to the friction of the clutch masses against the capstan. Do not accelerate with the hand brake engaged.** It is always advisable to avoid prolonged clutch slippage conditions (besides those previously indicated) like driving up a steep hill fully loaded or starting off with rider and passenger on a slope with a gradient greater than 25%.

Take the following precautions if the clutch overheats:

1. Do not continue riding in such conditions.
2. Let the clutch cool down with the engine at idle speed for a few minutes.

Safe driving

Some simple tips are provided below that will enable you to use your vehicle on a daily basis in greater safety and peace of mind. Your skill and your mechanical knowledge are the basis of safe riding. We recommend trying out the vehicle in traffic-free zones to familiarise with it.

1. Before riding off, remember to put on your helmet and fasten it correctly.
2. Reduce speed on rough roads and ride with care.
3. After riding on a long stretch of wet road without using the brakes, braking can be poor at the beginning. Under these conditions, it is a good idea to operate the brakes from time to time.
4. Avoid setting off by mounting the vehicle while it is resting on the support. In any case, the rear wheel should not be turning when it comes into contact with the ground, in order to avoid abrupt departures.
5. When riding the vehicle on roads with sand, mud, snow mixed with salt, etc., we recommend that you clean the brake disc frequently with a non-aggressive detergent in order to avoid the formation of abrasive build-ups in the holes, which could result in early wear of brake pads.

CAUTION



ALWAYS RIDE WITHIN YOUR LIMITS RIDING UNDER THE INFLUENCE OF ALCOHOL OR OTHER DRUGS AND CERTAIN MEDICINES IS EXTREMELY DANGEROUS.

CAUTION



IN ORDER TO PREVENT ANY ACCIDENTS RIDE VERY CAREFULLY AFTER ADDING ACCESSORIES AND WHILE CARRYING LUGGAGE. ADDING ACCESSORIES AND LUGGAGE CAN REDUCE THE VEHICLE'S STABILITY, PERFORMANCE AND SAFETY DURING USE.

WARNING

NEVER RIDE THE SCOOTER EQUIPPED WITH ACCESSORIES (TOP BOX AND/OR WINDSHIELD) AT A SPEED HIGHER THAN 100 km/h.

THE SCOOTER CAN BE RIDDEN AT A HIGHER SPEED WITHOUT THE ACCESSORIES MENTIONED BEFORE WITHIN THE LIMITS ESTABLISHED BY LAW.

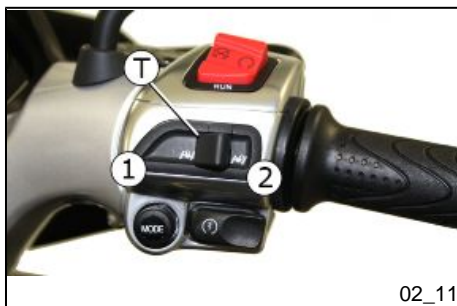
IF THERE ARE ANY NON-PIAGGIO ACCESSORIES INSTALLED, OR AN ABNORMAL LOAD, OR IF THE SCOOTER IS NOT IN A GENERALLY GOOD CONDITION, OR WHENEVER WEATHER CONDITIONS DEMAND IT, SPEED SHOULD BE FURTHER REDUCED.

CAUTION

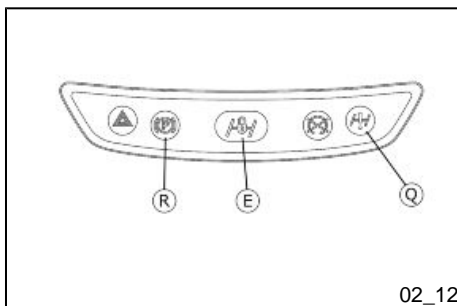
DO NOT ADJUST THE MIRRORS WHILE RIDING. THIS COULD CAUSE YOU TO LOOSE CONTROL OF THE VEHICLE.

CAUTION

ANY ELABORATION THAT MODIFIES THE VEHICLE'S PERFORMANCES, SUCH AS TAMPERING WITH ORIGINAL STRUCTURAL PARTS IS STRICTLY FORBIDDEN BY LAW, AND RENDERS THE VEHICLE NO LONGER CONFORMING TO THE APPROVED TYPE AND DANGEROUS FOR RIDING.



02_11



02_12

Front suspension locking system (02_11, 02_12, 02_13, 02_14, 02_15, 02_16, 02_17)

The front suspension locking system simply prevents, where available, vehicle tilting when the «T» switch is pressed. With this device, the vehicle can be stopped without your feet touching the ground.

The warning light «E» starts flashing when the ignition switch is set to «ON». This means that the system is enabled for locking activation.

When the «T» switch is turned to «1» a continuous sound alarm signals that the locking system is engaged and, at the same time, the warning light «E» turns on steadily.

When the «T» switch is turned to «2» an intermittent sound alarm signals that the locking system is disengaged and, at the same time, the warning light «E» starts flashing again. Warning light «E» turns off when riding starts. This means that the system allows for vehicle tilting.

(**N.B.:** if the rider is not seated on the saddle, to carry out the system unlocking press the switch «T» twice).

Engaging roll lock is possible only if the following conditions occur at the same time:

- Throttle completely untwisted.
- Engine rpm below 2,500 rpm
- Vehicle speed below 10 km/h.
- Locking system WARNING light «Q» off (the system has not detected failures)

If one of these conditions is not checked, the warning light «E» remains off and locking cannot be engaged (in normal riding conditions, the warning light «E» is off).

With engine on, system locked and warning light «E» on, the suspension locking system is disengaged automatically and the warning light «E» turns off when the throttle is twisted to start the ride.

For riders' safety, the vehicle has a **rider detection sensor** in the saddle which enables the system to prevent vehicle motion and suspension unlocking (in case of locked

suspension) when the rider is not properly seated in riding position: in such case, the WARNING light «Q» turns on steadily

CAUTION



THE RIDER DETECTION SENSOR IS LOCATED IN THE FRONT PART OF THE SADDLE. AVOID PLACING BAGS OR HEAVY OBJECTS ACCIDENTALLY ON THE SADDLE.

NOT OBSERVING THIS RULE MAY MOVE THE VEHICLE FORWARD AND RELEASE THE SUSPENSION LOCKING SYSTEM EVEN IF THE RIDER IS NOT SEATED, BY SIMPLY TWISTING THE THROTTLE GRIP. THE VEHICLE COULD FALL ACCIDENTALLY AS A CONSEQUENCE.

WARNING



EVERY TIME THE VEHICLE IS STOPPED, MAKE SURE THE FRONT SUSPENSION LOCKING SYSTEM IS ENGAGED. OTHERWISE, PLACE YOUR FEET ON THE GROUND TO KEEP THE VEHICLE UPRIGHT.

WARNING



AVOID USING THE LOCKING SYSTEM WHEN RIDING THE VEHICLE ALONG IRREGULAR ROADS OR ROADS WITH OBSTACLES (E.G. ROAD HUMPS, SIDEWALK, ETC.).

IN CASE OF ENGINE FAILURE (DISCHARGED BATTERY) AVOID PULLING THE VEHICLE WITH THE LOCKING SYSTEM ENGAGED.

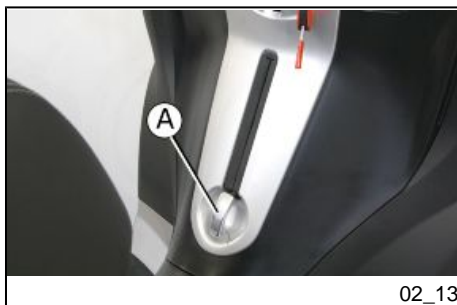
WITH THE LOCKING SYSTEM ENGAGED AND THE ENGINE OFF, AVOID MOVING THE VEHICLE AT SPEEDS ABOVE 5 Km/h.

WARNING

IF THE RIDER IS NOT SEATED ON THE SADDLE WHILE THE VEHICLE IS IN MOTION AND THE LOCKING SYSTEM IS ENGAGED, AVOID OPERATING THE THROTTLE CONTROL PURPOSELESSLY AS THIS MAY DAMAGE THE CATALYTIC CONVERTER.

CAUTION

DO NOT RIDE DOWNHILL WITH THE SUSPENSION LOCKING SYSTEM ENGAGED AND THE IGNITION SWITCH SET TO OFF.



02_13

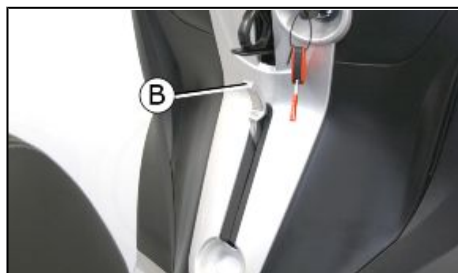
With the vehicle off and the suspension locking system engaged, it is possible to get off the vehicle without using the stand. For safety reasons, it is recommended to press the hand brake lever shown in the figure, moving it from position «**A**» to position «**B**».

When the hand brake «**B**» is engaged, warning light «**R**» on the instrument panel turns on.

When the hand brake is set to «**B**» and the ignition switch is turned to position «**1**», the safety system that prevents the hand brake from getting released is activated. To release the hand brake, turn the ignition switch to «**2**» or «**3**». If the switch is set to «**1**», the hand brake can also be engaged.

WARNING

IT IS PREFERABLE TO USE THE STAND IF THE VEHICLE STOPS ON A STEEP SLOPE.

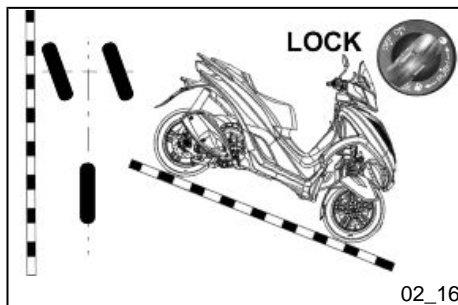


02_14

ALWAYS OBSERVE THE CUSTOMARY SAFETY PRECAUTIONS FOR CASES WHEN THE VEHICLE STOPS ON A STEEP SLOPE. TURN THE WHEELS SO THAT THE POTENTIAL MOVEMENT CAUSED BY THE SLOPE TAKES THAT WHEEL AGAINST THE SIDEWALK. WITH THE STEERING LOCK ENGAGED, MANOEUVRE SO THAT THE SIDEWALK IS TO THE RIGHT WHEN YOUR VEHICLE IS PARKED UPHILL AND TO THE LEFT WHEN PARKED DOWNHILL.



02_15



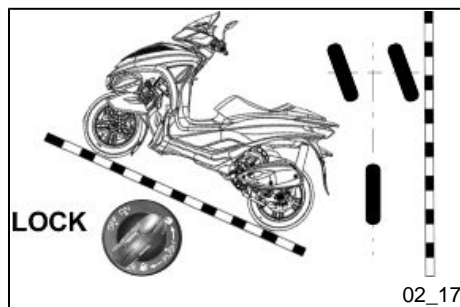
02_16

If the WARNING light «Q» turns on (flashes), it means that there is a failure in the front suspension locking system. Therefore, it is necessary to contact an **Authorised Service Centre**. If the front suspension is locked, it can be unlocked by operating the «T» switch twice quickly on the unlocking position «2». Once the suspension is unlocked, the vehicle can be normally used, except for the locking system which will be disengaged.

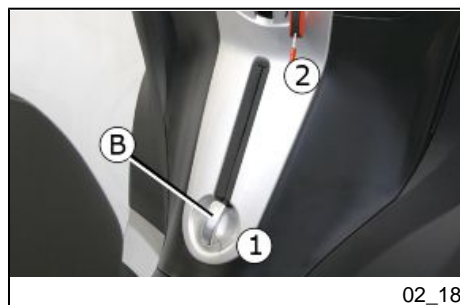
For some cases of failure, the vehicle speed is auto-limited to 30 Km/h. This automatic procedure is activated to enhance safety until the failure is eliminated.

Always contact an **Authorised Service Centre**.

If the continuous sound alarm is activated when the WARNING light «Q» turns on (steadily), try to unlock the system by operating the «T» switch twice quickly on the



unlocking position «2». If it cannot be unlocked, contact an **Authorised Service Centre**.



Parking brake (02_18)

To engage the parking brake «B», move the lever from position «1» to position «2». The vehicles not equipped with the front suspension locking system, are equipped with a side stand in addition to the centre stand.

CAUTION



The opening of the side stand inhibits the ignition of the engine or turns it off if in motion.

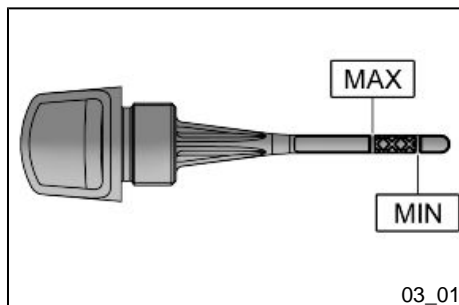
LUM MP3 300 YOURBAN RL-NRL (2011)



Chap. 03
Maintenance

Engine oil level

Four stroke engine oil is used in the engines in order to lubricate the timing bodies, the bench bearings and the thermal group. **An insufficient quantity of oil can seriously damage the engine.** In all four-stroke engines, a loss of efficiency in oil performance and certain consumption should be considered normal. Consumption can particularly reflect the conditions of use (i.e. when driving at 'full acceleration' all the time, oil consumption increases). The replacement intervals provided for by the maintenance programme are defined depending on the total content of oil in the engine and the average consumption measured following standardised methods. **In order to prevent any problems, we recommend checking oil level more frequently than indicated in the Scheduled Maintenance table or before setting off on long journeys. The vehicle is, however, equipped with an oil pressure warning light on the instrument panel.**



Engine oil level check (03_01, 03_02)

Every time the vehicle is used, visually inspect the level of the engine oil when the engine is cold (after **completely unscrewing** the oil cap/dipstick). The oil level should be somewhere between the MAX and MIN index marks on the level rod; «A»; while the oil is being checked, the vehicle must be resting on its centre stand on an even, horizontal surface.

If the check is carried out after the vehicle has been used, and therefore with a hot engine, the level line will be lower; in order to carry out a correct check, wait at least 10 minutes after the engine has been stopped so as to get the correct level.



03_02

Engine oil top-up

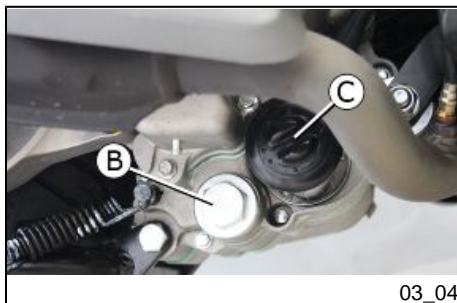
Always check the oil level before topping up, and add oil **without exceeding the MAX** level. Getting an oil level between the **MIN** and **MAX** levels requires ~ 400 cm³ of oil. Take your vehicle to an **Authorised Service Centre** to have the oil checked and if necessary, topped-up as indicated in the scheduled maintenance table.



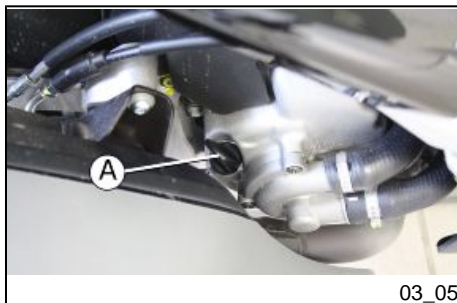
03_03

Warning light (insufficient oil pressure) (03_03)

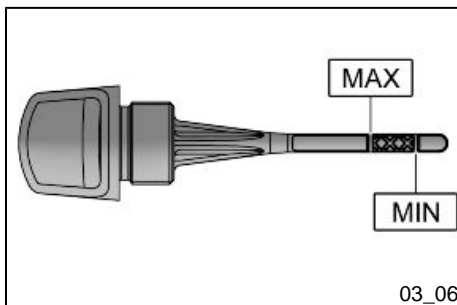
The vehicle is equipped with a warning light that comes on when the key is turned to «ON». However, this light should come off once the engine has been started. **If the light comes on while braking, at idle speed or while turning a corner, it is necessary to check the oil level and top it up if required. If after having topped-up the oil, the warning light still comes on while braking, at idle speed or while turning a corner, it will be necessary to take your vehicle to an Authorised Service Centre.**



03_04



03_05



03_06

Engine oil change (03_04, 03_05, 03_06)

Have oil changed and the cartridge filter «C» replaced as indicated in the scheduled maintenance table at an **Authorised Service Centre**. The engine should be emptied by draining the oil through drainage plug «B» of the mesh filter on the flywheel side. In order to facilitate the oil drainage, loosen the cap/dipstick. Since a certain quantity of oil still remains in the circuit, add approx. $950 \div 1000 \text{ cm}^3$ of oil through the cap «A. Then start the engine, leave it running for a few minutes and shut it off: after 5 minutes, check the level and if necessary, top-up **without exceeding the MAX level**. The cartridge filter must be replaced at every oil change. For top-ups and changes, use new oil of the recommended type.

WARNING



RUNNING THE ENGINE WITH INSUFFICIENT LUBRICATION OR WITH INADEQUATE LUBRICANTS ACCELERATES THE WEAR AND TEAR OF THE MOVING PARTS AND CAN CAUSE IRREVERSIBLE DAMAGE.

WARNING



EXCESSIVE OIL LEVEL TOP-UPS CAN LEAD TO INCRUSTATIONS AND VEHICLE MALFUNCTIONING.

CAUTION



USED OILS CONTAIN SUBSTANCES HARMFUL TO THE ENVIRONMENT. FOR OIL REPLACEMENT, CONTACT AN AUTHORISED SERVICE CENTRE, WHICH IS EQUIPPED TO DISPOSE OF USED OILS IN AN ENVIRONMENTALLY FRIENDLY AND LEGAL WAY.

CAUTION

THE USE OF OIL OTHER THAN THAT RECOMMENDED CAN SHORTEN THE LIFE OF THE ENGINE.

Recommended products**AGIP CITY HI TEC 4T**

Engine oil

SAE 5W-40, API SL, ACEA A3, JASO MA Synthetic oil

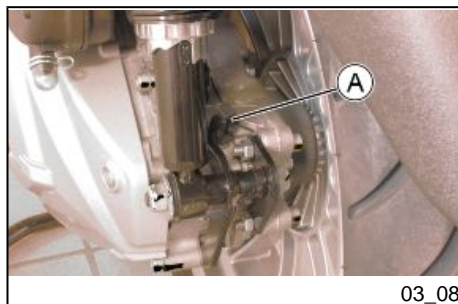
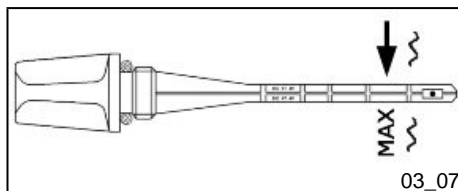
Hub oil level (03_07, 03_08)

Check that there is oil in the rear hub. (oil content ~ 250 cc). To check the rear hub oil level, proceed as follows:

- 1) Rest the vehicle onto its centre stand, on level ground.
- 2) Unscrew the dipstick «A», dry it with a clean cloth and then reinsert it **screwing it fully into place**.
- 3) Pull out the dipstick to control that the oil level reaches the second notch from the bottom, as indicated by the arrow in figure, this is the correct level and must remain constant at all times.
- 4) Screw the dipstick back in, checking that it is correctly locked in place.

N.B.

THE NOTCHES ON THE HUB OIL LEVEL DIPSTICK, EXCEPT THE ONE INDICATING THE MAX LEVEL, REFER TO OTHER MODELS BY THE MANUFACTURER AND HAVE NO SPECIFIC FUNCTION FOR THIS MODEL.



CAUTION

RIDING THE VEHICLE WITH INSUFFICIENT HUB LUBRICATION OR WITH CONTAMINATED OR IMPROPER LUBRICANTS ACCELERATES THE WEAR AND TEAR OF THE MOVING PARTS AND CAN CAUSE SERIOUS DAMAGE.

CAUTION

USED OIL CAN HARM THE ENVIRONMENT. COLLECTION AND DISPOSAL SHOULD BE CARRIED OUT IN COMPLIANCE WITH REGULATIONS IN FORCE.

CAUTION

AN EXCESSIVE QUANTITY OF OIL CAN LEAD TO SPILL OVER, WHICH MAY CAUSE THE ENGINE AND THE WHEEL TO GET DIRTY.

CAUTION

WHEN REPLACING THE HUB OIL DO NOT LET THE OIL COME INTO CONTACT WITH THE REAR BRAKE DISC.

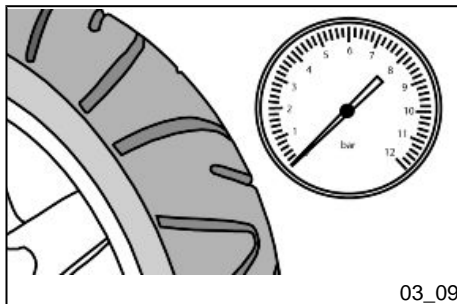
CAUTION

FOR OIL REPLACEMENT, CONTACT ANY AUTHORISED SERVICE CENTRE AS THEY ARE EQUIPPED TO DISPOSE OF USED OILS IN AN ENVIRONMENTALLY FRIENDLY AND LEGAL WAY.

Characteristic

Rear hub oil

250 cc



Tyres (03_09)

Check tyre pressure and wear periodically (roughly every 500 km). Tyres feature wear indicators; replace tyres as soon as these indicators become visible on the tyre tread. Also check that the tyres do not show signs of splitting at the sides or irregular tread wear; if this occurs go to an authorised workshop or at least to a workshop equipped to replace tyres.

CAUTION



TYRE PRESSURE SHOULD BE CHECKED WHEN TYRES ARE COLD. INCORRECT TYRE PRESSURE CAUSES ABNORMAL TYRE WEAR AND MAKES RIDING DANGEROUS.

TYRES MUST BE REPLACED WHEN THE TREAD REACHES THE WEAR LIMITS SET FORTH BY LAW.

WARNING



THE WHEELS FITTED WITH TYRES SHOULD ALWAYS BE BALANCED. RIDING THE VEHICLE WITH VERY LOW TYRE PRESSURE OR WITH INCORRECTLY BALANCED TYRES CAN LEAD TO DANGEROUS STEERING VIBRATIONS.

TYRE INFLATION PRESSURE

Front tyre pressure	1.7 bar
Rear tyre pressure	2.2 bar (2.6 bar with passenger)

TYRES

Front tyre	Without inner tube 110/70-13" 48P
Rear tyre	Without inner tube: 140/60-14" 64P



Spark plug dismantlement (03_10, 03_11, 03_12, 03_13, 03_14, 03_15)

- Remove the screw "A"

- Remove the platform mat by removing the pressure pads.



- Remove the 2 screws "B"



- Remove the flap "C"





- Remove the spark plug cover and insert the box-spanner with the appropriate leverage for the removal.



- Remove the spark plug.
- When refitting, place the spark plug into the hole at the required angle and finger tighten it as far as it will go. Use the wrench only to tighten it.
- Cover the spark plug completely with its cap, making sure it is back in the retainer.

N.B.

USE OF SPARK PLUGS OTHER THAN THE INDICATED TYPE OR UNSHIELDED SPARK PLUG CAPS CAN LEAD TO FAULTS IN THE VEHICLE 'S ELECTRICAL SYSTEM.

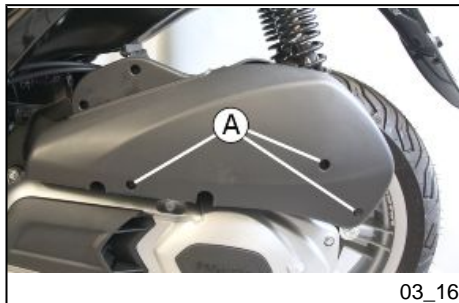
WARNING



SPARK PLUG MUST BE REMOVED WHEN THE ENGINE IS COLD. REPLACE THE SPARK PLUG AS INDICATED IN THE SCHEDULED MAINTENANCE TABLE. THE USE OF ELECTRONIC CENTRAL UNITS AND OF NON-COMPLIANT ELECTRONIC IGNITIONS OR SPARK PLUGS OTHER THAN THOSE PRESCRIBED MAY SERIOUSLY DAMAGE THE ENGINE.

RECOMMENDED SPARK PLUG

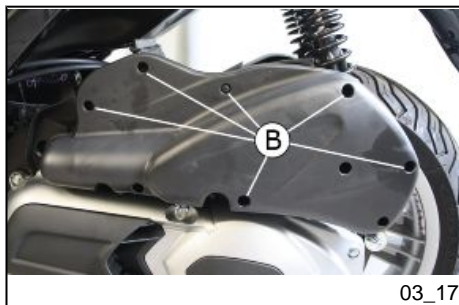
Spark plug	NGK CR7EKB o NGK CR8EKB o NGK CR8EB
Electrode gap	0.7 to 0.8 mm

**Removing the air filter (03_16, 03_17)**

Proceed as follows:

Loosen the 3 screws "A" and remove the filter housing cover.

Loosen the 6 remaining screws "B" and remove the air filter cover.



Air filter cleaning

1. Wash the sponge with water and neutral soap.
2. Dry it with a clean cloth and small blasts of compressed air.
3. Impregnate the sponge with a mixture of 50% petrol and 50% specified oil.
4. Gently squeeze the filter element, let it drip and then refit it.

CAUTION



IF THE VEHICLE IS USED ON DUSTY ROADS IT IS NECESSARY TO CARRY OUT MAINTENANCE CHECKS OF THE AIR FILTER MORE OFTEN TO AVOID DAMAGING THE ENGINE.

Recommended products

AGIP FILTER OIL

Oil for air filter sponge

Mineral oil with specific additives for increased adhesiveness



03_18

Cooling fluid level (03_18, 03_19, 03_20, 03_21, 03_22)

Engine cooling is carried out by a forced-circulation coolant system. The cooling circuit holds coolant consisting of a mixture of 50% de-ionised water and 50% glycol ethylene-based antifreeze solution with corrosion inhibitors. Recommended coolant: supplied with the vehicle, already mixed and ready for use. For proper engine functioning, the coolant temperature must be between the 4th and 7th lit segment, as indicated by the instrument «D» on the digital instrument panel. When the 9th segment lights up, the icon and all the segments start flashing; stop the engine, let it cool down and check the fluid level; if the level is OK, contact an **Authorised Service Centre**.

Check coolant when the engine is cold as indicated in the scheduled maintenance table.



03_19

1. Rest the vehicle upright on the stand and remove the screw of the expansion tank cap shown in the photograph.
2. Remove the expansion tank cover «A» by turning it anticlockwise.
3. Look inside the expansion tank and check that the reference tongue «C» is covered.
4. If the coolant level is near the minimum mark, top up when the engine is cold.

If it is necessary to top-up the coolant frequently, or if the expansion tank is completely dry, you should look for the cause in the cooling system. It is therefore essential to have the cooling system checked at an **Authorised Service Centre**. Replace coolant as indicated in the scheduled maintenance table. Take your vehicle to an **Authorised Service Centre** for this operation.

N.B.

SHOULD THE 9th SEGMENT OF THE COOLANT TEMPERATURE INDICATOR COME ON DURING A NON-DEMANDING RIDE, SHUT OFF THE ENGINE AND LET IT COOL DOWN. THEN CHECK THE COOLANT LEVEL; IF THE LEVEL IS OK, CONTACT AN AUTHORISED SERVICE CENTRE.

WARNING



TO AVOID THE RISK OF SCALDING, DO NOT UNSCREW THE EXPANSION TANK COVER WHILE THE ENGINE IS STILL HOT.

WARNING

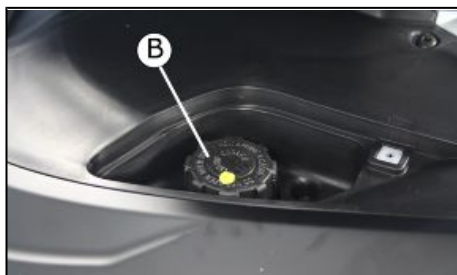


TO PREVENT AVOID HARMFUL FLUID LEAKAGE WHILE RIDING, ENSURE THAT THE LEVEL NEVER EXCEEDS THE MAXIMUM VALUE.

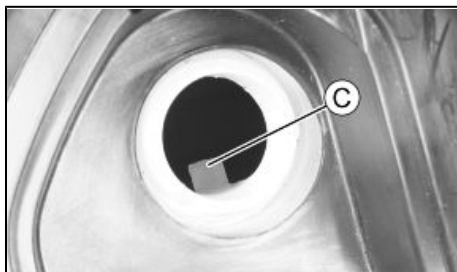
TO ENSURE CORRECT ENGINE OPERATION, KEEP THE RADIATOR GRILLE CLEAN.



03_20



03_21



03_22

Recommended products

AGIP PERMANENT SPECIAL

coolant

Monoethylene glycol-based antifreeze fluid, CUNA NC 956-16



03_23

Checking the brake oil level (03_23)

The front and rear brake fluid reservoirs are both positioned on the handlebar. Proceed as follows:

1. Place the vehicle on its centre stand and make sure the handlebar is centred;
2. Check the fluid through the specific sight glass «C».

A certain lowering of the level is caused by wear on the brake pads. Should the level appear to be below the minimum mark, please contact an **Authorised Service Centre or Dealer** in order to have the braking system thoroughly checked.



Braking system fluid top up (03_24)

Proceed as follows:

Loosen the two fixing screws «A» and remove the cap to perform the top-up to the recommended level exclusively with recommended fluids without exceeding the maximum level.

This procedure applies to the rear brake pump top-up operation; follow the same procedure for the front brake pump.

Under standard climatic conditions, replace fluid as indicated in the scheduled maintenance table.

This operation must be carried out by trained personnel; take your vehicle to an **authorised Service centre or Dealer**.

WARNING



ONLY USE DOT 4 CLASS BRAKE FLUIDS. BRAKING CIRCUIT FLUIDS ARE HIGHLY CORROSIVE. MAKE SURE THAT IT DOES NOT COME INTO CONTACT WITH THE PAINTWORK

CAUTION

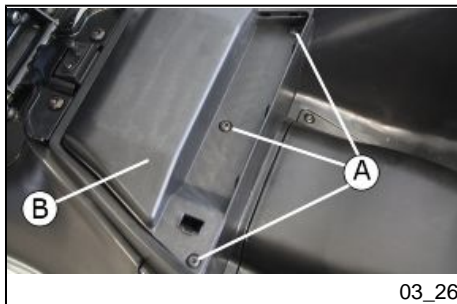


AVOID CONTACT OF BRAKE FLUID WITH EYES, SKIN, AND CLOTHING. IN CASE OF CONTACT, RINSE WITH WATER. THE BRAKING CIRCUIT FLUID IS HYGROSCOPIC, THAT IS, IT ABSORBS HUMIDITY FROM THE SURROUNDING AIR. IF THE HUMIDITY IN THE BRAKING FLUID EXCEEDS A CERTAIN VALUE, IT WILL LEAD TO INEFFICIENT BRAKING. NEVER USE BRAKING FLUID KEPT IN CONTAINERS THAT HAVE ALREADY BEEN OPENED, OR PARTIALLY USED.

Recommended products

AGIP BRAKE 4

Brake fluid
FMVSS DOT 4 Synthetic fluid



Battery (03_25, 03_26)

To access the battery, proceed as follows:

1. Place the scooter on its centre stand;
2. Open the saddle, following the previously described procedure;
3. Remove the tool kit cover
4. Remove the three fasteners "A" and the cover "B".

WARNING



IN ORDER TO AVOID DAMAGING THE ELECTRICAL SYSTEM, NEVER DISCONNECT THE WIRING WHILE THE ENGINE IS RUNNING.



03_27

Use of a new battery (03_27, 03_28)

Make sure that the terminals are connected correctly.

CAUTION



DO NOT REVERSE THE POLARITY: RISK OF SHORT CIRCUIT AND DAMAGE TO THE ELECTRICAL SYSTEM.

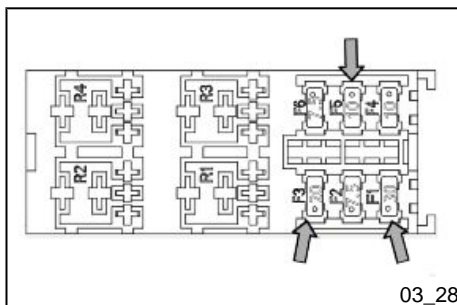
WARNING



USED BATTERIES ARE HARMFUL FOR THE ENVIRONMENT. COLLECTION AND DISPOSAL SHOULD BE CARRIED OUT IN COMPLIANCE WITH REGULATIONS IN FORCE.



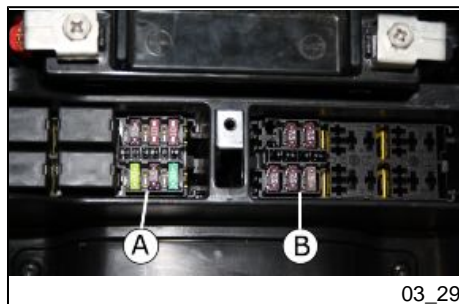
COMPLY WITH THE INSTALLATION OF BATTERY CABLES, OTHERWISE IN THE EVENT OF REVERSE POLARITY, THE FUSES 20A 30A AND 10A WILL NOT ONLY BE INTERRUPTED, BUT IT MIGHT ALSO DAMAGE THE ELECTRONIC IGNITION AND INJECTION DEVICE.



03_28

Long periods of inactivity

If the vehicle has not been used for long periods, it is necessary to periodically recharge the battery, bearing in mind that the battery tends to go completely flat within around three months. The battery must be recharged with a current load equal to 1/10 of the battery rated capacity (~ 1A), for a period not longer than 8 hours. For this operation contact an **Authorised Service Centre**. When refitting a removed battery, make sure that all terminals are properly connected.



03_29

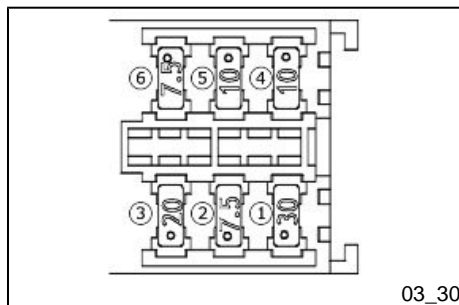
Fuses (03_29, 03_30, 03_31)

The electrical system is equipped with eleven fuses to protect the different circuits, subdivided into two fuse boxes «A» and «B», located inside the battery compartment. The chart shows the position and specifications of the fuses in the vehicle.

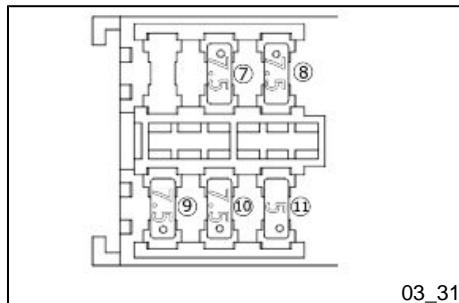
CAUTION



BEFORE REPLACING A BLOWN FUSE, FIND AND SOLVE THE FAILURE THAT CAUSED IT TO BLOW. NEVER TRY TO REPLACE THE FUSE WITH ANY OTHER MATERIAL (E.G., A PIECE OF ELECTRIC WIRE).



03_30



03_31

FUSES

Fuse no. 1	Threshold of operation: 30 A Location: battery compartment Protected circuits: recharge the battery and fuses 8,9,10,11
Fuse no. 2	Threshold of operation: 7.5A Location: battery compartment Protected circuits: direct battery-powered fuel system for electric fan
Fuse no. 3	Threshold of operation: 20A Location: battery compartment Protected circuits: direct battery-powered fuel system for parking control ECU
Fuse no. 4	Threshold of operation: 10 A Location: battery compartment Protected circuits: direct battery-powered fuel system for headlight and 12 fuses
Fuse No. 5	Threshold of operation: 10 A Location: battery compartment

	Protected circuits: direct battery-powered fuel system for injection control unit and injection loads
Fuse No. 6	Threshold of operation: 7.5 A Location: battery compartment Protected circuits: direct battery-powered fuel system for instrument panel
Fuse No. 8	Threshold of operation: 7.5 A Location: battery compartment Protected circuits: live power supply for parking control ECU, headlight solenoid, parking system pressure sensor, horn solenoid.
Fuse No. 9	Threshold of operation: 7.5 A Location: battery compartment Protected circuits: live power supply for horn and high-beam flash.
Fuse No. 10	Threshold of operation: 7.5 A Location: battery compartment Protected circuits: live power supply for stop lights and starter relay.
Fuse No. 11	Threshold of operation: 7.5 A Location: battery compartment

Protected circuits: live power supply to injection control unit, immobilizer antenna injection load solenoid.

Fuse No. 12	<p>Threshold of operation: 5A</p> <p>Location: battery compartment</p> <p>Protected circuits: live power supply for turn indicator control device, daylight running light, instrument panel, antitheft pre-installation, warning light unit.</p>
-------------	---

BULBS

High/low beam light bulb	<p>Type: Halogen (HS1)</p> <p>Power: 12V - 35/35W</p> <p>Quantity: 2</p>
Front side light bulb	<p>Type: LED</p> <p>Power: -</p> <p>Quantity: -</p>
Front turn indicator light bulb	<p>Type: Incandescent (BAU 15s)</p> <p>Power: 12V - 10W</p> <p>Quantity: 1 RHS + 1 LHS</p>

Helmet compartment light bulb	Type: Incandescent (SV 8.5) Power: 12V - 5W Quantity: 1
Stop light/rear daylight running light bulb	Type: LED Power: - Quantity: -
Rear turn indicator light bulb	Type: Incandescent (BAU 15s) Power: 12V - 10W Quantity: 1 RHS + 1 LHS
License plate bulb	Type: Incandescent (W2.1x9.5d) Power: 12V - 5W Quantity: 1
Instrument panel bulb	Type: LED Power: - Quantity: -



03_32

Front light group (03_32, 03_33, 03_34, 03_35, 03_36, 03_37, 03_38, 03_39)

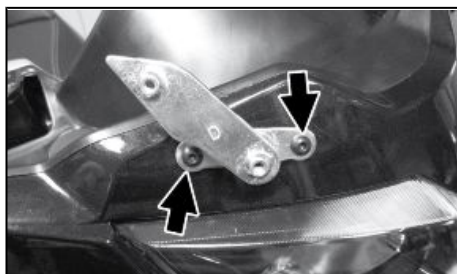
Remove the windshield top fairing retaining the 4 indicated screws (2 each side).

- Remove the rubber cover.

- Remove the top fairing supports retaining the indicated screws and paying attention to the requested spacers.



03_33



03_34



03_35



03_36

- Remove the 2 screws "A" right and left at the back of the handlebar.



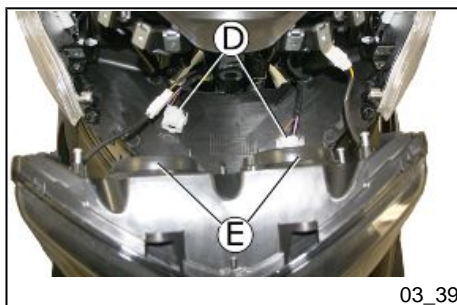
03_37

- Remove the head lamp surround "B"

WARNING!: the surround is fastened, where indicated in the figure, with the trigger slots. Pay attention, during the removal to not damage them or even break them.



- Remove the 4 fixing screws "C" of the front light unit.



- Remove the headlight. Remove the bulb connectors "D" and access the bulbs by removing the rubber cover "E".

WARNING



HIGH- AND LOW-BEAM BULBS ARE HALOGEN TYPE: DO NOT TOUCH THEM WITH YOUR FINGERS TO AVOID DAMAGING THEIR FUNCTION.

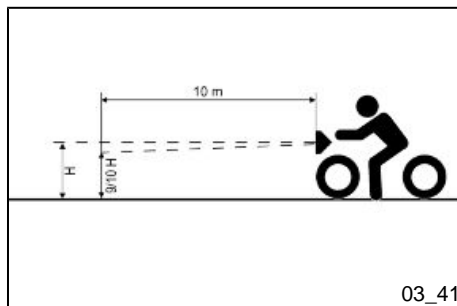
Headlight adjustment (03_40, 03_41)

Proceed as follows:

1. Position the unloaded vehicle, in running order and with the tyres inflated to the prescribed pressure, on a flat surface 10 m away from a half-lit white screen; ensure that the longitudinal axis of the vehicle is perpendicular to the screen;
2. Turn on the headlight and check that the borderline of the projected light beam is lower than 9/10 and higher than 7/10 of the distance from the ground to the centre of the vehicle headlight;
3. Otherwise, adjust the headlight with the screw «A» indicated in the figure

To carry out this operation, it is not necessary to remove any cover.





N.B.

THE ABOVE PROCEDURE COMPLIES WITH THE EUROPEAN STANDARDS REGARDING MAXIMUM AND MINIMUM HEIGHT OF LIGHT BEAMS. REFER TO THE STATUTORY REGULATIONS IN FORCE IN EVERY COUNTRY WHERE THE VEHICLE IS USED.

Front direction indicators (03_42, 03_43)

- Remove the top fairing and the headlamp surround.

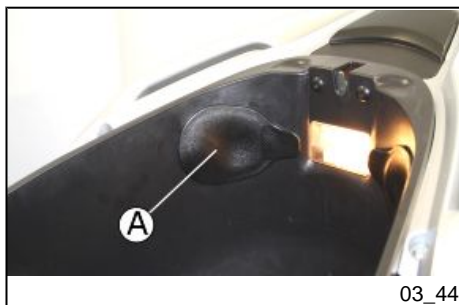
For the removal procedure, refer to the paragraph regarding the **Front Headlight Assembly**.



- Remove the two fixing screws "C" and detach the turn indicator.



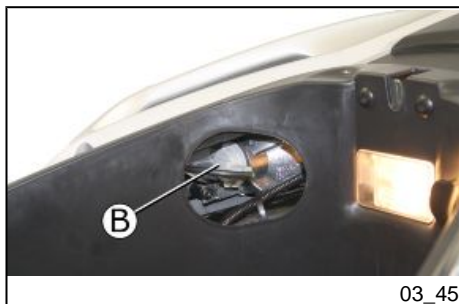
- Access the bulb by removing the bulb holder "D".



Rear turn indicators (03_44, 03_45)

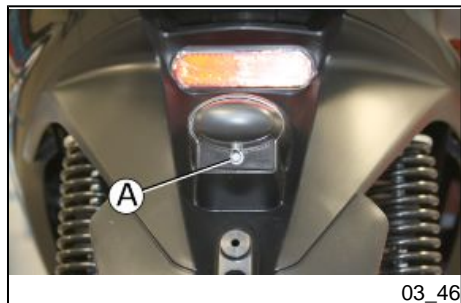
To access the rear turn indicator bulb proceed as follows:

- Lift the seat to access the helmet compartment
- Remove the rubber cover "A"



- Remove the bulb holder "B" to access the rear turn indicator bulb.

For the refit, re-insert the rubber cover «**A**», pay attention to the correct positioning so as to avoid water or dust entering the helmet compartment.



Number plate light (03_46, 03_47)

- Remove the screw "A" shown in the figure.
- Detach the license plate light and remove the bulb.





03_48

Helmet compartment lighting bulb (03_48)

Open the seat compartment and insert a small plain slot screwdriver in the lateral notch to detach the snap-on glass «A», then replace the bulb.



03_49

Rear-view mirrors (03_49)

The mirrors can be set to the desired position by adjusting the mirror frame.

Front and rear disc brake

The brake disc and pad wear is automatically compensated, therefore it has no effect on the functioning of the front and rear brakes. For this reason it is not necessary to adjust the brakes. An excessively elastic brake lever stroke may indicate the presence of air in the braking circuit or a failure in the braking system. In this case, mainly due to the importance of brakes to guarantee safe riding conditions, the vehicle should be taken to an **Authorised Service Centre or Dealer**.

CAUTION

BRAKING SHOULD BEGIN AFTER ABOUT 1/3 OF THE BRAKE LEVER STROKE.

CAUTION

HAVE THE BRAKE PADS CHECKED BY THE DEALER ACCORDING TO THE CHECKS SPECIFIED IN THE SCHEDULED MAINTENANCE TABLE. HOWEVER, IN THE EVENT OF NOISES COMING FROM THE FRONT AND/OR REAR BRAKING SYSTEM DURING OPERATION, IT IS ADVISABLE TO HAVE THE BRAKING SYSTEM CHECKED BY AN AUTHORISED SERVICE CENTRE OR DEALER. AFTER REPLACING THE BRAKE PADS, DO NOT USE THE SCOOTER UNTIL YOU HAVE OPERATED THE BRAKE LEVER SEVERAL TIMES IN ORDER TO ALLOW THE PLUNGERS TO SETTLE AND THE LEVER STROKE TO BE SET TO THE CORRECT POSITION.

CAUTION

THE PRESENCE OF SAND, MUD, SNOW MIXED WITH SALT, ETC. ON THE ROAD, CAN DRASTICALLY REDUCE THE LIFE OF THE BRAKE PADS. WHEN RIDING THE VEHICLE ON ROADS WITH THE ABOVE MENTIONED CHARACTERISTICS, WE RECOMMEND TO CLEAN THE BRAKE DISC FREQUENTLY WITH A NON-AGGRESSIVE DETERGENT IN ORDER TO AVOID THE FORMATION OF ABRASIVE BUILD-UPS IN THE HOLES, WHICH COULD RESULT IN EARLY WEAR OF BRAKE PADS.

Puncture

The vehicle is equipped with Tubeless tyres (without inner tube). In the event of a puncture, Tubeless tyres - unlike tyres with inner tubes - go flat very slowly, resulting in a greater steering safety. In the event of a puncture, an emergency repair can be carried out using an "inflate and repair" spray can. For a final repair, take your vehicle to an **Authorised Service Centre or Dealer**. The replacement of a tyre involves removing the wheel in question. Take your vehicle to an **Authorised Service Centre or Dealer** for these operations.

CAUTION



TO USE THE "INFLATE AND REPAIR" SPRAY CAN PROPERLY, FOLLOW THE INSTRUCTIONS ON THE PACKAGING.

WARNING



THE WHEELS FITTED WITH TYRES SHOULD ALWAYS BE BALANCED. RIDING THE VEHICLE WITH VERY LOW TYRE PRESSURE OR WITH INCORRECTLY BALANCED TYRES CAN LEAD TO DANGEROUS STEERING VIBRATIONS.

Periods of inactivity

We recommend carrying out the following operations:

1. Clean the vehicle thoroughly and then cover it with a canvas;
2. Be careful to rest the vehicle on its centre stand disabling the front suspension locking system;
3. With engine off and piston at the bottom dead centre, remove the spark plug, add 1 to 2 cc of oil through the opening (adding more oil may damage the engine). Operate

the starter button 1-2 times for roughly 1 second to turn the engine over slowly, then insert the spark plug again;

4. Empty all fuel; spread antirust grease on the uncoated metal parts; keep the wheels lifted above the ground by resting the chassis on two wooden wedges;

5. For the battery, follow the procedures described in the «Battery» section.

Recommended products

AGIP CITY HI TEC 4T

Oil to lubricate flexible transmissions (throttle control)

Oil for 4-stroke engines

Cleaning the vehicle

Use a low pressure jet of water to soften the caked dirt and mud deposited on the painted surfaces. Once softened, sponge off mud and dirt using a car body sponge soaked in a car body shampoo and water solution (2-4% of car shampoo in water). Then rinse with abundant water, and dry with a shammy cloth. For the engine exterior, use petrol, a brush and clean cloths. Petrol can damage paintwork. Remember that any polishing with silicone wax must always be preceded by washing.

CAUTION



DETERGENTS CAN POLLUTE WATER. THE VEHICLE MUST BE WASHED AT A WASH STATION EQUIPPED WITH A SPECIAL WATER PURIFICATION SYSTEM.

CAUTION

THE USE OF A HIGH-PRESSURE WATER JET IS STRONGLY DISCOURAGED FOR ANY ENGINE CLEANING OPERATION; HOWEVER, IF NO OTHER MEANS ARE AVAILABLE, IT IS THEN NECESSARY TO:

- ONLY USE A FANLIKE SPRAY JET.
- DO NOT HOLD THE NOZZLE NEARER THAN 2 FT (60 CM) FROM THE VEHICLE.
- DO NOT USE WATER AT TEMPERATURES OVER 100°F (40°C).
- DO NOT USE HIGH-PRESSURE WATER JETS.
- DO NOT STEAM WASH.
- DO NOT AIM THE JET AT: THE ENGINE, THE WIRING, THE COOLING SLITS ON THE TRANSMISSION OR SCROLL COVERS.

CAUTION

NEVER WASH THE SCOOTER IN DIRECT SUNLIGHT, ESPECIALLY IN SUMMER WHEN THE BODYWORK IS STILL HOT AS THE SHAMPOO COULD DAMAGE THE PAINTWORK IF IT DRIES BEFORE BEING RINSED OFF. NEVER USE CLOTHS SOAKED IN ALCOHOL, PETROL, DIESEL OIL OR KEROSENE FOR CLEANING THE PAINTED OR PLASTIC SURFACES, IN ORDER NOT TO DAMAGE THE LUSTRE FINISH OR ALTER THEIR MECHANICAL PROPERTIES. USING SILICONE-BASED WAX CAN DAMAGE THE PAINTED SURFACES, DEPENDING ON THE VEHICLE COLOUR (SATIN COLOURS). FOR FURTHER INFORMATION ON THIS MATTER, CONTACT AN AUTHORISED SERVICE CENTRE.

STARTING FAILURE

Emergency switch in «OFF»	Set the switch back to « ON »
Fuse blown	Replace the blown fuse and have the vehicle checked by an Authorised Service Centre .

IGNITION PROBLEMS

Faulty spark plug	Contact an Authorised Service Centre .
Faulty ignition / injection control unit.	Contact an Authorised Service Centre .
Faulty coil. Due to the presence of high voltage, this check should only be carried out by an expert.	Contact an Authorised Service Centre .

LACK OF COMPRESSION

Loose spark plug.	Screw in the spark plug tightly
Cylinder head loose, piston gas rings worn.	Contact an Authorised Service Centre .
Valve stuck	Contact an Authorised Service Centre .

HIGH CONSUMPTION AND LOW PERFORMANCE

Air filter blocked or dirty.	Clean with water and shampoo and impregnate with petrol and specific oil («Air filter removal» section)
------------------------------	---

INSUFFICIENT BRAKING

Greasy disc. Worn pads. Faulty braking system. Presence of air in the front and rear brake circuit.	Contact an Authorised Service Centre .
---	---

INEFFICIENT SUSPENSION

Shock absorber fault, oil leak, end buffers damaged; shock absorber preloading incorrectly set	Contact an Authorised Service Centre .
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AUTOMATIC TRANSMISSION PROBLEMS

CVT rollers and/or drive belt damaged	Contact an Authorised Service Centre .
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STAND DOES NOT RETURN TO POSITION

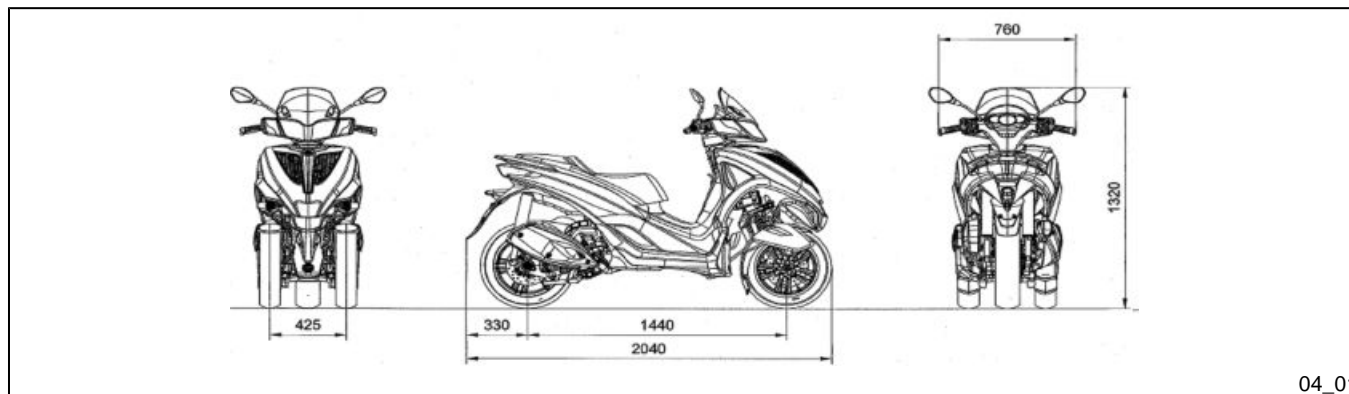
Presence of dirt

Clean and grease

LUM MP3 300 YOURBAN RL-NRL (2011)



Chap. 04
Technical data



04_01

ENGINE TECHNICAL DATA

Type	Single-cylinder, 4-stroke
Engine capacity	278 cm ³
Bore x stroke	75 X 63 mm
Compression ratio	11 ± 0.5: 1
Engine idle speed	1,700 ± 100 rpm
Timing system	Four valves, single overhead camshaft, chain-driven.
Valve clearance	Intake: 0.10 mm Exhaust: 0.15 mm

Max. Power	16.6 kW at 7,500 rpm
MAX. torque	24 Nm at 6000 rpm
Transmission	Automatic expandable pulley variator with torque server, V-belt, automatic clutch.
Final reduction gear	Gear reduction unit in oil bath.
Lubrication	Engine lubrication with trochoidal pump (inside the crankcase), oil filter and pressure adjustment by-pass.
Cooling	Forced coolant circulation system.
Electric	starter
Ignition	Electronic, inductive, high efficiency ignition, integrated with the injection system, with variable advance and separate HV coil.
Ignition advance	Three-dimensional map managed by control unit
Fuel system	32 MIU1.G3 Electronic injection, with Ø 32-mm throttle body and electric fuel pump.
Spark plug	NGK CR7EKB o NGK CR8EKB o NGK CR8EB
Fuel	Unleaded petrol (95 RON)
Silencer	Absorption-type exhaust muffler with catalytic converter and lambda probe.
Emissions compliance	EURO 3

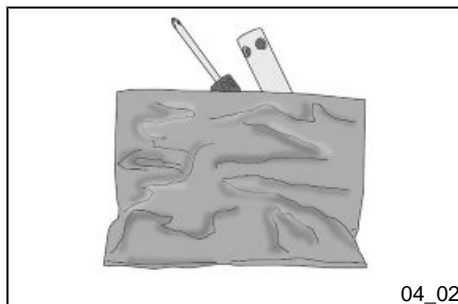
VEHICLE TECHNICAL DATA

Chassis	Tubular and sheet steel
Front suspension	The roll system is composed of an articulated parallelogram suspension with die-cast aluminium control arms and two side headstocks plus shock absorbers with hydraulic locking system.
Rear suspension	Two double-acting shock absorbers, adjustable to four positions at preloading.
Front brake	Ø 240-mm double disc brake with hydraulic control operated by the handlebar right-hand lever.
Rear brake	Ø 240-mm disc brake with hydraulic control operated by the handlebar left-hand lever.
Wheel rim type	Light alloy wheel rims.
Front wheel rim	13" x 3.00"
Rear wheel rim	14" x 3.75"
Front tyre	Without inner tube 110/70 13" 48P
Rear tyre	Without inner tube: 140/60-14" 64P
Front tyre pressure	1.7 bar
Rear tyre pressure	2.2 bar (2.6 bar with passenger)
Kerb weight	212 kg (200 kg for version NRL without front suspension block and parking brake locking)

Maximum weight allowed	405 kg
Battery	12 V-12Ah SEALED BATTERY

CAPACITY

Engine oil	Capacity: 1.3 l (dry); 1.2 l (when changing oil and filter)
Transmission oil	250 cm ³
Cooling system fluid	~ 2 l
Fuel tank (reserve)	11.0 (2l)



Toolkit (04_02, 04_03)

One box-spanner; one lever for box-spanner; one twin screwdriver; one special spanner for adjusting the rear shock absorbers one plastic gripper for removing the fuses.

The tools are stored under the saddle in the compartment provided. To open it, release the catch shown in the figure.



LUM MP3 300 YOURBAN RL-NRL (2011)



**Chap. 05
Spare parts and
accessories**



05_01

Warnings (05_01)

WARNING



TO PREVENT ACCIDENTS AND TO GUARANTEE PROPER STABILITY, PERFORMANCE AND SAFETY, RIDE THE VEHICLE VERY CAREFULLY WHEN IT IS FITTED WITH ACCESSORIES OR WITH UNUSUAL LOADS.

WARNING



IT IS ALSO RECOMMENDED THAT ORIGINAL PIAGGIO SPARE PARTS BE USED, AS THESE ARE THE ONLY ONES OFFERING YOU THE SAME QUALITY GUARANTEE AS THOSE INITIALLY FITTED ON THE SCOOTER. THE USE OF NON-ORIGINAL SPARE PARTS RENDERS THE WARRANTY VOID.

WARNING



PIAGGIO MARKETS ITS OWN LINE OF ACCESSORIES THAT ARE RECOGNISED AND GUARANTEED FOR USE. IT IS THEREFORE ESSENTIAL TO CONTACT AN AUTHORISED DEALER OR SERVICE CENTRE IN ORDER TO CHOOSE AND FIT ACCESSORIES CORRECTLY. THE USE OF NON-ORIGINAL ACCESSORIES MAY AFFECT THE STABILITY AND OPERATION OF YOUR VEHICLE AND REDUCE SAFETY LEVELS WITH POTENTIAL RISKS FOR THE RIDER.

WARNING

NEVER RIDE THE SCOOTER EQUIPPED WITH ACCESSORIES (TOP BOX AND/OR WINDSHIELD) AT A SPEED HIGHER THAN 100 km/h.

THE SCOOTER CAN BE RIDDEN AT A HIGHER SPEED WITHOUT THE ACCESSORIES MENTIONED BEFORE WITHIN THE LIMITS ESTABLISHED BY LAW.

IF THERE ARE ANY NON-PIAGGIO ACCESSORIES INSTALLED, OR AN ABNORMAL LOAD, OR IF THE SCOOTER IS NOT IN A GENERALLY GOOD CONDITION, OR WHENEVER WEATHER CONDITIONS DEMAND IT, SPEED SHOULD BE FURTHER REDUCED.

WARNING

BE EXTREMELY CAREFUL WHEN INSTALLING AND REMOVING THE MECHANICAL ANTITHEFT DEVICE ON THE VEHICLE (U-SHAPED PADLOCK, DISC BLOCK, ETC.).

MAINLY NEAR THE BRAKE PIPES, TRANSMISSIONS AND/OR ELECTRIC CABLES, AN INCORRECT INSTALLATION OR REMOVAL OF THE ANTITHEFT DEVICE AS WELL AS LEAVING IT ON BEFORE STARTING THE VEHICLE CAN SERIOUSLY DAMAGE ITS COMPONENTS, COMPROMISE THE CORRECT FUNCTIONING OF THE VEHICLE AND USERS' SAFETY.

LUM MP3 300 YOURBAN RL-NRL (2011)



Chap. 06
Scheduled
maintenance



06_01

Scheduled servicing table (06_01)

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

To this end, a series of checks and maintenance operations (at the owner's expense) have been suggested, which are included in the summary table on the following page. Any minor faults should be reported without delay to an **Authorised Service Centre or Dealer** without waiting until the next scheduled service to solve it.

It is indispensable to have your vehicle serviced to the prescribed intervals of time, even if you have not reached the predicted mileage. Punctual vehicle servicing is necessary for the correct use of the guarantee. For all further information regarding the Guarantee application modes and the execution of the "Programmed Maintenance" refer to the "Guarantee Booklet".

SCHEDULED MAINTENANCE TABLE

Km x 1,000	1	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Safety fasteners	I		I				I				I				I		
Spark plug		I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R
Centre stand bracket			L				L				L				L		
Drive belt				R			R			R			R			R	
Throttle control	A		A		A		A		A		A		A		A		A
Air filter			C		C		C		C		C		C		C		C
Engine oil filter	R		R		R		R		R		R		R		R		R
Valve clearance					A				A				A				A
Electrical system and battery	I		I		I		I		I		I		I		I		I
Coolant *	I		I		I		I		I		I		I		I		I

Km x 1,000	1	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
Brake fluid *	I		I		I		I		I		I		I		I		I
Engine oil	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R	I	R
Hub oil	R	I	I	I	R	I	I	I	R	I	I	I	R	I	I	I	R
Brake pads	I		I		I		I		I		I		I		I		I
Sliding shoes / CVT rollers			R		R		R		R		R		R		R		R
Tyre pressure and wear			I		I		I		I		I		I		I		I
Vehicle and brake test	I		I		I		I		I		I		I		I		I
Suspension			I		I		I		I		I		I		I		I
Steering	I		I		I		I		I		I		I		I		I
Roll lock gripper control cable	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

I: CHECK AND CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY.

C: CLEAN, **R:** REPLACE, **A:** ADJUST, **L:** LUBRICATE

* Replace every 2 years

RECOMMENDED PRODUCTS TABLE

Product	Description	Specifications
AGIP GEAR 80W-90	Oil for speed gearbox	SAE 80W-90, API GL-4 mineral multigrade oil
AGIP CITY HI TEC 4T	Oil to lubricate flexible transmissions (throttle control)	Oil for 4-stroke engines
AGIP GP 330	Grease for brake levers, throttle	White calcium complex soap-based spray grease with NLGI 2; ISO-L-XBCIB2

Product	Description	Specifications
AGIP CITY HI TEC 4T	Engine oil	SAE 5W-40, API SL, ACEA A3, JASO MA Synthetic oil
AGIP BRAKE 4	Brake fluid	FMVSS DOT 4 Synthetic fluid
AGIP PERMANENT SPECIAL	coolant	Monoethylene glycol-based antifreeze fluid, CUNA NC 956-16
AUTOSOL METAL POLISH	Silencer cleaning paste	special product for cleaning and polishing stainless steel silencer
AGIP GREASE PV2	Grease for steering bearings, pin seats and swinging arm	Soap-based lithium and zinc oxide grease containing NLGI 2; ISO-L-XBCIB2 of the swinging arm

UNIT OF MEASURE - CONVERSION - ENGLISH SYSTEM
TO INTERNATIONAL SYSTEM (IS).

1 Inch (in)	25.4 Millimetres (mm)
1 Foot (ft)	0.305 Meter (m)
1 Mile (mi)	1.609 Kilometre (km)
1 US Gallon (USgal)	3.785 Litre (l)
1 Pound (lb)	0.454 Kilogram (kg)
1 Cubic inch (in³)	16.4 Cubic centimetres (cm³)
1 Foot pound (ft lb)	1,356 Newton meter (Nm)
1 Mile per hour (mi/h)	1,602 Kilometres per hour (km/h)
1 Pound per square inch (PSI)	0.069 (bar)
1 Fahrenheit (°F)	32+(9/5) Celsius (°C)

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The descriptions and illustrations given in this publication are not binding. While the basic specifications as described and illustrated in this manual remain unchanged, PIAGGIO-GILERA 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/models shown in this publication are available in all countries. The availability of each model should be checked at the official Piaggio sales network.

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PIAGGIO & C. S.p.A. - Aftersales

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