

APRILIA WOULD LIKE TO THANK YOU

for choosing one of its products. We have compiled this booklet 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 that it will continue to give you satisfactory service for many years to come. This booklet is an integral part of the vehicle and must be handed over to the new owner in the event of sale.

Mana GT ABS



The instructions given in this booklet are intended to provide a clear, simple guide to using your scooter; it also describes routine maintenance procedures and regular checks that should be carried out on the vehicle at an **authorised aprilia Dealer or Workshop**. This 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: for these operations, please take your vehicle to an **Aprilia Dealer or Authorised 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 symbols illustrated above 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. Before starting the engine, read this booklet 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, the state of maintenance of the vehicle itself 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 given any riding condition. IMPORTANT This booklet is an integral part of the vehicle, and should the vehicle be sold, it must be transferred to the new owner.

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Mana GT ABS



Chap. 01
General rules

Foreword

NOTE

CARRY OUT MAINTENANCE OPERATIONS AT HALF THE INTERVALS SPECIFIED IF THE VEHICLE IS USED IN PARTICULAR RAINY OR DUSTY CONDITIONS, OFF ROAD OR FOR TRACK USE.

Carbon monoxide

If you need to keep the engine running in order to perform a procedure, please ensure that you do so in an open or very well ventilated area. Never let the engine run in an enclosed area. If you do work in an enclosed area, make sure to use a smoke-extraction system.

CAUTION



EXHAUST EMISSIONS CONTAIN CARBON MONOXIDE, A POISONOUS GAS WHICH CAN CAUSE LOSS OF CONSCIOUSNESS AND EVEN DEATH.

Fuel

CAUTION



THE FUEL USED TO POWER INTERNAL COMBUSTION ENGINES IS HIGHLY FLAMMABLE AND MAY BE EXPLOSIVE UNDER CERTAIN CONDITIONS. IT IS THEREFORE RECOMMENDED TO CARRY OUT REFUELLING AND MAINTENANCE PROCEDURES IN A VENTILATED AREA WITH THE ENGINE SWITCHED

OFF. DO NOT SMOKE DURING REFUELLING OR NEAR FUEL VAPOUR. AVOID ANY CONTACT WITH NAKED FLAME, SPARKS OR OTHER HEAT SOURCES WHICH MAY CAUSE IGNITION OR EXPLOSION.

DO NOT ALLOW FUEL TO DISPERSE INTO THE ENVIRONMENT.

KEEP OUT OF THE REACH OF CHILDREN.



IF THE VEHICLE FALLS OR IS ON A STEEP INCLINE FUEL CAN LEAK.

Hot components

The engine and the exhaust system components get very hot and remain in this condition for a certain time interval after the engine has been switched off. Before handling these components, make sure that you are wearing insulating gloves or wait until the engine and the exhaust system have cooled down.

Coolant

The coolant contains ethylene glycol which, under certain conditions, can become flammable. When ethylene glycol burns, it produces an invisible flame which can nevertheless cause burns.

CAUTION



TAKE CARE NOT TO SPILL COOLANT ONTO HOT ENGINE OR EXHAUST SYSTEM COMPONENTS; THE FLUID MAY IGNITE AND BURN WITH AN INVISIBLE

FLAME. WHEN CARRYING OUT MAINTENANCE, IT IS ADVISABLE TO WEAR LATEX GLOVES. EVEN THOUGH IT IS TOXIC, COOLANT HAS A SWEET FLAVOUR WHICH MAKES IT VERY ATTRACTIVE TO ANIMALS. NEVER LEAVE THE COOLANT IN OPEN CONTAINERS IN AREAS ACCESSIBLE TO ANIMALS AS THEY MAY DRINK IT.

KEEP OUT OF THE REACH OF CHILDREN.

DO NOT REMOVE THE RADIATOR CAP WHEN THE ENGINE IS STILL HOT. THE COOLANT IS PRESSURISED AND MAY CAUSE SCALDING.

Used engine oil and gearbox oil

CAUTION



IT IS ADVISABLE TO WEAR LATEX GLOVES WHEN SERVICING THE VEHICLE.

THE ENGINE OR GEARBOX OIL MAY CAUSE SERIOUS INJURIES TO THE SKIN IF HANDLED FOR PROLONGED PERIODS OF TIME AND ON A REGULAR BASIS.

WASH YOUR HANDS CAREFULLY AFTER HANDLING OIL.

HAND THE OIL OVER TO OR HAVE IT COLLECTED BY THE NEAREST USED OIL RECYCLING COMPANY OR THE SUPPLIER.

DO NOT DISPOSE OF OIL IN THE ENVIRONMENT

KEEP OUT OF THE REACH OF CHILDREN.

Brake and clutch fluid



BRAKE AND CLUTCH FLUIDS CAN DAMAGE THE PLASTIC OR RUBBER PAINTED SURFACES. WHEN SERVICING THE BRAKING OR THE CLUTCH SYSTEM PROTECT THESE COMPONENTS WITH A CLEAN CLOTH. ALWAYS WEAR PROTECTIVE GOGGLES WHEN SERVICING THESE SYSTEMS. BRAKE AND CLUTCH FLUIDS ARE EXTREMELY HARMFUL FOR YOUR EYES. IN THE EVENT OF ACCIDENTAL CONTACT WITH THE EYES, RINSE THEM IMMEDIATELY WITH PLENTY OF COLD, CLEAN WATER AND SEEK MEDICAL ADVICE.

KEEP OUT OF THE REACH OF CHILDREN.

Battery hydrogen gas and electrolyte

CAUTION



THE BATTERY ELECTROLYTE IS TOXIC, CORROSIVE AND, AS IT CONTAINS SULPHURIC ACID, MAY CAUSE BURNING IF IT COMES INTO CONTACT WITH THE SKIN. WHEN HANDLING BATTERY ELECTROLYTE, WEAR TIGHT-FITTING GLOVES AND PROTECTIVE APPAREL. IN THE EVENT OF SKIN CONTACT WITH THE ELECTROLYTIC FLUID, RINSE WELL WITH PLENTY OF CLEAN WATER. IT IS PARTICULARLY IMPORTANT TO PROTECT YOUR EYES BECAUSE EVEN TINY AMOUNTS OF BATTERY ACID MAY CAUSE BLINDNESS. IN THE EVENT OF CONTACT WITH THE EYES, RINSE WITH PLENTY OF WATER FOR FIFTEEN MINUTES AND CONSULT AN EYE SPECIALIST IMMEDIATELY. IF THE FLUID IS ACCIDENTALLY SWALLOWED, DRINK LARGE QUANTITIES OF WATER OR MILK, FOLLOWED BY MILK OF MAGNESIA OR VEGETABLE OIL AND SEEK MEDICAL ADVICE IMMEDIATELY. THE BATTERY RELEASES EXPLOSIVE GASES; KEEP IT AWAY FROM FLAMES, SPARKS, CIGARETTES OR ANY OTH-

ER HEAT SOURCES. ENSURE ADEQUATE VENTILATION WHEN SERVICING OR RECHARGING THE BATTERY.

KEEP OUT OF THE REACH OF CHILDREN.

BATTERY LIQUID IS CORROSIVE. DO NOT POUR IT OR SPILL IT, PARTICULARLY ON PLASTIC COMPONENTS. ENSURE THAT THE ELECTROLYTIC ACID IS COMPATIBLE WITH THE BATTERY BEING ACTIVATED.

Stand



BEFORE SETTING OFF, MAKE SURE THE STAND HAS BEEN COMPLETELY RETRACTED TO ITS POSITION.

DO NOT REST THE RIDER OR PASSENGER WEIGHT ON THE SIDE STAND.

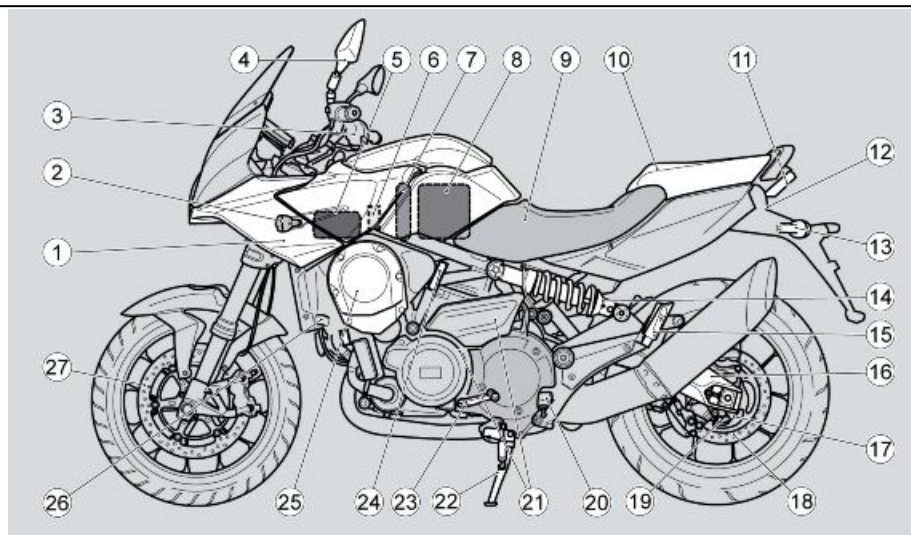
Reporting of defects that affect safety

Unless otherwise specified in this Use and Maintenance Booklet, do not remove any mechanical or electrical component.

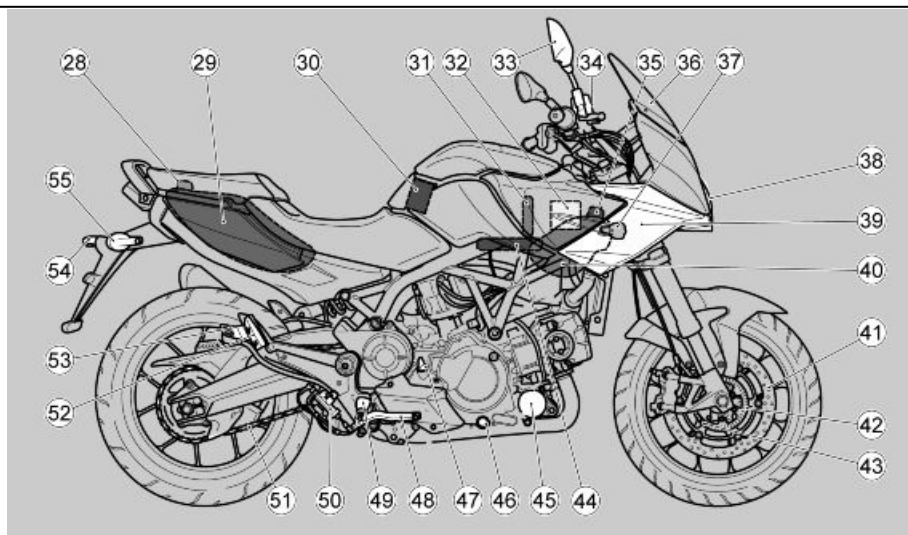
Mana GT ABS



Chap. 02
Vehicle



02_01



02_02

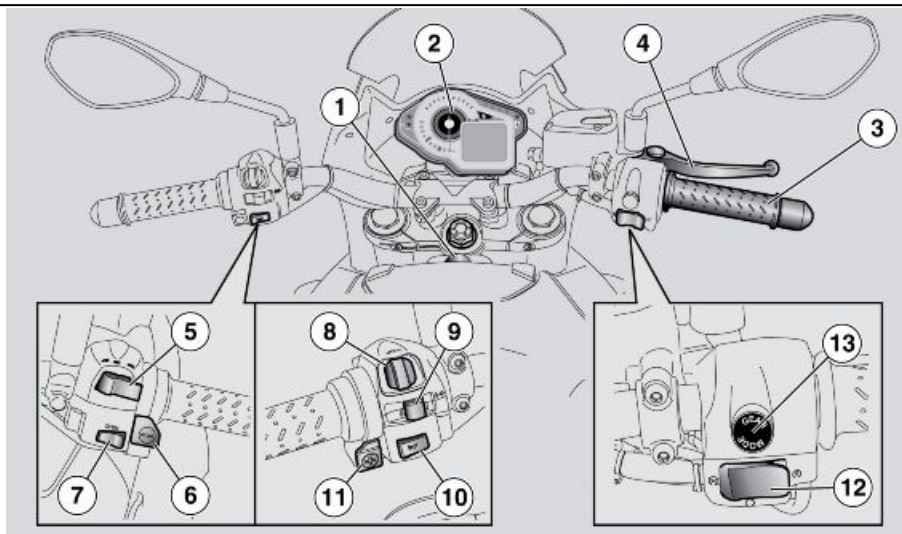
Arrangement of the main components (02_02)

key:

1. Left side fairing
2. Front left turn indicator
3. Gearshift control on the handlebar
4. Left rear-view mirror
5. Helmet compartment / toolkit
6. ABS Fuse
7. Main fuses
8. Battery
9. Saddle
10. Passenger saddle
11. Rear light

12. Passenger saddle lock
13. Rear left turn indicator
14. Rear shock absorber
15. Left passenger footrest (snap-on, closed / open)
16. Rear fork
17. Rear tone wheel
18. REAR BRAKE DISC
19. Rear ABS sensor
20. Left rider footrest
21. Transmission air filters
22. Side stand
23. Pedal control lever
24. Parking brake lever
25. Air filter
26. Horn
27. Front left brake disc
28. Fuel tank cap
29. Fuel tank
30. Transmission control unit
31. Auxiliary fuses
32. ABS control unit
33. Right rear-view mirror
34. Front brake fluid reservoir
35. Expansion tank cap
36. adjustable windscreen
37. Front right turn indicator
38. Front headlamp
39. Right side fairing
40. Expansion tank
41. Front right brake disc
42. Front tone wheel
43. Front ABS sensor
44. Engine control unit
45. Engine oil filter
46. Engine oil max level
47. Engine oil plug
48. Rear brake control lever
49. Right rider footrest

- 50. Rear brake pump
- 51. Drive chain
- 52. Right passenger footrest (snap-on, closed / open)
- 53. Rear brake fluid reservoir
- 54. License plate holder light
- 55. Rear right turn indicator



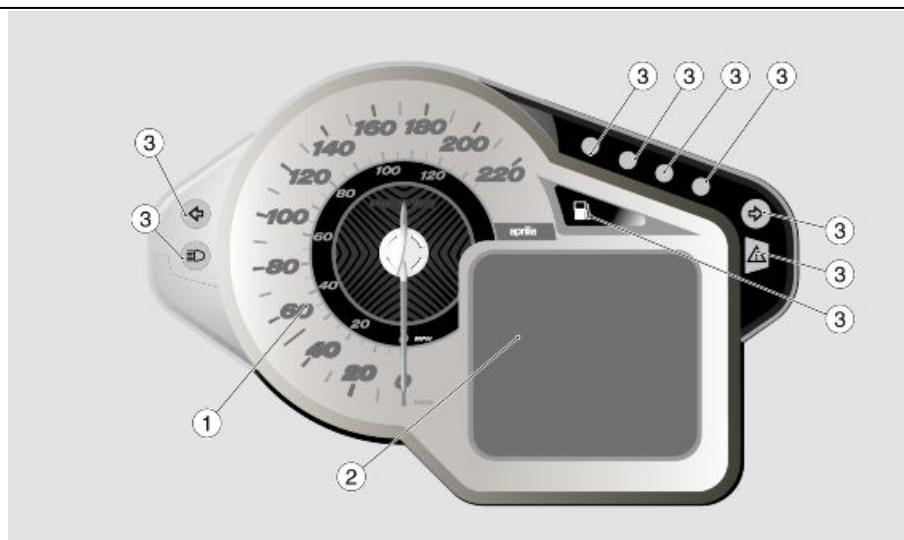
02_03

Dashboard (02_03)

Instrument panel / controls location key

- 1. Ignition switch /steering lock

2. Instrument panel
3. Throttle grip
4. Front brake lever
5. Flash switch and high-beam activation
6. GEAR DOWN control
7. Helmet compartment opening control
8. Instrument panel MODE control
9. Turn indicator control
10. Horn button
11. GEAR UP control
12. Starter button / engine stop switch
13. GEAR MODE control



Instrument panel (02_04)

key:

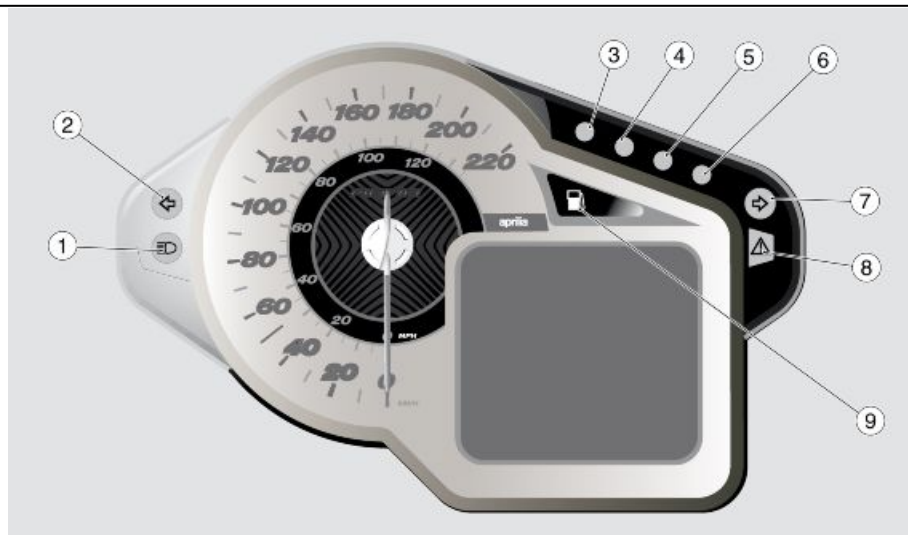
1. Speedometer
2. Multifunctional digital display
3. Warning lights

The instrument panel has an immobilizer system which prevents start-up in case the system does not identify a key which has been stored before.

The vehicle is supplied with two keys already programmed. The instrument panel accepts a maximum of four keys at the same time: contact an Official **Aprilia** Dealer to enable these keys or to disable a key that has been lost. When the vehicle is delivered and approximately ten seconds after the key is set to ON, the instrument panel requests a personal five-digit code to be entered. This request is no longer displayed once the personal code is entered. For code entering procedure, see the CODE MODIFICATION section

It is important to remember the personal code because:

- **the vehicle can be started if the immobilizer system is faulty**
- **the instrument panel need not be replaced should the ignition switch be changed**
- **new keys can be programmed**



02_05

Light unit (02_05)

key:

1. High-beam warning light, blue
2. Left turn indicator warning light, green
3. RPM 4 warning light, red (active only when in SPORT GEAR mode)
4. RPM 3 warning light, amber yellow (active only when in SPORT GEAR mode)
5. RPM 2 warning light, amber yellow (active only when in SPORT GEAR mode)
6. RPM 1 warning light, amber yellow (active only when in SPORT GEAR mode)
7. Right turn indicator warning light, green
8. General alarm warning light, red
9. Low fuel warning light, amber yellow

Digital lcd display (02_06, 02_07, 02_08, 02_09)

- By turning the ignition key to "KEY ON", the following indicators on the instrument panel are displayed:

- The MANA logo

- All warning lights

The general layout of the screen displayed for the user is the following:

- ambient temperature;

- Clock;

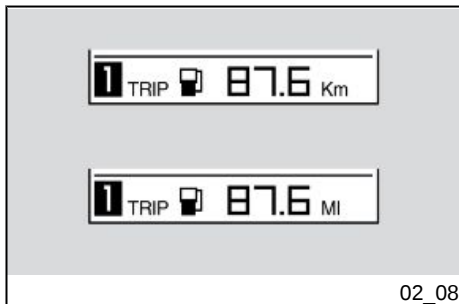
- Odometer;

- Gear engaged;

- Engine temperature bar;

- Trip journal ;

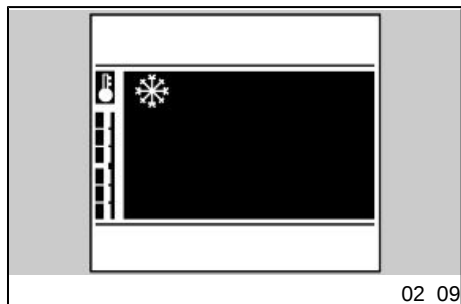
- Additional functions.



Two kilometres after the low fuel warning light turns on, the kilometres travelled with low fuel are shown on the digital display.

When active, it disappears after pressing one of the joystick controls to reappear after 60 seconds.

If the vehicle is using the fuel reserve, the warning light turns on 60 seconds after "KEY ON".

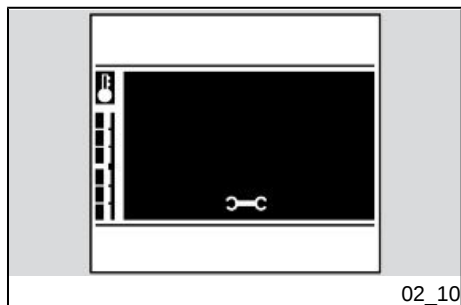


When the external temperature is below or equal to 3°C (37°F), the display shows the ice alarm icon.

When the threshold of the maintenance intervals is exceeded, an icon with a spanner is shown. This indicator may be reset once the scheduled service has been completed by an **authorised Aprilia Dealer or service centre**.

The "spanner" icon flashes for five seconds when the key is set to "KEY ON" and less than 300 km before the scheduled maintenance deadline.

With the key set to "KEY OFF" the general alarm warning light flashes to indicate activation of the locking system. To minimise battery consumption the light stops flashing after 48 hours.



Alarms (02_10, 02_11, 02_12, 02_13, 02_14, 02_15, 02_16, 02_17, 02_18, 02_19, 02_20, 02_21, 02_22)

In case of failure, a different icon is displayed according to the cause at the bottom of the display.

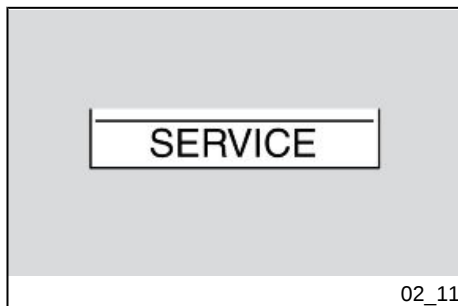
Take your vehicle as soon as possible to an Official **aprilia** Dealer.

SERVICE ALARM

In case of failure found in the instrument panel or in the electronic control unit, the instrument panel signals the failure by displaying the SERVICE icon and the red general warning light comes on.

Given this, and for some kinds of problems, the engine can be started only if the side stand is up.

If there is an immobilizer failure at ignition, the instrument panel requests you to enter a user code. If the code is entered correctly, the instrument panel signals the failure by displaying the SERVICE icon and the red general warning light comes on.

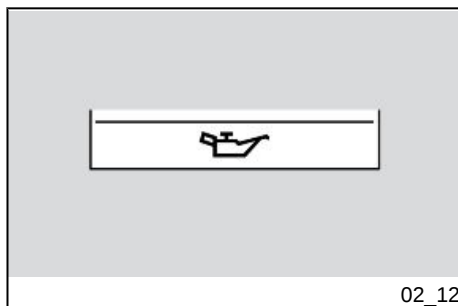


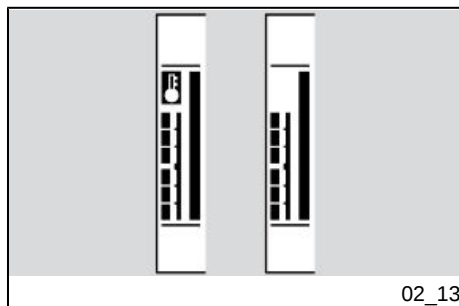
Air temperature sensor failure

In case of air temperature sensor failure, the instrument panel signals the problem by displaying the "--" symbol steadily at the position where the temperature value is generally displayed. In this case the red general warning light does not turn on.

Oil failure

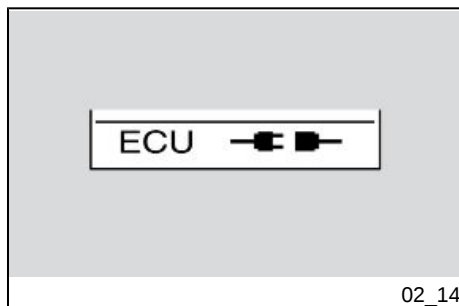
In case of failing oil pressure or oil pressure sensor failure, the bulb and the red general warning light turn on the instrument panel.





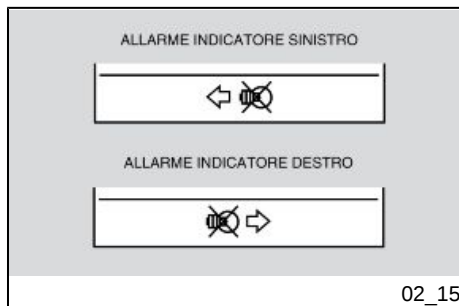
Engine overheating alarm

The engine overheating alarm is activated when the temperature is higher than or equal to 110 °C (230 °F). The red general warning light turns on and the thermometer icon flashes on the display to signal this condition.



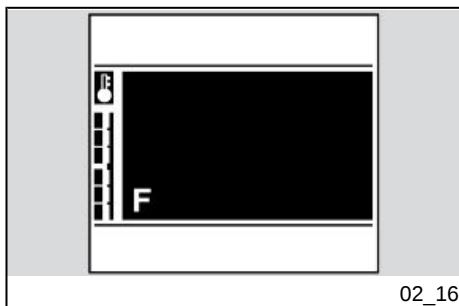
Electronic control unit disconnected alarm

In case no connection is detected, the disconnection icon is displayed on the instrument panel and the red general warning light turns on to signal this condition.



Turn indicator malfunction

When the instrument panel detects a failing turn indicator, the turn indicator warning light flashes twice as fast and the problem is signalled on the digital display.



02_16

Alarms - transmission

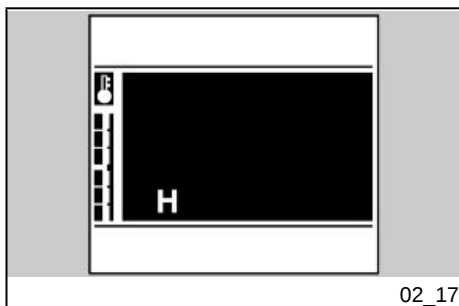
In case of alarms for gearshift controls and mode control connected to the transmission control unit, three kinds of symbols are shown on the display, according to the nature of the alarm: F, H and M.

F stands for "foot" (foot pedal), H stands for "handlebar" (handlebar control) and M is for "mode" (gear mode selection).

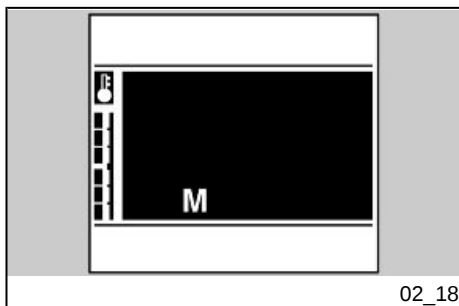
In case of alarms related to the transmission control unit, the general alarm warning light is lit and the display shows the word GEAR.

CAUTION

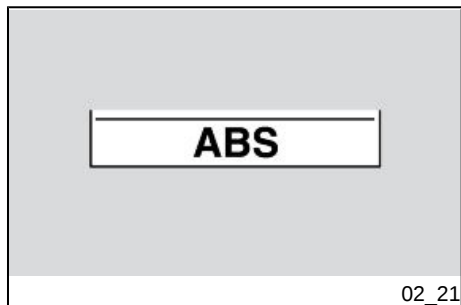
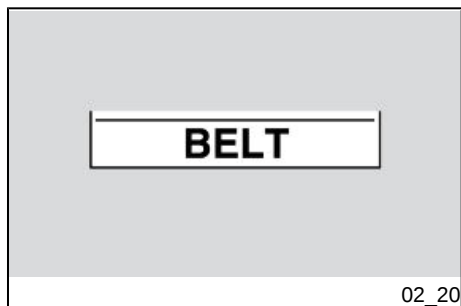
IN CASE THE HANDLEBAR CONTROLS ARE DISABLED, THE H SYMBOL WILL BE ALSO SHOWN ON THE DIGITAL DISPLAY.



02_17



02_18



Worn belt alarm

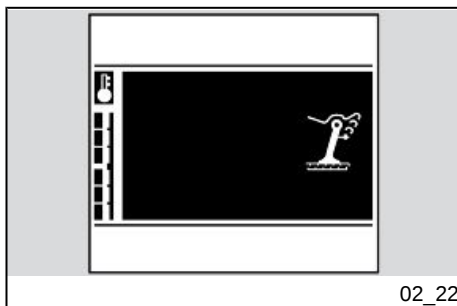
The alarm for a worn belt indicates excessive wear for that belt. There are two priority levels:

- Low-priority alarm: the display shows the word BELT but the alarm warning light is off.
- High-priority alarm: the display shows the word BELT and the alarm warning light comes on simultaneously.

For high-priority alarms, the RAIN mode is automatically set (see the **Transmission** chapter).

ABS Alarm

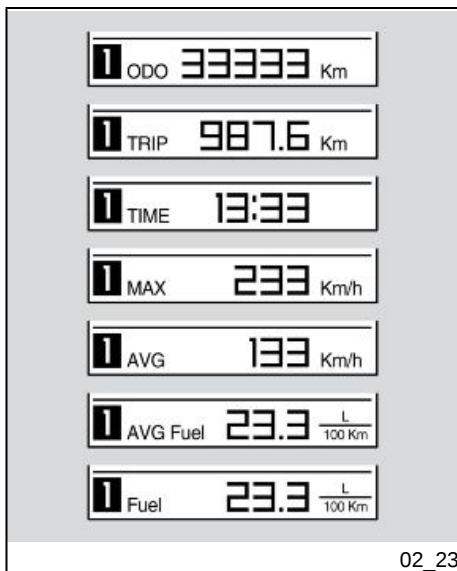
For alarms related to the ABS control unit, the general alarm warning light comes on and at the same time the display shows the word ABS.



02_22

Side stand alarm

If the side stand is down, the display shows the stand icon.



02_23

Control buttons (02_23, 02_24, 02_25, 02_26)

Trip journal 1 and 2

There are two trip journals available.

Press and hold down the MODE control to the left to select the TRIP JOURNAL 1; icon "1" on the DIGITAL DISPLAY turns on.

Press and hold down the MODE control to the right to select the TRIP JOURNAL 2; icon "2" on the DIGITAL DISPLAY turns on.

In each journal, each time the MODE control is briefly pressed to the right or left, the following information is displayed in sequence:

ODOMETER

TRIP ODOMETER

TRAVELLING TIME

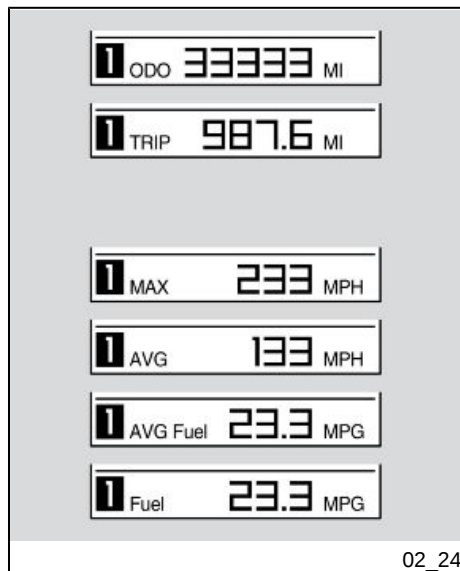
MAXIMUM SPEED

MEAN SPEED

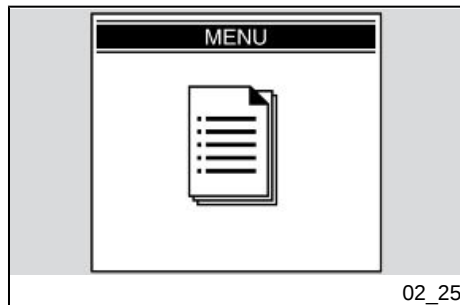
AVERAGE FUEL CONSUMPTION

CURRENT FUEL CONSUMPTION

MENU (only with the vehicle at a standstill)



With the following options: TRIP ODOMETER, TRAVELLING TIME, MAXIMUM SPEED, MEAN SPEED, AVERAGE FUEL CONSUMPTION, press and hold down the central key to reset all the indications stored in the active TRIP JOURNAL.



At zero speed, when the display shows the MENU, press and hold down the central button to access the instrument panel advanced functions.

CHRONOMETER

To use the chronometer, select the CHRONOMETER function from the MENU of the instrument panel advanced functions.

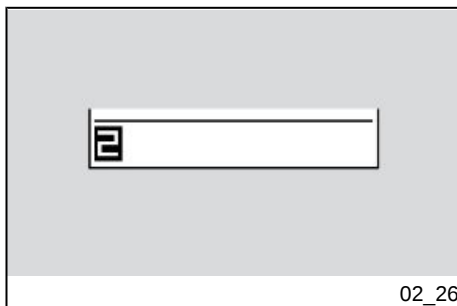
The chronometer is shown at the top of the digital display instead of the gear, clock and ambient temperature indicators.

With the vehicle in motion the chronometer functioning is controlled by means of the MODE control central button.

Press the central button briefly to start the chronometer. Timekeeping starts when the button is pressed. If the button is pressed again within 10 seconds after starting timekeeping, the chronometer is reset. After that time, and if the button is pressed again, the data is stored and the next timekeeping begins.

Timekeeping is cancelled by pressing and holding down the central button, or when speed goes back to zero and the display shows the last time stored.

After storing 40 times, this function is over. A new series of timekeeping can be started again only after deleting previous times stored by means of the MENU of the instrument panel advanced functions.



Advanced functions (02_27)

MENU

The configuration menu can be opened from the menu screen and consists of the following options:

- EXIT
- SETTINGS
- CONTROL ENABLING (on the handlebar)
- CHRONOMETER
- DIAGNOSIS
- LANGUAGES.

SETTINGS

The SETTINGS menu consists of the following options:

- EXIT
- TIME ADJUSTMENT
- BACKLIGHTING
- CODE CHANGE
- CODE RESET
- °C / °F
- 12/24 h

The functions of the settings menu are indicated in the following sections.

Once each operation is finished, the instrument panel goes back to the main menu.

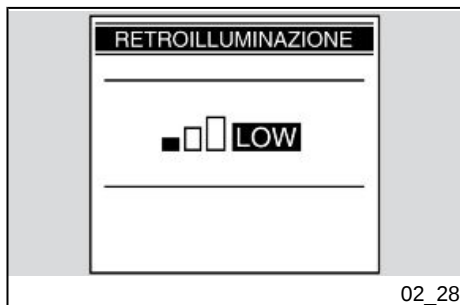
TIME ADJUSTMENT

The clock can be programmed with this option. The main display shows "CLOCK ADJUSTMENT".

The minutes indicator is no longer displayed when this function is activated; only the hours indicator is shown. Each time the MODE selector is pressed to the right, the hour value increases; each time the MODE selector is pressed to the left, the hour value decreases. Press the MODE selector central part to store the set value and to shift to minute adjustment.

The minute indicator is no longer displayed when this function is activated; only the hour indicator is shown. Each time the MODE selector is pressed to the right, the minute value increases; each time the MODE selector is pressed to the left, the minute value decreases.

Press the MODE selector central part to store the set value and to exit the clock adjustment function.



02_28

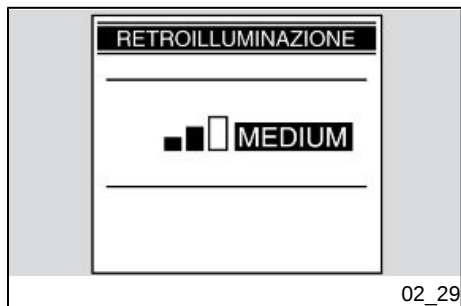
BACKLIGHTING

This function adjusts the backlighting brightness to three levels. Each time the MODE selector is pressed to the right or left, the following icons are shown:

- LOW
- MEAN
- HIGH

Once the desired level is selected, press the MODE selector central part and the instrument panel goes back to the SETTINGS menu.

When the battery is detached, the display gets configured to the maximum level of brightness.



CODE CHANGE

This function is used to modify an old code. Once within this function, the following message is displayed:

"ENTER OLD CODE"

After recognising the old code, the new code is requested and the display shows the following message:

"ENTER NEW CODE"

Once the operation is finished, the instrument panel shows the SETTINGS menu.

If it is the first time a code is stored, only the new code is requested.

CODE RESET

This function is used to set a new code when the old one is not available; in this case, at least two keys will have to be inserted in the ignition lock. After the first key has been inserted, the second one is requested with the following message:

"INSERT KEY II"

In between keys, the instrument panel remains lit; if the key is not inserted within 20 seconds, the operation finishes. After recognising the second key, the insertion of the new code is required with the message:

"ENTER NEW CODE"

Once the operation is finished, the instrument panel shows the SETTINGS menu.

CAUTION

IF YOU LOSE ONE OF THE SUPPLIED KEYS, CONTACT AN aprilia official Dealer.

°C/°F

Select the °C / °F option from the SETTINGS menu for this function.

This function selects the unit of measurement for the ambient temperature: °C or °F.

12H / 24H

Select the 12H / 24H option from the SETTINGS menu for this function.

This menu selects the clock display mode as 12h or 24h.

CONTROL ENABLING (on the handlebar)

In order to access the function to enable the controls on the handlebar, select the **CONTROL ENABLING** option in the settings menu.

This function enables or disables the use of the handlebar controls; the foot control is always active.

The option selected is not cleared even if the battery is removed.

If the controls on the handlebar are disabled, the "H" symbol is shown on the digital display.

CHRONOMETER

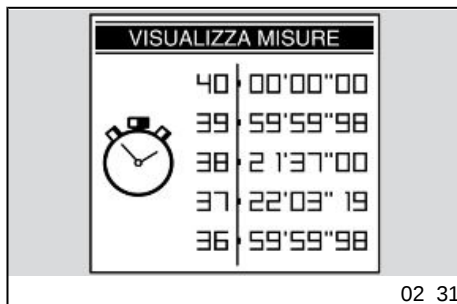
Select the **CHRONOMETER** option from the configuration menu to access the chronometer function. When the **CHRONOMETER** function is selected the screen page shows the following options:

- EXIT
- START CHRONOMETER
- VIEW TIMES
- DELETE TIMES

Start chronometer

Select this option to display the screen that allows to select which function should be shown at the top of the display- clock or chronometer.

The instrument panel keeps the chosen configuration even after the key is extracted / inserted.



View times

This option shows the stored chronometer times. Press the MODE selector briefly and repeatedly to the right or left to scroll the time screens; hold it down to display the CHRONOMETER menu. If the battery is removed, the stored times are lost.

Delete times

This option deletes the stored chronometer times. A deletion confirmation is requested. Once the operation is finished, the display goes back to the chronometer menu.

DIAGNOSIS

Open the configuration menu to display the DIAGNOSIS option.

This menu interfaces with the systems present on the vehicle and diagnoses them. To enable this menu, enter an access code available only from official Aprilia dealers.

LANGUAGES

Open the configuration menu to access the LANGUAGES function. Select the LANGUAGES option to choose the interface language.

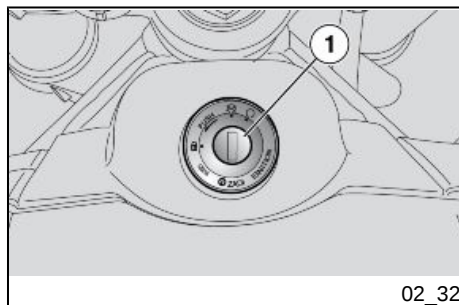
The options are:

- ITALIANO
- ENGLISH
- FRANÇAIS

- DEUTSCH

- ESPAÑOL

Once the operation is finished, the display goes back to the LANGUAGES menu.



Ignition switch (02_32)

The ignition switch (1) is located at the front of the fuel reservoir.

The vehicle is supplied with two keys (one is the spare key).

The lights go off when the ignition switch is set to «OFF».

NOTE

THE KEY ACTIVATES THE IGNITION SWITCH AND OPERATES THE STEERING LOCK.

NOTE

THE LIGHTS TURN ON AUTOMATICALLY UPON ENGINE START-UP.

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

OFF: The engine and lights cannot be set to work. The key can be extracted.

ON: the engine may be started. The key cannot be removed

Locking the steering wheel

- Turn the handlebar fully to the left.
- Turn the key to «**OFF**».
- Push in the key and turn it anticlockwise (to the left); steer the handlebar slowly until the key is set to «**LOCK**».
- Extract the key.

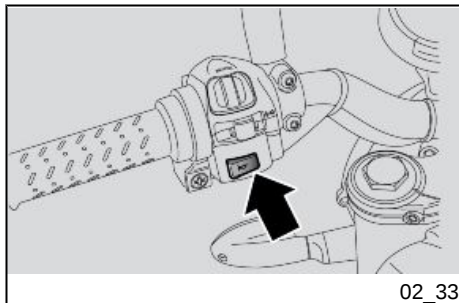
CAUTION



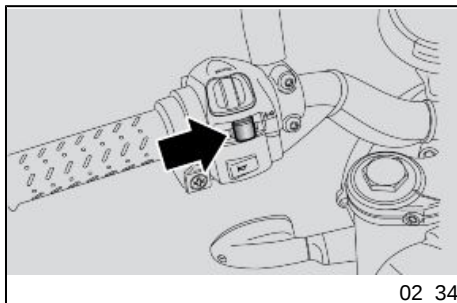
TO AVOID LOSING CONTROL OF THE VEHICLE, NEVER TURN THE KEY TO "LOCK" WHILE RIDING.

Horn button (02_33)

Press it to activate the horn.



02_33



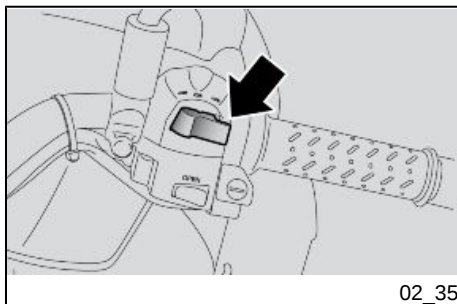
Switch direction indicators (02_34)

Move the switch to the left, to indicate a left turn; move the switch to the right, to indicate a right turn. Pressing the switch deactivates the turn indicator.

If the turn indicator is not deactivated by pushing the button, it will be automatically deactivated after a few seconds.

CAUTION

IF THE ARROW WARNING LIGHT FLASHES QUICKLY, IT MEANS THAT ONE OR BOTH TURN INDICATOR LIGHT BULBS ARE BURNT OUT.

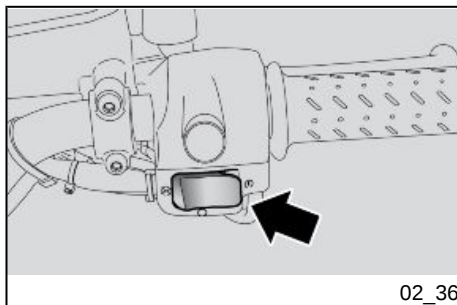


Passing button (02_35)

Uses the high-beam flash in case of danger or emergency.

Releasing the switch deactivates the high-beam flash.

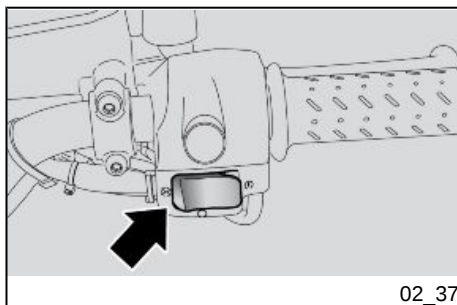
Pushing it forward activates the high-beam steadily.



Start-up button (02_36)

By pressing the button to the right the starter motor causes the engine to spin.

In order to start the engine, operate either brake while pressing the starter button to the right at the same time.



Engine stop switch (02_37)

It acts as an engine cut-off or emergency stop switch.

Press the switch to the left to stop the engine.

System ABS (02_38, 02_39)

The ABS system is a device that prevents wheel locking in case of an emergency braking, thus increasing vehicle stability when braking, compared with a conventional braking system.

The ABS system enhances control over the vehicle, taking into consideration never to exceed the physical limits of vehicle grip on the road. The rider is fully responsible

for riding at a suitable speed based on weather and road conditions, always leaving an appropriate safety margin.

Under no circumstances can the ABS system compensate for the rider's misjudgment or improper use of brakes.

NOTE

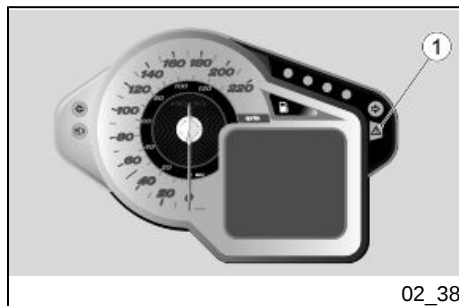
WHEN THE ABS SYSTEM STARTS WORKING, A VIBRATION IS FELT ON THE BRAKE LEVER.



THE ANTILOCK BRAKING SYSTEM OF THE WHEEL DOES NOT PREVENT FALLS WHILE CORNERING.

AN EMERGENCY BRAKING WITH THE VEHICLE INCLINED, HANDLEBAR TURNED, ON UNEVEN OR SLIPPERY ROADS, OR WITH POOR GRIP, CREATES A LACK OF STABILITY DIFFICULT TO HANDLE. RIDE CAREFULLY AND SENSIBLY AND ALWAYS BRAKE GRADUALLY.

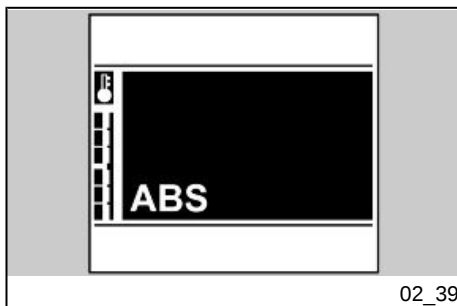
DO NOT SPEED RECKLESSLY. THE VEHICLE GRIP ON THE ROAD IS SUBJECT TO LAWS OF PHYSICS WHICH NOT EVEN THE ABS SYSTEM CAN ELIMINATE.



Upon starting the vehicle, after the initial check of the instrument panel, the general alarm warning light (1) flashes and at the same time the display shows the word ABS until you ride over 5 km/h (3.1 mph). After this, the general alarm warning light goes off and the word ABS is no longer displayed.

NOTE

PRESS THE MODE BUTTON TO VIEW THE JOURNEY LOG DATA (THE WORD ABS IS NOT SHOWN TEMPORARILY, THUS THESE DATA CAN BE CONSULTED).



02_39

If the general alarm warning light (1) and the word ABS keep flashing or are steadily on, this means that a malfunction has been detected and that the ABS has been deactivated automatically.

In this case carry out the following operations:

- stop the vehicle;
- key OFF-ON;
- ride over 5 km/h (3.1 mph): the general alarm warning light must come off and the display should no longer show the word ABS;
- the ABS system is working.

If the ABS disabled indication remains:

NOTE

SHOULD THIS OCCUR, CONTACT AN aprilia Official Dealer.

NOTE

THE ABS SYSTEM HAS BEEN DESIGNED AND DEVELOPED, CONSISTENTLY WITH THE REST OF THE VEHICLE, TO BE USED ON TARMAC ROADS AND IT IS NOT SUITABLE FOR OFF-ROAD USE.

IF THE VEHICLE IS USED ON UNSURFACED AND/OR SPECIFICALLY ROUGH ROADS, THE ABS SYSTEM MAY GET DISABLED AUTOMATICALLY; IN ANY CASE, THE BRAKING SYSTEM WORKS PERFECTLY WELL AS A TRADITIONAL NON-ABS BRAKING SYSTEM AND PROVIDES A STANDARD STOP CAPACITY.

IN ORDER TO REACTIVATE THE SYSTEM JUST SHUT OFF AND START THE VEHICLE UP AGAIN AND RIDE OVER 5 km/h (3.1 mph).



THE ABS SYSTEM ACTS ON BOTH THE FRONT AND REAR WHEELS BY OBTAINING INFORMATION FROM THE ROTATION/ LOCKING TONE WHEELS. ALWAYS CHECK THAT THE TONE WHEEL IS CLEAN, AND REGULARLY CHECK THAT THE DISTANCE TO THE SENSOR IS CONSTANT ON ALL 360 GRADES. SHOULD THE WHEELS BE REMOVED AND REFITTED, IT IS VERY IMPORTANT TO CHECK THAT THE DISTANCE BETWEEN TONE WHEEL AND SENSOR IS THE ONE SPECIFIED. FOR CHECKING AND ADJUSTMENT, CONTACT AN Authorised APRILIA Workshop.



IN THE CASE OF A MOTORCYCLE WITH THE ABS SYSTEM, BRAKE PADS WITH FRICTION MATERIALS THAT ARE NOT TYPE APPROVED WILL JEOPARDISE BRAKING, DRASTICALLY REDUCING RIDING SAFETY.

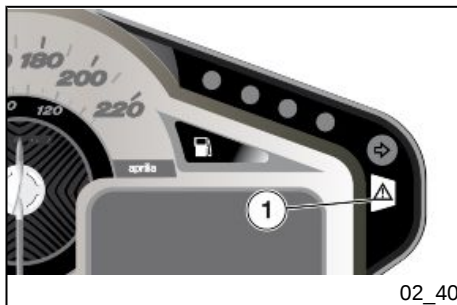
Characteristic

Distance between tone wheel and rear sensor

0.1 - 2.00 mm (0.004 - 0.079 in)

Distance between tone wheel and front sensor

0.1 - 3.17 mm (0.004 - 0.125 in)



02_40

Immobilizer system operation (02_40)

For enhanced theft protection, the vehicle is equipped with an electronic immobilizer system that is activated automatically when the ignition key is removed.

Keep the second key in a safe place since it is not possible to make a copy if it gets lost. This would imply replacing numerous parts of the vehicle (besides the locks).

Each key in the grip has an electronic device - transponder - which modulates the radio frequency signal emitted by a special built-in aerial in the switch when the vehicle is started.

The modulated signal is the "password" by which the appropriate central unit recognises the key and only after this occurs, it allows the engine start-up.

CAUTION

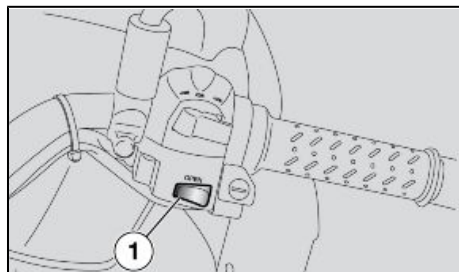
THE IMMOBILIZER SYSTEM CAN MEMORISE UP TO FOUR KEYS.

DATA STORAGE OPERATION CAN ONLY BE PERFORMED AT THE DEALER'S.

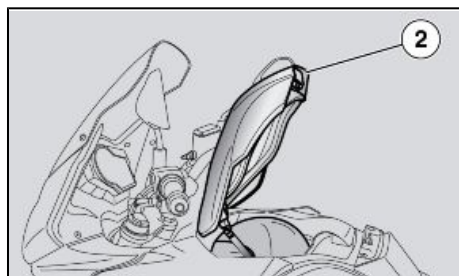
DATA STORAGE PROCEDURE CANCELS THE EXISTING CODES. THEREFORE, IF A CUSTOMER WANTS TO PROGRAM SOME NEW KEYS, S/HE SHOULD GO TO THE DEALER TAKING ALL THE KEYS S/HE WANTS TO ENABLE.

The immobilizer operation mode is signalled by the warning light (1) placed on the instrument panel:

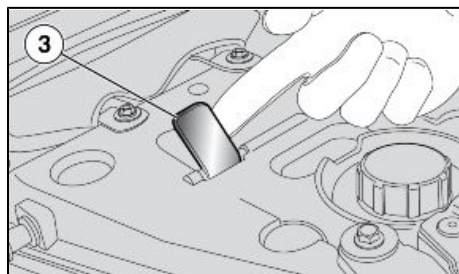
- Warning light off: immobilizer disabled.
- Flashing warning light: immobilizer enabled.
- Quick flashes: key not recognised.



02_41



02_42



02_43

Helmet compartment (02_41, 02_42, 02_43)

To access the helmet compartment:

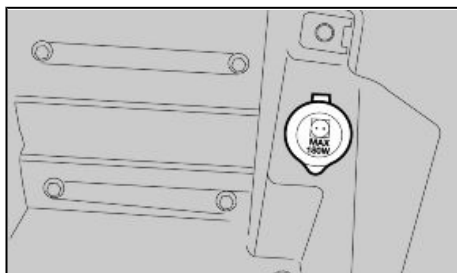
- Turn the key to KEY ON.
- Activate the OPEN control (1) and open the helmet compartment (2).

The open button (1) only works with the key set to KEY ON. If the battery is discharged, use the manual opening device (3) under the passenger saddle; lift the passenger saddle in order to access it.

CAUTION

NEVER OPEN THE HELMET COMPARTMENT WHEN THE MOTORBIKE IS MOVING. WHEN THE HELMET COMPARTMENT IS OPEN THE HANDLEBAR CANNOT BE TURNED, WHICH COMPROMISES VEHICLE HANDLING AND CONSEQUENTLY THE SAFETY OF BOTH BIKE AND PEOPLE.

ALWAYS CHECK THAT THE HELMET COMPARTMENT IS CORRECTLY CLOSED TO PREVENT THE GLOVE-BOX LIGHT FROM REMAINING LIT AND SO DISCHARGING THE BATTERY.

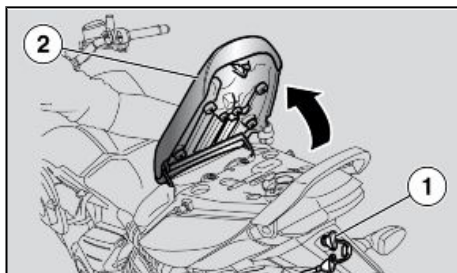


02_44

Power supply socket (02_44)

The plug socket is under the helmet compartment.

Open the helmet compartment to access the plug socket.



02_45

Opening the saddle (02_45)

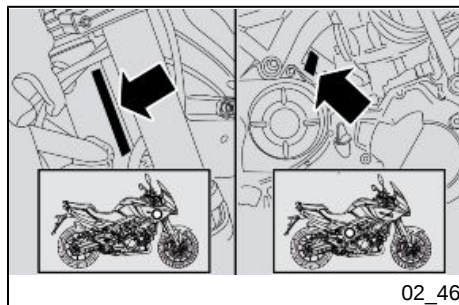
- Rest the vehicle on its stand.
- Insert the key (1) in the lock.
- Turn the key (1) anticlockwise; lift the passenger saddle (2).

To lock the saddle (2):

- Place the passenger saddle (2) in its position and press to trip the lock.



BEFORE SETTING OFF, MAKE SURE THAT THE SADDLE IS CORRECTLY LOCKED INTO POSITION.



02_46

Identification (02_46)

Write down the chassis and engine number in the specific space in this booklet. The chassis number is handy when purchasing spare parts.

CAUTION



THE MODIFICATION OF THE IDENTIFICATION CODES IS A SERIOUS PUNISHABLE CRIME. HOWEVER, THE LIMITED WARRANTY FOR NEW VEHICLES WILL BE VOID IF THE VEHICLE IDENTIFICATION NUMBER (VIN) HAS BEEN MODIFIED OR NOT PROMPTLY DETERMINED.

CHASSIS NUMBER

The chassis number is stamped on the right side of the headstock.

Chassis No.

ENGINE NUMBER

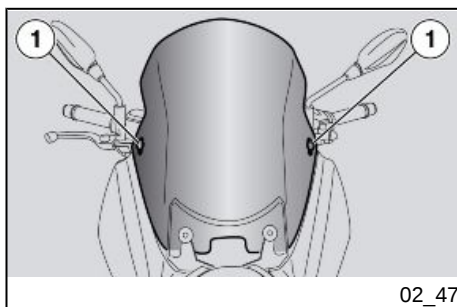
The engine number is stamped on the base of the right-side engine crankcase.

Engine No.

Adjusting the windscreen (02_47)

It is possible to adjust the windscreen manually as follows:

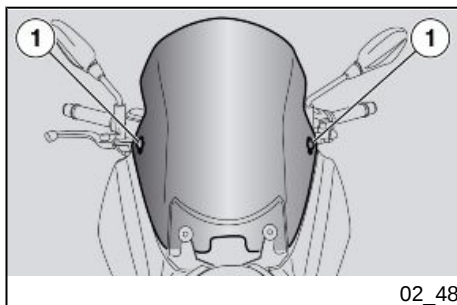
- Loosen the two fixing screws for the windscreen (1).
- Adjust the windshield to the desired position.
- Tighten the two fixing screws for the windscreen (1).

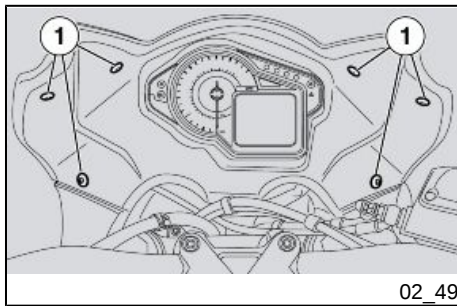


Windscreen removal (02_48)

The following operations are necessary to remove the windscreen:

- Undo and remove the two fixing screws for the windscreen (1) and collect the washers.
- Remove the windscreen by slowly sliding it upwards.





Instrument panel removal (02_49)

The following operations are necessary to remove the control panel:

- Remove the windscreen.
- Undo and remove the 6 screws (1).

- Remove the control panel together with the instrument panel.
- Disconnect the instrument panel connector.

Mana GT ABS



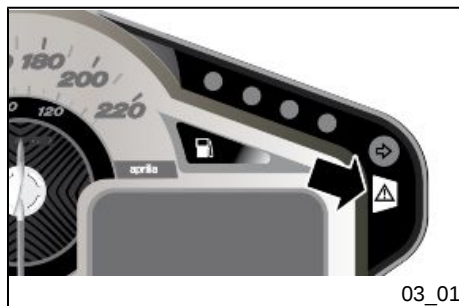
Chap. 03
Use

Checks (03_01)

CAUTION



BEFORE RIDING, ALWAYS PERFORM A PRELIMINARY CHECK OF THE VEHICLE TO ENSURE CORRECT AND SAFE OPERATION. FAILURE TO DO SO MAY LEAD TO 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 A MALFUNCTION IS DETECTED OR SUSPECTED. CHECKING TAKES VERY LITTLE TIME BUT CONSIDERABLY INCREASES SAFETY.



This vehicle has been programmed to indicate in real time any operation failure stored in the electronic control unit memory.

Every time the ignition switch is turned to "KEY ON", the alarm LED warning light turns on for about three seconds on the instrument panel.

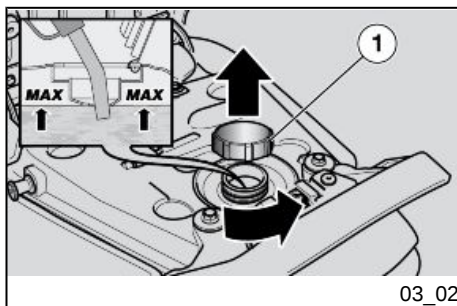
PRE-RIDE CHECKS

Front and rear disc brake

Check for proper operation. Check brake lever empty travel and brake fluid level. Check for leaks. Check

	brake pads for wear. If necessary top-up with brake fluid.
Throttle grip	Check that the throttle functions smoothly and can be fully opened and closed in all steering positions.
Engine oil	Check and/or top-up as required.
Wheels/ tyres	Check that tyres are in good conditions. Check inflation pressure, tyre wear and potential damage. Remove any possible strange body that might be stuck in the tread design.
Brake levers	Check they function smoothly. Lubricate the joints and adjust the travel if necessary.
Steering	Check that the rotation is uniform, smooth and there are no signs of clearance or slackness.
Centre - side stand	Check it works properly. Check that there is no resistance when the side stand is pulled up and down and that the spring tension makes it snap back to its rest position. Lubricate couplings and joints if necessary. Check the safety switch for correct operation.

Parking brake	Check the brake calliper for wear and adjustment.
Clamping elements	Check that the clamping elements are not loose. Adjust or tighten them as required.
Fuel tank	Check the coolant level and refill if necessary. Check the circuit for leaks or obstructions. Check that the tank cap closes correctly.
Engine stop switch (ON - OFF)	Check function.
Lights, warning lights, horn, rear stop light switch and electrical devices	Check function of horn and lights. Replace bulbs or repair any faults noted.
Tone wheels	Check that the tone wheels are perfectly clean and in good conditions.



Refuelling (03_02)

To refuel:

- Open the passenger saddle
- Turn the fuel tank cap (1) anticlockwise.
- Remove the fuel tank cap (1).

Fuel tank capacity (including reserve): **16 l (3.52 UKgal; 4.23 US gal)**

Fuel tank reserve: **3.3 l (0.73 UKgal; 0.87 USgal)**

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

- Refuel.

CAUTION



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.



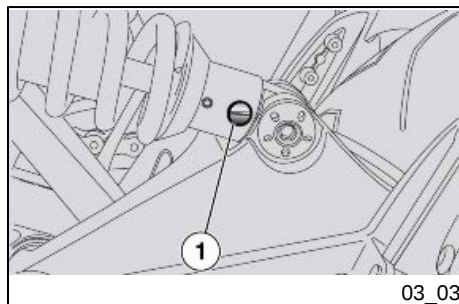
DO NOT FILL THE TANK UP TO THE RIM; FUEL MAXIMUM LEVEL MUST ALWAYS BE BELOW THE LOWER EDGE OF THE FILLER NECK (SEE FIGURE).

after refuelling:

- Screw the cap (1) clockwise.
- Tighten the cap (1).
- Close the passenger saddle.



MAKE SURE THE CAP IS TIGHTLY CLOSED.



Rear shock absorbers adjustment (03_03, 03_04)

REAR SUSPENSION

The rear suspension consists of a spring-shock absorber unit linked to the frame via uniball joints.

To adjust the setting, the shock absorber is fitted with a set screw (1) that adjusts hydraulic rebound damping, and knob (2) to adjust spring preloading (3).

CAUTION

THE SHOCK ABSORBER STANDARD SETTING IS ADJUSTED TO MEET TOURIST RIDING. HOWEVER, THIS SET CAN BE ADJUSTED TO SPECIFIC NEEDS ACCORDING TO VEHICLE USE.



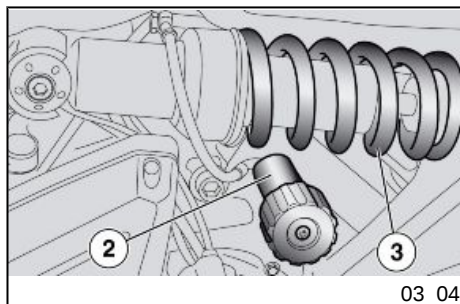
TO COUNT THE CLICKS OF SET SCREWS (1) ALWAYS START FROM THE MOST RIGID SETTING (SET SCREW FULLY CLOCKWISE).

IN ORDER TO AVOID DAMAGES DO NOT FORCE THE SET SCREWS (1) TO TURN BEYOND THE END OF THE STROKE ON BOTH SIDES.

CAUTION

IF THE SPRING PRELOADING IS INCREASED, IT IS NECESSARY TO INCREASE THE REBOUND DAMPING ACCORDINGLY TO AVOID SUDDEN JERKS WHEN RIDING.

IF NECESSARY, TAKE YOUR VEHICLE TO AN Official aprilia Dealer. TRY RIDING THE VEHICLE ON THE STREET UNTIL THE OPTIMUM ADJUSTMENT IS OBTAINED.



The standard rear shock absorber setting is adjusted to suit most riding conditions. The manufacturer has set the standard suspension adjustment for a rider weighing about 70 kg (154.3 pounds).

For other weights, as in the case of riding with a passenger or fully laden, contact an **Official aprilia Dealer**.

According to the vehicle use conditions, the hydraulic rebound damping of the shock absorber can be adjusted by acting on screw (1). Strictly observe the adjustment procedure described below:

Uneven or bumpy roads - HARD adjustment:

- Turn the screw (1) rightwards (clockwise).

Normal or regular roads - SOFT adjustment:

- Turn the screw (1) leftwards (anticlockwise).

use the adjustment knob (2) to adjust the spring (3) preload; for the adjustment, follow the procedure described in the rear shock absorber adjustment table.

REAR SHOCK ABSORBER ADJUSTMENT TABLE

Rear shock absorber adjustment: rider only	- the spring preloading knob (2) in the STD position (approx. 12 clicks from fully open) - the rebound adjustment screw (1) in the STD position (8 clicks from fully closed)
---	--

Rear shock absorber adjustment:
rider + passenger (or rider +
luggage)

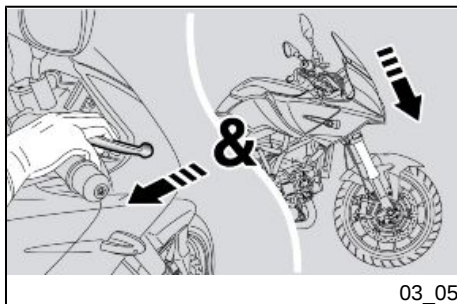
- the spring preloading knob (2) in
the STD position + 28 clicks (6
notches on the graduated scale)

- the rebound adjustment screw (1)
in the STD position + 3 clicks

Rear shock absorber adjustment:
rider + passenger + luggage

- the spring preloading knob (2) in
the STD position + 38 clicks (7 1/2
notches on the graduated scale)

- the rebound adjustment screw (1)
in the STD position + 6 clicks



Front fork adjustment (03_05)

CAUTION

THIS FORK CANNOT BE ADJUSTED.

- Operating the front brake lever, press the handlebar repeatedly to send the fork fully down. The stroke should be soft and there should be no oil marks on the stems.
- Check the tightening of all the elements and the correct operation of the front and rear suspension joints.

CAUTION

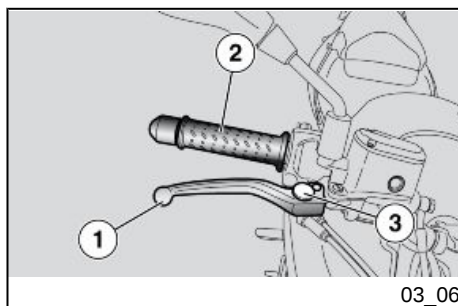
PLEASE CONTACT AN Official Aprilia Dealer TO HAVE THE FRONT FORK OIL CHANGED AND ITS OIL SEALS REPLACED.

Justering af greb til forbremse (03_06)

The distance between the end of the lever (1) and the handgrip (2) can be adjusted by rotating the set screw (3).

The MAX and MIN clicks correspond to a lever end-handgrip distance of about 114 mm (4.49 in) and 96 mm (3.78 in) respectively.

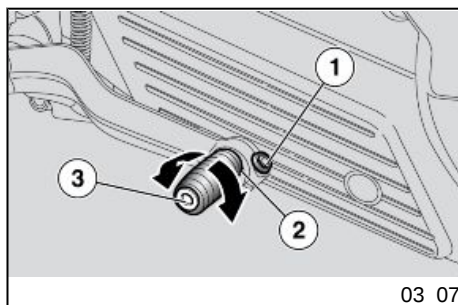
- Push the control lever (1) forward and turn the set screw (3) until the lever (1) is at the desired distance.

**Rear brake pedal adjustment (03_07)**

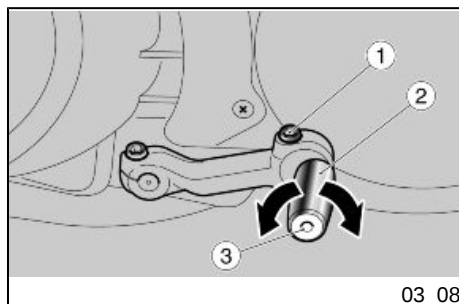
The control levers have been ergonomically fitted when assembling the vehicle.

If necessary, the position of the levers can be personalised.

- Rest the vehicle on its stand.
- Partially undo the screw (1).
- Turn the cam (2) until the adequate position for the pedal (3) is obtained.
- Tighten the screw (1) and check the cam is stable in position.

**CAUTION**

TO ADJUST THE BRAKE LEVER CLEARANCE, CONTACT AN OFFICIAL Aprilia DEALER. IF YOU ARE QUALIFIED EXPERTS REFER TO THE INSTRUCTIONS IN THIS WORKSHOP BOOKLET THAT CAN ALSO BE BOUGHT AT ANY OFFICIAL Aprilia DEALER.



Gear pedal adjustment (03_08)

The control levers have been ergonomically fitted when assembling the vehicle.

If necessary, the position of the levers can be personalised.

- Rest the vehicle on its stand.
- Partially undo the screw (1).
- Turn the cam (2) until the adequate position for the pedal (3) is obtained.
- Tighten the screw (1) and check the cam is stable in position.

CAUTION

TO ADJUST THE GEARSHIFT LEVER BACKLASH, PLEASE CONTACT AN OFFICIAL aprilia DEALER. IF YOU ARE ADEQUATELY TRAINED AND EXPERIENCED, REFER TO THE INSTRUCTIONS IN THIS WORKSHOP BOOKLET AVAILABLE ALSO AT ANY DEALER.

Running in

Running the engine in correctly is essential for ensuring engine longevity and functionality. Twisty roads and gradients are ideal for running in the engine, brakes and suspension effectively. Vary your riding speed during the running in period. This ensures that components operate in "loaded" conditions and then "unloaded" conditions, allowing the engine components to cool.

CAUTION

THE FULL PERFORMANCE OF THE VEHICLE IS ONLY AVAILABLE AFTER THE SERVICE AT THE END OF THE RUNNING IN PERIOD.

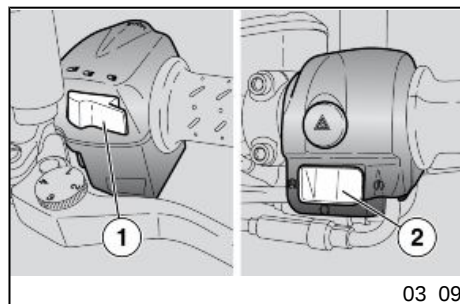
Follow the guidelines detailed below:

- Do not fully open the throttle grip abruptly at low engine speeds, either during or after the running in period.

- During the first 100 Km (62 miles) use the brakes gently, avoiding sudden or prolonged braking. That is to permit the adequate adjustment of the pad friction material to the brake discs.



AFTER THE SPECIFIED MILEAGE, TAKE YOUR VEHICLE TO AN Official Aprilia Dealer FOR THE CHECKS INDICATED IN THE "AFTER-RUN-IN" TABLE IN THE SCHEDULED MAINTENANCE SECTION TO AVOID INJURING YOURSELF, OTHERS AND /OR DAMAGING THE VEHICLE.



03_09

Starting up the engine (03_09, 03_10, 03_11, 03_12, 03_13, 03_14)

THIS VEHICLE HAS REMARKABLE POWER AND SHOULD BE USED GRADUALLY AND WITH MAXIMUM CAUTION.

Do not carry objects in the top fairing (between the handlebar and the instrument panel) so that handlebar can turn freely and the instrument panel is visible at all times.

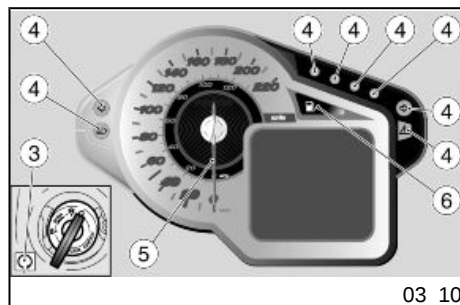


FAILURE TO OBSERVE THIS WARNING COULD LEAD TO UNCONSCIOUSNESS AND EVEN DEATH DUE TO SUFFOCATION.



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

NEVER START THE ENGINE IN A CLOSED OR INSUFFICIENTLY VENTILATED SPACE.



03_10

CAUTION

BEFORE STARTING THE ENGINE, CHECK THAT THE PARKING BRAKE IS NOT ENGAGED.

OPERATE ON ONE BRAKE IN ORDER TO START THE ENGINE.

LOWER THE SIDE STAND, AND THE ENGINE CAN BE STARTED AND LEFT IDLING; IF YOU ACCELERATE, THE VEHICLE WILL TURN OFF.

WHEN THE SIDE STAND IS UP, THE ENGINE CAN BE STARTED AND YOU CAN RIDE.

IN CASE OF A SERVICE ALARM INDICATION, FOR SOME KINDS OF FAILURES, THE ENGINE CAN BE STARTED ONLY IF THE SIDE STAND IS UP.

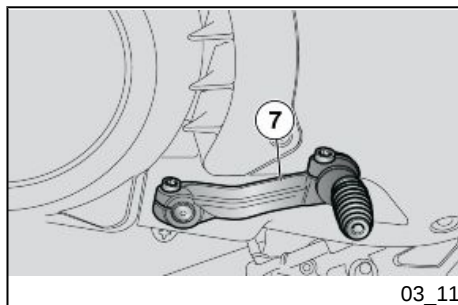
- Get onto the bike in riding position.
- Make sure that the parking brake is disengaged.
- Make sure that the stand has been fully retracted.
- Make sure the light switch (1) is set to the low-beam light position.
- Set the engine stop switch (2) to RUN.
- Turn the key (3) and set the ignition switch to ON.

At this stage:

- The multifunction display shows the ignition screen for 2 seconds.
- On the instrument panel, all warning lights (4) and the backlighting are on for 2 seconds.
- The odometer needle (5) goes to the bottom of the scale and after 3 seconds, it goes back to the minimum value.
- The current value is instantly indicated on the instrument panel during regular vehicle riding.
- Wait for these operations to finish and then start the engine.



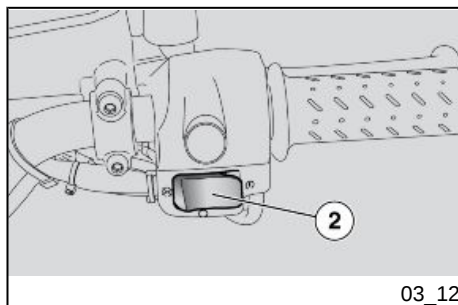
IF THE LOW FUEL WARNING LIGHT (6) ON THE INSTRUMENT PANEL TURNS ON, REFUEL THE VEHICLE AT ONCE.

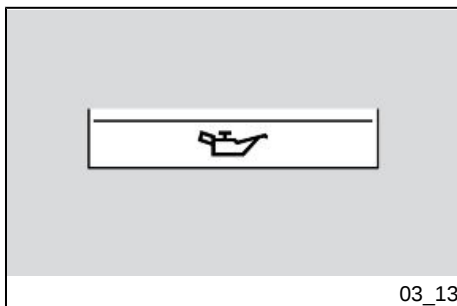


TO AVOID EXCESSIVE BATTERY CONSUMPTION, DO NOT HOLD DOWN THE STARTER BUTTON (2) MORE THAN TEN SECONDS.

IF THE ENGINE FAILS TO START AFTER THIS TIME, WAIT TEN SECONDS AND PRESS THE STARTER BUTTON (2) AGAIN.

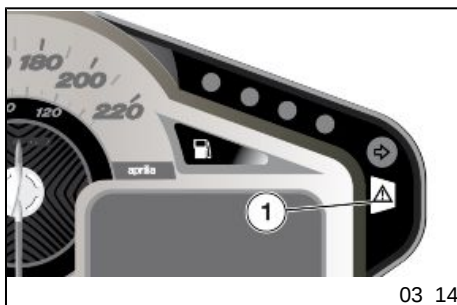
PRESS THE STARTER BUTTON (2) BUT DO NOT ACCELERATE, AND RELEASE IT AS SOON AS THE ENGINE STARTS.





AVOID PRESSING THE STARTER BUTTON (2) WHEN THE ENGINE HAS ALREADY STARTED, AS THIS COULD DAMAGE THE STARTER MOTOR.

IF THE ENGINE OIL PRESSURE ICON IS DISPLAYED AND THE GENERAL WARNING LIGHT IS ON, THIS MEANS THAT THE OIL PRESSURE IN THE CIRCUIT IS TOO LOW.



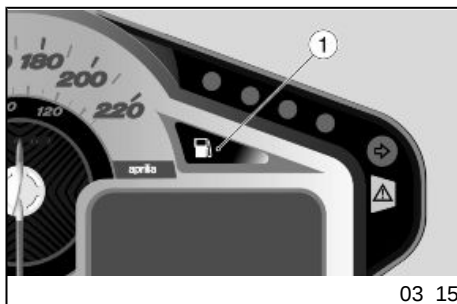
- Engage at least a break lever and do not accelerate until you set off.
- Press the starter button (2) to the right.



DO NOT SET OFF SUDDENLY WHEN THE ENGINE IS COLD. RIDE AT LOW SPEED FOR SEVERAL KILOMETRES. THIS WILL ALLOW THE ENGINE TO WARM UP AND REDUCE POLLUTING EMISSIONS AND FUEL CONSUMPTION.



IF THE WORD "SERVICE" IS SHOWN ON THE (MULTIFUNCTION) DISPLAY DURING REGULAR ENGINE OPERATION, THIS MEANS THAT THE ELECTRONIC CONTROL UNIT HAS DETECTED A PROBLEM.



03_15

Moving off / riding (03_15, 03_16, 03_17, 03_18, 03_19)

CAUTION

IF, WHILE RIDING, THE LOW FUEL WARNING LIGHT (1) ON THE INSTRUMENT PANEL TURNS ON, IT MEANS THERE IS STILL SOME FUEL LEFT.

REFUEL AS SOON AS POSSIBLE.

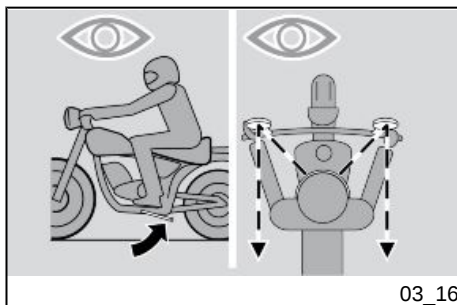
CAUTION

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

CAUTION

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

BEFORE RIDING, MAKE SURE THAT THE SIDE STAND IS COMPLETELY RETRACTED, OTHERWISE THE VEHICLE WILL TURN OFF WHEN YOU ACCELERATE.



03_16

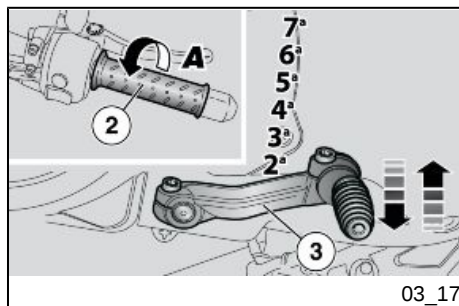
To set off:

- Operate one brake.
- Start the engine.
- Adjust the rear-view mirror angle correctly.

CAUTION



WITH THE VEHICLE AT A STANDSTILL, PRACTICE USING THE REAR-VIEW MIRRORS. THE MIRRORS ARE CONVEX, SO OBJECTS MAY SEEM FARTHER AWAY THAN THEY REALLY ARE. THESE MIRRORS OFFER A WIDE-ANGLE VIEW AND ONLY EXPERIENCE HELPS YOU JUDGE THE DISTANCE SEPARATING YOU AND THE VEHICLE BEHIND.



- Release the brake lever (pressed during start-up).

The vehicle starts moving forward.

- For the first riding kilometres, limit the speed in order to warm up the engine.



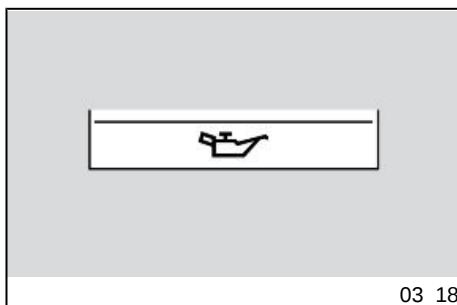
DO NOT EXCEED THE MAXIMUM RECOMMENDED ENGINE SPEED.

- Speed up by gradually twisting the throttle grip (2) (**Pos. A**) without exceeding the recommended revs.
- Shift the gear if in manual mode; see transmission section.

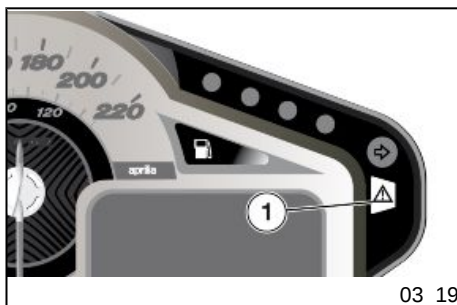


IF THE ENGINE OIL PRESSURE ICON IS DISPLAYED AND THE GENERAL WARNING LIGHT (1) IS ON DURING REGULAR ENGINE OPERATION, THIS MEANS THAT THE ENGINE OIL PRESSURE IN THE CIRCUIT IS TOO LOW.

IF THIS OCCURS, STOP THE ENGINE AND CONTACT AN aprilia Official Dealer.



03_18



03_19

Shifting from a higher to a lower gear, called "downshift", is carried out:

- When riding downhill and when braking, in order to increase the braking power by using engine compression.
- When going uphill, when the engaged gear does not suit the speed (high gear, moderate speed) and the number of engine revs falls.

CAUTION

DOWNSHIFT ONE GEAR AT A TIME; WHEN SHIFTING TO A LOWER GEAR, DOWNSHIFTING MORE THAN ONE GEAR AT A TIME COULD OVERREV THE ENGINE; THAT IS, THE MAXIMUM RPM VALUE PERMITTED FOR THE ENGINE COULD BE EXCEEDED.



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

WHEN STOPPING WHILE TRAVELLING UPHILL, CLOSE THE THROTTLE COMPLETELY AND ONLY USE THE BRAKES TO HOLD THE VEHICLE IN POSITION.

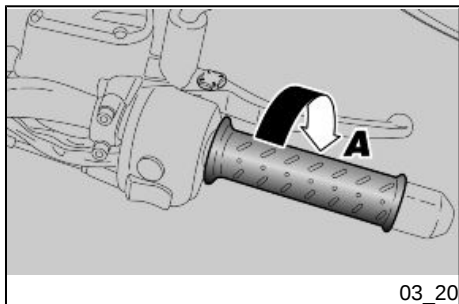
USING THE ENGINE TO HOLD THE VEHICLE ON A HILL MAY CAUSE THE CLUTCH TO OVERHEAT.

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

TAKE ADVANTAGE OF THE ENGINE COMPRESSION AND SHIFT UP GEARS USING THE BRAKES ALTERNATIVELY.

NEVER RIDE WITH THE ENGINE OFF WHEN GOING DOWNHILL.

WHEN RIDING ON WET SURFACES OR WITH POOR GRIP (SNOW, ICE, MUD, ETC.) RIDE AT A MODERATE SPEED AVOIDING SUDDEN BRAKING OR MANOEUVRES THAT MAY LEAD TO LACK OF GRIP AND CONSEQUENTLY TO FALLS.



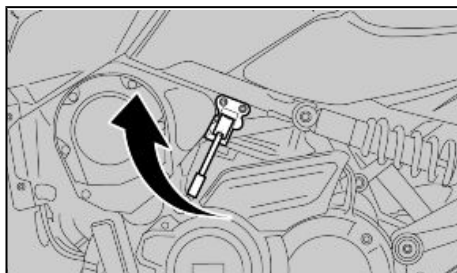
Stopping the engine (03_20)

- Release the throttle grip (**Pos.A**), gradually brake to slow down.

CAUTION



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



03_21

Parking (03_21)

It is very important to select an adequate parking spot, in compliance with road signals and the guidelines described below.

CAUTION

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

OPERATE THE PARKING LEVER ON THE LEFT SIDE OF THE VEHICLE BY PULLING IT UP.

DO NOT LEAN THE vehicle ON A WALL OR LAY IT ON THE GROUND.

MAKE SURE THE VEHICLE AND SPECIALLY ITS HOT PARTS DO NOT POSE ANY RISK TO PEOPLE OR CHILDREN. DO NOT LEAVE YOUR VEHICLE UNATTENDED WITH THE ENGINE ON OR THE KEY IN THE IGNITION SWITCH.

CAUTION

IF THE VEHICLE FALLS OR IS ON A STEEP INCLINE FUEL CAN LEAK.

FUEL USED TO DRIVE INTERNAL COMBUSTION ENGINES IS HIGHLY FLAMMABLE AND CAN BECOME EXPLOSIVE UNDER CERTAIN CONDITIONS.



DO NOT REST THE RIDER OR PASSENGER WEIGHT ON THE SIDE STAND.

Catalytic silencer

The vehicle has a silencer with a "platinum - palladium - rhodium three-way" metal catalytic converter.

This device oxidises the CO (carbon monoxide) producing carbon dioxide, and the UHC (unburned hydrocarbons) producing water vapour and reduces NOX (nitrogen oxide) producing oxygen and nitrogen present in the exhaust fumes.



DO NOT PARK THE VEHICLE NEAR DRY BRUSHWOOD OR IN PLACES EASILY ACCESSIBLE BY CHILDREN BECAUSE THE CATALYTIC CONVERTER REACHES HIGH TEMPERATURES DURING VEHICLE OPERATION; FOR THIS REASON, PAY UTMOST ATTENTION AND DO NOT TOUCH IT UNTIL IT HAS COMPLETELY COOLED DOWN.

DO NOT USE LEADED PETROL AS IT CAUSES IRREPARABLE DAMAGE TO THE CATALYTIC CONVERTER.

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

- the removal of any device or element belonging to a new vehicle 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 vehicle 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 you not an increase in exhaust noise, take your vehicle to an Official **Aprilia** Dealer at once.

NOTE

DO NOT TAMPER WITH THE EXHAUST SYSTEM.

Stand (03_22)

If the stand has been folded up for any manoeuvre (for example, when the vehicle is in motion), rest the vehicle on its stand again as follows:

- Select an appropriate parking spot.
- Grasp the left grip (1) and put the right hand on the upper rear part of the vehicle (2).
- Push the side stand with your right foot, and extend it completely (3).
- Lean the vehicle until the stand touches the ground.
- Turn the handlebar fully leftwards.
- Pull the parking lever.



MAKE SURE THAT THE GROUND ON WHICH THE MOTORCYCLE IS PARKED IS STABLE, EVEN AND FREE OF OBSTACLES.

CAUTION

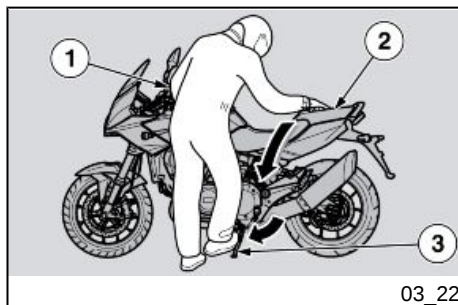


MAKE SURE THE VEHICLE IS STABLE.



BEFORE SETTING OFF, MAKE SURE THE STAND HAS BEEN COMPLETELY RETRACTED TO ITS POSITION.

DO NOT REST THE RIDER OR PASSENGER WEIGHT ON THE SIDE STAND.



03_22



Transmission (03_23, 03_24, 03_25, 03_26, 03_27, 03_28, 03_29, 03_30, 03_31, 03_32, 03_33, 03_34, 03_35, 03_36)

This vehicle has two main transmission activation modes.

- SEQUENTIAL
- AUTO-DRIVE

The rider shifts gears when in SEQUENTIAL mode.

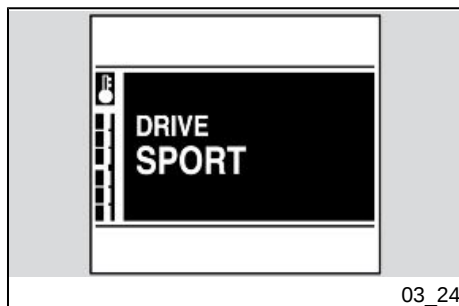
When in sequential mode, gears can be shifted by operating the handlebar controls or by the traditional pedal without the need to operate the clutch.

The foot gear selector is a traditional one, quick when sudden downshifting is required, mainly used in semiautomatic mode.

The buttons are quicker to operate and it is not necessary to decelerate when shifting. shifting gears is very quick.

When the gear is in sequential mode, the words SPORT GEAR and the gear number are displayed in the instrument panel.

The SPORT GEAR mapping has no power limits, and is suitable for sporting applications.



When in AUTO-DRIVE mode, gear shifting is automatic; riders only need to operate the throttle and the brakes.

Gear are shifted continuously, truly suitable for riding in the city or for tours.

When the transmission is in AUTO-DRIVE mode, another mode can be used when braking or decelerating: the SEMIAUTOMATIC mode. This mode can be used if the rider wishes to downshift several gears or wishes to have more engine braking when at an emergency braking or special manoeuvres.

When in AUTO-DRIVE mode, if the GEAR DOWN button is pressed, the mode changes to semiautomatic mode. In this case, besides the word DRIVE, the display also shows the gear.



When in semiautomatic mode, if the throttle control is not excessively twisted, it is possible to downshift by repeatedly pressing the GEAR DOWN button. When the operation is finished, the vehicle continues working in semiautomatic mode.

If you accelerate or press the GEAR UP button, the vehicle exits the semiautomatic mode and the gear indication is no longer displayed, and the bike goes back to AUTO-DRIVE mode.

The AUTO-DRIVE system has three different mappings:

- SPORT
- TOURING
- RAIN

The SPORT mode has the most advantages: the engine always runs at high revs, the gear shifting is quick and engine braking is maximum.

The TOURING mode has been designed for tourist purposes, with engine speeds lower than those in the "sport" mode, less vibration and lower consumption levels.

The RAIN mode is ideal for riding in the city and to maximise safety when riding on low-grip road surfaces. It is not an anti-skid system, but only one that allows smooth gear shifting to avoid jerks when setting off, managing power reduction delivered at low speeds.



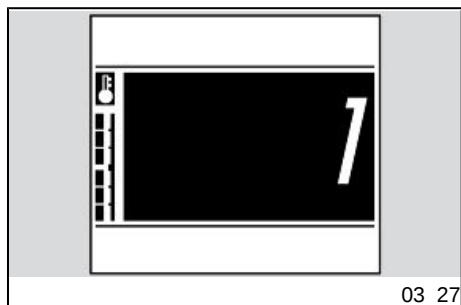
Shifting through the different modes and settings takes place by pressing the GEAR MODE button.

To change the transmission operation mode, press and hold the GEAR MODE button for more than 1 second.

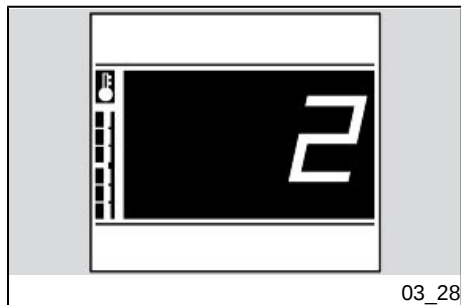
To change settings, press and hold the GEAR MODE button between 0.2 and 1 second.

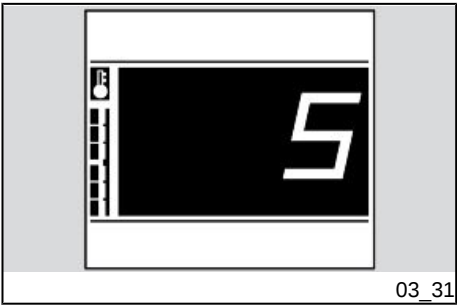
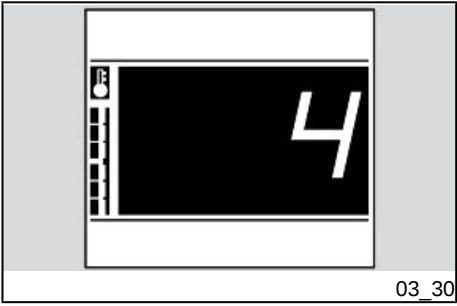
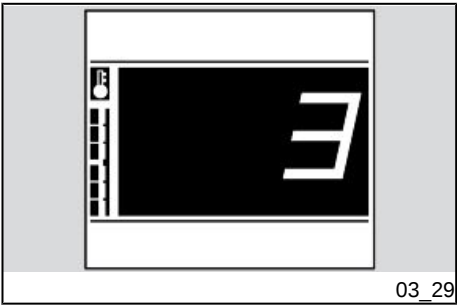
The setting and mode changing process is sequential.

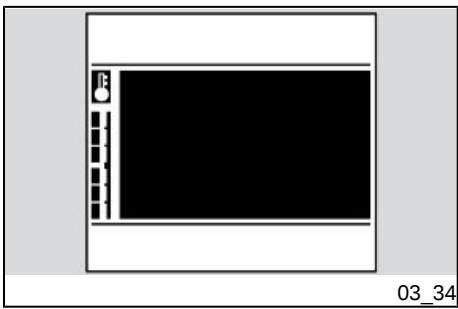
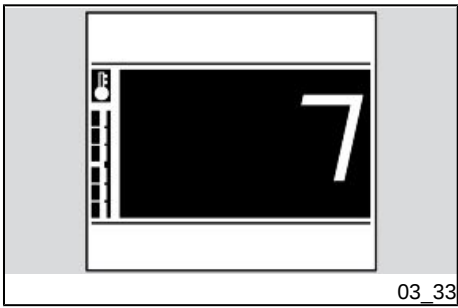
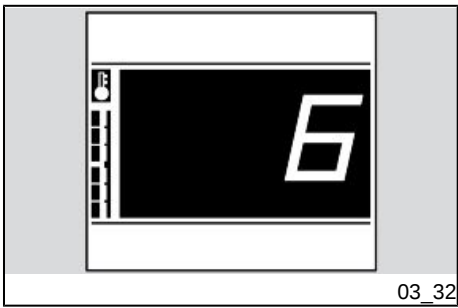
Particularly, changing settings in automatic mode takes place according to the following sequence:

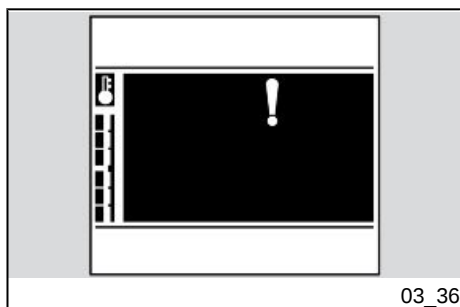
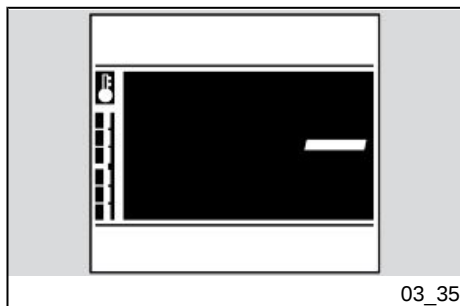


The actual gear engaged is shown in the central part of the display only in the SEQUENTIAL mode.









In SEQUENTIAL mode, when shifting in a not allowed condition is required, a "!" signal is displayed next to the gear.

Suggestion to prevent theft

CAUTION

WHEN USING A DISC LOCKING DEVICE, PAY UTMOST ATTENTION TO REMOVE IT BEFORE RIDING. FAILURE TO OBSERVE THIS WARNING MAY CAUSE SERIOUS DAMAGE TO THE BRAKING SYSTEM AND ACCIDENTS WITH CONSEQUENT PHYSICAL INJURIES OR EVEN DEATH.

NEVER leave the ignition key in the lock and always use the steering lock. Park the vehicle in a safe place such as a garage or a place with guards. Whenever possible, use an additional anti-theft device. Make sure all vehicle 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 vehicle retrieval after a theft.

LAST NAME:

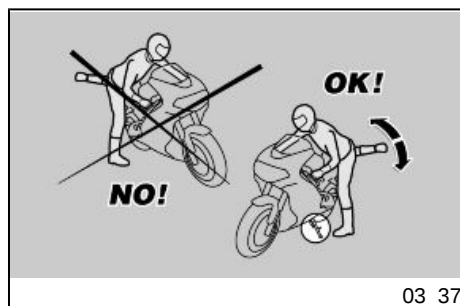
NAME:

ADDRESS:

TELEPHONE No:

WARNING

IN MANY CASES, STOLEN VEHICLES CAN BE IDENTIFIED BY DATA IN THE USE / MAINTENANCE BOOKLET



Basic safety rules (03_37, 03_38, 03_39, 03_40, 03_41)

Follow the instructions given below attentively to avoid injuring persons, damaging property or the vehicle in the event of the rider or the passenger falling off the vehicle and/or the vehicle falling or overturning.

When getting on and off the vehicle, make sure nothing is restricting your movements; do not hold any objects in your hands (helmet, gloves or goggles not put on).

Always get on and off the vehicle on the left side and with the side stand lowered.

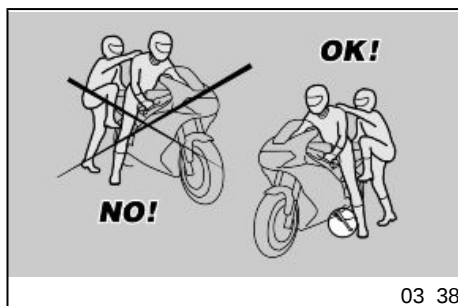
The stand has been designed to support the weight of the vehicle and a minimum load, without the added weight of rider and passenger.

The purpose of the side stand is to prevent the vehicle from falling or overturning while rider and passenger get on the vehicle and get ready to ride; the stand should not be used to support the weight of rider and passenger.

While getting on and off, the vehicle may become unstable due to its weight and it may fall or overturn.

CAUTION

THE RIDER MUST GET ON THE VEHICLE FIRST AND GET OFF LAST TO BE ABLE TO CONTROL AND BALANCE THE VEHICLE WHILE THE PASSENGER IS GETTING ON OR OFF THE VEHICLE.



When getting on and off the vehicle, the passenger must move carefully so as not to cause a loss of stability for vehicle and rider.

CAUTION

THE RIDER MUST INSTRUCT THE PASSENGER ON HOW TO GET ON AND OFF THE VEHICLE SAFELY.

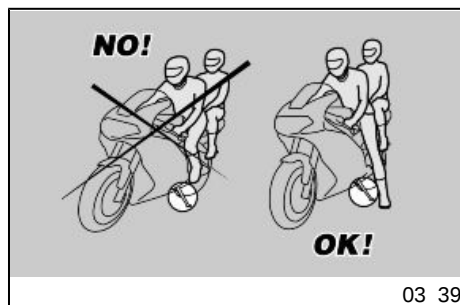
THE VEHICLE IS EQUIPPED WITH PASSENGER FOOTRESTS TO FACILITATE GETTING ON OR OFF THE VEHICLE. THE PASSENGER MUST ALWAYS USE THE LEFT FOOTREST TO GET ON AND OFF THE VEHICLE.

NEVER ATTEMPT TO GET OFF THE VEHICLE BY JUMPING OR STRETCHING YOUR LEG TO REACH THE GROUND. THESE ARE INCORRECT PROCEDURES THAT COMPROMISE VEHICLE STABILITY AND BALANCE.

CAUTION

ANY BAGS OR OBJECTS STRAPPED TO THE REAR OF THE VEHICLE CAN REPRESENT AN OBSTACLE WHILE GETTING ON AND OFF.

SWING YOUR RIGHT LEG OVER THE SEAT IN A CONTROLLED MOVEMENT SO AS NOT TO HIT THE REAR PART OF THE VEHICLE (TAIL FAIRING OR LUGGAGE) AND COMPROMISE STABILITY.



GETTING ON THE VEHICLE

- Grip the handlebar correctly and get on the vehicle without resting your weight on the side stand

CAUTION

IF YOU CAN NOT REACH THE GROUND WITH BOTH FEET WHEN SEATED, PLACE YOUR RIGHT FOOT ON THE GROUND (IF YOU LOSE BALANCE, THE SIDE STAND WILL PREVENT A FALL ON THE LEFT SIDE) AND BE READY TO PUT YOUR LEFT FOOT ON THE GROUND.



- Place both feet on the ground, straighten and balance the vehicle keeping it upright in riding position.

CAUTION

THE RIDER MUST NOT EXTRACT OR ATTEMPT TO EXTRACT THE PASSENGER FOOTRESTS WHILE SEATED, BECAUSE THIS MIGHT COMPROMISE VEHICLE STABILITY AND BALANCE.



- Have the passenger fold out the two passenger footrests.
- Give instructions as necessary to help the passenger mount the vehicle.
- Lift and retract the side stand completely with the left foot.

GETTING OFF THE VEHICLE

- Select an appropriate parking spot.
- Stop the vehicle.



MAKE SURE THAT THE GROUND ON WHICH THE MOTORCYCLE IS PARKED IS STABLE, EVEN AND FREE OF OBSTACLES.

- With the left shoe heel, lower and extend the side stand completely.

CAUTION

IF YOU CAN NOT REACH THE GROUND WITH BOTH FEET WHEN SEATED, PLACE YOUR RIGHT FOOT ON THE GROUND (IF YOU LOSE BALANCE, THE SIDE STAND WILL PREVENT A FALL ON THE LEFT SIDE) AND BE READY TO PUT YOUR LEFT FOOT ON THE GROUND.

- Place both feet on the ground and keep the vehicle balanced in the upright position.
- Give instructions as necessary to help the passenger dismount the vehicle.



RISK OF FALLING AND OVERTURNING.

MAKE SURE THE PASSENGER HAS GOT OFF THE VEHICLE.

DO NOT REST YOUR WEIGHT ON THE SIDE STAND.

- Lean the vehicle until the stand touches the ground.
- Grasp the handlebar firmly and get off the vehicle.
- Turn the handlebar fully leftwards.
- Fold up the passenger footrests.
- Pull the parking lever.

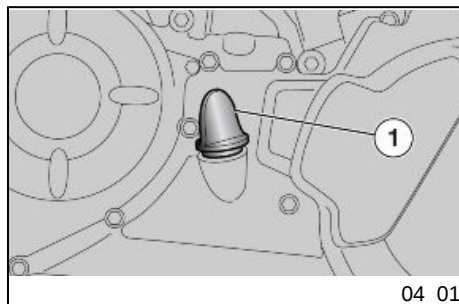
CAUTION

MAKE SURE THE VEHICLE IS STABLE.

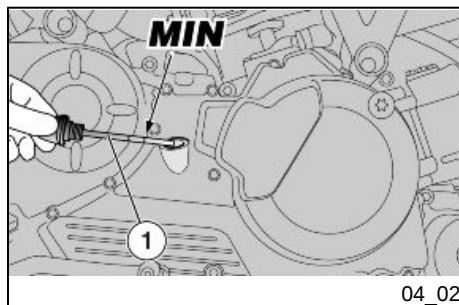
Mana GT ABS



Chap. 04
Maintenance



04_01



04_02

Engine oil level check (04_01, 04_02, 04_03)

Controllare periodicamente il livello olio motore.

NOTE

CARRY OUT MAINTENANCE OPERATIONS AT HALF THE INTERVALS SPECIFIED IF THE VEHICLE IS USED IN PARTICULAR RAINY OR DUSTY CONDITIONS, OFF ROAD OR FOR TRACK USE.

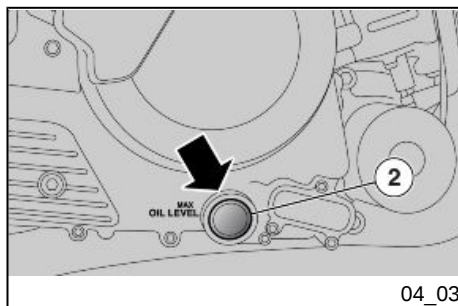
CAUTION

CHECK ENGINE OIL LEVEL WHEN THE ENGINE IS WARM, WITH THE VEHICLE PERFECTLY UPRIGHT, WITH BOTH WHEELS ON THE GROUND, ON A SOLID AND LEVEL SURFACE.

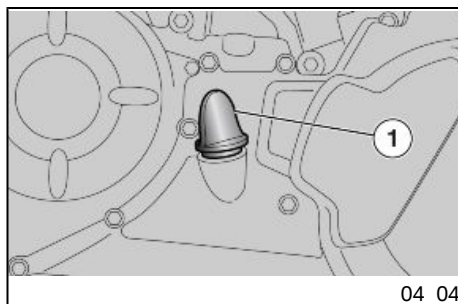
NOTE

PER RISCALDARE IL MOTORE E PORTARE L'OLIO MOTORE IN TEMPERATURA D'ESERCIZIO, NON LASCIARE FUNZIONARE IL MOTORE AL MINIMO DEI GIRI CON VEICOLO FERMO. LA PROCEDURA CORRETTA PREVEDE DI EFFETTUARE IL CONTROLLO DOPO UN VIAGGIO O DOPO AVER PERCORSO 10 mi (15 km) CIRCA SU UN PERCORSO EXTRAURBANO (SUFFICIENTI PER PORTARE IN TEMPERATURA L'OLIO MOTORE).

É IMPORTANTE MISURARE IL LIVELLO MINIMO OLIO MOTORE MEDIANTE L'ASTINA (1) ED IL LIVELLO MASSIMO OLIO MOTORE SULL'OBLO' (2) DEL CARTER.



- Shut off the engine.
- Keep the vehicle upright with both wheels on the ground.
- Unscrew and remove the filler cap (1) and check the oil level through the dipstick.
- The level should be above the minimum level marked on the cap-dipstick (1).
- Top up if the oil level is close to or below the reference mark on the dipstick.

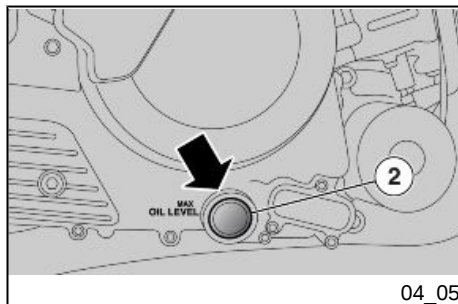


Engine oil top-up (04_04, 04_05)



TOP UP THE ENGINE OIL WHEN THE ENGINE IS WARM.

IN ORDER TO AVOID DAMAGING THE ENGINE, OIL LEVEL MUST NEVER EXCEED THE "MAX" MARK ON THE CRANKCASE OR DROP BELOW THE "MIN" MARK ON THE DIPSTICK.



Fill with engine oil as required:

- Unscrew and remove the cap (1).

When using a funnel or any other element, make sure it is perfectly clean.



DO NOT ADD ADDITIVES OR OTHER SUBSTANCES TO THE OIL.

NOTE**USE TOP QUALITY 5W - 40 OIL.**

- Top-up the oil in the reservoir until you reach the correct level.
 - Pour oil in small quantities and wait until it distributes in the engine.
 - Start the engine for some minutes.
 - Shut off the engine and wait some minutes before checking the level on the sight glass (2) of the right crankcase.
-
- The oil should reach the "MAX oil level" reference mark on the specific sight glass (2) on the right crankcase.

Engine oil change (04_06, 04_07, 04_08, 04_09)

CHANGING ENGINE OIL AND ENGINE OIL FILTER CAN PROVE DIFFICULT IF YOU ARE INEXPERIENCED.

CONTACT AN OFFICIAL APRILIA DEALER IF REQUIRED.

IF YOU WISH TO PERFORM THESE OPERATIONS YOURSELF, FOLLOW THESE INSTRUCTIONS.

Check the engine oil level frequently.

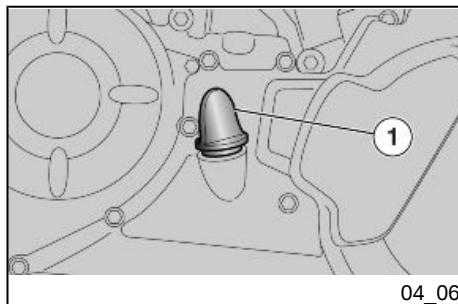
To change the oil:

CAUTION

HOT OIL IS MORE FLUID AND WILL DRAIN OUT MORE EASILY AND COMPLETELY; IDEAL TEMPERATURE IS REACHED AFTER THE ENGINE HAS RUN FOR ABOUT TWENTY MINUTES.



OIL BECOMES VERY HOT WHEN THE ENGINE IS HOT; BE CAREFUL NOT TO GET BURNED WHEN CARRYING OUT THE OPERATIONS DESCRIBED BELOW.



- Use a cloth to wipe off any mud deposit on the area next to the filler plug (1).
- Place a container with + 4000 cm³ (244 cu.in) capacity under the drainage plug (2).
- Unscrew and remove the drainage plug (2).
- Unscrew and remove the filler plug (1).
- Drain the oil into the container; allow several minutes for oil to drain out completely.
- Replace the sealing washer of the drainage plug and the O-ring of the cap (2).
- Screw and tighten the drainage plug (2) paying attention that the O-ring is adequately fitted so there are no oil leaks from the tank to the sump.

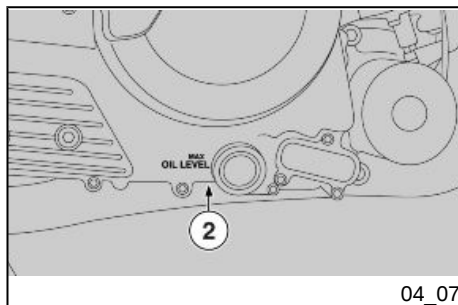
CAUTION

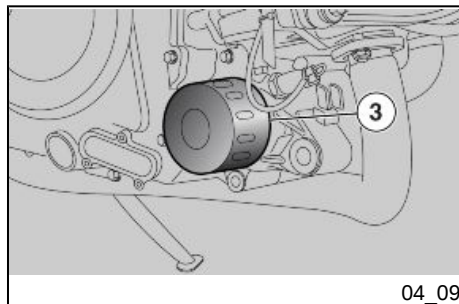
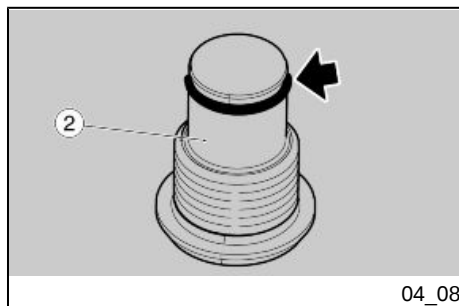
IF THE O-RING IS NOT CORRECTLY FITTED, THIS RESULTS IN LACK OF SEALING AND CAN CAUSE OIL LEVEL TO INCREASE IN THE SUMP IN STATIC CONDITIONS.

Locking torques (N*m)

Engine oil drainage plug - M16x1.5 (1)

21 - 29 Nm (15.49 - 21.39 lbf ft)





ENGINE OIL FILTER REPLACEMENT

- Replace the engine oil motor filter (3) at the intervals specified in the routine maintenance table.
- Remove the engine oil filter (3).

Never reuse an old filter.

- Screw the new engine oil filter (3).

Locking torques (N*m)

Engine oil filter (1)

16 Nm (11.80 lbf ft)

Tyres

This vehicle is fitted with tyres without inner tubes (Tubeless).



CHECK TYRE INFLATION PRESSURE REGULARLY AT AMBIENT TEMPERATURE.

MEASUREMENTS MAY BE INCORRECT IF TYRES ARE WARM.

CHECK PRESSURE MAINLY BEFORE AND AFTER LONG TRIPS.

IF THE TYRE PRESSURE IS TOO HIGH, UNEVENNESS IN THE ROAD SURFACE WILL NOT BE CUSHIONED AND WILL BE TRANSMITTED TO THE HANDLEBAR, RESULTING IN AN UNPLEASANTLY HARSH RIDE AND POOR ROAD HOLDING, ESPECIALLY WHEN CORNERING.

AN UNDERINFLATED TYRE, ON THE OTHER HAND, WILL EXTEND THE CONTACT PATCH TO INCLUDE A LARGER PORTION OF THE TYRE SIDEWALLS. WHEN THIS IS THE CASE, THE TYRE MIGHT SLIP ON OR BECOME DETACHED FROM THE WHEEL RIM, LEADING TO LOSS OF CONTROL OVER THE VEHICLE.

TYRES MAY EVEN DETACH FROM THE WHEEL RIMS UNDER VERY HARD BRAKING.

THE VEHICLE MAY EVEN SKID IN A BEND.

INSPECT TREAD SURFACE AND CHECK IT FOR WEAR. BADLY WORN TYRES MAY COMPROMISE TRACTION AND HANDLING.

REPLACE TYRES WHEN WORN OR IF THERE IS A PUNCTURE IN THE TREAD AREA BIGGER THAN 5 mm (0.197 in).

BALANCE WHEELS AFTER A TYRE IS MENDED. USE ONLY TYRE SIZES INDICATED BY THE MANUFACTURER.

CHECK THAT THE INFLATION VALVES HAVE THEIR CAPS FITTED TO AVOID UNEXPECTED FLAT TYRES. REPLACEMENT, REPAIR, MAINTENANCE AND BALANCING OPERATIONS ARE HIGHLY IMPORTANT AND SO THEY SHOULD BE CARRIED OUT USING THE SPECIFIC TOOLS AND WITH THE ADEQUATE KNOWLEDGE.

IT IS THEREFORE ESSENTIAL TO TAKE YOUR VEHICLE TO AN Official Aprilia Dealer OR SPECIALISED TYRE WORKSHOP TO CARRY OUT THE OPERATIONS ABOVE. NEW TYRES MAY BE COATED WITH A SLIPPERY COATING: RIDE WITH CAUTION DURING THE FIRST KILOMETRES. DO NOT APPLY UNSUITABLE LIQUIDS ON TYRES. WHEN TYRES ARE OLD, THE MATERIAL MAY HARDEN AND NOT PROVIDE ADEQUATE ROAD HOLDING, EVEN IF TYRES ARE STILL WITHIN THE WEAR LIMIT.

SHOULD THIS OCCUR, REPLACE THE TYRES.

Minimum tread depth:

front and rear 2 mm (0.079 in) (USA 3 mm - 0.118 in) or more if so required by applicable legislation in the country where the vehicle is used.

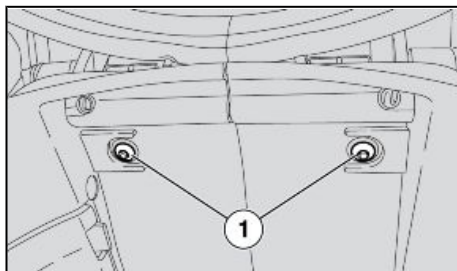
Spark plug dismantlement

- Working from both sides, remove the two spark plug tubes.
- With the specific supplied wrench, unscrew and remove the spark plugs (two per cylinder).

Removing the sides (04_10, 04_11, 04_12, 04_13, 04_14, 04_15)

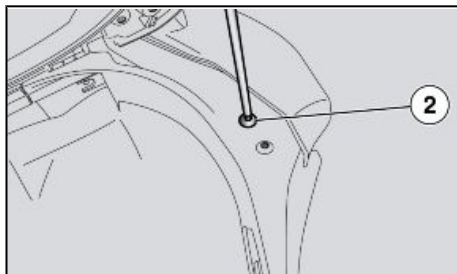
NOTE

THE FOLLOWING OPERATIONS REFER TO ONE SIDE OF THE VEHICLE, BUT APPLY TO BOTH SIDES.



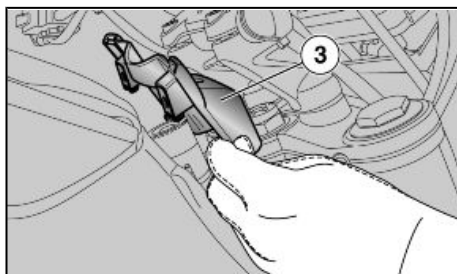
04_10

- Remove the windscreen.
- Remove the control panel.
- Open the helmet compartment.
- Undo and remove the two fixing screws for the steering lock protection (1) and collect the two washers.



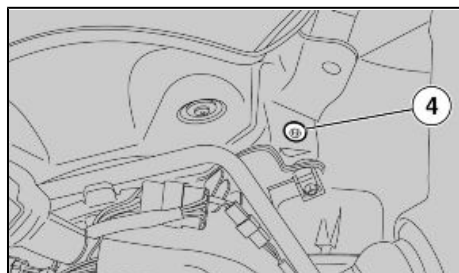
04_11

- Undo and remove the screw (2).



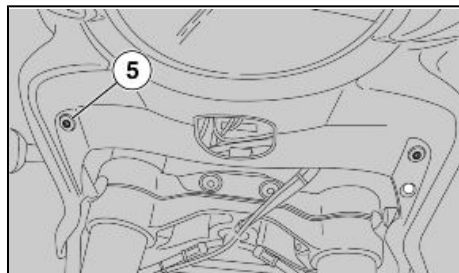
04_12

- Lower the helmet compartment.
- Remove the steering lock protection (3)



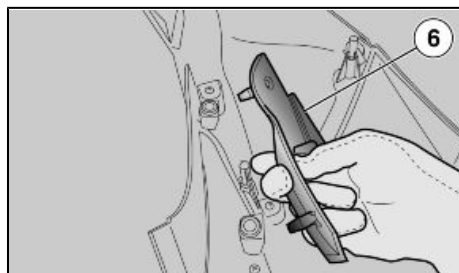
04_13

- Unscrew and remove the screw (4).



04_14

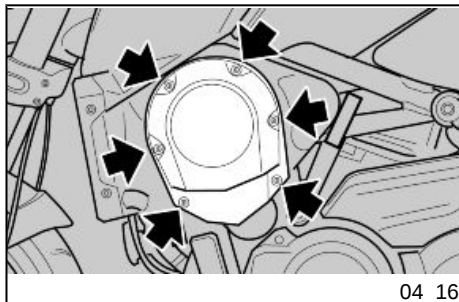
- Undo and remove the front lower screw (5).



04_15

- Release the snap-on front cowl (6) that is located on the inner side of the fairing.

- Disconnect the turn indicator connector.
- Remove the side fairing.

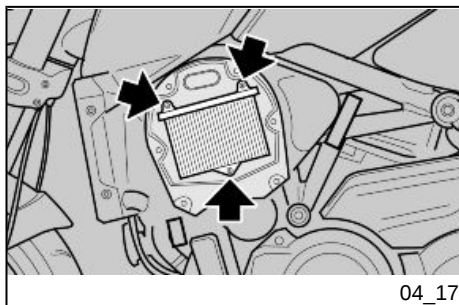


Removing the air filter (04_16, 04_17)

- Undo and remove the six screws fixing the filter casing cover.
- Remove the filter casing cover.
- Undo and remove the three screws fixing the air filter.
- Remove the air filter.



COVER THE HOLE WITH A CLEAN CLOTH SO THAT NO FOREIGN ELEMENTS GET INTO THE INLET DUCTS.



Cooling fluid level (04_18, 04_19)



DO NOT USE YOUR MOTORCYCLE IF THE COOLANT LEVEL IS BELOW THE MINIMUM LEVEL MARKED «MIN».

CAUTION



COOLANT IS TOXIC IF INGESTED; CONTACT WITH YOUR EYES OR SKIN MAY CAUSE IRRITATION. IF THE FLUID GETS IN CONTACT WITH THE EYES OR SKIN, RINSE REPEATEDLY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. IF SWALLOWED, INDUCE VOMITING, RINSE MOUTH AND THROAT WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE IMMEDIATELY.

CAUTION



TAKE CARE NOT TO POUR COOLANT ONTO HOT ENGINE OR EXHAUST SYSTEM COMPONENTS; THE FLUID MAY CATCH FIRE AND BURN WITH INVISIBLE FLAMES. WHEN CARRYING OUT MAINTENANCE OPERATIONS, IT IS ADVISABLE TO WEAR LATEX GLOVES. CONTACT AN Official APRILIA Dealer FOR REPLACEMENT.

DO NOT DISPOSE OF THE FLUID INTO THE ENVIRONMENT.

KEEP OUT OF THE REACH OF CHILDREN

DO NOT REMOVE THE COVER OF THE EXPANSION TANK (1) WHEN THE ENGINE IS HOT AS THE COOLANT IS UNDER PRESSURE AND AT A HIGH TEMPERATURE. CONTACT WITH SKIN OR CLOTHES MAY CAUSE SERIOUS BURNS AND/OR INJURIES.

NOTE

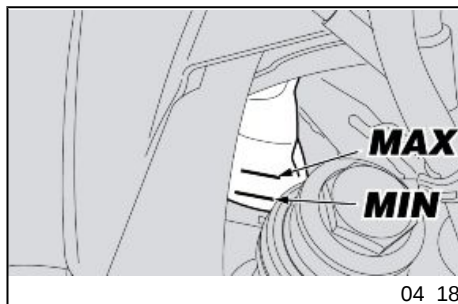
TAKE YOUR VEHICLE TO AN Official APRILIA Dealer TO HAVE THE COOLANT CHANGED.

WARNING

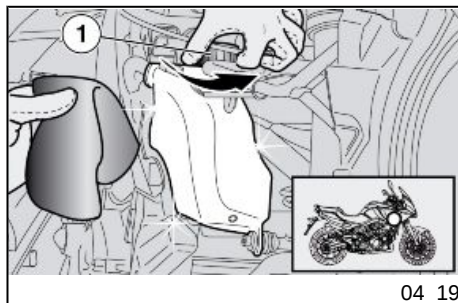
WAIT FOR THE ENGINE TO COOL DOWN BEFORE CHECKING OR TOPPING-UP THE COOLANT LEVEL.

CHECK AND TOPPING-UP

- Shut off the engine and wait until it cools off.
- Keep the vehicle upright and with the two wheels on the ground.
- Turn the handlebar to the left, keeping the vehicle upright.
- Make sure that the coolant level in the expansion tank is between the "MAX" ("MAX"= maximum level) and "MIN" ("MIN"= minimum level) reference marks

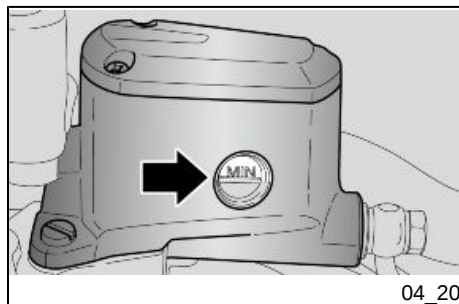
**Otherwise:**

- Remove the right side fairing.
- Remove the filler cap (1).
- Top-up with recommended coolant until the coolant level is near the "MAX" reference mark. Do not exceed this level or the coolant will spill out during engine operation.
- Refit and lock the filler cap (1).



CAUTION

IN THE EVENT OF COOLANT CONSUMPTION OR IF THE RESERVOIR IS EMPTY, CHECK FOR LEAKS IN THE CIRCUIT.

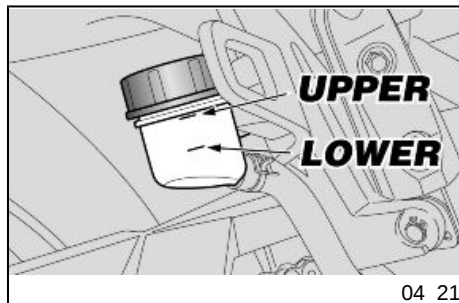


Checking the brake oil level (04_20, 04_21)

- For the front brake, rest the vehicle on its stand and turn the handlebar so that the fluid in the reservoir is parallel to the reservoir edge.
- Check that the fluid in the reservoir is above the "**MIN**" reference mark.
- For the rear brake, keep the vehicle upright and check that the fluid in the reservoir is parallel to the reservoir edge.
- Make sure that the fluid level in the reservoir is above the "**LOWER**" reference mark.

If the fluid does not reach at least the "**LOWER**" / " **MIN**" reference mark:

- Check brake pads and disc for wear.
- If the pads and/or the disc do not need replacing, top-up the fluid.

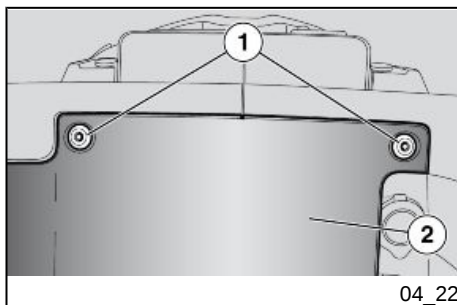


Braking system fluid top up

CAUTION

TO HAVE THE BRAKING SYSTEM FLUID TOPPED-UP, PLEASE CONTACT AN Official Aprilia Dealer. IF YOU ARE SUITABLY AND EXPERIENCED, FOLLOW THE INSTRUCTIONS IN THE WORKSHOP BOOKLET, WHICH IS AVAILABLE FROM ANY DEALER.

Battery removal (04_22, 04_23)



- Open the helmet compartment.
- Make sure that the ignition switch is set to "OFF".
- Undo and remove the two screws fixing the battery cover (1).
- Remove the battery cover (2).
- Unscrew and remove the screw (3) of the negative terminal (-).
- Move the negative lead (4) aside.
- Unscrew and remove the screw (5) of the positive terminal (+).
- Move the positive lead (6) aside.
- Hold the battery (7) firmly and lift it out of its compartment.
- Put the battery (7) away on a level surface in a cool and dry place.

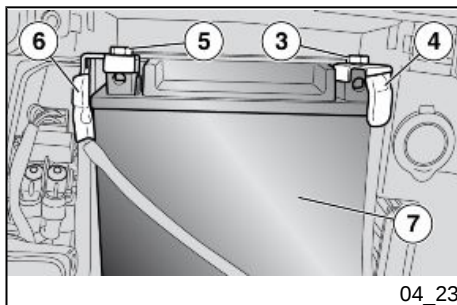
CAUTION

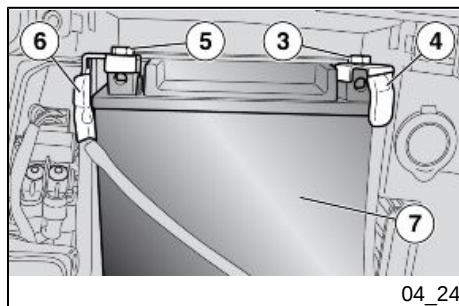
UPON REFITTING, CONNECT THE LEAD TO THE POSITIVE TERMINAL (+) FIRST AND AFTERWARDS THE LEAD TO THE NEGATIVE TERMINAL (-).



CHECK THAT THE BATTERY LEADS AND TERMINALS ARE:

- IN GOOD CONDITION (NOT CORRODED OR COVERED BY DEPOSITS);
- COVERED BY NEUTRAL GREASE OR PETROLEUM JELLY.





Use of a new battery (04_24, 04_25)

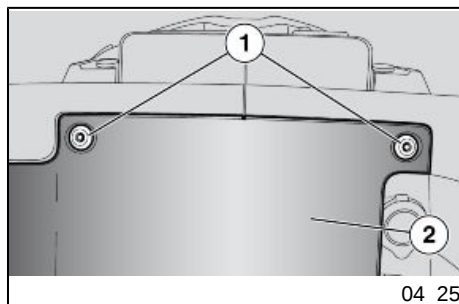


CHECK THAT THE BATTERY LEADS AND TERMINALS ARE:

- IN GOOD CONDITION (NOT CORRODED OR COVERED BY DEPOSITS);
- COVERED BY NEUTRAL GREASE OR PETROLEUM JELLY.

CAUTION

UPON REFITTING, CONNECT THE LEAD TO THE POSITIVE TERMINAL (+) FIRST AND AFTERWARDS THE LEAD TO THE NEGATIVE TERMINAL (-).



- If the helmet compartment was closed, open it.
- Place the battery (7) in its housing.
- Fasten the positive cable (6) to the positive terminal (+), tightening the screw (5).
- Fasten the negative cable (4) to the negative terminal (-), tightening the screw (3).
- Position the battery cover (2).
- Tighten the two fixing screws (1) for the battery cover.
- Close the helmet compartment.

Checking the electrolyte level

WARNING

THIS VEHICLE IS FITTED WITH A MAINTENANCE-FREE BATTERY AND DOES NOT NEED ANY INTERVENTION, EXCEPT FOR SPORADIC CHECKS AND RE-CHARGE.

Charging the battery

- Remove the battery.
- Get an adequate battery charger.
- Set the battery charger for the recharge type indicated.
- Connect the battery to the battery charger.

CAUTION



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

Switch on the battery charger.

Characteristic

RECHARGE MODES:

Recharge - Ordinary

Electric Current - 1.0 A

Time - 8-10 hours

Recharge - Fast

Electric Current - 10 A

Time - 0.5 hours

Long periods of inactivity



IF THE VEHICLE IS INACTIVE LONGER THAN TWENTY DAYS, DISCONNECT THE 30A AND 40A MAIN FUSES TO AVOID BATTERY DETERIORATION DUE TO CURRENT CONSUMPTION BY THE MULTIFUNCTION COMPUTER.

CAUTION

REMOVING THE 30A FUSE RESETS THESE FUNCTIONS: DIGITAL CLOCK, TRIP INFORMATION AND CHRONOMETER TIMES.

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

- Remove the battery.

In winter or when the vehicle is out of use for prolonged periods, check charge level frequently (about once a month) to prevent deterioration.

- Recharge it fully with an ordinary charge.

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

Fuses (04_26, 04_27, 04_28, 04_29, 04_30, 04_31)

Check fuses in case of failure or irregular functioning of an electrical component or engine starting failure.

First check the auxiliary fuses and then the main 30 and 40A fuses.

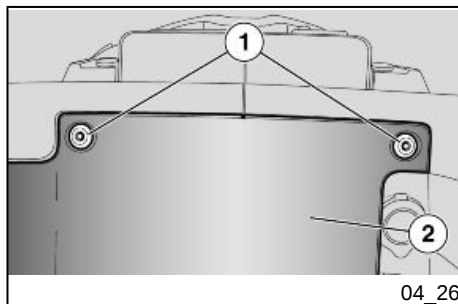
CAUTION

DO NOT REPAIR FAULTY FUSES.

NEVER USE A FUSE THAT IS DIFFERENT THAN WHAT IS SPECIFIED TO PREVENT DAMAGES TO THE ELECTRICAL SYSTEM OR SHORT CIRCUITS, WITH THE RISK OF FIRE.

CAUTION

A FUSE THAT BLOWS FREQUENTLY MAY INDICATE A SHORT CIRCUIT OR OVERLOAD. IF THIS OCCURS, CONSULT AN APRILIA Official Dealer.



To check:

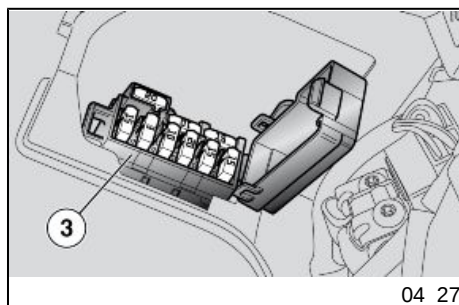
- Set the ignition switch to "OFF" to avoid an accidental short circuit.
- Open the helmet compartment.
- Undo and remove the two screws fixing the battery cover (2).
- Remove the battery cover (1).
- Open the cover of the auxiliary fuse box (3).
- Take out one fuse at a time and check whether the filament (4) is broken.
- Before replacing the fuse, find and solve, whenever possible, the problem that caused it to blow.
- If the fuse is damaged, replace it with one of the same amperage.
- To check the main fuses, carry out the same operations described above for auxiliary fuses.

NOTE

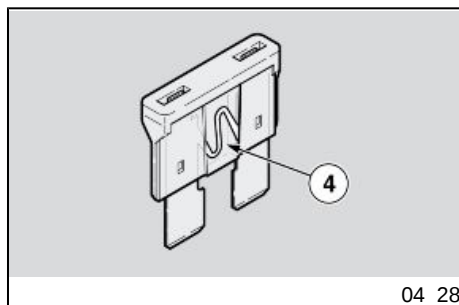
IF THE SPARE FUSE IS USED, REPLACE IT WITH ONE OF THE SAME TYPE IN THE CORRESPONDING FITTING.

CAUTION

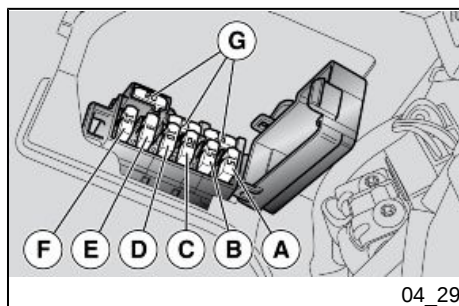
REMOVING THE 30A FUSE RESETS THESE FUNCTIONS: DIGITAL CLOCK, TRIP INFORMATION AND CHRONOMETER TIMES.



04_27



04_28



04_29

AUXILIARY FUSES

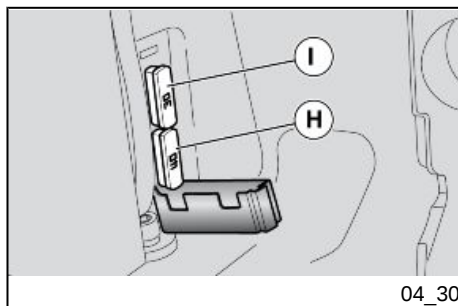
A - Tail lights, Stop lights, License plate light, Horn, Electric lock, Instrument panel power supply, Transmission ECU power supply, Resistance module (15A).

B - Low-/high-beam lights, Heated hand grips (OPT) (15 A).

C - Fuel pump, Coils, Injectors, Electric fan, Lambda probe, Start-up control relay (20A).

D - Injection load relay, Electric fan relay, Injection control unit power supply, Engine Stop (10A).

E - Injection control unit permanent power supply (3A).



F - Plug socket (15A).

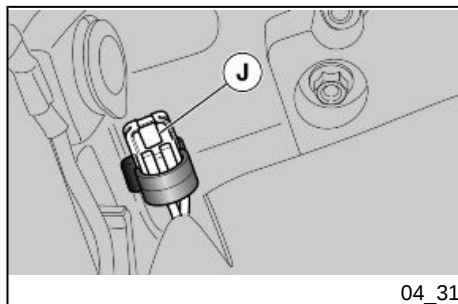
G - Spare fuses (10 - 15 - 20A).

MAIN FUSES

H - Instrument panel, Turn indicators, Glove-box light, Injection main relay (30A).

E - Transmission ECU permanent power supply (40A).

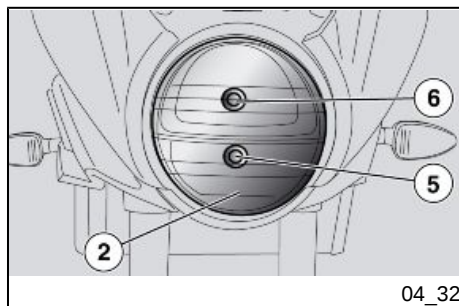
THE 30A SPARE FUSE IS IN THE TOOLKIT BOX.



ABS FUSE

The ABS fuse is placed inside the helmet compartment.

J - ABS fuse (20 A)



04_32

Lamps (04_32, 04_33, 04_34, 04_35, 04_36)

CAUTION



BEFORE REPLACING A BULB, TURN THE IGNITION SWITCH TO «KEY 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.

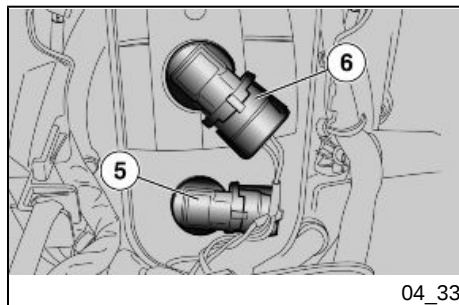
DO NOT LEAVE PRINTS ON THE BULB AS THIS MAY CAUSE IT TO OVERHEAT OR EVEN BLOW OUT. IF YOU TOUCH THE BULB WITHOUT WEARING GLOVES, CLEAN OFF PRINTS WITH ALCOHOL TO AVOID DAMAGING THE BULB.

DO NOT FORCE ELECTRICAL CABLES.

BULB LAYOUT

In the front headlight there are:

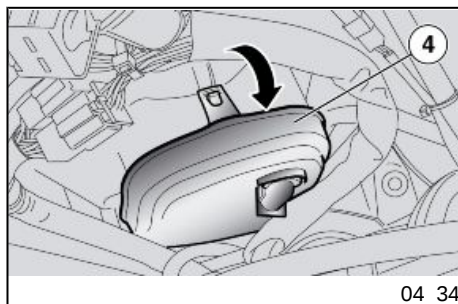
- one low-beam light bulb (6)
- one high-beam light bulb (5)
- one tail light bulb (2)



04_33

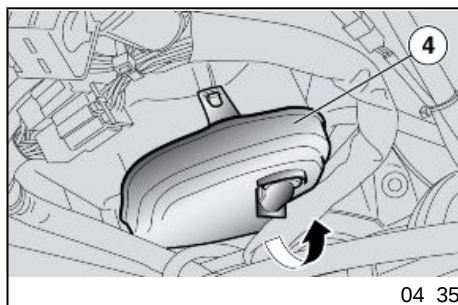
HIGH/LOW-BEAM BULB REPLACEMENT

- Remove the windscreen.
- Remove the control panel.



LOW-BEAM LIGHT BULB

- Release the top of the cover (4).
- Hold the bulb holder, turn and remove it.
- Pull the bulb out of the bulb holder.
- Install a bulb of the same type adequately.

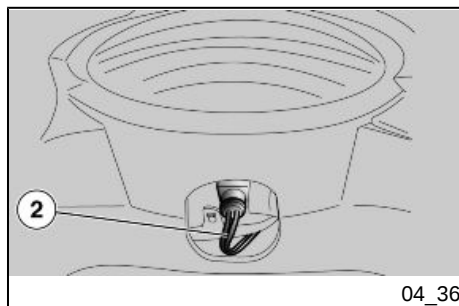


HIGH-BEAM LIGHT BULB

- Release the bottom of the cover (4).
- Hold the bulb holder, turn and remove it.
- Pull the bulb out of the bulb holder.
- Install a bulb of the same type adequately.

CAUTION

INSERT THE BULB IN THE BULB HOLDER AND PLACE IT IN ITS SEAT, MAKING SURE THE REFERENCE FITTINGS MATCH.



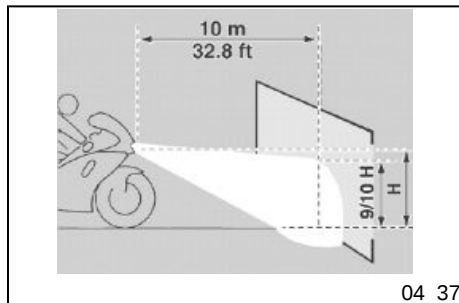
04_36

TAIL LIGHT BULBS

- Hold the position light bulb holder from the specific hole on the lower side of the shield, pull it out from its seat.
- Remove the tail light bulb (2) and replace it with another of the same type.
- Check the proper insertion of the bulb in the bulb holder.

CAUTION

CAREFULLY REMOVE THE POSITION LIGHT BULB HOLDER WITHOUT PULLING ON THE ELECTRIC WIRES.

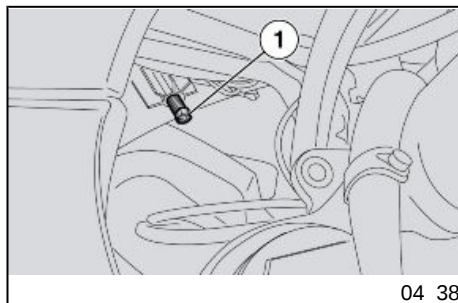


04_37

Headlight adjustment (04_37, 04_38)

NOTE

IN COMPLIANCE WITH LOCAL LEGISLATION, SPECIFIC PROCEDURES MUST BE FOLLOWED WHEN ALIGNING THE LIGHTS.



04_38

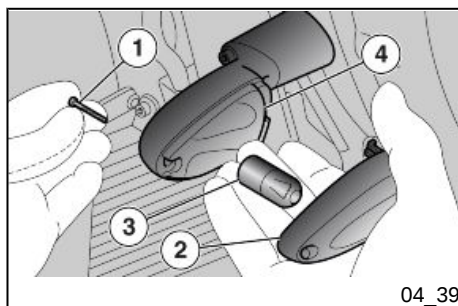
EU: For a quick check of the correct direction of the front light beam, place the vehicle ten metres from a vertical wall and make sure the ground is level. Turn on the low-beam light, sit on the vehicle and check that the light beam projected to the wall is a little below the headlight horizontal straight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

In order to carry out vertical adjustment of the light beam:

- Rest the vehicle on its stand.
- Working from the left side of the front headlight, use a short crosshead screwdriver on the specific screw (1). **SCREW** it (clockwise) to raise the light beams; **UNDO** the screw (anticlockwise) to lower the light beam.

NOTE

CHECK THAT THE LIGHT BEAM VERTICAL DIRECTION IS CORRECT.



04_39

Front direction indicators (04_39)

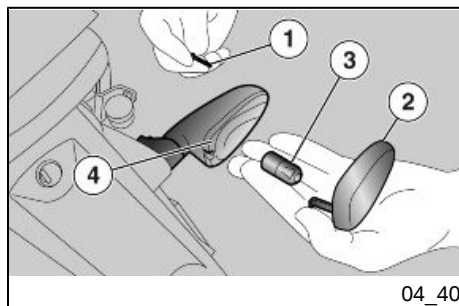
- Rest the vehicle on its stand.
- Loosen and remove screw (1).
- Remove glass (2).
- Press bulb (3) slightly and turn it anticlockwise.
- Pull the bulb (3) out of its fitting.
- Insert a bulb of the same type adequately.

WARNING

IF PARABOLE (4) STICKS OUT OF ITS FITTING, INSERT IT AGAIN PROPERLY.

Rear optical unit

This vehicle has a LED rear headlamp; have it replaced at an **official aprilia Dealer**.

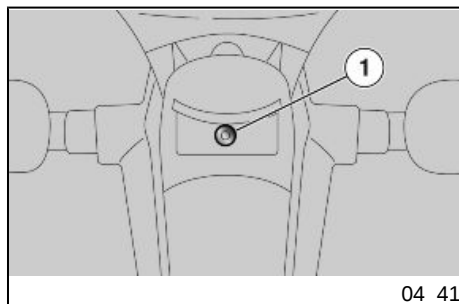


Rear turn indicators (04_40)

- Rest the vehicle on its stand.
- Loosen and remove screw (1).
- Remove glass (2).
- Press bulb (3) slightly and turn it anticlockwise.
- Pull the bulb (3) out of its fitting.
- Insert a bulb of the same type adequately.

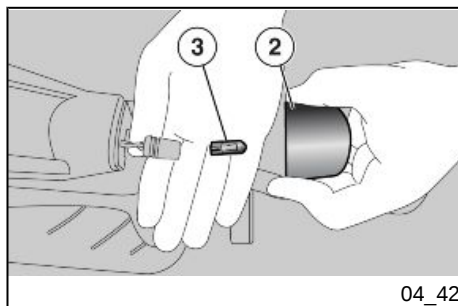
WARNING

IF PARABOLE (4) STICKS OUT OF ITS FITTING, INSERT IT AGAIN PROPERLY.

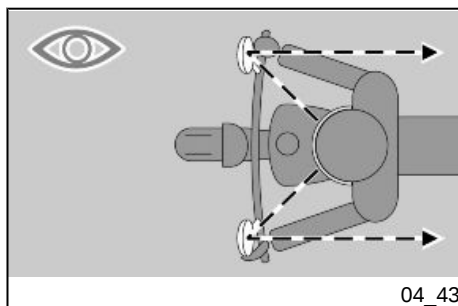


Number plate light (04_41, 04_42)

- Rest the vehicle on its stand.
- Unscrew and remove the fixing screw (1) and collect the nut.



- Take out the glass of the license plate light (2).
- Remove the bulb (3) and replace it with another of the same type.

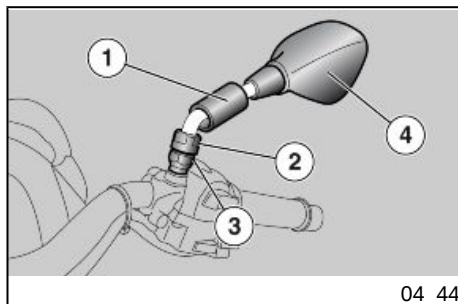


Rear-view mirrors (04_43, 04_44)

- Park the vehicle on its centre stand on safe and level ground.
- Move the protection casing (1).



HOLD THE REAR-VIEW MIRROR (4) TO AVOID DROPPING IT BY ACCIDENT.



- Keep the screw (2) blocked and completely unscrew the nut (3).



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

- Remove the rear-view mirror (4).

CAUTION

REPEAT THE PROCEDURE TO REMOVE THE OTHER MIRROR.



AFTER REFITTING, ADJUST THE REAR-VIEW MIRRORS CORRECTLY AND TIGHTEN THE NUTS IN ORDER TO ENSURE STABILITY.

After refitting:

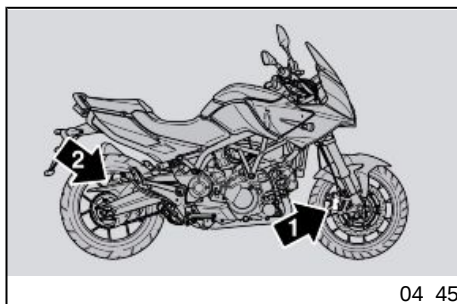
- Adjust the rear-view mirror angle correctly.

Front and rear disc brake (04_45, 04_46, 04_47)

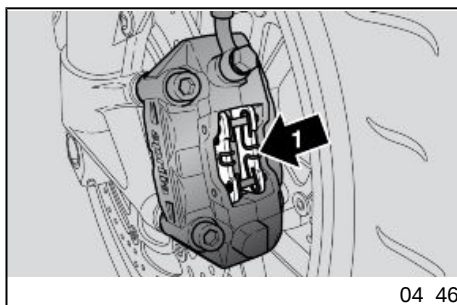
CAUTION



CHECK BRAKE PADS FOR WEAR MAINLY BEFORE EACH RIDE.



04_45



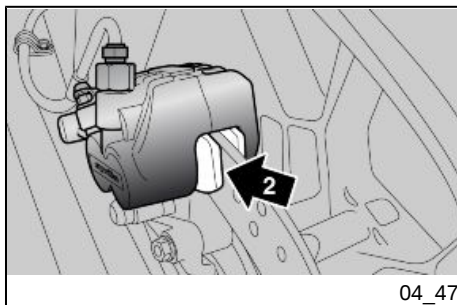
04_46

To perform a quick pad wear check:

- Rest the vehicle on its stand.
- Carry out a visual inspection of brake disc and pads as follows:
 - look from the back, for the front brake callipers (1);
 - on the right side of the vehicle, look from above downwards, for the rear brake calliper (2).

CAUTION

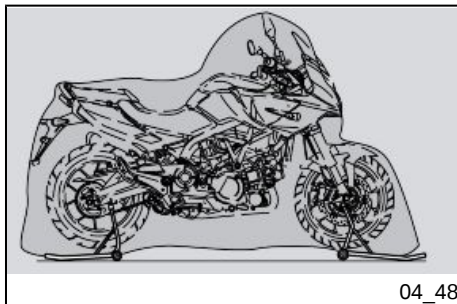
EXCESSIVE WEAR OF THE FRICTION MATERIAL MAKES THE PAD METAL SUPPORT GET INTO CONTACT WITH THE DISC, WHICH RESULTS IN A METALLIC NOISE AND SPARKS IN THE CALLIPER; THEREFORE, BRAKING EFFICIENCY AND DISC SAFETY AND INTEGRITY ARE AT RISK.



04_47

If the friction material thickness (even of one front or rear pad) is reduced to a value of about **1.5 mm (0.06 in)** (or even if one of the wear indicators is not very visible), contact an Official **Aprilia** Dealer to have all the calliper pads replaced.

Periods of inactivity (04_48)



04_48

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 motorcycle as one can forget to do so afterwards.

Proceed as follows:

- Remove the battery.
- Wash and dry the vehicle.
- Polish the painted surfaces.
- Inflate the tyres.
- Set the vehicle in a room with no heating or humidity, with minimum temperature variations and not exposed to sun rays.
- Wrap and tie a plastic bag around the exhaust pipe opening to keep moisture out.

NOTE

PLACE A SUITABLE SUPPORT UNDER THE VEHICLE TO KEEP BOTH WHEELS OFF THE GROUND.

- Put the vehicle on the front stand (optional) and on the back stand (optional).
- Cover the vehicle (do not use plastic or waterproof materials).

After storage

NOTE

TAKE THE PLASTIC BAGS OFF THE EXHAUST PIPE OPENING.

- Uncover and clean the vehicle.
- Check the battery for correct charge and install it.
- Refill the fuel tank.
- Carry out the pre-ride checks.

CAUTION

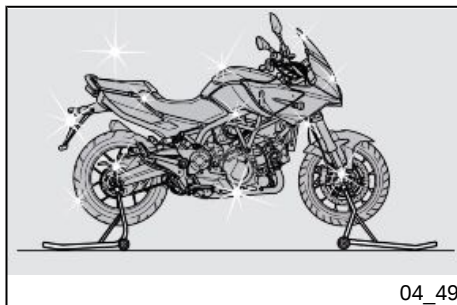


TEST RIDE THE VEHICLE AT MODERATE SPEED FOR A FEW KILOMETRES IN AN AREA AWAY FROM TRAFFIC.

Cleaning the vehicle (04_49, 04_50, 04_51)

Clean the motorcycle frequently if exposed to adverse conditions, such as:

- Air pollution (cities and industrial areas).
- Salinity and humidity in the atmosphere (seashore areas, hot and wet weather).
- Special environmental/seasonal conditions (use of salt, anti-icing chemical products on the roads in winter).
- Always clean off any smog and pollution residue, tar stains, insects, bird droppings, etc. from the bodywork.



04_49

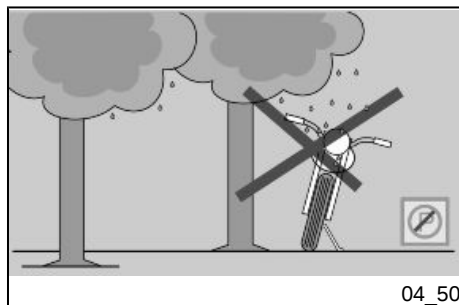
- Avoid parking the vehicle under trees. During some seasons, resins, fruits or leaves containing aggressive chemical substances that may damage the paintwork may fall from trees.
- Clean the instrument panel with a soft, damp cloth.

CAUTION

BEFORE WASHING THE VEHICLE, COVER THE ENGINE AIR INTAKES AND THE EXHAUST PIPES.

CAUTION

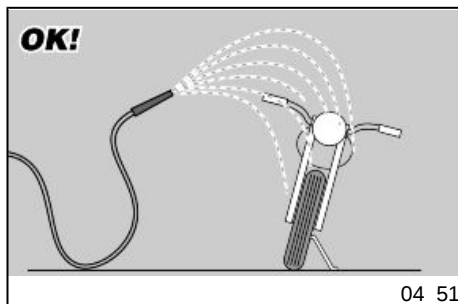
AFTER CLEANING YOUR MOTORCYCLE, BRAKING EFFICIENCY MAY BE TEMPORARILY AFFECTED DUE TO THE PRESENCE OF WATER ON THE FRICTION SURFACES OF THE BRAKING CIRCUIT. ALLOW LONGER BRAKING DISTANCES TO PREVENT ACCIDENTS. BRAKE REPEATEDLY TO RESTORE NORMAL OPERATION. CARRY OUT THE PRE-RIDE CHECKS.



To clean off dirt and mud deposited from painted surfaces, soften caked dirt with a low-pressure water jet. Sponge off using a car body sponge soaked in a car body shampoo and water solution (2 - 4% parts of shampoo in water). Then rinse with plenty of water, and dry with a chamois leather. To clean the engine outer parts, use degreasing detergent, brushes and old cloths. Anodised or painted aluminium parts such as forks, wheel rims, frame, footrests etc. should be washed using water and mild soap. Using aggressive detergents may damage the surface treatment of these components.



TO CLEAN THE HEADLIGHTS USE A SPONGE SOAKED IN WATER AND MILD DETERGENT, RUBBING THE SURFACE GENTLY AND RINSING FREQUENTLY WITH PLENTY OF WATER. REMEMBER TO CLEAN THE VEHICLE CAREFULLY



BEFORE APPLYING SILICON WAX POLISH. DO NOT POLISH MATT-PAINTED SURFACES WITH POLISHING PASTE. THE VEHICLE SHOULD NEVER BE WASHED IN DIRECT SUNLIGHT, ESPECIALLY DURING SUMMER, OR WITH THE BODYWORK STILL HOT AS THE CAR SHAMPOO CAN DAMAGE THE PAINT-WORK IF IT DRIES BEFORE BEING RINSED OFF.

CAUTION



DO NOT USE WATER (OR LIQUIDS) AT TEMPERATURES OVER 40°C (104°F) WHEN CLEANING THE VEHICLE PLASTIC PARTS. DO NOT AIM HIGH PRESSURE AIR/WATER JETS OR STEAM JETS DIRECTLY TO THE FOLLOWING PARTS: WHEEL HUBS, CONTROLS ON THE RIGHT AND LEFT SIDE OF THE HANDLEBAR, BEARINGS, BRAKE PUMPS, INSTRUMENTS AND GAUGES, EXHAUST SILENCER, IGNITION SWITCH/STEERING LOCK. DO NOT USE ALCOHOL OR SOLVENTS TO CLEAN ANY RUBBER OR PLASTIC SADDLE COMPONENTS: USE WATER AND MILD SOAP.

CAUTION

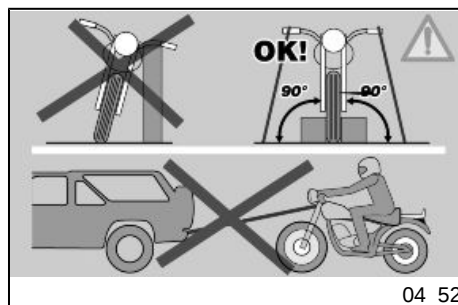
DO NOT USE SOLVENTS OR PETROL BY-PRODUCTS (ACETONE, TRICHLOROETHYLENE, TURPENTINE, PETROL, THINNERS) TO CLEAN THE SADDLE. USE INSTEAD DETERGENTS WITH SURFACE ACTIVE AGENTS NOT EXCEEDING 5% (NEUTRAL SOAP, DEGREASING DETERGENTS OR ALCOHOL).

DRY THE SADDLE WELL AFTER CLEANING.

CAUTION



DO NOT APPLY PROTECTIVE WAX ON THE SADDLE AS IT MAY BECOME SLIPPERY.



04_52

Transport (04_52)

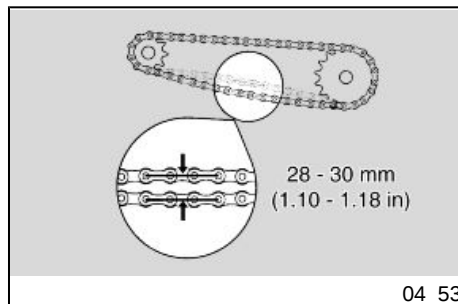
NOTE



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

DURING TRANSPORT, THE VEHICLE SHOULD BE UPRIGHT AND SECURELY ANCHORED AND SHOULD HAVE THE FIRST GEAR ENGAGED SO AS TO AVOID POSSIBLE FUEL, OIL OR COOLANT LEAKS.

IN CASE OF FAILURE, DO NOT TOW THE VEHICLE BUT CONTACT A ROAD ASSISTANCE SERVICE INSTEAD TO HAVE THE INFLAMMABLE FLUIDS DRAINED .



04_53

Chain backlash check (04_53)

To check the clearance:

- Stop the engine.
- Rest the vehicle on its stand.
- Check that the vertical oscillation at a point between the pinion and the crown on the lower branch of the chain is approx. **28 - 30 mm (1.10 - 1.18 in)**.
- Move the vehicle forward so as to check the chain vertical oscillation in other positions too. backlash should remain constant during all wheel rotation phases.

Adjust backlash if it is uniform but higher or lower than **28 - 30 mm (1.10 - 1.18 in)**.

CAUTION

IF CLEARANCE IS GREATER AT SOME POSITIONS, THIS MEANS THAT SOME CHAIN LINKS ARE FLATTENED OR JAMMED.

TO AVOID RISK OF SEIZURE, LUBRICATE THE CHAIN ON A REGULAR BASIS.

Chain backlash adjustment

CAUTION

TO ADJUST THE CHAIN BACKLASH, PLEASE CONTACT AN Official Aprilia Dealer. IF YOU ARE ADEQUATELY TRAINED AND EXPERIENCED, REFER TO THE INSTRUCTIONS IN THIS WORKSHOP BOOKLET AVAILABLE ALSO AT ANY DEALER.

Checking wear of chain, front and rear sprockets

Also check the following parts and make sure that the chain, pinion and sprocket do not have:

- Damaged rollers.
- Loosened pins.
- Dry, rusty, flattened or jammed chain links.
- Excessive wear.
- Missing sealing rings.
- Excessively worn or damaged pinion or sprocket teeth.

CAUTION

IF THE CHAIN ROLLERS ARE DAMAGED, THE PINS ARE LOOSENEED AND/OR THE SEAL RINGS ARE MISSING OR DAMAGED, THE WHOLE CHAIN APPARATUS (PINION, SPROCKET AND CHAIN) SHOULD BE REPLACED.

CAUTION

LUBRICATE THE CHAIN ON A REGULAR BASIS, PARTICULARLY IF YOU FIND DRY OR RUSTY PARTS. FLATTENED OR JAMMED CHAIN LINKS SHOULD BE

LUBRICATED AND GOOD OPERATING CONDITIONS RESTORED. IF REPAIR IS NOT POSSIBLE, CONTACT AN Official Aprilia Dealer TO HAVE IT REPLACED.

Chain lubrication and cleaning

Never wash the chain with high pressure air/water jets or steam jets or highly flammable solvents.

- Wash the chain with fuel oil or kerosene. Maintenance operations should be more frequent if there are signs of quick rust.

Lubricate the chain whenever necessary.

- After washing and drying the chain, lubricate it with spray grease for sealed chains.



THE TRANSMISSION CHAIN HAS RUBBER O-RINGS BETWEEN THE SIDE PLATES OF THE CHAIN ITSELF THAT ARE USED TO HOLD THE GREASE. UT-MOST ATTENTION IS REQUIRED WHEN ADJUSTING, LUBRICATING, WASHING OR REPLACING THE CHAIN.

CHAIN LUBRICANTS AVAILABLE ON THE MARKET CAN CONTAIN SUBSTANCES THAT DAMAGE THE CHAIN'S RUBBER O-RINGS.

NEVER USE THE VEHICLE JUST AFTER LUBRICATING THE CHAIN, AS THE LUBRICANT WOULD BE SPRAYED OUTWARD AND SPREAD OUT IN THE SURROUNDING AREA.

Mana GT ABS



Chap. 05
Technical data

DIMENSIONS

Max. length	2180 mm (85.83 in)
Max. width	800 mm (31.50 in)
Max. height	1350 mm (53.15 in) (with the windscreen adjusted in the top position)
Saddle height	810 mm (31.89 in)
Wheelbase	1465 mm (57.68 in)
Kerb weight (full fuel tank)	238 kg (524 lb)

ENGINE

Model	M290 Duel
Type	90° longitudinal V-twin, 4-stroke, 4 valves per cylinder, single overhead camshaft.
No. of cylinders	2
Overall cylinder capacity	839.3 cm ³ (51.22 cu.in)
Bore / stroke	88 x 69 mm (3.46 x 2.72 in)

Valve clearance	Inlet: 0.15 mm (0.0059 in) Outlet: 0.15 mm (0.0059 in)
Compression ratio	10 - 10.6 : 1
Electric	Electric starter
Engine idle speed	1400 ± 100 rpm
Clutch	Automatic
Lubrication system	Dry sump system with separate oil tank
Air filter	With dry cartridge filter
Cooling	Forced-circulation coolant system.

GEARBOX

Type	aprilia sport gear with electrically-controlled variator, double mode: sequential and autodrive
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CAPACITY

Fuel (reserve included)	16 l (3.52 UKgal; 4.23 USgal)
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Fuel reserve	3.3 l (0.73 UKgal; 0.87 USgal)
engine oil	2.5 l (without oil filter change) (0.55 UKgal; 0.66 USgal) 2.6 l (with oil filter change) (0.57 UKgal; 0.69 USgal)
Coolant	2.5 l (0.55 UK gal; 0.66 USgal)
Seats	2
Vehicle max. load (rider + passenger + luggage)	210 kg (463 lb)

GEAR RATIO

Primary drive gear ratio	Belt primary drive (2.079 - 0.831)
Secondary drive gear ratio	Gear secondary drive (23/59)
Final drive gear ratio	18/40

DRIVE CHAIN

Type	Endless (without master link) and with sealed links. No. of links 100
Model	525 ZRPK

FUEL SYSTEM

Type	Electronic injection (Multipoint)
Throttle diameter	38 mm (1.50 in)
Fuel	Premium unleaded petrol, minimum octane rating 95 (NORM) and 85 (NOMM)

CHASSIS

Type	High strength steel tubular perimeter frame.
Steering inclination angle	24°
Trail	103 mm (4.05 in)

SUSPENSIONS

Front	Upside-down hydraulic action telescopic fork, Ø 43 mm (1.69 in) stems
Travel	120 mm (4.72 in)

Rear	Oscillating swingarm and adjustable hydraulic single shock absorber
Wheel travel	120 mm (4.72 in)

BRAKES

Front	Double floating disc, Ø 320 mm (12.60 in), radially-mounted callipers with four plungers- two of them Ø 27 mm (1.06 in), 2 diam. 32.03 mm (1.26 in) and 4 pads
Rear	Ø 260 mm (10.24 in) disc brake, Ø 25 mm (0.98 in) twin-plunger calliper

WHEEL RIMS

Type	Light alloy rims with extractable bolt
Front	3.50 x 17"
Rear	6.00 x 17"

TYRES

Tyre type (standard)	DUNLOP SPORTMAX QUALIFIER - PIRELLI SCORPION SYNC
Front	120/70 ZR17" (58W)
Inflation pressure	1 passenger: 2.3 bar (230 kPa) (33.36 PSI) 2 passengers: 2.5 bar (250 kPa) (36.26 PSI)
Rear	180/55 ZR17" (73W)
Inflation pressure	1 passenger: 2.5 bar (250 kPa) (36.26 PSI) 2 passengers: 2.8 bar (280 kPa) (40.61 PSI)

SPARK PLUGS

Standard spark plugs	NGK CR7EKB
Spark plug electrode gap	0.6 - 0.7 mm (0.024 - 0.028 in)
Resistance	5 kOhm

ELECTRICAL SYSTEM

Battery	12V - 12 Ah
Main fuses	30A - 40A
Secondary fuses	3A, 10A, 15A, 20A
ABS fuses	20 A
Alternator (permanent magnet type)	13.5 V - 450 W at 6000 rpm
Electric	Electric starter
Ignition	Electronic, inductive, high-efficiency, integrated with the injection system, with variable advance separate HV coil.
Ignition advance	Three-dimensional map managed by control unit

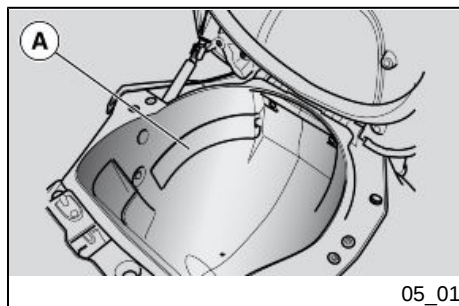
BULBS

Low-beam light	12 V - 55 W H11
High-beam light	12 V - 55 W H11
Front daylight running light	12V - 5W
Turn indicator light	12V - 10W
License plate light	12V - 5W

Rear daylight running light / stop light	LED
Rpm indicator lighting	LED
Multifunction display lighting	LED

WARNING LIGHTS

High beam light	LED
Right turn indicator	LED
Left turn indicator	LED
General warning	LED
Fuel reserve	LED
RPM 1	LED
RPM 2	LED
RPM 3	LED
RPM 4	LED



05_01

Kit equipment (05_01, 05_02)

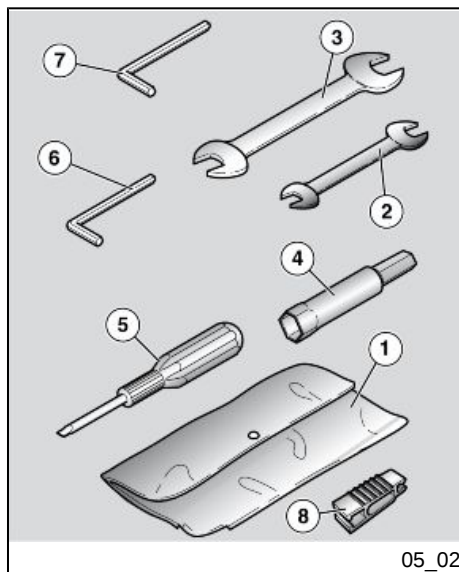
To reach the tool kit it is necessary to:

- Open the helmet compartment
- Remove the cover (A).

The tools supplied are:

- Toolkit pouch (1);
- One 8 - 10 mm (0.31 - 0.39 in) double open ended spanner (2);
- One 11 - 13 mm (0.43 - 0.51 in) double open ended spanner (3);
- One 16-mm (0.63 - in) box-spanner with 13 mm (0.52 in) welded hex (4);
- Twin screwdriver (5);
- L-shaped hex Allen key, CH4 (6);
- L-shaped hex Allen key, CH5 (7);
- Extractor for blade fuses (8);
- One 30A fuse;
- One 40A fuse.

Maximum weight allowed: 1.5 kg (3.3 lb)



05_02

Mana GT ABS



Chap. 06
Programmed
maintenance

Scheduled maintenance table

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

To this end, Aprilia offers a set of checks and maintenance services (at the owner's expense), that are summarised in the table shown on the following page. Any minor faults must be reported without delay to an **Authorised Aprilia Dealer or Sub-Dealer** without waiting until the next scheduled service to solve it.

All scheduled services must be carried out at the specified intervals and mileage, as soon as the predetermined mileage is reached. Carrying out scheduled services on time is essential for the validity of your warranty. For further information regarding Warranty procedures and "Scheduled Maintenance", please refer to the "Warranty Booklet".

NOTE

CARRY OUT MAINTENANCE OPERATIONS AT HALF THE INTERVALS SPECIFIED IF THE VEHICLE IS USED IN PARTICULAR RAINY OR DUSTY CONDITIONS, OFF ROAD OR FOR TRACK USE.

EVERY 24 MONTHS

Brake fluid - change

Coolant - Replace

Fork oil - Change

EVERY 4 YEARS

Fuel pipes - Replace

At 1000 Km (621 mi)

Drive chain - Check and lubricate

Transmission cables - Check, adjust and grease, or replace if necessary

Diagnosis for engine control unit and transmission control unit - Check

Brake discs - Check and clean, replace if necessary.
--

General vehicle operation - Check

Break pads - Check and replace if necessary

Lights circuit - Check, adjust direction or replace if necessary
--

Brake fluid - Check, top-up or replace if necessary.
--

Coolant - Check, top-up or change if necessary
--

Tyres - Check and replace if necessary
--

Tyre pressure - Adjust

Bolts, nuts and screws tightening - Check and restore tightening torque

Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary

Suspensions and setting - Check and adjust if necessary

Braking systems - Check

Safety switches - Check

Fork oil seal - Check and clean, replace if necessary

Parking brake calliper - Check and adjust if necessary
--

Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.

Battery - Check terminal tightening

Driving pulley bulb ring nut - Check and restore tightening torque
--

Control bushing - Grease

EVERY 2000 KM (1243 MI)

Break pads - Check and replace if necessary

AT 10000 KM (6214 MI)

Engine oil - Change

Engine oil filter - Replace

Air filter - Clean

Transmission air filter - Clean

Final transmission (chain, crown and pinion) - Check and clean, adjust, grease or replace if necessary
--

Transmission cables - Check, adjust and grease, or replace if necessary

Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.

Diagnosis for engine control unit and transmission control unit - Check

Brake discs - Check and clean, replace if necessary.
--

Parking brake calliper - Check and adjust if necessary
--

General vehicle operation - Check

Break pads - Check and replace if necessary
Lights circuit - Check, adjust direction or replace if necessary
Brake fluid - Check, top-up or replace if necessary.
Coolant - Check, top-up or change if necessary
Tyres - Check and replace if necessary
Tyre pressure - Adjust
Bolts, nuts and screws tightening - Check and restore tightening torque
Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary
Suspensions and setting - Check and adjust if necessary
Braking systems - Check
Safety switches - Check
Fork oil seal - Check and clean, replace if necessary
Battery - Check terminal tightening
Wheel bearings - Check and clean, adjust, grease or replace if necessary
Transmission bolts, nuts and screws tightening - Check and restore tightening torque

At 20000 KM (12427 MI)

Engine oil - Change
Drive belt - Replacement
Variator sliders - Replace

Transmission air filter - Clean

Air filter - Replace

Final transmission (chain, crown and pinion) - Check and clean, adjust, grease or replace if necessary

Transmission cables - Check, adjust and grease, or replace if necessary

Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.

Diagnosis for engine control unit and transmission control unit - Check

Brake discs - Check and clean, replace if necessary.

General vehicle operation - Check

Parking brake calliper - Check and adjust if necessary

Spark plug - Replace

Break pads - Check and replace if necessary

Lights circuit - Check, adjust direction or replace if necessary

Brake fluid - Check, top-up or replace if necessary.

Coolant - Check, top-up or change if necessary

Tyres - Check and replace if necessary

Tyre pressure - Adjust

Bolts, nuts and screws tightening - Check and restore tightening torque

Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary

Suspensions and setting - Check and adjust if necessary

Braking systems - Check

Safety switches - Check

Fork oil seal - Check and clean, replace if necessary
Battery - Check terminal tightening
Wheel bearings - Check and clean, adjust, grease or replace if necessary
Transmission bolts, nuts and screws tightening - Check and restore tightening torque
Driving pulley bulb ring nut - Check and restore tightening torque
Control bushing - Grease

At 30000 KM (18641 MI)

Engine oil - Change
Engine oil filter - Replace
Air filter - Clean
Transmission air filter - Clean
Final transmission (chain, crown and pinion) - Replace
Transmission cables - Check, adjust and grease, or replace if necessary
Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.
Diagnosis for engine control unit and transmission control unit - Check
Brake discs - Check and clean, replace if necessary.
General vehicle operation - Check
Break pads - Check and replace if necessary
Lights circuit - Check, adjust direction or replace if necessary

Brake fluid - Check, top-up or replace if necessary.

Throttle body - Clean and reset the self-adjustable parameters using a diagnosis instrument

Parking brake calliper - Check and adjust if necessary

Tappet clearance - Check and adjust

Coolant - Check, top-up or change if necessary

Tyres - Check and replace if necessary

Tyre pressure - Adjust

Bolts, nuts and screws tightening - Check and restore tightening torque

Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary

Suspensions and setting - Check and adjust if necessary

Braking systems - Check

Safety switches - Check

Fork oil seal - Check and clean, replace if necessary

Battery - Check terminal tightening

Fuel pipes - Check and clean, replace if necessary

Wheel bearings - Check and clean, adjust, grease or replace if necessary

Transmission bolts, nuts and screws tightening - Check and restore tightening torque

AT 40000 KM (24855 MI)

Engine oil - Change
Drive belt - Replacement
Variator sliders - Replace
Transmission air filter - Clean
Air filter - Replace
Final transmission (chain, crown and pinion) - Check and clean, adjust, grease or replace if necessary
Transmission cables - Check, adjust and grease, or replace if necessary
Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.
Diagnosis for engine control unit and transmission control unit - Check
Brake discs - Check and clean, replace if necessary.
General vehicle operation - Check
Break pads - Check and replace if necessary
Lights circuit - Check, adjust direction or replace if necessary
Brake fluid - Check, top-up or replace if necessary.
Coolant - Check, top-up or change if necessary
Spark plug - Replace
Tyres - Check and replace if necessary
Tyre pressure - Adjust
Bolts, nuts and screws tightening - Check and restore tightening torque

Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary

Suspensions and setting - Check and adjust if necessary

Braking systems - Check

Safety switches - Check

Fork oil seal - Check and clean, replace if necessary

Battery - Check terminal tightening

Wheel bearings - Check and clean, adjust, grease or replace if necessary

Parking brake calliper - Check and adjust if necessary

Transmission bolts, nuts and screws tightening - Check and restore tightening torque

Driving pulley bulb ring nut - Check and restore tightening torque

Control bushing - Grease

At 50000 KM (34069 MI)

Engine oil - Change

Engine oil filter - Replace

Air filter - Clean

Transmission air filter - Clean

Final transmission (chain, crown and pinion) - Check and clean, adjust, grease or replace if necessary

Transmission cables - Check, adjust and grease, or replace if necessary

Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.
Diagnosis for engine control unit and transmission control unit - Check
Brake discs - Check and clean, replace if necessary.
General vehicle operation - Check
Break pads - Check and replace if necessary
Lights circuit - Check, adjust direction or replace if necessary
Brake fluid - Check, top-up or replace if necessary.
Coolant - Check, top-up or change if necessary
Tyres - Check and replace if necessary
Tyre pressure - Adjust
Bolts, nuts and screws tightening - Check and restore tightening torque
Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary
Suspensions and setting - Check and adjust if necessary
Braking systems - Check
Safety switches - Check
Fork oil seal - Check and clean, replace if necessary
Battery - Check terminal tightening
Wheel bearings - Check and clean, adjust, grease or replace if necessary
Parking brake calliper - Check and adjust if necessary
Transmission bolts, nuts and screws tightening - Check and restore tightening torque

At 60000 KM (37282 MI)

Engine oil - Change

Drive belt - Replacement

Variator sliders - Replace

Spark plug - Replace

Transmission air filter - Clean

Air filter - Replace

Throttle body - Clean and reset the self-adjustable parameters using a diagnosis instrument

Tappet clearance - Check and adjust

Final transmission (chain, crown and pinion) - Replace

Transmission cables - Check, adjust and grease, or replace if necessary

Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.

Diagnosis for engine control unit and transmission control unit - Check

Brake discs - Check and clean, replace if necessary.

General vehicle operation - Check

Break pads - Check and replace if necessary

Lights circuit - Check, adjust direction or replace if necessary

Brake fluid - Check, top-up or replace if necessary.

Coolant - Check, top-up or change if necessary

Tyres - Check and replace if necessary

Tyre pressure - Adjust

Bolts, nuts and screws tightening - Check and restore tightening torque
Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary
Suspensions and setting - Check and adjust if necessary
Braking systems - Check
Safety switches - Check
Fork oil seal - Check and clean, replace if necessary
Battery - Check terminal tightening
Fuel pipes - Check and clean, replace if necessary
Wheel bearings - Check and clean, adjust, grease or replace if necessary
Parking brake calliper - Check and adjust if necessary
Transmission bolts, nuts and screws tightening - Check and restore tightening torque
Driving pulley bulb ring nut - Check and restore tightening torque
Control bushing - Grease

At 70000 KM (43496 MI)

Engine oil - Change
Engine oil filter - Replace
Air filter - Clean
Transmission air filter - Clean

Final transmission (chain, crown and pinion) - Check and clean, adjust, grease or replace if necessary
Transmission cables - Check, adjust and grease, or replace if necessary
Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.
Diagnosis for engine control unit and transmission control unit - Check
Brake discs - Check and clean, replace if necessary.
General vehicle operation - Check
Break pads - Check and replace if necessary
Lights circuit - Check, adjust direction or replace if necessary
Brake fluid - Check, top-up or replace if necessary.
Coolant - Check, top-up or change if necessary
Tyres - Check and replace if necessary
Tyre pressure - Adjust
Bolts, nuts and screws tightening - Check and restore tightening torque
Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary
Suspensions and setting - Check and adjust if necessary
Braking systems - Check
Safety switches - Check
Fork oil seal - Check and clean, replace if necessary
Battery - Check terminal tightening
Wheel bearings - Check and clean, adjust, grease or replace if necessary
Parking brake calliper - Check and adjust if necessary

Transmission bolts, nuts and screws tightening - Check and restore tightening torque

At 80000 км (49710 mi)

Engine oil - Change

Drive belt - Replacement

Variator sliders - Replace

Spark plug - Replace

Transmission air filter - Clean

Air filter - Replace

Tappet clearance - Check and adjust

Final transmission (chain, crown and pinion) - Check and clean, adjust, grease or replace if necessary

Transmission cables - Check, adjust and grease, or replace if necessary

Steering bearings and steering clearance - Check and clean, adjust, grease or replace if necessary.

Diagnosis for engine control unit and transmission control unit - Check

Brake discs - Check and clean, replace if necessary.

General vehicle operation - Check

Break pads - Check and replace if necessary

Lights circuit - Check, adjust direction or replace if necessary

Brake fluid - Check, top-up or replace if necessary.

Coolant - Check, top-up or change if necessary

Tyres - Check and replace if necessary
Tyre pressure - Adjust
Bolts, nuts and screws tightening - Check and restore tightening torque
Transmission gears and anti-vibration buffer - Check, check tightening, adjust and replace if necessary
Suspensions and setting - Check and adjust if necessary
Braking systems - Check
Safety switches - Check
Fork oil seal - Check and clean, replace if necessary
Battery - Check terminal tightening
Wheel bearings - Check and clean, adjust, grease or replace if necessary
Parking brake calliper - Check and adjust if necessary
Transmission bolts, nuts and screws tightening - Check and restore tightening torque
Driving pulley bulb ring nut - Check and restore tightening torque
Control bushing - Grease

RECOMMENDED PRODUCTS

Product	Description	Specifications
ENI i-RIDE Aprilia Racing 5W-40	Engine oil	Use top-branded oils that meet or exceed the requirements of JASO MA, MA2 - API SL - ACEA A3 specifications

Product	Description	Specifications
AGIP ARNICA SA 32	Fork oil (Marzocchi)	SAE 0W - ISO VG 32
AGIP FORK 5W	Fork oil (Showa)	SAE 5W
FUCHS TITAN SAF 1091	Fork oil (Sachs)	-
AGIP MP GREASE	Black smooth textured lithium-calcium soap based grease containing EP (extreme pressure) additives with optimal water-repellent properties	ISO L-X-BCHB 2 - DIN 51 825 KP2K-20
AGIP CHAIN GREASE SPRAY	Recommended CHAIN LUBRICANT	Grease
AGIP BRAKE 4	Brake fluid	SAE J 1703 - FMVSS 116 - DOT 3/4 - ISO 4925 - CUNA NC 956 DOT 4 synthetic fluid
AGIP PERMANENT SPECIAL	Ethylene glycol-based antifreeze fluid with organic inhibition additives. Red, ready to use.	ASTM D 3306 - ASTM D 4656 - ASTM D 4985 - CUNA NC 956-16

Mana GT ABS



Chap. 07
Special fittings

Accessories index

- Side panniers
- Case
- Centre stand
- Mudflap
- Luggage rack

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