

APRILIA WOULD LIKE TO THANK YOU

for having chosen 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 find yourself in harmony with your new vehicle, and ride it fully satisfied for a long time. This booklet forms an integral part of the vehicle; should the vehicle be sold, it must be transferred to the new owner.

TUAREG 660



The instructions given in this manual are intended to provide a clear, simple guide to using your vehicle; it also describes routine maintenance procedures and regular checks that should be carried out on the vehicle at an **Aprilia Dealer or Authorised Workshop**. The booklet also contains instructions for simple repairs. Any operations not specifically described in this booklet require the use of special tools and/or particular technical knowledge: 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 must be handed over to the new owner in the event of sale.*

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Chap. 01 General rules

Foreword

NOTE

THE MAINTENANCE INTERVALS PRESCRIBED BY THE SCHEDULED MAINTENANCE TABLE MUST BE CONSIDERED AS A GENERAL GUIDE FOR USING THE VEHICLE IN NORMAL RUNNING CONDITIONS.

IT MAY BE NECESSARY TO REDUCE THE MAINTENANCE INTERVALS UNDER SOME PARTICULAR CONDITIONS. ESPECIALLY WHEN USED IN GEOGRAPHICAL LOCATIONS WITH ADVERSE CLIMATIC CONDITIONS, USE ON UNEVEN GROUND OR SEVERE INDIVIDUAL USE.

NOTE

IF THE VEHICLE IS INVOLVED IN A FALL, WHETHER WHILE MOVING OR STATIONARY, ALWAYS TAKE IT TO AN OFFICIAL APRILIA DEALER, WHICH WILL CHECK IT THOROUGHLY TO MAKE SURE THAT IT IS UNDAMAGED AND IN PERFECT WORKING ORDER.

Motorcycle care

Aprilia recommends using quality products for cleaning the vehicle. The use of unsuitable products can damage vehicle components. For cleaning do not use solvents such as "nitro thinner", "cold cleaning agents", fuels or the like, or cleaning products that contain alcohol.

WASHING THE MOTORCYCLE

Aprilia recommends softening with plenty water and then carefully removing insects and stubborn stains before washing the vehicle.

To prevent stains, do not wash the motorcycle immediately after exposure to sunlight, and do not wash it in the sun.

If the vehicle is used during the winter months, be sure to frequently wash the motorcycle. To remove anti-icing salt sprayed on roads in the winter, wash the motorcycle with cold water immediately after use.

CAUTION

AFTER CLEANING YOUR MOTORCYCLE, THE EFFICIENCY OF THE BRAKING SYSTEM MAY BE TEMPORARILY AFFECTED DUE TO THE PRESENCE OF WATER ON THE FRICTION SURFACES. CONSIDER AN INCREASE IN BRAKING SPACE, OPERATE THE BRAKES REPEATEDLY TO RESTORE NORMAL CONDITIONS. CARRY OUT THE PRE-RIDE CHECKS BEFORE USE.



USE OF HOT WATER INTENSIFIES THE EFFECT OF THE SALT. USE ONLY PLENTY OF COLD WATER TO WASH AND REMOVE ANTI-ICING SALT



USE OF HIGH PRESSURE WASHING SYSTEMS (OR STEAM CLEANERS) CAN DAMAGE THE SEALS, OIL SEALS, BRAKING SYSTEM, ELECTRICAL SYSTEM AND THE SADDLE. DO NOT USE STEAM OR HIGH PRESSURE CLEANING SYSTEMS. DO NOT USE STEAM OR HIGH PRESSURE CLEANING SYSTEMS.

CLEANING OF SENSITIVE PARTS

BODYWORK

To keep the motorcycle bright, wash it regularly, especially if used in areas with high levels of pollution or mud. Stubborn stains of tree resin, petrol, oil, brake liquid or bird droppings should be removed immediately, otherwise the stains risk becoming permanent.

After washing it is easy to identify marks and residual stains, remove them from the body using a soft cloth and brand-name, non-abrasive polish, and protect with a pro-

protective wax for cars. Periodic care, a thorough cleaning and regular protective wax for the bodywork preserves the aesthetic quality of the motorcycle over the long term.

PLASTIC COMPONENTS



IF THE PLASTIC COMPONENTS ARE CLEANED USING AGGRESSIVE AGENTS, THE SURFACE MAY BE DAMAGED. DO NOT USE CLEANING PRODUCTS CONTAINING ALCOHOL, SOLVENTS OR THAT ARE ABRASIVE FOR THE CLEANING OF PLASTIC PARTS. ROTARY BRUSHES OR SPONGES WITH HARD SURFACES CAN MAKE SCRATCHES

CHROME PARTS AND POLISHED METAL



TREAT THE PARTS MADE OF CHROME, ALUMINIUM OR POLISHED STEEL IN A SPECIAL MANNER. WASH THEM WITH PLENTY OF WATER AND CAR SHAMPOO, POLISH AND REGULARLY BRIGHTEN THEM WITH POLISH PASTE, PROTECT THEM WITH WAXES OR SUITABLE ACID-FREE PRODUCTS (E.G. VASELINE)

RADIATOR



IF THE VEHICLE IS USED IN WINTER ON ROADS TREATED WITH SALT, WASH THE RADIATOR FREQUENTLY TO PREVENT COSMETIC DAMAGE TO THE FINISH AND THE RISK OF ENGINE OVERHEATING. WASH WITH PLENTY OF WATER. WASH WITH A LOW PRESSURE JET OF WATER, USING A GARDEN HOSE FOR EXAMPLE.

RUBBER PARTS

Clean the rubber parts using water and mild shampoo (brand-name, suitable for car bodies)



THE USE OF SILICONE SPRAY TO CLEAN THE RUBBER SEALS MAY CAUSE DAMAGE. DO NOT USE OTHER PRODUCTS CONTAINING SILICON FOR CLEANING THE MOTORCYCLE

Carbon monoxide

If you need to keep the engine running while working on the vehicle, please ensure that you do so in an open or very well ventilated area. Never run the engine in an enclosed area. If you do work in an enclosed area, make sure to use a fume extraction system.

CAUTION



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

CAUTION



CARBON MONOXIDE IS ODOURLESS AND COLOURLESS, THEREFORE IT CANNOT BE DETECTED BY SMELL, SIGHT OR OTHER SENSES. DO NOT BREATHE IN EXHAUST FUMES UNDER ANY CIRCUMSTANCES.

Fuel

CAUTION



FUEL USED TO DRIVE EXPLOSION ENGINES IS HIGHLY INFLAMMABLE AND CAN BECOME EXPLOSIVE UNDER SPECIFIC 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

Coolant contains ethylene glycol, which may be flammable in certain conditions. Ethylene glycol burns with an invisible flame which may still cause burns.

CAUTION



TAKE PARTICULAR CARE NOT TO SPILL COOLANT ONTO HOT PARTS OR THE ENGINE AND EXHAUST SYSTEM; THE FLUID MAY CATCH FIRE AND BURN WITH INVISIBLE FLAMES. WHEN CARRYING OUT MAINTENANCE OPERATIONS, IT IS ADVISABLE TO WEAR LATEX GLOVES. WHILE POISONOUS, COOLANT HAS A SWEET TASTE WHICH MAKES IT EXTREMELY APPEALING TO ANIMALS. NEVER LEAVE COOLANT IN OPEN CONTAINERS WHERE IT MAY BE REACHED AND DRUNK BY AN ANIMAL.

KEEP OUT OF THE REACH OF CHILDREN.

NEVER REMOVE THE RADIATOR CAP WHILE THE ENGINE IS STILL HOT. COOLANT IS UNDER PRESSURE AND MAY CAUSE BURNS.

Used engine oil and gearbox oil

CAUTION



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

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 fluid



BRAKE FLUID MAY BE HARMFUL TO PAINTWORK, PLASTIC AND RUBBER. WHEN SERVICING THE BRAKING SYSTEM PROTECT THESE COMPONENTS WITH A CLEAN CLOTH. ALWAYS WEAR PROTECTIVE GOGGLES WHEN SERVICING THESE SYSTEMS. BRAKE FLUID IS EXTREMELY HARMFUL TO THE EYES. IN THE EVENT OF ACCIDENTAL CONTACT WITH THE EYES, RINSE THE EYES IMMEDIATELY WITH PLENTY OF COOL, CLEAN WATER AND SEEK IMMEDIATE MEDICAL ATTENTION.

KEEP OUT OF THE REACH OF CHILDREN.

Battery hydrogen gas and electrolyte

(if applicable)

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. THE BATTERY RELEASES EXPLOSIVE GASES; KEEP IT AWAY FROM FLAMES, SPARKS, CIGARETTES OR ANY OTHER 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 OR SPILL ON PLASTIC COMPONENTS IN PARTICULAR. ENSURE THAT THE ELECTROLYTIC ACID IS COMPATIBLE WITH THE BATTERY BEING ACTIVATED.

Stand



BEFORE SETTING OFF, MAKE SURE THE CENTRE STAND (WHERE PROVIDED) AND SIDE STAND ARE COMPLETELY RETRACTED IN POSITION.

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



(WHERE IMPLEMENTED)

THE VEHICLE EQUIPPED WITH A CENTRE STAND IS NOT SUITABLE FOR EXTREME OFF-ROAD USE.

Precautions general advice

DANGER OF OVERHEATING

- WHEN THE VEHICLE IS STATIONARY, DO NOT KEEP THE ENGINE RUNNING MORE THAN NECESSARY, THIS MAY CAUSE EXCESSIVE OVERHEATING. IN EXTREME CASES, RISK OF FIRE. WHEN THE VEHICLE IS STATIONARY, DO NOT UNNECESSARILY RUN THE ENGINE.
- START IMMEDIATELY AFTER IGNITION, MAKING SURE TO RIDE A SHORT INITIAL DISTANCE AT LOW RPM.
- AFTER USE, AS SOON AS PARKED, THE ENGINE MUST BE IMMEDIATELY TURNED OFF.
- AFTER USE, DO NOT PLACE OBJECTS IN CONTACT WITH THE VEHICLE, WHEN IT IS STILL HOT, AS THEY COULD IGNITE (E.G. PROTECTIVE FABRICS, JACKET, ETC.).

HANDLING

- DO NOT ALTER ANY PART OF THE MOTORCYCLE (FOR EXAMPLE, ENGINE CONTROL UNIT, THROTTLE VALVES, CLUTCH, EXHAUST SYSTEM, ETC.). THIS MAY DAMAGE THE COMPONENTS INVOLVED, MAY CAUSE MALFUNCTION OF THE SAFETY RELATED FUNCTIONS AND RENDER THE WARRANTY VOID.

RISK OF BURNING

IN CASE OF ENGINE OR EXHAUST SYSTEM OVERHEATING WHILE DRIVING, PAY PARTICULAR ATTENTION TO THE FOLLOWING:

- RISK OF BURNING.
- AFTER STOPPING THE VEHICLE, MAKE SURE THAT NO PERSON OR OBJECT TOUCHES THE ENGINE AND THE EXHAUST SYSTEM.

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

CAUTION

SOME CONNECTORS IN THE VEHICLE MAY BE ACCIDENTALLY SWAPPED AND MAY COMPROMISE NORMAL VEHICLE OPERATION IF INCORRECTLY INSTALLED.

1 General rules

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Chap. 02
Vehicle

Arrangement of the main components (02_01, 02_02)



02_01



02_02

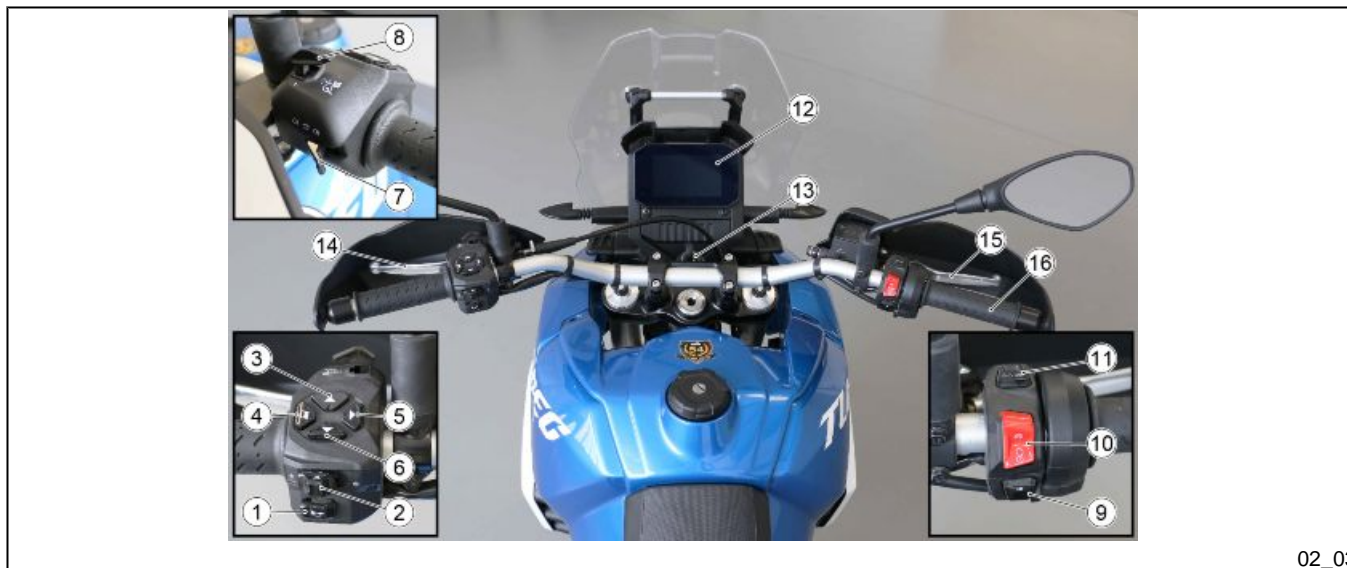
Key:

1. Left side fairing
2. Front light assembly
3. Front left turn indicator
4. Windscreen
5. Instrument cluster
6. Ignition switch
7. Left hand guard
8. Left rear-view mirror
9. Fuel tank cap
10. Fuel tank
11. Passenger/rider saddle
12. Battery
13. Main fuse

14. Secondary fuses
15. Passenger handgrips
16. Rear light cluster with incorporated license plate light
17. Rear left turn indicator
18. Left rear side fairing
19. Rider/passenger saddle opening lock
20. Side stand
21. Left hand passenger footrest
22. Left rider footrest
23. Gearbox lever
24. Vehicle ECU
25. Oil carter protector
26. Horn
27. Front left brake calliper
28. Left hand front brake disc
29. Front mudguard
30. Raked
31. Exhaust muffler
32. Rear right turn indicator
33. Right hand passenger footrest
34. ABS Modulator
35. Air filter
36. Right rear-view mirror
37. Front brake fluid tank
38. Right hand guard
39. Front right turn indicator
40. Right side fairing
41. Right hand front brake disc
42. Front tone wheel
43. Front ABS sensor
44. Front right brake calliper
45. Oil filter
46. Engine oil level dipstick/cap
47. Rear brake pedal
48. Right hand rider footrest
49. Rear shock absorber
50. Rear brake oil tank
51. Rear brake disc

- 52. Rear tone wheel
- 53. Rear ABS sensor
- 54. Rear brake calliper

Dashboard (02_03)



02_03

Key:

- 1. Audible warning device;
- 2. Turn indicator control;

3. Up button (MODE UP);
4. Set button (MODE SET);
5. Right button (MODE RIGHT);
6. Down button (MODE DOWN);
7. Low beam / high beam / flash high beam switch;
8. Cruise control selector / PIT Control selector (where applicable);
9. Riding mode button;
10. Engine start / stop switch;
11. Daytime running lights (DRL) / night lights / additional headlights switch (where provided);
12. Instruments and indicators;
13. Ignition switch / steering lock;
14. Clutch lever;
15. Front brake lever;
16. Throttle grip.



Digital instrument panel (02_04, 02_05)

Key:

1. Multifunctional digital display box.
2. Indicator lights.



02_05

The dashboard 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 delivered to the customer with two pre-programmed keys. The dashboard accepts a maximum of four keys at the same time: contact an Authorised **Aprilia** Dealer to enable these keys or to disable a key that has been lost. Upon vehicle delivery, approximately ten seconds after the key is set to ON, the instrument cluster requests a personal five-digit code to be entered.

See the chapter "Advanced functions" for instructions on modifying the personal code

When the code is requested, a value (from 0 to 9) is shown for the first figure of the code. Use the MODE navigation buttons to modify the value. Press MODE SET briefly to confirm the value entered for the first figure of the code, and repeat the procedure to enter the remaining four figures of the code.

It is important to remember the personal code because:

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

NOTE

IF THE PERSONA CODE IS NOT MEMORISED AND THE VEHICLE IS USED, THE MESSAGE DISAPPEARS AFTER 10 SECONDS BUT REAPPEARS WITH EACH KEY ON.

NOTE

THE FACTORY SET CODE IS COMPOSED OF FIVE ZEROES.



Light unit (02_06)

Key:

1. MI warning light, orange;
2. High beam indicator lamp, blue;
3. Cruise control indicator lamp, green;
4. ABS indicator light, orange;
5. Left turn indicator warning light, green;
6. Right turn indicator warning light, green;
7. ATC indicator light, orange;
8. DRL indicator lamp, green;
9. Low fuel indicator light, orange;
10. Neutral indicator light, green;
11. Immobilizer / over-revs indicator lamp, red.

Digital lcd display (02_07, 02_08, 02_09, 02_10, 02_11, 02_12, 02_13, 02_14, 02_15)

NOTE

THE DASHBOARD INSTRUMENT PANEL IS EQUIPPED WITH A TWILIGHT SENSOR WHICH IS USED TO SWITCH AUTOMATICALLY BETWEEN DAY MODE AND NIGHT MODE, CHANGING THE BACKGROUND COLOUR ACCORDINGLY, IN RELATION TO AMBIENT LIGHT CONDITIONS.

IF THE "HEADLAMP MODE" FUNCTION (SEE PARAGRAPH "ADVANCED FUNCTIONS") IS SET TO "AUTO" (AUTOMATIC), THE TWILIGHT SENSOR IS ALSO USED TO SWITCH THE LOW BEAM HEADLIGHTS ON AND OFF AUTOMATICALLY.

- Turning the ignition switch to 'KEY ON', the following illuminate on the dashboard for about two seconds:
 - A dynamic graphic presentation.



- All indicator lights.

(where available)

If the APRILIA MIA ECU is present, by pressing and holding the MODE RIGHT button it is possible to access the navigation mode display.

Pressing and holding the button changes the digital display mode from ROAD to NAVI, and then to MENU.

Pressing and holding the MODE RIGHT button again cycles through the modes available

The following information is displayed in ROAD mode:



02_08

Key:

1) Trip computer log (TRIP LOG A / TRIP LOG B).

(If the Aprilia MIA ECU is fitted): telephone, music, media player.

(Where the components are present): tyre pressure, heated handgrips;

2) Riding mode selected;

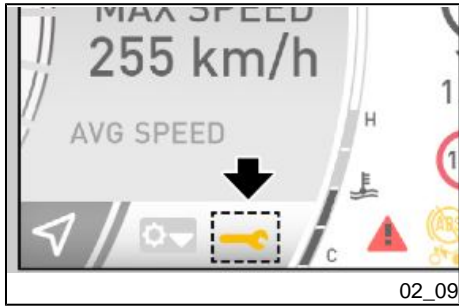
3) Clock (displayed in 24 or 12 hour format, without the AM/PM indication);

4) Ice hazard icon (displayed at temperatures from -15 °C (5 °F) to +3 °C (37.4 °F));

5) Ambient temperature (viewable in °C or °F);

- 6) Fuel gauge;
 - 7) Information pop-up;
 - 8) Engine speed (rpm x 1000);
 - 9) Speed (speedometer) (displayed in km/h or in mph);
 - 10) Reduced map indication;
 - 11) Cruise speed (if the system is active, represented by the clock symbol, corresponding to the dedicated indicator light);
 - 12) Open side stand indicator;
 - 13) Gear selected (displayed only with engine running and vehicle moving);
 - 14) Automatic lights mode active;
 - 15) Fog lights active (where foreseen);
 - 16) Icon indicating that ABS system is effective on front wheel only / ABS system disabled (only in the "OFF-ROAD" riding mode);
 - 17) Battery warning indicator (voltage between the poles too low) / Tyre pressure too low alarm (visible where foreseen);
 - 18) General warning icon;
 - 19) Water temperature value (displayed in °C or °F);
 - 20) Service icon;
 - 21) Downshift status (visible where implemented);
- If the Aprilia MIA ECU is fitted:**
- 22) GPS/Navigator (where active);
 - 23) Rider/passenger intercom;
 - 24) Battery level indicator relative to connected smartphone;
 - 25) Audio transmission with smartphone for calling, sending vocal commands and playing music;

26) Data link with smartphone;



MAINTENANCE ICON

When a maintenance interval threshold 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**.



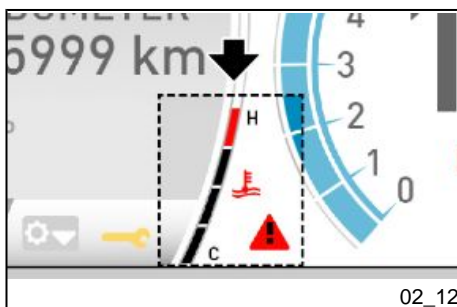
ICE HAZARD WARNING

At external temperatures between $-15\text{ }^{\circ}\text{C}$ ($5\text{ }^{\circ}\text{F}$) and $3\text{ }^{\circ}\text{C}$ ($37.4\text{ }^{\circ}\text{F}$), the ice hazard symbol appears on the display.



LOW BATTERY WARNING

The lighting of the battery symbol indicates a problem in the battery charging system.

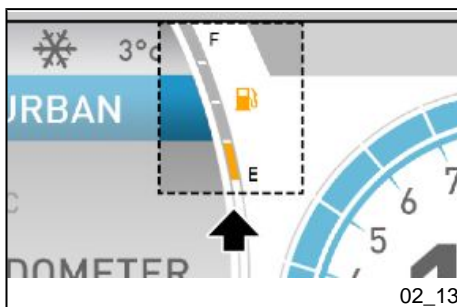


OVERTEMPERATURE WARNING

At engine coolant temperatures of 115 °C (239 °F) and higher, the temperature icon turns red, flashes and the general warning lamp is steadily lit.

CAUTION

STOP THE VEHICLE AND WAIT FOR THE ENGINE TO COOL.



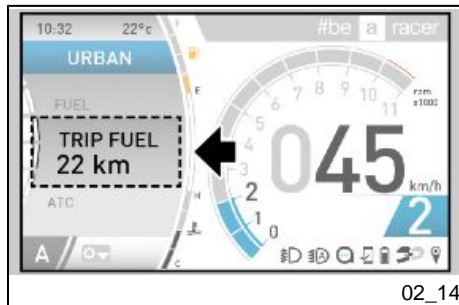
FUEL LEVEL

The fuel level in the tank is represented on the display by a number of bars.

When the second bar turns off and only the first remains on, it will change colour to orange, as does the symbol in the digital display. At the same time, the dedicated indicator light on the instrument panel comes on.

NOTE

IF THE RESERVE FUEL WARNING LAMP FLASHES AT KEY-ON, THIS INDICATES THAT THE FUEL LEVEL SENSOR IS DISCONNECTED.



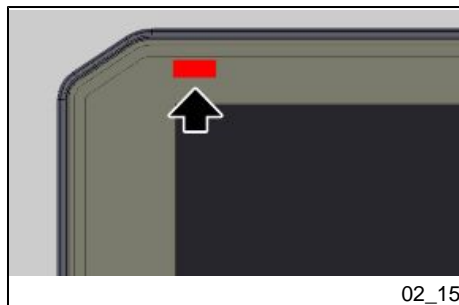
IF THE FUEL SENSORS DO NOT WORK CORRECTLY, THE BARS MAY NOT BE DISPLAYED CORRECTLY, THEREFORE GO TO AN Official Aprilia Dealer.

NOTE

THE INDICATED FUEL LEVEL MAY VARY AND NOT BE DISPLAYED ACCURATELY IF THE MOTORCYCLE IS INCLINED (E.G. WHEN THE MOTORCYCLE IS PLACED ON THE SIDE STAND, OR IF VEHICLE IS RIDDEN ON LONG STRETCHES OF UPHILL OR DOWNHILL ROAD).

TRIP FUEL

When the vehicle is in reserve, the km travelled in reserve are shown on the trip log.



IMMOBILIZER

With the key in the "KEY OFF" position, the immobilizer indicator light flashes to indicate the activation of the system. To reduce battery consumption the light stops flashing after about 48 hours.



02_16

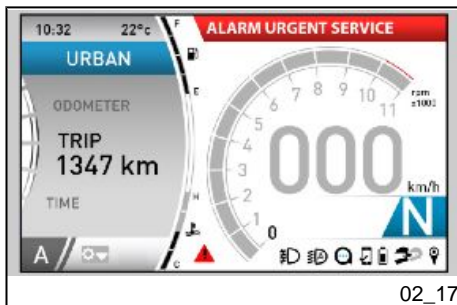
Alarms (02_16, 02_17, 02_18, 02_19, 02_20, 02_21, 02_22, 02_23, 02_24, 02_25, 02_26, 02_27)

In the event of a fault, the digital display will show the cause.

Take your vehicle as soon as possible to an Authorised **Aprilia** Dealer.

SERVICE ALARM

If there is a fault on the instrument panel or from the ECU, the instrument panel signals the fault by displaying the text **ALARM SERVICE** and the red general icon switches on.

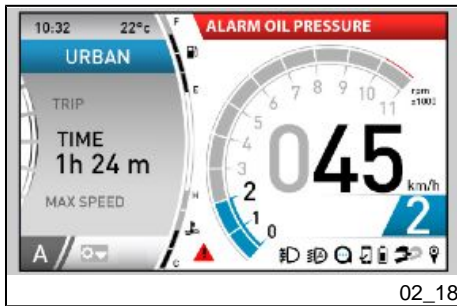


02_17

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

URGENT SERVICE ALARM

A serious fault is signalled by a fast flashing (two flashes per second) of the general warning icon and by the message **ALARM URGENT SERVICE** on the digital display. Take your vehicle as soon as possible to an Authorised **Aprilia** Dealer. In these cases, the control unit activates a safety procedure that limits the vehicle performance so that the rider is able to reach an Authorised **Aprilia** Dealer at low speed. Depending on the type of failure, performance can be limited in three ways: a) by reducing the maximum torque produced; b) by keeping the engine at idle speed but slightly accelerated (during this operation, the throttle control is disabled); c) the engine rpm is steady at around 3000 rpm; Under these conditions the throttle control provides limited management of the torque.



Oil failure

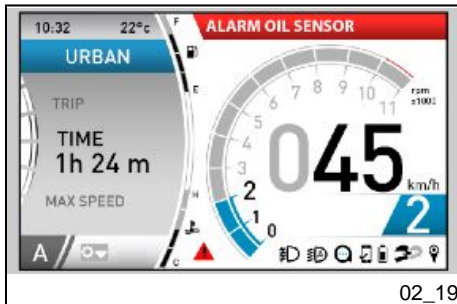
If a fault is detected with the oil pressure, the digital display shows the message **ALARM OIL PRESSURE**.

CAUTION

THE INDICATION IS ACCOMPANIED BY THE FLASHING GENERAL WARNING LIGHT ICON.



STOP THE VEHICLE AND IMMEDIATELY CONTACT AN Approved Aprilia Dealer.



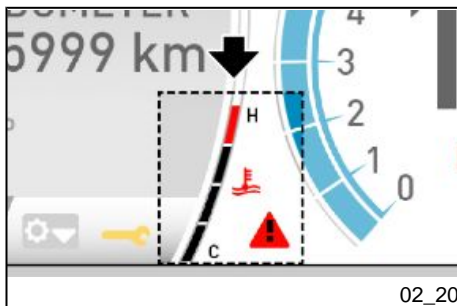
If a fault is detected with the oil pressure sensor, the digital display shows the message **ALARM OIL SENSOR**.

CAUTION

THE INDICATION IS ACCOMPANIED BY THE RED GENERAL WARNING LIGHT ICON SWITCHED ON STEADILY.

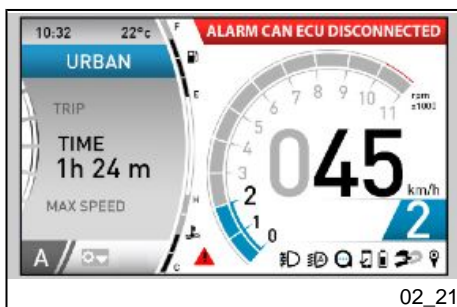
CAUTION

AS SOON AS POSSIBLE GO TO AN Authorised Aprilia Dealer.



Engine overheating alarm

The engine overheating alarm is activated when the temperature reaches 115 °C (239 °F). This is indicated by the lighting up of the red general alarm icon and by the flashing temperature symbol and the temperature itself on the digital display.



Electronic control unit disconnected alarm

If no connection is detected, the fault is indicated on the instrument panel by the message **ALARM CAN ECU DISCONNECTED** and by the red general alarm icon, steadily lit.

NOTE

THE MESSAGE "ALARM CAN ECU DISCONNECTED" REMAINS ON THE DIGITAL DISPLAY AND THE HAZARD WARNING LIGHTS WILL CONTINUE TO FLASH (TO WARN OTHER ROAD USERS BEHIND THE VEHICLE OF POTENTIAL DANGER) UNTIL THE RIDER ACTIVATES THE RIGHT HAND TURN SIGNAL TO INDICATE THAT THEY ARE ABOUT TO PULL OVER AND STOP.



ATC alarm disabled

The ATC system disabling alarm is activated when there is a problem that can cause the system itself to be disabled.

CAUTION

DRIVE CAREFULLY AND IMMEDIATELY CONTACT AN Official Aprilia Dealer



Immobilizer alarms

For immobilizer alarms, refer the specific paragraph "Immobilizer system operation". The error code may vary.

If there is an alarm, the user code must be entered to start the vehicle.

CAUTION

THE INDICATION IS ACCOMPANIED BY THE RED GENERAL WARNING LIGHT ICON SWITCHED ON STEADILY.



"CAN BUS OFF" electronic control unit disconnected alarm

If no connection is detected, the fault is indicated on the instrument panel by the message **ALARM CAN BUS OFF** and by the red general alarm icon, steadily lit.

CAUTION

THE INDICATION IS ACCOMPANIED BY THE RED GENERAL WARNING LIGHT ICON SWITCHED ON STEADILY.

CAUTION

DRIVE CAREFULLY AND IMMEDIATELY CONTACT AN Official Aprilia Dealer

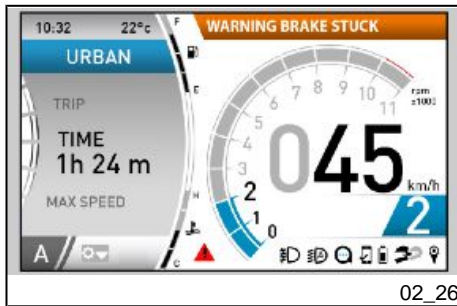


Headlamp disconnected alarm

If no connection is detected between the instrument panel and the headlamp, the fault is indicated on the instrument panel by the message **ALARM CAN HLU** and by the red general alarm icon, steadily lit.

NOTE

THE FRONT TURN INDICATORS ALSO FLASH WHILE THE ERROR "ALARM CAN HLU" IS ACTIVE ON THE DIGITAL DISPLAY.



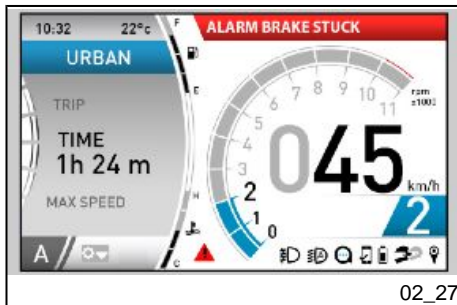
Brakes stuck alarm

If constant pressure on one or both brake controls is detected for over 30 seconds while the vehicle is moving at a speed of 10 km/h (6 mph) or higher, the fault is indicated on the instrument panel by the message **WARNING BRAKE STUCK**.

If constant pressure on one or both brake controls is detected for over 60 seconds, the message **ALARM BRAKE STUCK** is shown on the instrument panel and the red general alarm icon switches on steadily.

CAUTION

PAY ATTENTION WHILE RIDING



Mapping selection (02_28, 02_29, 02_30)

The engine control unit has 4 different selectable "riding modes" for managing the electronic accelerator, displayed as follows in the lower left part of the digital display:

- OFF-ROAD
- INDIVIDUAL
- EXPLORE
- URBAN

The **URBAN** mode is designed both for touring and city use of the vehicle. The engine response is not very aggressive, the engine brake is minimally invasive and the traction control is set at level "3" (intermediate).



The **EXPLORE** mode is designed for a more dynamic use of the vehicle. The throttle response is more aggressive, the engine brake is at an intermediate level and the traction control is minimally invasive.

The **OFF-ROAD** and **INDIVIDUAL** modes can be configured by the user, as shown in the "ADVANCED FUNCTIONS" section.

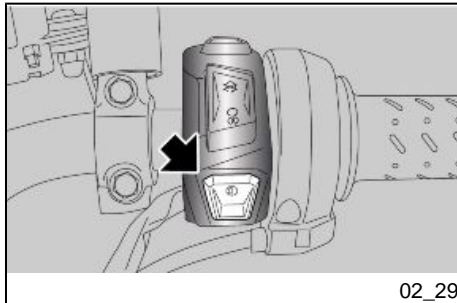
The **OFF ROAD** mode is not suitable for road use. It is designed for use on variable low-grip surfaces.

CAUTION

THE USE OF THIS MODE IT IS RECOMMENDED ON LOW-GRIP SURFACES. IT IS RECOMMENDED FOR OFF-ROAD USE.

THE TRACTION CONTROL IS LITTLE INVASIVE.

IT IS POSSIBLE THAT THE ABS SYSTEM IS ACTIVE ONLY FOR THE FRONT WHEEL IN THE OFF-ROAD AND INDIVIDUAL MODES. IN THIS CASE THE DEDICATED SYMBOL APPEARS ON THE DISPLAY TO REMIND THE RIDER TO PAY PARTICULAR ATTENTION.



02_29

To cycle through the different riding modes, press the button shown in the figure on the right hand handlebar control set briefly.

CAUTION

DIFFERENT RIDING MODES MAY ALSO BE SELECTED ON THE FLY WHILE THE VEHICLE IS MOVING, PROVIDED THAT THE THROTTLE GRIP IS RELEASED.

RIDING MODES MAY ALSO BE PRESELECTED WHILE THE THROTTLE IS OPEN. IN THIS CASE, THE NEW MODE IS ONLY EFFECTIVELY IMPLEMENTED WHEN THE THROTTLE IS CLOSED AGAIN. THE ICON FLASHES WHEN A NEW MODE IS PRESELECTED AND PENDING IMPLEMENTATION.

CAUTION

IF THE THROTTLE IS OPENED WHILE THE NEW RIDING MODE IS SHOWN IN FLASHING MODE ON THE DISPLAY (I.E. MODE IS PRESELECTED ONLY AND

PENDING IMPLEMENTATION BY THE ECU), THE PRESELECTED NEW RIDING MODE WILL NOT BE EFFECTIVELY IMPLEMENTED UNTIL THE THROTTLE GRIP IS RELEASED.

IF A NEW RIDING MODE IS SELECTED WHILE THE THROTTLE IS OPEN, THE NEW RIDING MODE REQUESTED WILL BE SHOWN IN FLASHING MODE UNTIL THE THROTTLE GRIP IS RELEASED.

CAUTION

IF THE REQUESTED RIDING MODE CONTINUES TO BE DISPLAYED IN FLASHING MODE, THIS MEANS THAT NOT ALL THE CONDITIONS NECESSARY FOR IMPLEMENTATION OF A NEW MODE ARE MET, E.G.: THROTTLE OPEN, CLUTCH LEVER IN USE ETC.

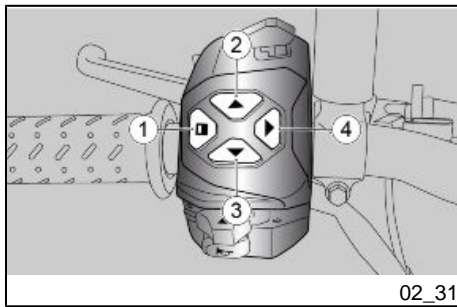


Only in **OFF-ROAD** mode is it possible to deactivate and reactivate the ABS system completely with a prolonged press of the button shown in the previous image.

The dedicated symbol appears in the digital display.

CAUTION

THE ABS SYSTEM IS REACTIVATED ON EACH KEY OFF / ON AND ON EACH CHANGE OF THE RIDING MODE.



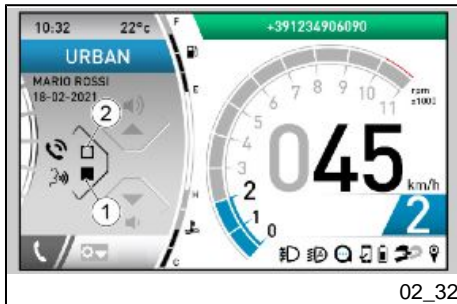
02_31

Control buttons (02_31, 02_32, 02_33, 02_34, 02_35, 02_36, 02_37, 02_38, 02_39, 02_40, 02_41, 02_42, 02_43, 02_44, 02_45, 02_46, 02_47, 02_48, 02_49, 02_50, 02_51, 02_52)

The control buttons on the left handlebar control set may be used to navigate within the MENU and system screens, displaying the information of the heated grips (where present), the tyre pressure (where provided), the trip log A / B and, if present, the AMP unit (Aprilia Multimedia Platform), as well as phone information, music and media.

The navigation buttons are as follows:

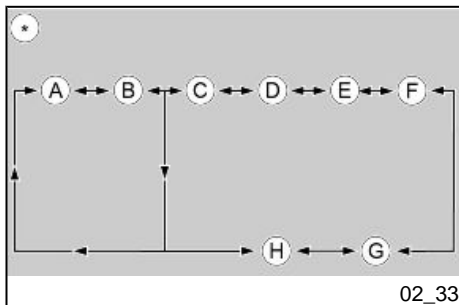
1. **MODE SET** (select / confirm / press and hold to reset)
2. **MODE UP** (up)
3. **MODE DOWN** (down)
4. **MODE RIGHT** (right)



02_32

A number of different symbols may be displayed in the "pop-up" space, e.g. (1) - (2).

- Where shown as a solid shape (1), the symbol indicates that it is necessary to press and hold the relative control for the function described.
- Where shown as an outline only (2), the symbol indicates that it is necessary to press the relative control briefly and release for the function described.

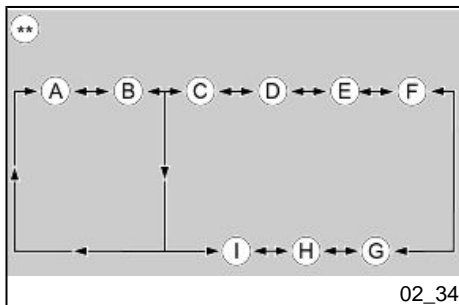


When in ROAD mode (*) only, pressing "MODE RIGHT" briefly repeatedly cycles through the following screens:

- A) Trip log A.
- B) Trip log B.
- C) Heated hand grip info (where provided)
- D) Tyre pressure info (where provided)
- E) Telephone info. (if applicable)
- F) Music info. (if applicable)
- G) Media info. (if applicable)

When in NAVI mode (**) only, pressing "MODE RIGHT" briefly repeatedly cycles through the following screens:

- A) Trip log A.
- B) Trip log B.
- C) Heated hand grip info (where provided)
- D) Tyre pressure info (where provided)
- E) Telephone info. (if applicable)
- F) Music info. (if applicable)
- G) Media info. (if applicable)
- H) Navigation destination. (if applicable)



A / B) Trip log A and B (displayed in ROAD / NAVI modes)

Two trip logs are available.

Press "MODE UP" or MODE DOWN" briefly to cycle through the following information on the digital display:

- ODOMETER.
- TRIP ODOMETER.
- TRIP TIME.
- MAXIMUM SPEED.
- AVERAGE SPEED.
- AVERAGE FUEL CONSUMPTION.
- INSTANTANEOUS FUEL CONSUMPTION.



- AVERAGE IN RESERVE

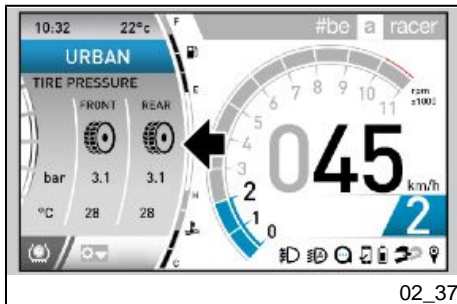
From any of the following view modes: TRIP ODOMETER, TRIP TIME, MAXIMUM SPEED, AVERAGE SPEED or AVERAGE FUEL CONSUMPTION, press and hold MODE SET to reset all the values logged in the currently active TRIP LOG.



C) Heated grips information (displayed in ROAD / NAVI modes) (where provided)

This menu provides information about the heated grips including the activation status and the heating intensity.

For further details, see paragraph "Heated grips control".



D) Tyre pressure information (displayed in ROAD and NAVI modes) (where provided)

Select this screen to view information relative to tyre pressure and temperature and possible alarms.

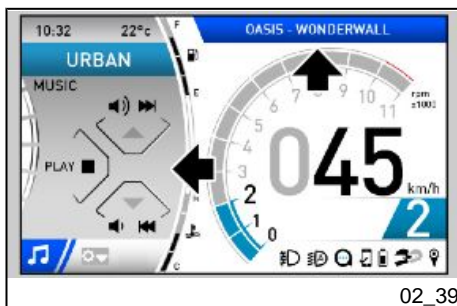


E) Telephone information (displayed in ROAD / NAVI modes) (where provided)

Information relative to phone calls is displayed in this menu, such as:

- Active call.
- Incoming call.
- Outgoing call.
- Call ended.
- Voice control active.
- Call log.

See the chapter "ADVANCED FUNCTIONS" for more details.



F) Music information (displayed in ROAD / NAVI modes) (where provided)

Information relative to audio playback is displayed in this menu, such as:

- Track playing.
- Playback paused.

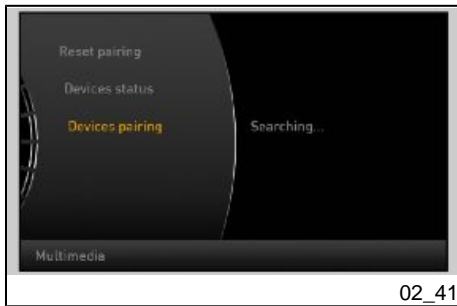
See the chapter "ADVANCED FUNCTIONS" for more details.



G) Media information (displayed in ROAD / NAVI modes) (where provided)

The vehicle is equipped with the "APRILIA MIA" accessory, which communicates with the smartphone via Bluetooth. Using the special "APRILIA" application installed on the smartphone, it is possible to exchange data with the vehicle and manage multimedia contents. Once a connection is established correctly between the control unit and the smartphone, the following functions can be directly managed by the digital display of the vehicle:

- manage phone calls;
- manage audio playback;
- GPS navigation.



02_41

The "**MULTIMEDIA**" sub-menu of the main "**MENU**" contains 3 functions:

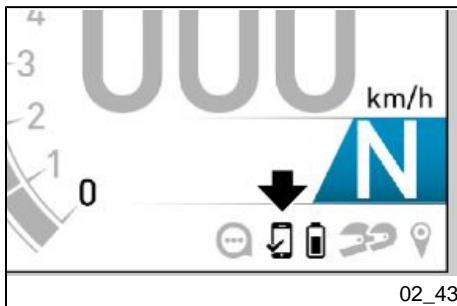
- Devices status (list of paired devices)
- Reset pairing (reset of all paired devices)
- Devices pairing (allows the pairing of new devices)

Having activated the Bluetooth function on the device to be paired, by briefly pressing the MODE RIGHT button, selecting the "Devices pairing" command from the vehicle menu, the devices available for pairing will be scanned.

Once the device to be paired has been identified, after selecting it, by briefly pressing the MODE RIGHT button, pairing will be carried out and the screen will return to the ROAD mode display with a pop-up confirming "PAIRING COMPLETED" or "PAIRING ABORTED" if the pairing does not take place correctly



02_42



02_43

The smartphone icon on the display indicates active communication. **When requested, allows phone book and notifications sharing. These enabling operations are necessary to display the caller's name on the display.**

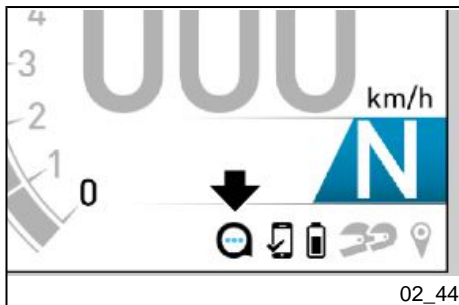
NOTE

UPON THE FIRST PAIRING BETWEEN THE DISPLAY AND SMARTPHONE, MORE TIME MAY BE REQUIRED FOR THE SYNCHRONIZATION OF THE PHONE BOOK.

THE CONNECTION BETWEEN THE SMARTPHONE AND VEHICLE WILL BE SIGNALLLED BY THE LIGHTING OF THE SMARTPHONE ICON ON THE DISPLAY.

CAUTION

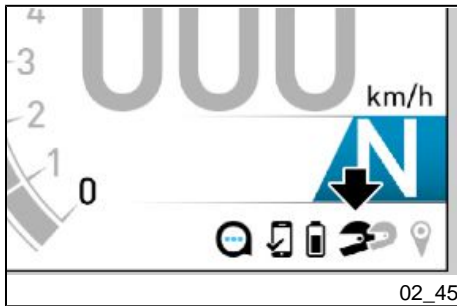
TO PAIR THE DEVICES IT IS NECESSARY TO ACTIVATE THE PAIRING OF THE DEVICES AND THEN LAUNCH THE OPERATION FROM THE INSTRUMENT PANEL.

**CONNECTION BETWEEN THE APPLICATION AND THE DIGITAL DISPLAY**

Search for the «APRILIA» application from the Play Store or App Store, and install it. Register your account by following the instructions. Select "allow" for the position and notifications management requests.

PAIRING A BLUETOOTH HEADSET FROM THE APP

Multimedia functions may be accessed using the MODE buttons if a bluetooth headset is paired with the digital display from the "APRILIA" app. (this can also be performed from the instrument panel without using the application). After pairing it will be possible to answer or reject calls, activate voice commands and control the music on the smartphone.



Activate the **"pairing"** mode of the bluetooth headset to be paired (refer to the instructions of the device itself). Press the Bluetooth icon on the main screen of the **"APRILIA"** application and perform a new search for devices until the headset is displayed. Select the bluetooth headset, check the **"Handsfree/driver headset"** option and press **"Pair"**. Successful pairing is indicated by the helmet icon displayed on the digital display. If the pairing is not successful, perform a new search.

Repeat the operation to connect a second device also. If this pairing procedure is successful, the 2nd helmet icon will be highlighted in black on the digital display.



No multimedia function can be managed from the handlebar of the vehicle if there is no bluetooth headset, or if the headset is directly connected to the smartphone. **The pairing of the bluetooth headset to the vehicle is only possible via the "APRILIA" application and this must be connected to the vehicle in order to correctly use the multimedia functions of the system. For this reason, the headsets that automatically connects to the smartphone are not compatible (Ex: Apple AirPods).**

If pairing between Smartphone and Vehicle is not successful, proceed as follows:

- restart the smartphone;
- turn the ignition key to **"OFF"** and then to **ON"**; wait for the animation on the display to end.

If the smartphone icon on the display is not illuminated after approximately 1 minute, proceed as follows;

- open **"APRILIA"** and select **"Connect"**;
- select your vehicle from the list of suggestions and follow the instructions on the device;

- once the Application is connected, select the Bluetooth icon that appears on the main screen;
- open the Bluetooth devices menu;
- select "**Configure**" and delete all paired devices, leaving the current device till last, or perform the operation from the vehicle **MENU**;
- make sure that the application icon on the display is off;
- turn the ignition key to "**OFF**" and then to "**ON**", then wait until the animation on the screen ends;
- the display must show the pop up "**No connected device**";
- repeat the pairing procedure from the start.

NOTE

PLEASE NOTE THAT TO CONNECT THE APP TO THE VEHICLE AGAIN, THE FOLLOWING WILL BE NECESSARY:

- **ON iOS, DELETE THE PREVIOUSLY INSTALLED APP AND REINSTALL IT.**
- **ON ANDROID, SIMPLY DELETE THE APPLICATION DATA FROM THE APP MANAGEMENT MENU (THIS WILL RETURN THE APPLICATION TO THE INITIAL CONDITION AND THE LOGIN AND FIRST CONNECTION TO THE VEHICLE MUST BE PERFORMED AGAIN).**
- **IN CASE OF CONNECTION TO A NEW VEHICLE, IT IS NECESSARY TO REMOVE THE PREVIOUS BT-ROUTER FROM THE ASSOCIATED DEVICES.**

NOTE

IT IS RECOMMENDED TO PAIR A MAXIMUM OF 2 SMARTPHONES AND 2 HEADSETS TO THE SAME VEHICLE, TO OPTIMIZE THE OPERATION OF THE SYSTEM.

WHEN CONNECTING THE SECOND SMARTPHONE, PLEASE NOTE THAT THE NEXT ONE WILL REQUIRE A LONGER TIME (MORE THAN 30 SECONDS) TO CONNECT TO THE "BT-ROUTER". ONCE THE SMARTPHONE IS CONNECTED TO THE "BT-ROUTER", THE OPERATING SYSTEM WILL REQUEST ACCESS TO THE PHONE BOOK AND TO THE NOTIFICATIONS; ACCEPT TO DISPLAY THE NAMES OF THE CALLERS ON THE DISPLAY.

Required operation for iOS 10.0 versions or higher

If the "BT-ROUTER" device does not automatically request permission to share notifications, the following procedure is necessary:

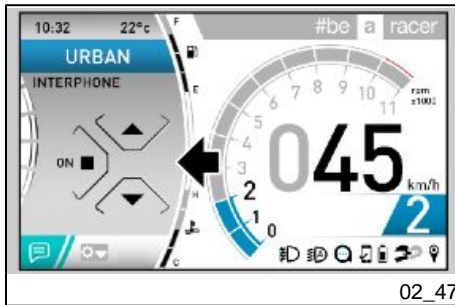
- Enter the menu: "Settings" > "Bluetooth" > "Phone devices";
- select "BT-ROUTER", select "Info", enable the options manually.

INTERCOM AND VOCAL COMMANDS MANAGEMENT

The "APRILIA" system manages the connection between the intercom and smart-phone upon activation by the user.

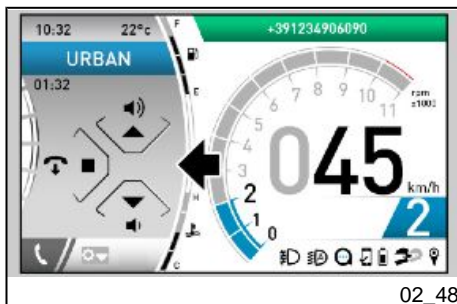


FOR SAFETY REASONS, IT IS RECOMMENDED TO CARRY OUT THE ACTIVATION / DEACTIVATION PROCEDURES WITH THE VEHICLE AT A STANDSTILL.

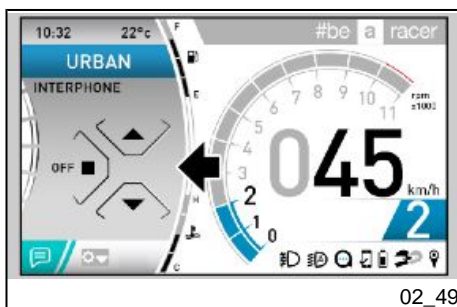


To activate the "INTERCOM" function, press MODE SET from the "Media information" screen.

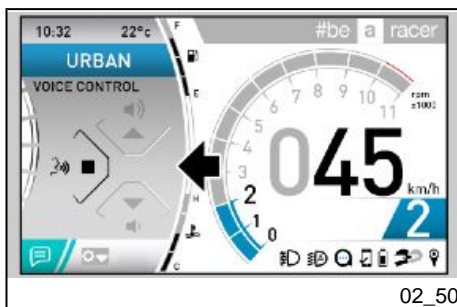
A pop-up with the message "INTERCOM ON" will be shown on the digital display.



The audio volume may now be controlled by pressing and holding MODE UP or MODE DOWN.



Pressing MODE SET briefly again deactivates the connection. The state "INTERCOM OFF" is now shown on the digital display.



To activate the "VOICE" function, which allows the user to access and use functions of their smartphone with voice commands via the handset (e.g. Siri or Google Assistant), after selecting it using the MODE UP or MODE DOWN buttons, briefly press the MODE SET button.



THE "VOICE" FUNCTION CANNOT BE ACTIVATED IF THE "INTERCOM" FUNCTION IS ALREADY ACTIVATED.

H) Navigation address(displayed in NAVI mode only) (where applicable)

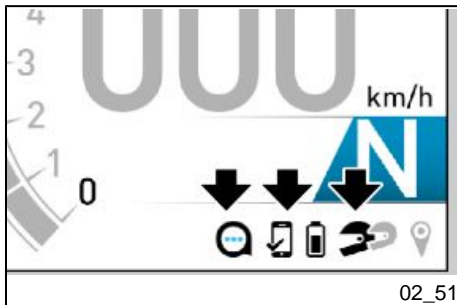
Select this screen to view the destination for the navigation system entered via the smartphone.

«APRILIA MIA» SYSTEM MESSAGES

The «APRILIA MIA» system communicates with the user through messages that can be viewed on the graphic panel of the digital display. Depending on the message type, the graphic panel shows the icon, colours and the specific message.

The following information is displayed:

- Information messages related to the infotainment system.

**CALL MANAGEMENT**

To use phone features, view caller notifications and identifiers, it is necessary to:

- pair the smartphone with the "APRILIA MIA" system via bluetooth as described above;
- install the "APRILIA" app on your smartphone and access your account from the app or from the dashboard instrument panel;
- pair a bluetooth headset with the "APRILIA MIA" system from the "APRILIA" app or from the dashboard instrument panel;
- allow sharing of the phonebook and notifications when the smartphone is paired with the "APRILIA MIA" system.

NOTE

WHEN A SMARTPHONE CONNECTS WITH THE "APRILIA MIA" SYSTEM (BT-ROUTER), AUDIO IS AUTOMATICALLY ROUTED TO THE APRILIA MIA SYSTEM. IF A HEADSET IS NOT CONNECTED TO THE "APRILIA MIA" SYSTEM YOU CAN NOT MANAGE THE AUDIO OF CALLS OR LISTEN TO MUSIC, THEREFORE YOU NEED TO MANUALLY DIRECT THE AUDIO OF YOUR SMARTPHONE TOWARDS THE DESIRED DEVICE (E.G. SPEAKERS / MICROPHONE OF THE SMARTPHONE).

The following information is shown in the relative area on the digital display:

- call in progress;
- call ended;
- voice control active;
- incoming call;
- outgoing call;
- call log.

Press and hold MODE SET to enable voice commands.

Press MODE DOWN or MODE UP briefly to scroll through the log of all calls (missed calls, calls made, outgoing calls made with no reply).

Select the required log entry and then press and hold MODE SET to call the relative contact.

MODE SELECTOR FUNCTIONS FOR CALL MANAGEMENT

Accept incoming call	PRESS MODE SET BRIEFLY
End an active call	PRESS AND HOLD MODE SET
Reject incoming call	PRESS AND HOLD MODE SET
Cancel outgoing call	PRESS AND HOLD MODE SET
Activate volume control (with call in progress)	PRESS AND HOLD MODE UP OR MODE DOWN
Increase volume (with call in progress)	PRESS MODE UP BRIEFLY
Lower volume (with call in progress)	PRESS MODE DOWN BRIEFLY

MANAGING A SECOND CALL

If the smartphone paired with the "**APRILIA MIA**" system is capable of receiving a second incoming call, a number of functions for managing a second call are available.

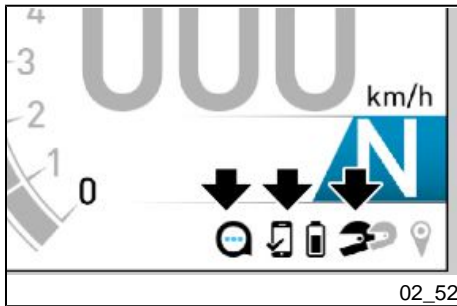
A popup appears on the digital display showing the identification details of the current and of the new incoming call are displayed in alternation (at intervals of approximately 1 second).

FUNCTIONS OF MODE SELECTOR FOR MANAGING SECOND CALL

Accept incoming call and put current call on hold	PRESS MODE SET BRIEFLY
---	------------------------

Reject incoming call and continue current call	PRESS AND HOLD MODE SET
--	-------------------------

Switch between call 1 and call 2	PRESS MODE SET BRIEFLY
----------------------------------	------------------------



MUSIC PLAYBACK MANAGEMENT

To use the functions of the music player, the following must be performed:

- pair the smartphone with the "**APRILIA MIA**" system via bluetooth as described above;
- install the "**APRILIA**" app on your smartphone and access your account from the app or from the dashboard instrument panel;
- pair a bluetooth headset with the "**APRILIA MIA**" system from the "**APRILIA**" app or from the dashboard instrument panel.

The corresponding three icons are shown on the digital display.

NOTE

WHEN A SMARTPHONE CONNECTS WITH THE "APRILIA MIA" SYSTEM (BT-ROUTER), AUDIO IS AUTOMATICALLY ROUTED TO THE APRILIA MIA SYSTEM.

IF A HEADSET IS NOT CONNECTED TO THE "APRILIA MIA" SYSTEM YOU CAN NOT MANAGE THE AUDIO OF CALLS OR LISTEN TO MUSIC, THEREFORE YOU NEED TO MANUALLY DIRECT THE AUDIO OF YOUR SMARTPHONE TOWARDS THE DESIRED DEVICE (E.G. SPEAKERS / MICROPHONE OF THE SMARTPHONE).

The following information appears on the digital display:

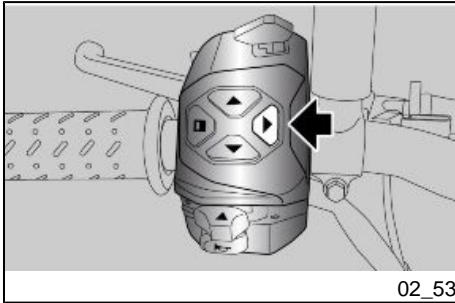
- track playing;
- playback paused;
- playback interrupted.

Use the MODE buttons to manage audio playback as shown in the table:

MODE SELECTOR FUNCTIONS FOR MUSIC MANAGEMENT

Play track	PRESS MODE SET BRIEFLY
Activate volume control (with call in progress)	PRESS AND HOLD MODE UP OR MODE DOWN
Increase volume (with call in progress)	PRESS MODE UP BRIEFLY
Lower volume (with call in progress)	PRESS MODE DOWN BRIEFLY

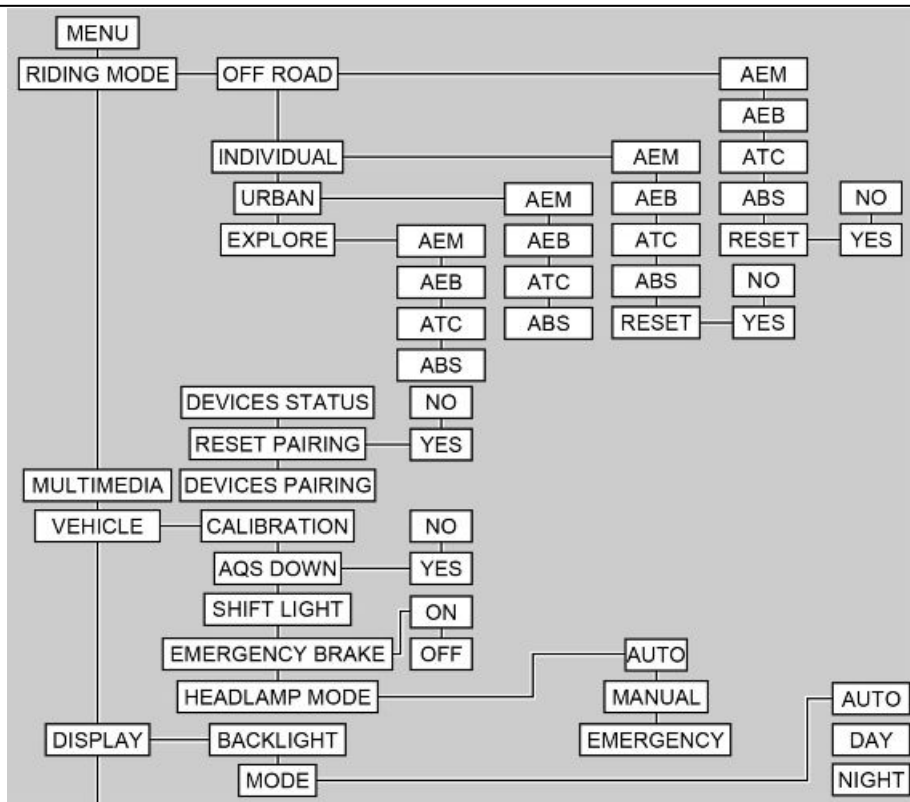
Next music track	PRESS MODE UP BRIEFLY
Previous audio track	PRESS MODE DOWN BRIEFLY
Activate Siri	PRESS AND HOLD MODE SET



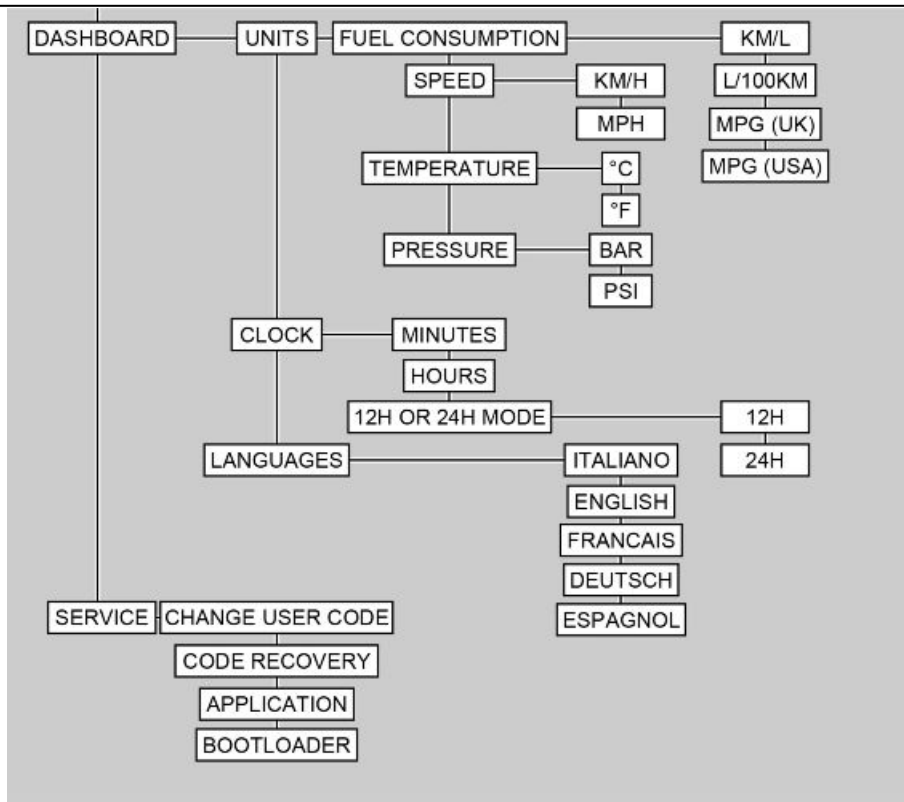
Advanced functions (02_53, 02_54, 02_55, 02_56, 02_57, 02_58, 02_59, 02_60, 02_61, 02_62, 02_63, 02_64, 02_65, 02_66, 02_67, 02_68, 02_69, 02_70, 02_71, 02_72, 02_73, 02_74, 02_75, 02_76, 02_77, 02_78, 02_79, 02_80, 02_81, 02_82, 02_83, 02_84, 02_85, 02_86, 02_87, 02_88, 02_89, 02_90, 02_91)

With a long press of the MODE RIGHT button, from the ROAD screen, the display will pass to the NAVI screen (if the Aprilia MIA ECU is present) and then to the MENU screen.

The menu structure, which varies depending on the selected riding mode, is illustrated in the following flow diagram.



02_54





02_56

The menu is composed of the following entries:

- 1) Riding mode (Riding mode)
- 2) Multimedia (Multimedia)
- 3) Vehicle
- 4) Dashboard (Dashboard)
- 5) Service (Service)



02_57

1) Riding mode (Riding mode)

The "Riding mode" menu consists of the following:

- 1.1) Off road
- 1.2) Individual
- 1.3) Urban
- 1.4) Explore

The functions of the "Riding mode" menu are shown in the paragraphs below.

Press MODE SET briefly to go back to the main MENU.



1.1) Off road / 1.2) Individual

The "Off road and Individual" menus comprise the following items:

1.1.1)/1.2.1) AEM

1.1.2)/1.2.2) AEB

1.1.3)/1.2.3) ATC

1.1.4)/1.2.4) ABS

1.1.5)/1.2.5) Reset (Delete)

This function allows to edit the intervention level of each individual control system associated with the Off road or Individual Riding mode.

Using the MODE UP or MODE DOWN buttons, the desired function may be selected and by briefly pressing the MODE RIGHT button act on the intervention level of the function itself.

Once the maximum intervention level has been reached, by pressing the MODE RIGHT button again the intervention level restarts from the minimum value.

The function of the "Reset" menu is shown in the following paragraph.

Press MODE SET briefly to go back to the main MENU.



1.1.5) / 1.2.5) Reset (Delete)

The "Reset" (Delete) menu consists of the following items:

1.1.5.1)/1.2.5.1) Yes

1.1.5.2)/1.2.5.2) No

This function allows to restore the initial preset values.

Using the MODE UP or MODE DOWN buttons, the desired function may be selected and by briefly pressing the MODE RIGHT button on the "Yes" function, the initial preset values will be restored..

Press the MODE SET button briefly to return to the "Riding mode" menu. A further press returns to the main "MENU".



1.3) Urban / 1.4) Explore

The "Urban and Explore" menus comprise the following items:

1.3.1)/1.4.1) AEM

1.3.2)/1.4.2) AEB

1.3.3)/1.4.3) ATC

1.3.4)/1.4.4) ABS

This function allows to view the intervention level of each individual control system associated with the Urban or Explore Riding mode.

These modes cannot be changed.

Press MODE SET briefly to go back to the main MENU.



2) Multimedia (Multimedia)

The "Multimedia" menu consists of the following items:

2.1) Devices status

2.2) Reset pairing (Delete pairing)

2.3) Devices pairing

The functions available in the "Multimedia" menu are described in the following paragraphs.

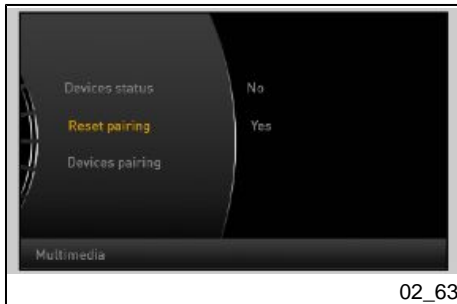
Press MODE SET briefly to go back to the main MENU.



2.1) Devices status

The "Devices status" menu allows to view the list of paired devices.

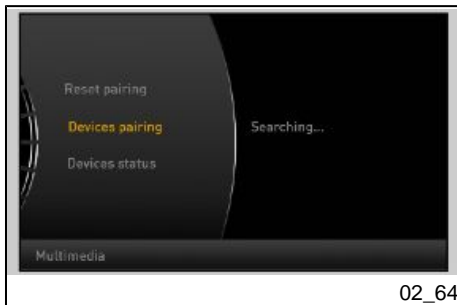
Press MODE SET briefly to return to the "Multimedia" menu.



2.2) Reset pairing (Delete pairing)

The "Reset pairing" menu allows to delete and consequently disconnect all paired devices.

Press MODE SET briefly to return to the "Multimedia" menu.



2.3) Devices pairing

The "Devices pairing" menu allows to pair new devices.

Press MODE SET briefly to return to the "Multimedia" menu.



3) Vehicle

The "Vehicle" menu contains the following options:

- 3.1) Calibration Mode
- 3.2) AQS down (visible where implemented)
- 3.3) Shift light (Shift light)
- 3.4) Emergency brake (Stop light)
- 3.5) Headlamp mode

The functions available in the "Vehicle" menu are described in the following paragraphs.

Press MODE SET briefly to go back to the main MENU.



3.1) Calibration (Calibration)

When the Calibration function is selected (with the vehicle at a standstill), once calibration is activated by pressing MODE RIGHT briefly to the right, a screen appears with the following description at the top right of the display:

"Calibration - Speed not correct"



02_67

To calibrate the a-PRC system (Aprilia Performance Ride Control), ride the vehicle on a straight section of level road in the second gear at a speed of 40 +/- 2 km/h (24.85 +/- 1.24 mph) for about 10 seconds.

The message "Calibration - Hold speed" appears on the digital display.



02_68

If calibration is completed successfully, the message "Calibration done - Key OFF (60s)" is displayed.

NOTE

WHEN THE TEXT "Calibration done - Key OFF (60s)" APPEARS ON THE DISPLAY, STOP THE VEHICLE AND TURN THE IGNITION TO KEY-OFF FOR AT LEAST 60 SECONDS TO COMPLETE CALIBRATION.

THIS ALLOWS THE CALIBRATION TO BE STORED IN THE MEMORY.

NOTE

THE CALIBRATION PROCEDURE IS USED TO OPTIMISE a-PRC FUNCTIONALITY IN THE EVENT OF CHANGING TYRE TYPE OR FINAL DRIVE RATIO (PINION-SPROCKET COMBINATION).

IF THE VEHICLE IS FITTED WITH TYRES OTHER THAN THOSE INDICATED IN THIS USE AND MAINTENANCE MANUAL, THE LEVEL SETTINGS OF THE SYSTEM MAY NEED TO BE MODIFIED IN ORDER TO OBTAIN THE SAME BEHAVIOUR AS BEFORE.

NOTE

TURN THE IGNITION SWITCH OFF TO ABORT THE CALIBRATION PROCEDURE.

DURING CALIBRATION, ATC IS AUTOMATICALLY DEACTIVATED (IF PREVIOUSLY ACTIVATED).

3.2) AQS down (visible where implemented)

This function may be used to enable or disable the automatic matching system allowing downshifts without using the clutch.

The activation status can be changed by briefly pressing the button. The function will be cyclically changed by further pressing the MODE RIGHT button.

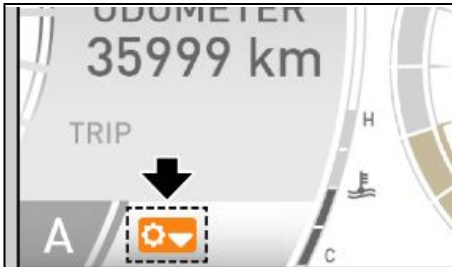
Press MODE SET briefly to go back to the main MENU.

AQS ICON KEY:

- Black icon (day mode)/White icon (nigh mode) = AQS enabled
- Grey icon = AQS disabled by user
- Orange icon = AQS disabled by system
- Red icon = AQS system malfunction



02_69



02_70



3.3) Shift light (Shift light)

This function is used to set the rotation threshold; if this is exceeded, the engine rpm bar will flash and the immobilizer indicator light will switch on.

The threshold can be increased by shortly pressing the MODE RIGHT button.

Once the maximum rotation number is reached, the threshold starts again from 6000 rpm.

Press MODE SET briefly to exit edit mode.



3.4) Emergency brake (Stop light)

When enabled, this function automatically activates the hazard warning lights in the event of hard and/or sudden braking. Activation of the hazard warning lights is not dependent on whether the ABS system is triggered.

If it is not active, a brief press on the MODE RIGHT button will activate the function and a further press will deactivate it again.

Press MODE SET briefly to go back to the main MENU.



3.5) Headlamp mode

This function is used to set the operating mode of the lights.

The use mode can be selected by shortly pressing the MODE RIGHT button. These modes will be displayed cyclically every time you press the button.

Auto = Automatic

Manual = Manual

Emergency = Emergency; (emergency mode must only be used in the event of a malfunction of the headlamp; and enables usage of the low beam headlights and DRL lights only)

Press MODE SET briefly to go back to the main MENU.

NOTE

THE RELATIVE ICON IS SHOWN ON THE DIGITAL DISPLAY WHEN "AUTO" MODE IS ACTIVE.

4) Display

The "Display" menu contains the following options:

4.1) Backlight (Back-light)

4.2) Mode

The functions available in the "Display" menu are described in the following paragraphs.

4.1) Backlight (Back-light)

This function allows you to change the backlight of the digital display, from a minimum value of 1 to a maximum value of 10.

The back light intensity can be increased with one point by briefly pressing on the MODE RIGHT button. Once the maximum level is reached, a further press will restart the setting from the minimum value.

Keep the MODE RIGHT button pressed to continuously increase the value until the button is released.

Press MODE SET briefly to go back to the main MENU.





4.2) Mode

This function allows you to change the display mode of the digital display:

- AUTO (Automatic)
- DAY (Day)
- NIGHT (Night)

The use mode can be selected by shortly pressing the MODE RIGHT button. These modes will be displayed cyclically every time you press the button.

Press MODE SET briefly to go back to the main MENU.

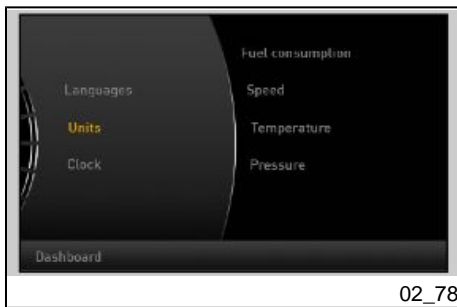


5) Dashboard (Dashboard)

The "Dashboard" menu contains the following options:

- 5.1) Units (Units)
- 5.2) Clock (Clock)
- 5.3) Languages (Languages)

The functions available in the "Dashboard" menu are described in the following paragraphs.



5.1) Units (Units)

This menu allows you to change the settings for displaying the units and is divided as follows:

- 5.1.1) Fuel consumption (Fuel consumption)
- 5.1.2) Speed (Speed)
- 5.1.3) Temperature (Temperature)
- 5.1.4) Pressure (visible where applicable)

Press MODE SET briefly to go back to the "Dashboard" menu.



02_79

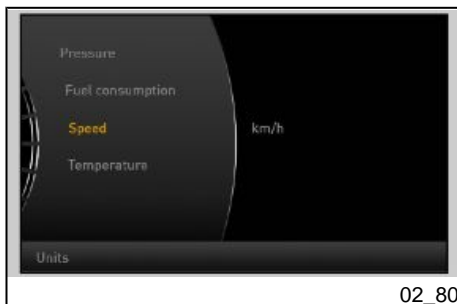
5.1.1) Fuel consumption (Fuel consumption)

This function is used to change the display of the fuel consumption measurement unit:

- km/l
- l/100 km
- mpg (UK)
- mpg (USA)

The measurement unit can be selected by shortly pressing the MODE RIGHT button. These units will be displayed cyclically every time you press the button.

Press MODE SET briefly to go back to the "Dashboard" menu.



02_80

5.1.2) Speed (Speed)

This function may be used to change the unit of measurement used for speed:

- km/h (kilometers per hour)
- mph (miles per hour)

The measurement unit can be changed by shortly pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the "Dashboard" menu.

NOTE

IF THE UNIT OF MEASURE SET AT THE FACTORY HAS BEEN CHANGED, THE SPEED'S UNIT OF MEASURE WILL FLASH FOR 30 SECONDS EACH TIME THE KEY IS ENGAGED.



5.1.3) Temperature (Temperature)

This function is used to change the measurement unit used for temperature:

- °C (Celsius degrees)
- °F (Fahrenheit degrees)

The measurement unit can be changed by shortly pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the "Dashboard" menu.



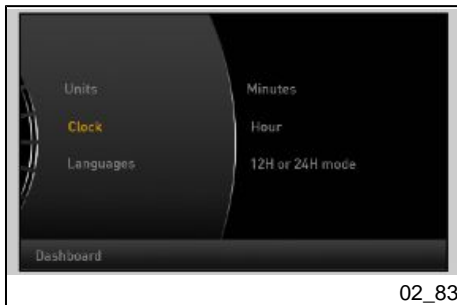
5.1.4) Pressure (visible where applicable)

This function is used to change the display of the tire pressure measurement unit:

- bar;
- psi.

The measurement unit can be changed by shortly pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the "Dashboard" menu.



5.2) Clock (Clock)

This menu allows to adjust the clock and change its display format. The menu is divided into the following items:

5.2.1) Minutes (Minutes)

5.2.2) Hours (Hours)

5.2.3) 12 H or 24 H mode (12 H or 24 H display)

Press MODE SET briefly to go back to the "Dashboard" menu.



02_84

5.2.1 Minutes / 5.2.2 Hours / 5.2.3 12H or 24H mode (12H or 24H display)

For the Minutes and Hours functions only, the value can be increased with one point with a brief press on the MODE RIGHT button. Once the maximum level is reached, a further press will restart the setting from the minimum value. Keep the MODE RIGHT button pressed to continuously increase the value until the button is released

For the 12H or 24H mode function only (12H or 24H display), briefly press the MODE RIGHT selector to change the time display format.

Press MODE SET briefly to go back to the "Clock" menu.



02_85

5.3) Languages (Languages)

This function is used to change the instrument panel display language:

- English
- Italian
- French
- German
- Spanish

The next language can be selected by shortly pressing the MODE RIGHT button. These languages will be displayed cyclically every time you press the button.

Press MODE SET briefly to go back to the "Dashboard" menu.



02_86

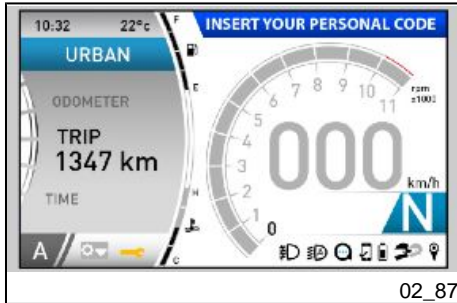
6) Service (Service)

The "Service" menu contains the following options:

- 6.1) Code recovery (Code recovery)
- 6.2) Change user code (Change user code)
- 6.3) Application
- 6.4) Boot loader

The functions available in the "Service" menu are described in the following paragraphs.

Press MODE SET briefly to go back to the main MENU.



6.1) Code recovery (Code recovery)

This function must be used should it be necessary to change the user code when the user no longer remembers the current code. Both keys stored in the vehicle memory are needed to access this function.

Once the function is activated, pressing the MODE SET briefly displays the message "INSERT KEY 1", requesting identification of the first key. Insert the key. If the correct key is recognised within twenty seconds, the message "INSERT KEY 2" is shown on the display. Insert the second key. If the second key is also recognised within twenty seconds, the dashboard resets the user code to the default code (five zeros - 00000). Enter the new user code following the "CHANGE USER CODE " procedure.



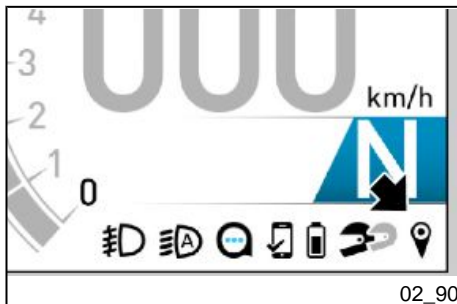


6.2) Change user code (Change user code)

This function may be used to modify the existing code (you must be in possession of the code itself in order to do this). The user code enables engine start even in the event of an immobiliser system fault. On a new vehicle, the user code is set by default as five zeros (00000) and the message "INSERT YOUR PERSONAL CODE" appears on the display for ten seconds when the ignition is switched on.

This function allows you to change the code itself and remove this message.

A value (from 0 to 9) is shown for the first figure of the code (furthest to left) on the display. Press MODE UP or MODE DOWN to modify the value. Press MODE SET briefly to confirm the selection. Repeat the operation for all the digits. Once the code is confirmed, the new code is shown steadily on the display to let the user verify that the code has been entered correctly. Turn the ignition off and then on again to unlock the dashboard. The last code set may be modified again in future. Access the setting mode again, enter the last user code used (OLD CODE), then enter a new user code (NEW CODE) as described previously.



GPS NAVIGATION (where applicable)

The "APRILIA MIA" system, paired with the "APRILIA" application, allows GPS indications to be shown on the digital display. By means of pictograms, distance and travel time data, the desired destination can be reached.

Consult the navigation guide by accessing the "APRILIA" application with your account. The navigation icon appears on the digital display after setting the destination address.

Press and hold down MODE RIGHT to access the GPS navigation directions and information screen.

NOTE

BY SETTING THE DESTINATION ADDRESS THROUGH THE "APRILIA" APPLICATION, THE DIGITAL DISPLAY AUTOMATICALLY DISPLAYS THE DIRECTIONS SCREEN.

NOTE

"SHORT PRESS": PRESS THE BUTTON AND RELEASE WITHIN 0.5 SECONDS;

"PRESS AND HOLD": PRESS THE BUTTON AND HOLD FOR AT LEAST 2 SECONDS.



02_91

Navigation screen key:

1) Trip log (A / B) / Navigation information

(If the Aprilia MIA ECU is present): telephone, music, media player.

(Where the components are present): tyre pressure, heated handgrips;

2) Riding mode selected;

3) Clock (displayed in 24 or 12 hour format, without the AM / PM indication);

4) Ice hazard icon (displayed at temperatures from -15 C° (5 F°) to +3 C° (37.4 F°)) / Low battery voltage warning icon / Tyre pressure too low alarm (visible where foreseen);

5) Ambient temperature (viewable in °C or °F);

6) Fuel gauge;

7) Indication regarding the manoeuvre after next manoeuvre and the relative distance;

8) distance remaining to arrival at destination;

9) time remaining to arrive at destination;

10) Destination address / Information pop-up;

11) exit number to take on a roundabout;

12) indication of the next turn;

13) distance relative to the indication "L";

14) Speed (speedometer) (displayed in km/h or in mph);

15) Gear selected (displayed only with engine running and vehicle moving);

16) GPS/Navigator (where active);

17) Rider/passenger intercom;

18) Battery level indicator relative to connected smartphone;

- 19) Audio transmission with smartphone for calling, sending vocal commands and playing music;
- 20) Data link with smartphone;
- 21) Automatic lights mode active;
- 22) Fog lights active (where foreseen)
- 23) Open side stand indicator;
- 24) Icon indicating that ABS system is effective on front wheel only / ABS system disabled (only in the "OFF-ROAD" riding mode);
- 25) Indication regarding the speed limit applicable on the current road;
- 26) General warning icon;
- 27) Water temperature value (displayed in °C or °F);
- 28) Service icon;
- 29) Downshift status (where implemented);

In the space dedicated to navigation information it is possible to view:

- If not navigating, the list of the last destinations started (if any) is present;
- If navigating, the current destination is present.

Ignition switch (02_92)

The ignition switch is on the front of the fuel tank where the steering headstock is.

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

The lights can only be switched off with the ignition switch turned to OFF.

NOTE

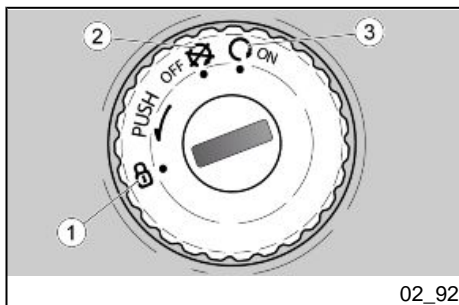
THE KEY IS USED IN THE IGNITION/STEERING LOCK SWITCH, THE KEYHOLE FOR THE FUEL TANK CAP, AND FOR THE SADDLE COMPARTMENT.

NOTE

THE LIGHTS COME ON AUTOMATICALLY AFTER THE ENGINE STARTS.

NOTE

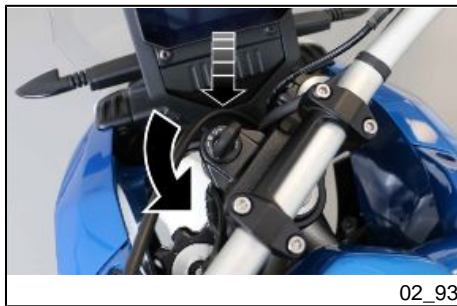
KEEP THE SPARE KEY IN DIFFERENT PLACE, NOT WITH THE VEHICLE.



LOCK (1): The steering is locked. It is not possible to start the engine or switch on the lights. The key can be extracted

OFF (2): The engine and lights cannot be set to work. The key can be extracted.

ON (3): The engine can be started. The key cannot be extracted.



Locking the steering wheel (02_93)

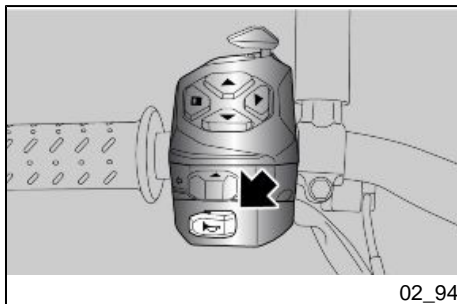
To lock the steering:

- Turn the handlebar fully to the left.
- Turn the ignition switch to "OFF".
- Push the key in and turn it anticlockwise (to the left), and steer the handlebar slowly until the key engages in the "LOCK" position.
- Extract the key.

CAUTION



TO PREVENT THE LOSS OF CONTROL OF THE VEHICLE, NEVER SET THE KEY ON ITS "LOCK" POSITION WHILE RUNNING.



Horn button (02_94)

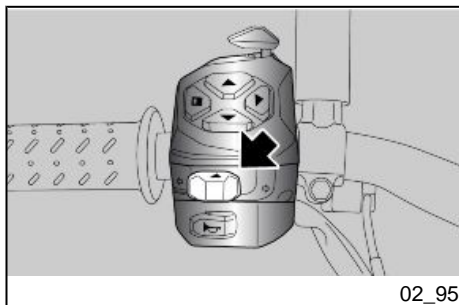
Press it to activate the horn.

Switch direction indicators (02_95)

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.

CAUTION

IF THE TURN INDICATOR LIGHT FLASHES RAPIDLY, IT MEANS THAT AT LEAST ONE OF THE TURN INDICATORS IS DISCONNECTED OR DAMAGED.



The turn indicators have a self-cancelling function that implements the following logic.

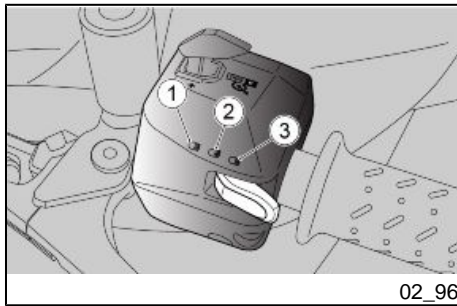
With the vehicle at standstill (speed = zero), the turn indicators continue flashing indefinitely.

With the vehicle in motion, the turn signals self-cancel when one of the two following conditions is met:

- After a time (t) = 40 sec.
- After riding 500 m (0.31 mi)

If the vehicle speed reaches zero during this period, the time and distance counts are reset and start again from zero when the vehicle starts moving once again.

Switching on the opposite side turn indicators without pressing the switch in the intermediate reset position causes both the time and distance counters to reset and recommence from zero.



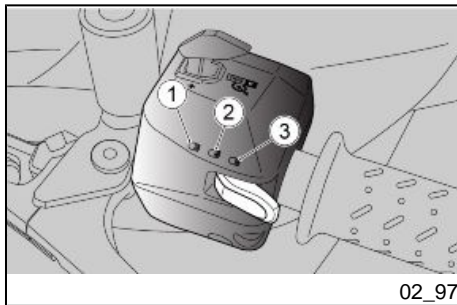
High/low beam selector (02_96)

In DRL ON mode:

- the DRL lights only are lit when the selector is left in the centre position (2).
- pressing the selector into position (1) switches on the high beam headlight
- press the selector into position (3) to flash the high beam headlamp to signal danger or an emergency.

When the low beam headlights are on (DRL OFF):

- the low beam lights only are lit when the selector is left in the centre position (2).
- pressing the selector into position (1) switches on the high beam headlight
- press the selector into position (3) to flash the high beam headlamp to signal danger or an emergency.



Passing button (02_97)

Press button (3) to flash the high beam headlamp to signal danger or an emergency.

Releasing the switch deactivates the high beam flash.

Daytime/night lights switch (02_98, 02_99)

This button allows to select the use mode of the daytime running lights (DRL), night lights (low / high beams) and the activation of the fog lights (where provided).

- Press the button briefly to cycle through the modes available (daytime/night-time lights).
- A long press of the button will activate the fog lights regardless of the lighting mode active.
- A further long press will deactivate the fog lights.

NOTE

IF THE "HEADLAMP MODE" FUNCTION (SEE PARAGRAPH "ADVANCED FUNCTIONS") IS SET TO "AUTO" (AUTOMATIC), THE TWILIGHT SENSOR IS ALSO USED TO SWITCH THE LOW BEAM HEADLIGHTS ON AUTOMATICALLY IN LOW LIGHT CONDITIONS.

IF THE "HEADLAMP MODE" FUNCTION IS SET TO "EMERGENCY", THE DAY-TIME RUNNING LIGHTS (DRL) ARE DISABLED AND THE LOW BEAM HEADLIGHTS ONLY REMAIN PERMANENTLY LIT.

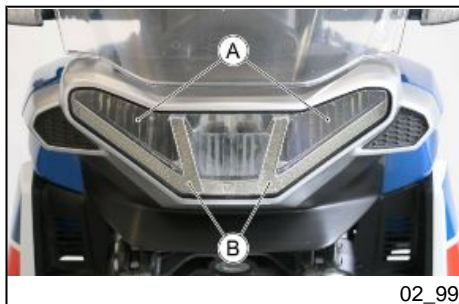
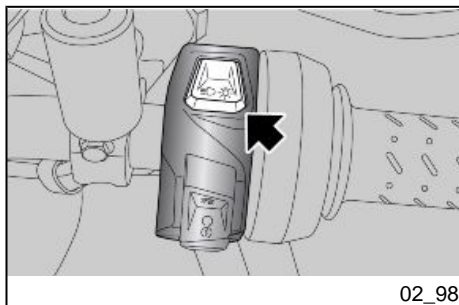
NOTE

THE FOG LIGHTS WILL BE DEACTIVATED WITH EACH KEY OFF/ON.

THE LOW/HIGH BEAM LIGHTS ARE ONLY ON WHEN THE ENGINE IS RUNNING.

NOTE

WHEN THE LOW BEAM HEADLIGHTS ARE ON (A), THE BRIGHTNESS OF THE DRL LIGHTS (B) IS DIMMED.





Heated handgrip control (02_100)

(if applicable)

The activation, deactivation and heat level of the heated hand grips is performed with the control button.

The page dedicated to setting the heated grips can be viewed by scrolling through the pages in the space dedicated to the trip log.

By briefly pressing the MODE UP button it is possible to activate the heating and subsequently with further presses to increase the heat intensity level.

By briefly pressing the MODE DOWN button it is possible to lower the intensity level and subsequently deactivate the system.

NOTE

HEATING OF THE HAND GRIPS, REGARDLESS OF THE INTENSITY LEVEL CHOSEN, ONLY OCCURS WITH THE ENGINE STARTED AND OVER 2000 rpm

NOTE

THE HEATED GRIPS ARE OFF WITH EACH KEY OFF-ON.

NOTE

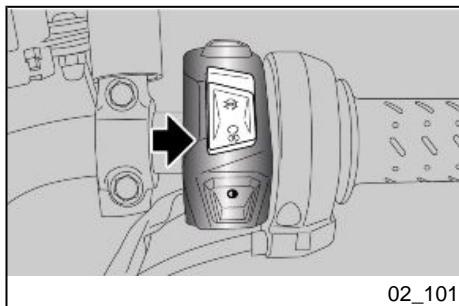
THE FLASHING SYMBOL INDICATES THE MALFUNCTION OF A GRIP.

Start-up button (02_101)

By pressing the button on the right side handlebar, the starter motor spins the engine.

The following conditions are necessary to permit engine start:

- If the vehicle is in neutral with the side stand extended: Press the starter button on the right side handlebar.
- If the vehicle has any gear is engaged and the stand is closed: Pull the clutch lever and at the same time press the starter button on the right side handlebar.



Engine stop switch (02_102)

CAUTION



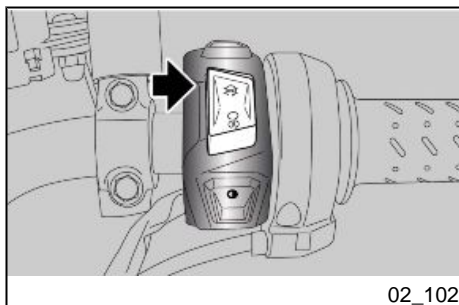
DO NOT OPERATE THE ENGINE STOP SWITCH WHILE RIDING THE VEHICLE.

It acts as a safety or emergency switch.

Press and hold the ignition switch in the "KEY ON" position to start the engine; press the switch to set it to "KEY OFF" to stop the engine.

NOTE

WITH ENGINE OFF AND THE IGNITION SWITCH SET TO «ON» THE BATTERY MAY DISCHARGE.



Button Cruise Control (02_103, 02_104, 02_105, 02_106)

CAUTION

ALWAYS SWITCH OFF THE SYSTEM (SWITCHING FROM ON TO OFF) BEFORE CHANGING THE RIDING MODE.



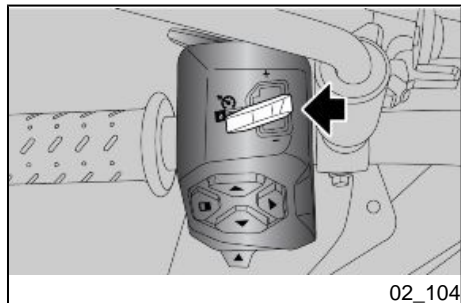
Cruise control is an electronic system that keeps the vehicle at a constant speed selected by the rider.

Push and hold (more than 1 second) the cruise control selector to the left switch the system on (OFF -> ON). The relative indicator on the dashboard instrument panel flashes to confirm that the system is on.

Going from OFF to ON is also possible with the engine off, as long as the engine stop switch is on RUN.

NOTE

IF THERE IS AN ANTI-THEFT SYSTEM, IT SHOULD BE UNLOCKED TO ALLOW THE SYSTEM TO BE ACTIVATED.



The system can be used in certain ranges of speeds for the gears from the third to the sixth, even during deceleration and with the throttle grip released.

The maximum and minimum settable speed values depend on the gear currently selected

Once at the required speed, the cruise control system may be activated by the rider (switched to SET state) by pushing the cruise control selector briefly (for less than 1 second) to the left, provided that the following conditions are met:

- The engaged gear cannot be less than the third and even in neutral;
- The brakes should not be operated;
- The clutch must not be operated;
- The speed conforms to the limit established for each gear

The indicator lamp on the instrument cluster lights continuously to indicate that the system is active.



02_105

The rider may now release the throttle grip, as the system will automatically maintain the set speed.

It is possible to increase or decrease the cruising speed by a short press (less than 1 second) of the cruise control switch up or down (increase / decrease the speed of 2 km/h (1.24 mph)) or via a long press (from 1 to 20 seconds) up or down (increase / decrease in the constant speed). The throttle may be used to increase speed temporarily by up to 30 km / h (18.64 mph) for the third, fourth and fifth gear and 40 km / h (24.85 mph) for the sixth gear with respect to the selected speed without turning off the system (e.g. passing). If the increase in speed exceeds 30 km/h (18.64 mph) for the third, fourth and fifth gear and 40 km/h (24.85 mph) for the sixth gear, it will cause a system deactivation (change from SET to ON, flashing light). Released the throttle grip, the motorcycle will return to the selected cruising speed.



02_106

The system is deactivated (change from SET to ON status) if any of the following conditions:

- By operating the clutch;
- Operating the front/rear brake;
- Inserting a lower gear than 3rd or shift into neutral;
- By briefly moving the selector to the left;
- If the engine rpm limiter is activated;
- If the tracking control is activated;
- If climbs or particularly steep descents appear;
- Turning the throttle grip in the direction of contrary rotation

The system can be activated any time observing as usual the previously described conditions and keeping the selector pressed upward (for more than 1 second) if you want to reconfirm the last cruise speed used or by briefly moving the selector to the left to set a new cruising speed.

The system turns off completely (change from SET to the OFF state), then the stored speed is lost and the instrument cluster light goes off, if any of the following conditions are present:

- Keeping the cruise control selector moved to the left (for more than 1 second);
- Run-off interrupter activated;
- Engine stop (Key-OFF);

- Failure, malfunction of a component involved in controlling the speed (tone wheels sensors, control units, etc.)

CAUTION

WHEN ENTERING THE ADJUSTMENT MODE OF THE CRUISE CONTROL, THE QUICK SHIFT SYSTEM IS DISABLED.

System a-PRC (Aprilia Performance Ride Control) (02_107, 02_108, 02_109)

Aprilia Performance Ride Control is an integrated electronic control system that helps improving the performance and the driver's safety.

a-PRC consists of 5 systems:

AEM: Aprilia Engine Map;

AEB: Aprilia Engine Brake;

ABS: Anti-locking system;

ATC: Aprilia Traction Control;

AQS: Aprilia Quick Shift (where required)

AEB

The adjustment level of the AEB (engine brake) parameter is subjective and depends on the user's personal preferences.

Aprilia Engine Brake is a system which manages the engine brake in the first two gears, with three selectable levels:

- Level 1 is the minimum engine brake level, the least invasive.
- Level 2 is intermediate.

- Level 3 is the maximum engine brake level. Suitable for off-road use.

AEM

Aprilia Engine Map is a system controlling power delivery maps:

- Level 1 results in an aggressive management of the throttle.
- Level 2 results in an intermediate management of the delivery.
- Level 3 results in a smoother engine response to the throttle control.

ABS

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 improves vehicle control provided that the physical limits of vehicle grip on the road are not exceeded. 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 misjudgement or improper use of brakes.

The ABS system can be deactivated (only when the vehicle is stationary and in the OFF ROAD riding mode) or active. If active the system may be set to three different levels from 1 (minimum slip control) to 2 (maximum slip control), from the specific setting screen (see paragraph in the "SELECTING MAPS").

Level "1" is suitable for off-road use by expert riders under poor grip conditions. ABS is effective on the front wheel only.

Level 2 is suitable for day-to-day usage of the vehicle in all conditions - e.g. on urban or extra-urban roads, in wet surface conditions.

CAUTION

BEFORE RIDING OFF, CHECK THE ABS LEVEL OF CONTROL SELECTED. SWITCHING OFF THE VEHICLE (KEY OFF/ON) OR CHANGING THE RIDING

MODE REACTIVATES THE SYSTEM (IF DEACTIVATED) AND RETURNS THE ABS OPERATION TO THE LAST ABS LEVEL USED.

NOTE

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



THE ANTI-LOCK 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.



When the vehicle is started, after the initial instrument panel check cycle, the ABS warning lamp flashes until the vehicle reaches a speed of 3.1 mph (5 km/h), after which it goes out.

If, with the ABS system activated (level 1, 2), the ABS warning lamp lights steadily or continues to flash even after exceeding a speed of 5 km/h (3.1 mph), this means that a fault has been detected and that the ABS system has been disabled.

In this case carry out the following operations:

- stop the vehicle;
- Key OFF-ON;
- ride the vehicle to a speed above 5 km/h (3.1 mph): the ABS warning light must be turned off;
- the ABS system is working.

If the ABS disabled indication remains:

NOTE

SHOULD THIS OCCUR, CONTACT AN Aprilia Approved Dealer.

NOTE



IN CASE OF EXTENDED REAR WHEEL ROTATION WITH THE FRONT ONE LOCKED (BURNOUT, MOTORCYCLE ON THE CENTRE STAND, ETC.) THE SYSTEM CAN BE DEACTIVATED AUTOMATICALLY WHEN THE ABS and a-PRC INDICATOR LIGHT STAYS ON.

TO REACTIVATE, TURN THE IGNITION SWITCH OFF AND THEN ON AGAIN AND SELECT THE REQUIRED SETTING.

NOTE



THE SAFETY PROVIDED BY THE ABS DOES NOT, IN ANY CASE, JUSTIFY RISKY MANOEUVRES. EVEN THOUGH THE ABS SYSTEM ENSURES GREATER

VEHICLE CONTROL IN THE EVENT OF EMERGENCY BRAKING, ALWAYS OBSERVE THE CORRECT MINIMUM SAFETY DISTANCE FROM THE VEHICLE IN FRONT OF YOU.



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 FROM THE SENSOR IS CONSTANT ON ALL 360 DEGREES. 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.



WHERE THE MOTORCYCLE HAS AN ABS SYSTEM, NON-APPROVED BRAKE PADS AND TYRES COMPROMISE SMOOTH BRAKING, DRASTICALLY REDUCING DRIVING SAFETY.

NOTE

THE SYSTEM'S SENSORS, HAVING A SIGNIFICANT ACCURACY OF READING THE TONE WHEELS, MAY GENERATE, A MOTORCYCLE STOPPED AND THE ENGINE RUNNING, INDICATION OF SPEED OF SOME km / h (mph) ON THE DIGITAL DISPLAY.

SUCH BEHAVIOUR IS TO BE CONSIDERED NORMAL AND DOES NOT CREATE MALFUNCTIONS IN THE SYSTEM.



IF THE GAP FOR ONE OR BOTH SENSORS IS NOT WITHIN THE TOLERANCE INDICATED BELOW, TAKE THE MOTORCYCLE TO AN Approved Aprilia Dealer

Characteristic

Distance between tone wheel and front sensor

0.5 - 2.00 mm (0.020 - 0.079 in)

Distance between tone wheel and the rear sensor

0.5 - 2.00 mm (0.020 - 0.079 in)

Aprilia Traction Control

Traction control: a system designed to help the rider control wheelspin.

ATC is a system that monitors and, if necessary, limits rear wheelspin under acceleration to increase vehicle stability.

While ATC improves vehicle control, it does not allow the physical handling limits of the vehicle to be exceeded. 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 ATC compensate for any rider error or improper use of the throttle.



THE TRACTION CONTROL SYSTEM CANNOT PREVENT FALLS WHILE CORNERING.



ACCELERATING SUDDENLY WHILE THE VEHICLE IS INCLINED OR WITH THE HANDLEBARS TURNED WILL PUT THE VEHICLE IN AN UNSTABLE STATE THAT IS EXTREMELY DIFFICULT TO RECTIFY.

DO NOT SPEED RECKLESSLY. LIMITS OF GRIP ARE DETERMINED BY LAWS OF PHYSICS WHICH EVEN THE ATC SYSTEM CANNOT OVERCOME.

The ATC system also responds optimally and limits wheelspin during cornering.

ATC SYSTEM DEACTIVATED MANUALLY

At key-on and after the initial instrument panel check cycle, if the system is deactivated, the a-PRC indicator light remains lit constantly until the rider activates the system again.

ATC SYSTEM ACTIVE

At key-on and after the initial instrument panel check cycle, if the system was active at the last key-off, the a-PRC indicator light flashes until the vehicle exceeds 5 Km/h (3.1 mph), after which it extinguishes.

If the a-PRC indicator light remains constantly lit, this means that a fault has been detected and the ATC system has been automatically deactivated.

In this case carry out the following operations:

- stop the vehicle;
- Key OFF-ON;
- reactivate the system manually
- ride the vehicle to a speed above 5 km/h (3.1 mph): the a-PRC indicator light should extinguish;
- ATC system working correctly.

If the 'ATC system deactivated' indication persists:

NOTE

SHOULD THIS OCCUR, CONTACT AN Aprilia Approved Dealer.



THE ATC SYSTEM ACTS ON THE REAR WHEEL ON THE BASIS OF INFORMATION RECEIVED FROM TONE WHEELS INSTALLED ON BOTH WHEELS. ALWAYS CHECK THAT THE TONE WHEELS ARE CLEAN, AND REGULARLY CHECK THAT THE GAP BETWEEN THE TONE WHEEL AND THE SENSOR IS CONSTANT AROUND THE ENTIRE CIRCUMFERENCE OF THE TONE WHEEL ITSELF. 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.

NOTE

IN CASE OF EXTENDED REAR WHEEL ROTATION WITH THE FRONT ONE LOCKED (BURNOUT, MOTORCYCLE ON THE CENTRE STAND, ETC.) THE SYSTEM CAN BE DEACTIVATED AUTOMATICALLY WHEN THE a-PRC INDICATOR LIGHT STAYS ON.

TO REACTIVATE, TURN THE IGNITION SWITCH OFF AND THEN ON AGAIN AND SELECT THE REQUIRED SETTING.

NOTE

a-PRC SYSTEM SENSORS, WITH HIGH PRECISION OF READING THE TONE WHEELS, CAN GENERATE, WITH MOTORCYCLE AT STANDSTILL AND ENGINE RUNNING, A km/h (mi) SPEED INDICATION IN THE DIGITAL DISPLAY.

SUCH PERFORMANCE IS NORMAL AND DOES NOT CAUSE MALFUNCTIONING OF THE a-PRC SYSTEM.

Characteristic

Distance between tone wheel and front sensor

0.5 - 2.00 mm (0.020 - 0.079 in)

Distance between tone wheel and the rear sensor

0.5 - 2.00 mm (0.020 - 0.079 in)

The system is active by default. However, if the system has been deactivated, to reactivate it, access the dedicated function in the MENU.

Using the MODE navigation buttons, select level 1 if the level was set to 0.

When the ATC system is activated with the vehicle at a standstill, the a-PRC indicator light flashes until the vehicle reaches a speed of 5 Km/h (3.1 mph).

Press the MODE UP and MODE DOWN buttons briefly to increase or decrease the ATC level setting from "0" (OFF) to "4" (maximum system control).

Using the ATC/Cruise control command (if the cruise control is not active) it is possible to modify the control value of the ATC system directly from the main screen, in all riding modes.

The ATC value is increased or decreased (from 1 to 4) with short up or down presses of the control.

From level 1, the ATC is permanently disabled with a long press downwards.

To reset the ATC, make a long or short push upwards.

With a prolonged upward press of the control (when stationary), all the ATC / ABS / AEM / AEB parameters are reset to the factory values, including the values of the OFF ROAD and INDIVIDUAL riding modes, if modified from the menu.

Regardless of the data displayed in trip log A or B, the modification of the ATC value brings the traction control (ATC) value to the foreground.

CAUTION

TO GAIN FAMILIARITY WITH THE ATC SYSTEM, PREFERABLY USE LEVEL "4" TO START WITH, THEN TRY THE OTHER LEVELS TO IDENTIFY WHICH ARE THE BEST SUITED TO YOUR RIDING STYLE AND FOR DIFFERENT ROAD AND WEATHER CONDITIONS.

LEVEL "1" SUITABLE FOR OFF-ROAD USE.

WARNING: ATC AT LEVEL "1" IS ABSOLUTELY NOT SUITABLE FOR ROAD USE.

ALL OTHER LEVELS ARE INTERMEDIATE SETTINGS BETWEEN LEVEL "1" AND LEVEL "4".

LEVEL 4 IS PARTICULARLY SUITABLE ON ROAD SURFACES IN THE WET/RAIN.

To deactivate the system, set the control level to "0".

The a-PRC indicator light is constantly lit.

CAUTION

WHEN THE ATC SYSTEM DEACTIVATED, A POPUP WITH THE MESSAGE "ATC DISABLED" IS SHOWN ON THE SCREEN TO WARN THE RIDER THAT THERE IS NO TRACTION CONTROL ASSISTANCE.

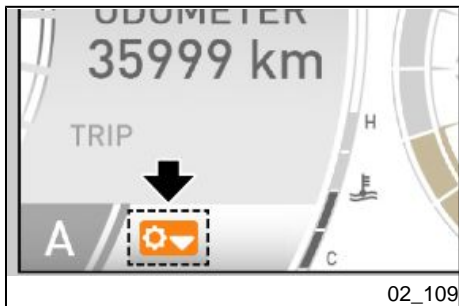
THIS POPUP CLEARS AFTER 30 SECONDS.

NOTE

WHEN THE BATTERY IS CONNECTED FOR THE FIRST TIME, THE a-PRC INDICATOR LIGHT IS CONSTANTLY LIT (SYSTEM NOT ACTIVE)

NOTE

IF THE IGNITION SWITCH IS TURNED OFF AND LEFT OFF FOR MORE THAN 30 SECONDS, AT THE NEXT KEY-ON, THE ATC SYSTEM MAINTAINS THE SETTINGS SELECTED PREVIOUSLY.



02_109

Aprilia Quick Shift (where required)

It is a system that allows go up and down the gears without having to use the clutch 'and without changing the position of the throttle grip.

It uses the gear shift sensor signal on the gear lever to shift gears more quickly with a lower decrease in rpm than a traditional gear shift as regards upshifting.

The system is only active above an engine speed: of approximately 3,000 rpm.

CAUTION

THE CLUTCH MUST BE USED FOR UPSHIFTS AT ENGINE SPEEDS BELOW 3,000 RPM.

CAUTION

THE SYSTEM IS ACTIVE WHEN SHIFTING UP ONLY WITH THE THROTTLE OPEN.

It can operate when downshifting as long as all the required conditions are met, including an rpm less than the maximum threshold, which varies according to the gear. If the downshifting system is not available temporarily for some reason (e.g. RPM too high, first gear engaged), the instrument panel icon will be orange.

TABLE OF RECOMMENDED SETTINGS

Riding mode	ATC	ABS	AEM	AEB	Road surface
Off Road	1	1	1	3	Customisable (all parameters may be modified); designed for use on variable low-grip surfaces
Individual	2	2	2	2	Customisable (all parameters may be modified)
Explore	2	2	2	2	Intended for more aggressive usage than the "Urban" riding mode

Riding mode	ATC	ABS	AEM	AEB	Road surface
Urban	3	2	3	1	For day-to-day non performance-oriented usage. (very active traction control)

ATC: LEVELS 3 / 4 ARE TO BE USED IN POOR GRIP, RAIN CONDITIONS

NOTE

THE TABLE IS ONLY INTENDED AS A GUIDELINE FOR SETTING THE LEVELS OF EACH CONTROL SYSTEM. EACH RIDER MAY PERSONALISE THE LEVELS TO THEIR OWN PREFERENCE IN ACCORDANCE WITH ABILITY, RIDING STYLE AND ROAD CONDITIONS.

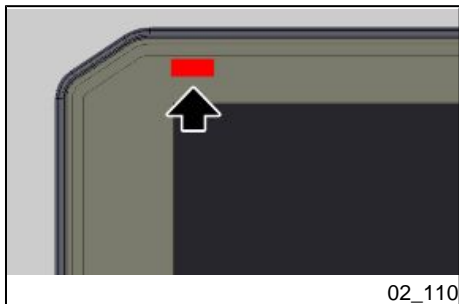
THE ONLY USER-MODIFIABLE RIDING MODES ARE OFF-ROAD AND INDIVIDUAL.

FOR MORE INFORMATION ON LEVEL SETTINGS, SEE THE RELATIVE PARAGRAPHS FOR EACH INDIVIDUAL FUNCTION.

The light signalling of the a-PRC system consists of the orange a-PRC indicator light on the right side.

a-PRC SYSTEM INDICATOR LIGHTS KEY

- **Indicator light off:** with system activated with vehicle in motion or system activated after exceeding 5 Km/h (3.1 mph) after key-on;
- **Indicator light continuously lit:** system deactivated deliberately by rider, or deactivated as a result of a malfunction;
- **Indicator light flashing slowly:** with system active after key-on before exceeding 5 Km/h (3.1 mph) or in the case of certain malfunctions causing ATC level to be locked ("+" and "-" buttons disabled);
- **Indicator light flashing quickly:** when the ATC system intervenes effectively on the traction control.



Immobilizer system operation (02_110, 02_111, 02_112)

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 aerial inside 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 AN Authorised Aprilia DEALER.

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.



In the event the instrument panel detects a fault with the immobilizer system when the key is connected, you will need to enter the user code to start the motorcycle. At the same time the indicator light appears on the instrument panel, the general red warning icon will come on.



Once the code has been correctly entered, the identified error will be displayed on the screen. It is then possible to start the motorcycle so you can go immediately to an Authorised **Aprilia** Dealership.

CAUTION

PRESSING OR MOVING ANY CONTROL ON THE LEFT SWITCH CLUSTER, IT IS POSSIBLE TO REMOVE THE ERROR NOTIFICATION SCREEN, BUT THE SCREEN WILL BE VISIBLE AGAIN AFTER ABOUT 10 SECONDS.



02_113

Opening the saddle (02_113, 02_114, 02_115)

- Rest the vehicle on its stand.
- Insert the key in the lock of the saddle located on the left side fairing.
- Turn the key clockwise.



02_114

- Slightly press the middle of the saddle's rear part so that the hook is easily released; lift and slide off the saddle backwards.

CAUTION

BEFORE LOWERING AND LOCKING THE SADDLE, MAKE SURE THAT THE IGNITION KEY HAS NOT BEEN FORGOTTEN IN AN UNSUITABLE POSITION UNDER THE SADDLE.



02_115

To lock the saddle:

- Place the saddle's front part in its seat and lower the rear part.
- Press the rear part to trip the lock.



BEFORE RIDING, MAKE SURE THAT THE SADDLE IS CORRECTLY LOCKED.



USB Port (02_116)

There is a USB socket on the LH side of the motorcycle, near the digital display.

To use it, remove the protection cap.



TO AVOID THAT WATER AND/OR HUMIDITY CAN DAMAGE THE USB PLUG, DO NOT CONNECT ANY DEVICES IN CASE OF RAIN.



IF A USB DEVICE IS CONNECTED, ENSURE THE CORRECT POSITIONING OF THE CABLE TO AVOID THAT IT WILL BE SMASHED.

The USB port is active once the key is turned to «ON».

WARNING

PROLONGED USE OF THE PLUG SOCKET MAY RESULT IN PARTIAL DISCHARGE OF THE BATTERY.

USB PORT

Output voltage	(5.00+/-0.25) DC
Charging current	1A Max

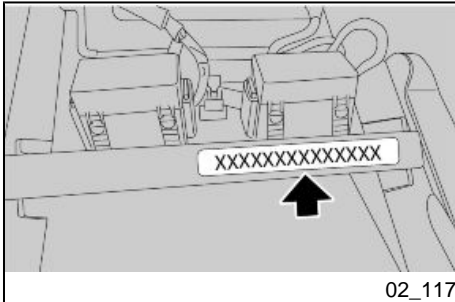
Identification (02_117, 02_118)

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.



FRAME NUMBER

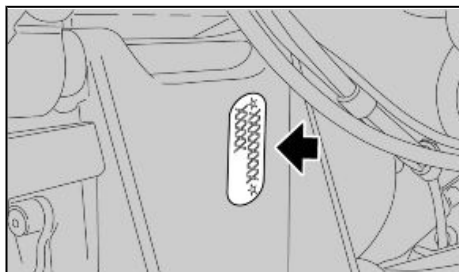
The frame number is stamped on the frame crossbar under the seat.

Frame no.

ENGINE NUMBER

The engine number is stamped on the engine crankcase, at the rear near the shock absorber.

Engine No.



02_118

TUAREG 660



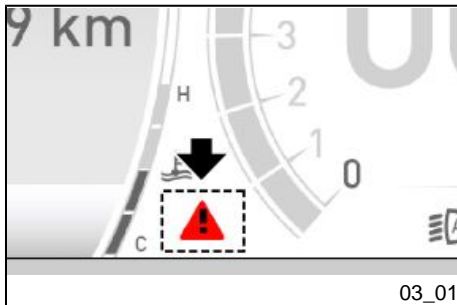
Chap. 03
Use

Checks (03_01, 03_02)

CAUTION



BEFORE SETTING-OFF, ALWAYS CARRY OUT A PRELIMINARY CHECK OF THE VEHICLE, SO THAT IT OPERATES CORRECTLY AND SAFELY. FAILURE TO DO SO MAY LEAD TO SERIOUS PERSONAL INJURIES OR VEHICLE DAMAGE. CONTACT AN Authorised Aprilia Dealer IMMEDIATELY IF IN ANY DOUBT ABOUT THE FUNCTIONS OF ANY CONTROLS OR IF ANY MALFUNCTIONS ARE FOUND OR SUSPECTED. IT DOES NOT TAKE MUCH TIME TO DO A CHECK AND THE SAFETY BENEFITS ARE CONSIDERABLE.



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 "ON", the alarm LED warning lights turn on for about three seconds on the dashboard.

PRE-RIDE CHECKS

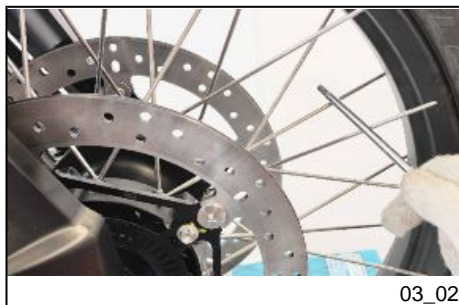
Front and rear disc brake	Check for proper operation. Check brake lever empty travel and brake fluid level. Check for leaks. Check
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	brake pads for wear. If necessary top-up with brake fluid.
Throttle grip	Check that the grip rotates smoothly and without impediment.
Engine oil	Check and/or top-up as required.
Wheels/ tyres	<p>Check that tyres are in good conditions. Check inflation pressure, tyre wear and potential damage.</p> <p>Remove any possible strange body that might be stuck in the tread design.</p>
Brake levers	<p>Check they function smoothly.</p> <p>Lubricate the joints and adjust the travel if necessary.</p>
Clutch lever	Check correct operation and empty travel. Check the condition of the cable on the handlebar and on the engine. The cable must be replaced if it shows any signs of fraying. Lubricate the joints if necessary.
Steering	Makes sure that the steering turns freely, is even, smooth and with zero play or slackening to the limit stop on both sides.
Side stand	Check that it slides smoothly and that it snaps back to its rest position

upon spring tension. Lubricate couplings and joints if necessary.

Check that the side stand safety switch functions correctly.

Clamping elements	Check that the clamping elements are not loose. Adjust or tighten them as required.
Fuel tank	Check 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.



SPOKE TENSION CHECK

Correct spoke tension is very important for wheel stability and road safety. An incorrectly tightened spoke leads to the imbalance of the wheel and the possible loosening of other spokes.

Check the spoke tension regularly, especially on new wheels. To do this, hit each spoke with the tip of a screwdriver: the spokes should emit a uniform sound. In the event of low tones, go to an **Aprilia Official Dealer** as soon as possible to check the adjustment of the spokes.

WARNING

INSUFFICIENTLY TENSIONED SPOKES MAY BREAK CAUSING INSTABILITY OF THE VEHICLE.

EXCESSIVELY TENSIONED SPOKES MAY BREAK DUE TO A LOCAL OVERLOAD.



Refuelling (03_03, 03_04, 03_05, 03_06)

To refuel:

- Insert the key (1) into the cap (2) and turn it anticlockwise.



- Unscrew the fuel cap (2) and remove it.

CAUTION



ALWAYS USE PETROL WITH A MAXIMUM OF 10% BIOETHANOL CONTENT (E10).

DO NOT USE PETROL WITH AN ETHANOL CONTENT HIGHER THAN 10%; THIS USE COULD DAMAGE THE FUEL SYSTEM COMPONENTS AND/OR COMPROMISE ENGINE PERFORMANCE.

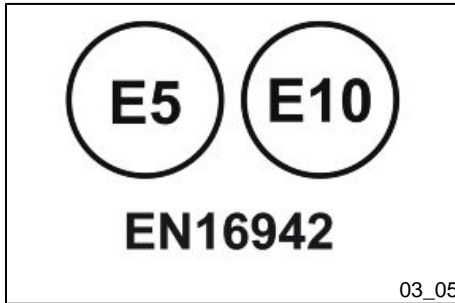
Characteristic

Fuel tank capacity (including reserve)

18 l (3.95 UK gal; 4.75 US gal)

Fuel tank reserve capacity

2.7 l (0.59 UK gal; 0.71 US gal)



The EN16942 European standard requires the identification of the compatibility of the vehicles with the fuel type by means of a graphic symbol for consumer information. The symbols listed below facilitate the recognition of the correct fuel type to be used on your vehicle. Before refuelling, check the symbols located near the filler neck and compare them with the symbol shown on the filling pump.

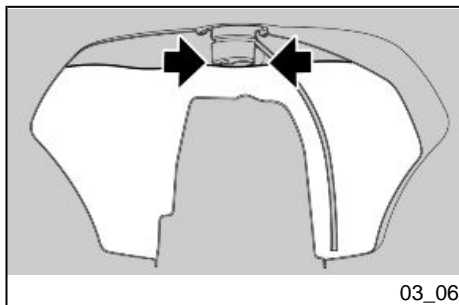
E5: unleaded gasoline with 5% maximum Ethanol percent.

E10: unleaded gasoline with 10% maximum Ethanol percent.

The label on each pump dispenser shows only one value; if for example it shows E5 it means that the petrol supplied is unleaded, with 5% ethanol.

However, the label on the vehicle may show several values. If, for example, it shows both E5 and E10 values, it means that the vehicle is compatible with gasoline

containing maximum 10% Ethanol and thus the Customer may refuel either from a E5 dispenser or from a E10 dispenser (but not from an E85 dispenser).



- Refuel, stopping before reaching the maximum level indicated.

CAUTION



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

WHEN USING A FUNNEL, ENSURE THAT IT IS PERFECTLY CLEAN.



DURING REFUELLING AVOID FUEL LEAKAGES, WHICH MAY CAUSE DAMAGE TO THINGS OR PERSONS AND FIRE HAZARD.

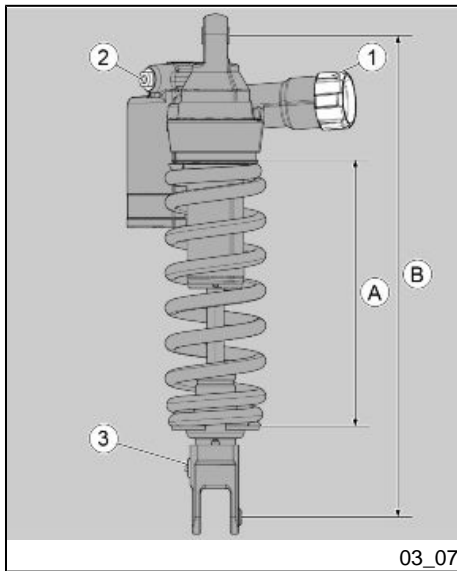
DURING REFUELLING, AVOID THE USE OF ELECTRIC DEVICES AND/OR MOBILE PHONES, BECAUSE FUEL VAPOURS MAY CAUSE DAMAGE TO OBJECTS AND/OR PERSONAL INJURIES.

After refuelling:

- The cap can only be closed if the key (1) is inserted.
- Insert the key (1), reposition the cap (2) and tighten it completely.
- Turn the key (1) clockwise keeping the cap (2) still and remove it.



MAKE SURE THE CAP IS TIGHTLY CLOSED.



Rear shock absorbers adjustment (03_07, 03_08, 03_09, 03_10)

The rear suspension consists of a spring-shock absorber unit connected to the frame by silent block joints.

To adjust the setting, the shock absorber has:

- A knob (1) for adjusting spring preload.
- A screw adjuster (2) for adjusting the hydraulic compression damping.
- A screw adjuster (3) for adjusting the hydraulic rebound damping.

CAUTION

THE MAINTENANCE INTERVALS PRESCRIBED BY THE SCHEDULED MAINTENANCE TABLE MUST BE CONSIDERED AS A GENERAL GUIDE FOR USING THE VEHICLE IN NORMAL RUNNING CONDITIONS.

IT MAY BE NECESSARY TO REDUCE THE MAINTENANCE INTERVALS UNDER SOME PARTICULAR CONDITIONS. ESPECIALLY WHEN USED IN GEOGRAPHICAL LOCATIONS WITH ADVERSE CLIMATIC CONDITIONS, USE ON UNEVEN GROUND OR SEVERE INDIVIDUAL USE.

CHECK AND IF NECESSARY, ADJUST THE REAR SHOCK ABSORBER.

THE STANDARD REGULATION OF THE REAR SHOCK ABSORBER IS INTENDED TO SATISFY NORMAL TOUR DRIVING CONDITIONS.

IN ANY CASE IT IS POSSIBLE TO INSERT PERSONAL SETTINGS, DEPENDING ON VEHICLE UTILIZATION.



TO COUNT THE NUMBER OF TURNS OF THE ADJUSTERS (2)(3) ALWAYS START FROM THE MOST LOADED SETTING (COMPLETE CLOCKWISE ROTATION OF THE ADJUSTER).

TO PREVENT DAMAGE TO THE ADJUSTERS (2)(3), NEVER FORCE THEM BEYOND THE END OF TRAVEL IN EITHER DIRECTION.



SET THE SPRING PRE-LOAD AND THE HYDRAULIC DAMPING OF THE SHOCK ABSORBER ACCORDING TO THE VEHICLE USE CONDITIONS.

IF THE SPRING PRE-LOAD IS INCREASED, IT IS NECESSARY TO INCREASE THE DAMPING OF THE SHOCK ABSORBER ACCORDINGLY TO AVOID SUDDEN JERKS WHEN RIDING.

IF NECESSARY, CONTACT AN OFFICIAL APRILIA DEALER. TRY RIDING THE VEHICLE ON THE STREET UNTIL THE OPTIMUM ADJUSTMENT IS OBTAINED.



03_08

Operating on the left side of the vehicle, it is possible to access the spring pre-load adjustment knob:

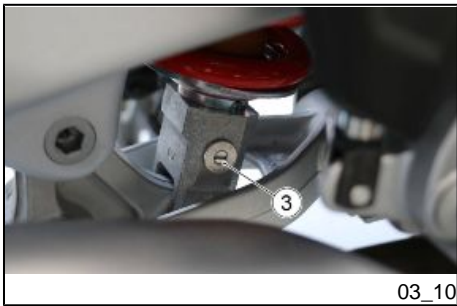
- Turning clockwise the pre-load increases, vice versa by turning anti-clockwise it decreases.



03_09

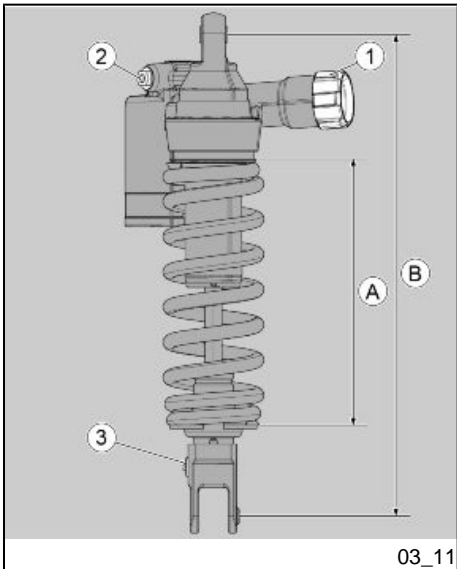
Operating on the right side of the vehicle, in correspondence with the rear brake fluid reservoir, it is possible to access the hydraulic compression damping adjuster (2):

- Turning clockwise the hydraulic compression damping increases, vice versa by turning anti-clockwise it decreases.



Operating on the right side of the vehicle, in correspondence with the linkages, it is possible to access the hydraulic rebound damping adjuster (3):

- Turning clockwise the hydraulic rebound damping increases, vice versa by turning anti-clockwise it decreases.



Rear shock absorbers setting (03_11)



SPORT SETTINGS MAY BE USED ONLY FOR OFFICIAL COMPETITIONS TO BE CARRIED OUT ON TRACKS, AWAY FROM NORMAL ROAD TRAFFIC AND WITH THE AUTHORISATION OF THE RELEVANT AUTHORITIES.

STANDARD ADJUSTMENT (RIDER ONLY)

Spring length (A)	226.2 mm (8.90 in)
Shock absorber length (B)	399.5 mm (15.72 in)
Spring pre-load adjustment, knob (1)	close (*) 10 clicks from fully open (**)
Compression adjustment, adjuster screw (2)	open (**) 2 turns from fully closed (*)
Rebound adjustment, adjuster (3)	open (**) 1.5 turns from fully closed (*)

STANDARD ADJUSTMENT (RIDER+PASSENGER) (RIDER+LUGGAGE) (RIDER+PASSENGER+LUGGAGE)

Spring length (A)	226.2 mm (8.90 in)
Shock absorber length (B)	399.5 mm (15.72 in)
Spring pre-load adjustment, knob (1)	close (*) 26 clicks from fully open (**)
Compression adjustment, adjuster screw (2)	open (**) 2 turns from fully closed (*)
Rebound adjustment, adjuster (3)	open (**) 1 turn from fully closed (*)

(*) = clockwise

(**) = anticlockwise



Front fork adjustment (03_12, 03_13)

- Operating the front brake lever, press the handlebar repeatedly to send the fork fully down. The shock absorber should compress and extend smoothly with no signs of oil leakage on the stanchions.
- Check the tightening of all the elements and the correct operation of the front and rear suspension joints.

CAUTION

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



The front suspension consists of a hydraulic fork connected to the headstock by means of two plates.

For the settings of the vehicle set-up:

- Each stanchion has an upper nut (1) to adjust the spring pre-load.
- An upper adjuster screw (2) on the left stanchion for setting the hydraulic compression damping.
- An upper adjuster screw (3) on the right stanchion for setting the hydraulic rebound damping.



TO AVOID DAMAGE, DO NOT FORCE THE ADJUSTERS BEYOND THE MAXIMUM SETTING POSITION IN EITHER DIRECTION.

SET BOTH STANCHIONS WITH THE SAME SPRING PRE-LOAD CALIBRATION.

RIDING THE VEHICLE WITH DIFFERENT SETTINGS FOR THE TWO STANCHIONS REDUCES STABILITY.

WHEN SPRING PRE-LOAD IS INCREASED, REBOUND DAMPING MUST ALSO BE INCREASED TO PREVENT EXCESSIVE SUSPENSION KICKBACK WHEN RIDING.

The standard front fork setting is adjusted to suit most high and low speed riding conditions, whether the vehicle is partially or fully loaded.

However, the setting can be modified for specific needs according to vehicle use.

CAUTION

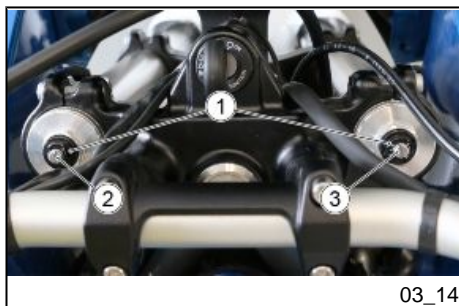
FOR THE CORRECT SETTING PARAMETERS, READ THE PARAGRAPH "SETTING THE FRONT FORK" CAREFULLY.

TAKE YOUR VEHICLE TO AN Authorised Aprilia Dealer, IF NECESSARY.

Front fork setting (03_14, 03_15)



TO COUNT THE NUMBER OF CLICKS AND/OR REVOLUTIONS OF ADJUSTMENT SETTINGS ALWAYS START FROM THE MOST RIGID SETTING (WHOLE CLOCKWISE ROTATION OF THE SETTING).



03_14



03_15

STANDARD ADJUSTMENT (RIDER ONLY)

Spring pre-loading, nut (1)	from fully closed (*) unscrew (**) 6 mm (0.23 in)
Hydraulic compression adjustment, adjuster screw (2)	Unscrew (**) 8 clicks from fully closed (*)
Hydraulic rebound adjustment, adjuster (3)	Unscrew (**) 8 clicks from fully closed (*)
Stanchion protrusion (A) (***) from top yoke (excluding cover)	1 notches

STANDARD ADJUSTMENT (RIDER+PASSENGER) (RIDER +LUGGAGE) (RIDER+PASSENGER+LUGGAGE)

Spring pre-loading, nut (1)	From fully closed (*) unscrew (**) 7 mm (0.27 in)
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Hydraulic compression adjustment, adjuster screw (2)	Unscrew (**) 3 clicks from fully closed (*)
Hydraulic rebound adjustment, adjuster (3)	Unscrew (**) 7 clicks from fully closed (*)
Stanchion protrusion (A) (***) from top yoke (excluding cover)	1 notch

(*) - Clockwise

(**) - Anticlockwise

(***) - this type of adjustment may only be made by an **Authorised Aprilia Dealer**.

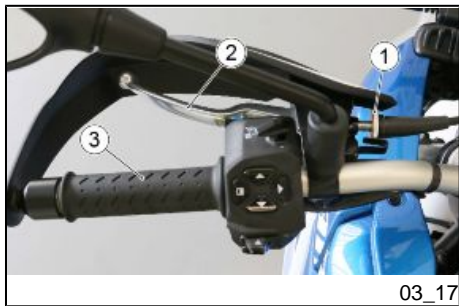


03_16

Justering af greb til forbremse (03_16)

It is possible to adjust the distance between the end of the lever (1) and the grip (2), turning the adjuster (3).

- Push the control lever (1) forwards and turn the adjuster (3) until the lever (1) is at the desired distance.
- Turning the adjuster anticlockwise, the lever (1) gets closer to the grip (2).



03_17

Clutch lever adjustment (03_17)

Adjust the clutch lever if the engine stalls or if the vehicle creeps forward when the lever is pulled, or if the clutch slips, causing a lag in acceleration relative to increases in engine speed.

To adjust the dead zone, after setting the vehicle on the centre stand:

- Turn the adjuster (1) clockwise to increase the play of the lever (2) and check the operation of the lever sitting on the vehicle and grasping the hand grip (3) as when in the riding position.

CAUTION

TAKE THE VEHICLE TO AN Official aprilia Dealer IF THE CLUTCH CANNOT BE ADJUSTED CORRECTLY OR IF THE CLUTCH DOES NOT FUNCTION CORRECTLY.

Running in

Running in is essential to ensure the durability of the vehicle. During the first 1,000 Km (621 mi), observe the following rules to ensure the reliability and performance of the vehicle throughout its lifetime:

- Avoid full throttle starts and hard acceleration;
- Avoid hard or prolonged braking;
- Do not ride for prolonged periods at sustained high speed;
- preferably ride the motorcycle on varied routes with frequent, gentle acceleration and deceleration;
- Ride prudently to gradually gain familiarity with the motorcycle, testing progressively higher throttle apertures only as you gain confidence

CAUTION

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

Follow these guidelines:

- 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. This allows the brake pad friction material to bed in correctly with the brake discs.
- It is advisable not to exceed 7000 rpm for the first 1000 km (621 mi) and then not to exceed 9000 rpm up until 2000 km (1242 mi).

CAUTION

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

Starting up the engine (03_18, 03_19, 03_20)

This vehicle is extremely powerful and must be used carefully and driven with caution and respect for its power and potential.

Do not place objects inside the top fairing (between the handlebar and the instrument cluster), as this may impede the movements of the handlebar and obstruct visibility of the instruments.



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

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



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

CAUTION

WITH THE SIDE STAND LOWERED, THE ENGINE MAY ONLY BE STARTED WITH THE GEARBOX IN NEUTRAL. IF YOU ATTEMPT TO ENGAGE THE GEAR, THE ENGINE WILL STOP.

WITH THE SIDE STAND RETRACTED, THE ENGINE MAY BE STARTED WITH THE GEARBOX IN NEUTRAL OR WITH THE GEAR ENGAGED AND THE CLUTCH LEVER OPERATED.



- Get on the motorcycle, assuming the correct driving posture.
- Make sure that the side stand has been fully retracted.
- Operate the front or rear brake (or both).
- Operate the clutch lever (1) and make sure that the transmission (2) is in neutral.



03_19

- Set the switch for stopping the engine (3) on "RUN" Turn the ignition key (4) to "ON".

At this stage:

- The starting screen will be displayed on the digital display for about 2 seconds and then the screen with the standard parameters will appear.
- All the indicator lights on the dashboard will come on for about 2 seconds.
- Press the starter button once only.
- With the engine operating normally, the number of rpm at which the engine is operating will be displayed instantaneously.



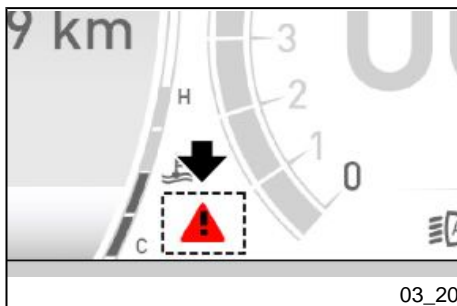
IF THE LOW FUEL WARNING LIGHT ON THE DASHBOARD TURNS ON, REFUEL THE VEHICLE AT ONCE.



INTENSE OR PERFORMANCE USAGE WHILE IN RESERVE MAY DAMAGE THE ENGINE.



IF THE GENERAL WARNING INDICATOR LIGHT ON THE DASHBOARD COMES ON, IT MEANS THAT THE CONTROL UNIT HAS ENCOUNTERED A FAULT, THEREFORE IT IS NECESSARY TO CONTACT AN Authorised Aprilia Dealer.



03_20



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.

Moving off / riding (03_21, 03_22, 03_23, 03_24)

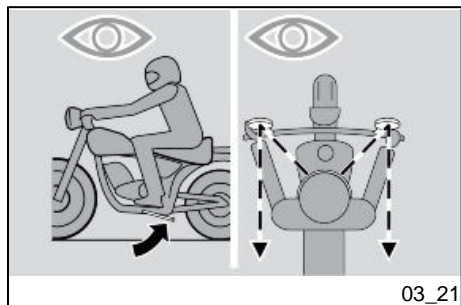
CAUTION

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

CAUTION

PASSENGERS MUST BE SUITABLY INSTRUCTED ON HOW TO BEHAVE TO PREVENT DANGEROUS SITUATIONS WHEN RIDING.

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



To start:

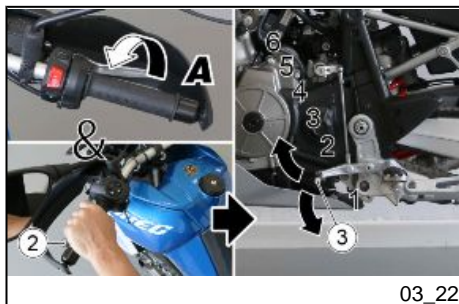
- Turn on the engine.
- Adjust the inclination of the rear-view mirrors to ensure proper visibility.

CAUTION



WITH THE VEHICLE AT 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.



03_22



03_23

- With the throttle (1) closed (**Pos. A**) and the engine at idle speed, pull the clutch lever (2).
- Push the gearbox lever (3) downward to select the first gear.
- Slowly release the clutch lever while simultaneously accelerating by gently twisting the throttle grip (1) (**Pos.B**).

The vehicle starts moving forward.

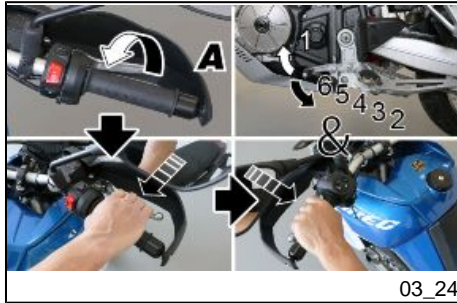
CAUTION

DO NOT RELEASE THE CLUTCH TOO QUICKLY OR SUDDENLY, AS THIS COULD CAUSE THE ENGINE TO STALL OR THE VEHICLE TO REAR UP ON THE BACK WHEEL. DO NOT ACCELERATE SUDDENLY WHEN RELEASING THE CLUTCH FOR THE SAME REASON.

- Ride at moderate speed for the first kilometres/miles to allow the engine to warm up.

NOTE

THE VEHICLE HAS AN RPM LIMITER THAT IS PART OF THE "RIDE-BY-WIRE" INJECTION SYSTEM.



- Increase speed by turning the throttle grip (1) gradually (**Pos. B**), without exceeding the recommended maximum engine speed.



**SELECT THE APPROPRIATE GEAR AND SPEED FOR THE CONDITIONS.
DO NOT ALLOW THE ENGINE SPEED TO DROP EXCESSIVELY.**

- Release the throttle (1) (**Pos. A**), pull the clutch lever (2), lift the gear lever (3), release the clutch (2) and accelerate.
- Repeat the last two operations and engage a higher gear.

NOTE

(IF APPLICABLE)

THE QUICK SHIFT FUNCTION LETS THE RIDER PERFORM UPSHIFTS WITHOUT USING THE CLUTCH.

It is recommended to down-shift from a higher gear to a lower gear:

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

CAUTION

DOWN-SHIFT ONE GEAR AT A TIME; WHEN SHIFTING TO A LOWER GEAR, DOWN-SHIFTING MORE THAN ONE GEAR AT A TIME COULD OVER-REV THE ENGINE; THAT IS, THE MAXIMUM RPM VALUE PERMITTED FOR THE ENGINE COULD BE EXCEEDED.

NOTE

THE VEHICLE IS EQUIPPED WITH A NON-SLIP CLUTCH CAPABLE OF PREVENTING THE WHEELS FROM LOCKING UP WHEN DOWNSHIFTING. ANY PULSATIONS ON THE LEVER ARE CORRELATED WITH THE CORRECT OPERATION OF THE SYSTEM.

- Release the throttle grip (1) (**Pos. A**).
- If necessary, pull the brake levers gently and reduce speed.
- Pull the clutch lever (2) and push the gear pedal (3) down to select the next lowest gear.

NOTE

(IF APPLICABLE)

THE QUICK SHIFT FUNCTION LETS THE RIDER PERFORM DOWNSHIFTS WITHOUT USING THE CLUTCH IF THE "AQS DOWN" FUNCTION IS ENABLED.

- Release the brake levers when it is operated.
- Release the clutch lever (2).

CAUTION

STOP THE VEHICLE MAINLY USING THE FRONT BRAKE. THE REAR BRAKE MUST ONLY BE USED TO BALANCE THE BRAKING EFFECT, AND ONLY TOGETHER WITH THE FRONT BRAKE.



IN ORDER TO AVOID CLUTCH OVERHEATING, SHUT THE ENGINE OFF AS SOON AS POSSIBLE ONCE THE VEHICLE HAS STOPPED AND AT THE SAME TIME THE GEAR IS ENGAGED AND THE CLUTCH LEVER OPERATED.



USING JUST THE FRONT OR THE REAR BRAKE ONLY SIGNIFICANTLY REDUCES THE BRAKING FORCE OF THE VEHICLE.

WHEN STOPPING UPHILL, DECELERATE COMPLETELY AND ONLY USE THE BRAKES TO MAINTAIN THE VEHICLE IN THE STOPPED POSITION.

USING THE ENGINE TO KEEP THE MOTORCYCLE STOPPED COULD CAUSE THE CLUTCH TO OVERHEAT. BRAKING CONTINUOUSLY WHEN DRIVING DOWNHILL COULD CAUSE THE BRAKE PADS TO OVERHEAT, WHICH REDUCES BRAKING AND LIMITS BRAKING POWER.

IT IS RECOMMENDED TO USE THE ENGINE COMPRESSION, DOWNSHIFTING AND USING BOTH BRAKES INTERMITTENTLY.

WHEN DRIVING DOWNHILL, NEVER RIDE WITH THE ENGINE TURNED OFF.

WHEN RIDING ON WET OR POOR GRIP SURFACES (SNOW, ICE, MUD, ETC.) MAINTAIN A MODERATE SPEED, AVOIDING SUDDEN BRAKING OR MANOEUVRES THAT COULD CAUSE A LOSS OF TRACTION AND POSSIBLY A CRASH OR ACCIDENT.



03_25

Stopping the engine (03_25)

- Release the throttle grip (1), brake gradually and simultaneously downshift to slow down.

Once the speed is reduced, before stopping the vehicle:

- Operate the clutch lever (2) so that engine does not shut off.

When the vehicle is at standstill:

- Put the gear lever in neutral until the letter "N" (neutral) appears on the digital display and the respective indicator lamp lights.
- Release the clutch lever.
- While at a temporary halt, keep at least one of the vehicle brakes held.

CAUTION

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

Parking

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.

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

ENSURE THAT THE VEHICLE AND, IN PARTICULAR, PARTS OF THE VEHICLE WHICH MAY BECOME HOT (ENGINE, OIL RADIATOR AND LINES, EXHAUST SYSTEM, BRAKE DISCS) ARE NOT A HAZARD TO PERSONS 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 is equipped with an exhaust system with a three-way catalytic converter (using three catalyst metals: platinum, palladium and rhodium).

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.



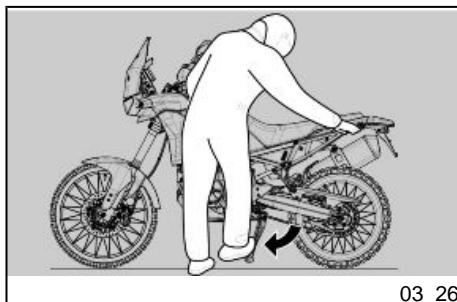
DO NOT USE LEADED PETROL AS IT CAUSES IRREPARABLE DAMAGE TO THE CATALYTIC CONVERTER.

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

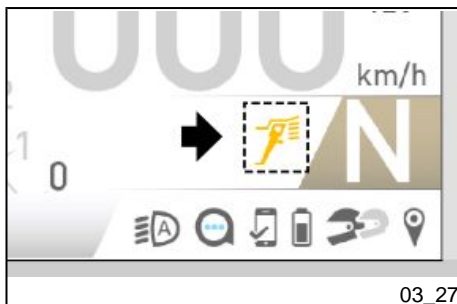
- the removal of any device or element belonging to a new vehicle or any other action by anyone leading to render it non-operating, if not for maintenance, repair or replacement reasons, in order to control noise emission before the sale or delivery of the vehicle to the ultimate buyer or while it is 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 exhaust noise increases, take your vehicle at once to an Approved **Aprilia** Dealer.



03_26



03_27

Stand (03_26, 03_27)

If it is necessary to extend the side stand for any reason (e.g. after moving the vehicle), proceed as follows:

- Select an appropriate parking spot.
- Grip the left grip (1) and keep your right hand on the upper rear part of the vehicle (2).
- Lower the side stand with your right foot, fully extending it (3).
- Lean the motorcycle until the stand touches the ground.
- Turn the handlebar completely to the left.



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

WARNING

THE OPEN STAND CAUSES THE DEDICATED ICON TO BE STEADILY LIT ON THE DIGITAL DISPLAY.

IF THERE IS A FAULT AT THE STAND SENSOR, THE ICON WILL BE FLASHING.

ENGINE START AND USAGE OF THE VEHICLE ARE STILL PERMITTED, AS ENGAGING FIRST GEAR DOES NOT TRIGGER THE AUTOMATIC SAFETY ENGINE SHUT-OFF FUNCTION.

CAUTION

DRIVE CAREFULLY AND IMMEDIATELY CONTACT AN Official Aprilia Dealer

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.

Safe driving

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

1. Before riding off, remember to put the helmet on and fasten it correctly.
2. Slow down and drive carefully over bumpy roads.
3. After driving over a long stretch of wet road without using the brakes, braking will not be as efficient the first time/s you use them again. When driving under conditions like this, you should brake periodically.

4. Although the vehicle is equipped with an ABS system, pay attention when braking on wet surfaces, on dirt or on a slippery road surface.
5. Do not start off by getting on the vehicle while it is standing on its stand.
6. When riding on roads covered with sand, mud, snow mixed with salt, etc. We recommend cleaning the brake discs frequently with a non-corrosive detergent in order to prevent corrosive particles from building up in the holes, which may cause early brake pad wear.

CAUTION

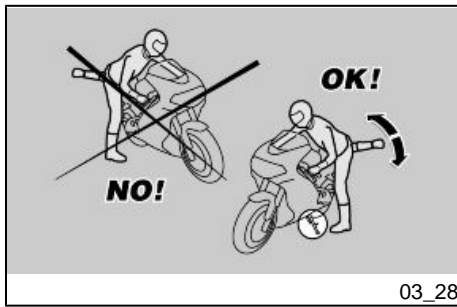
ALWAYS RIDE WITHIN YOUR LIMITS. RIDING UNDER THE INFLUENCE OF ALCOHOL OR OTHER DRUGS AND CERTAIN MEDICINES IS EXTREMELY DANGEROUS.

CAUTION

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

CAUTION

DO NOT ADJUST THE MIRRORS WHILE DRIVING. THIS COULD CAUSE YOU TO LOOSE CONTROL OF THE MOTORCYCLE.



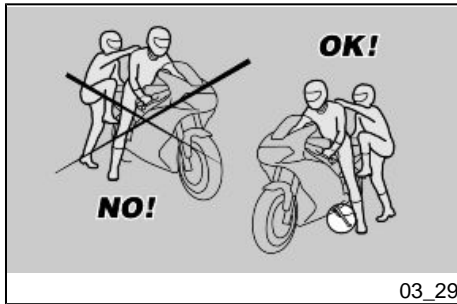
03_28

Basic safety rules (03_28, 03_29, 03_30, 03_31, 03_32)

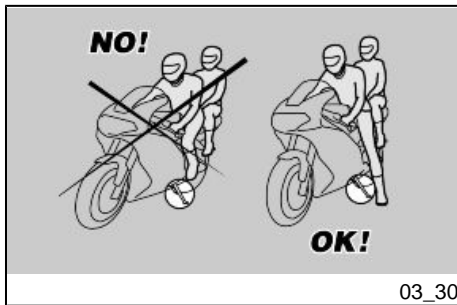
The following recommendations should receive your maximum attention, because they are provided to increase your safety, and decrease damage to people, things and vehicles, in the case of a fall of the rider or passenger from the vehicle and/or from the fall or overturning of the vehicle.

Mounting and dismounting the vehicle should always be performed with total freedom of movement and with the hands free of all objects. (i.e.- objects, helmet, gloves, or glasses).

Mount and dismount only on the left side of the vehicle, and only with the side stand lowered.



03_29



03_30

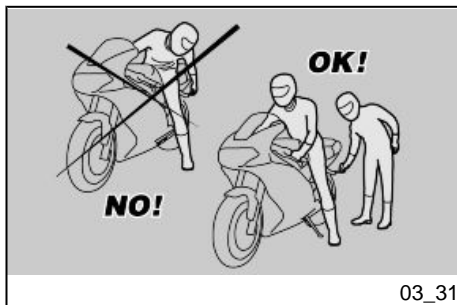
The stand is designed to support the weight of the vehicle and a small additional weight, which does not include the rider and passenger.

Mounting into driving position, with the side stand in place, is permitted only to prevent the possibility of the vehicle falling or overturn, and does not indicate the possibility for the rider and passenger's weight to be placed on the side stand.

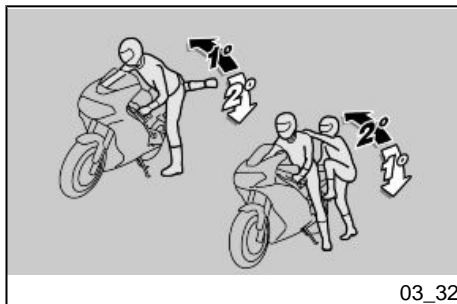
During mounting and dismounting the vehicle's weight can cause a loss of balance, with consequent loss of equilibrium and the possibility of falling or overturning.

CAUTION

THE RIDER SHOULD ALWAYS BE THE FIRST TO MOUNT AND THE LAST TO DISMOUNT FROM THE VEHICLE, AND SHOULD CONTROL THE STABILITY AND



EQUILIBRIUM OF THE VEHICLE WHILE THE PASSENGER IS MOUNTING AND DISMOUNTING



In any case, the passenger should mount and dismount the vehicle using caution to avoid causing the vehicle or the rider to lose balance.

CAUTION

THE RIDER TO INSTRUCT THE PASSENGER ABOUT THE PROPER WAY TO MOUNT AND DISMOUNT FROM THE VEHICLE.

THE VEHICLE INCLUDES PASSENGER FOOTRESTS WHICH SHOULD BE USED DURING MOUNTING AND DISMOUNTING. THE PASSENGER SHOULD ALWAYS USE THE LEFT FOOTREST FOR MOUNTING AND DISMOUNTING FROM THE VEHICLE.

DO NOT DISMOUNT OR EVEN ATTEMPT TO DISMOUNT BY JUMPING OR STRETCHING OUT YOUR LEG IN ORDER TO TOUCH THE GROUND. IN BOTH CASES THE STABILITY AND EQUILIBRIUM OF THE VEHICLE COULD BE COMPROMISED.

CAUTION

BAGGAGE OR OBJECTS ATTACHED TO THE REAR PART OF THE VEHICLE CAN CREATE AN OBSTACLE DURING MOUNTING AND DISMOUNTING FROM THE VEHICLE.

IN ALL CASES, THINK AHEAD AND MOVE YOUR RIGHT LEG CAREFULLY, AS IT WILL HAVE TO AVOID AND CLEAR THE REAR PART OF THE VEHICLE (INCLUDING BAGGAGE AND THE TAIL FAIRING) WITHOUT CAUSING LOSS OF BALANCE.

MOUNTING

- Grip the handlebar properly and mount the vehicle without placing your weight upon the side stand.

CAUTION

IN THE CASE THAT YOU ARE NOT ABLE TO REST BOTH FEET ON THE GROUND, PUT THE RIGHT FOOT ON THE GROUND, (IN THE CASE OF A LOSS OF BALANCE THE LEFT SIDE IS "PROTECTED" BY THE SIDE STAND) AND KEEP YOUR LEFT FOOT READY TO BE POSITIONED.

- Place both feet on the ground and straighten the vehicle into the driving position, always maintaining its equilibrium.

CAUTION

THE RIDER SHOULD NOT OPEN OR TRY TO OPEN THE PASSENGER FOOTRESTS FROM THE RIDER'S SEAT, AS IT COULD COMPROMISE THE STABILITY AND EQUILIBRIUM OF THE VEHICLE.

- Have the passenger open the two passenger foot pegs.
- Show the passenger how to mount the vehicle.
- Use your left foot to push on the side stand and make it fully return to its position.

DISMOUNTING

- Select an appropriate parking spot.
- Stop the vehicle.
- Switch off the engine.



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

- Use the heel of your left foot to completely open the side stand.

CAUTION

IN THE CASE THAT YOU ARE NOT ABLE TO REST BOTH FEET ON THE GROUND, PUT THE RIGHT FOOT ON THE GROUND, (IN THE CASE OF A LOSS OF BALANCE THE LEFT SIDE IS "PROTECTED" BY THE SIDE STAND) AND KEEP YOUR LEFT FOOT READY TO BE POSITIONED.

- Place both feet on the ground and keep the vehicle balanced in the driving position.
- Instruct the passenger on how to get down from the vehicle.



RISK OF FALLING OR OVERTURNING.

**MAKE SURE THAT THE PASSENGER HAS DISMOUNTED FROM THE VEHICLE.
DO NOT PLACE YOUR WEIGHT UPON THE SIDE STAND.**

- Lean the motorcycle until the stand touches the ground.
- Correctly grip the handlebar, and dismount from the vehicle.
- Turn the handlebar completely to the left.
- Place the passenger footrest in its place.

CAUTION

MAKE SURE THE VEHICLE IS STABLE.

TUAREG 660



Chap. 04 Maintenance

Foreword

WARNING

THE ELECTRONIC CONTROL SYSTEM OF THIS VEHICLE IDENTIFIES FAULTS IN REAL TIME AND STORES THEM IN ITS MEMORY FOR SUBSEQUENT READING WITH THE DIAGNOSTIC SYSTEM USED BY Authorised Aprilia Dealers.

Engine oil level check (04_01, 04_02)

Check the engine oil level frequently.

NOTE

THE MAINTENANCE INTERVALS PRESCRIBED BY THE SCHEDULED MAINTENANCE TABLE MUST BE CONSIDERED AS A GENERAL GUIDE FOR USING THE VEHICLE IN NORMAL RUNNING CONDITIONS.

IT MAY BE NECESSARY TO REDUCE THE MAINTENANCE INTERVALS UNDER SOME PARTICULAR CONDITIONS. ESPECIALLY WHEN USED IN GEOGRAPHICAL LOCATIONS WITH ADVERSE CLIMATIC CONDITIONS, USE ON UNEVEN GROUND OR SEVERE INDIVIDUAL USE.



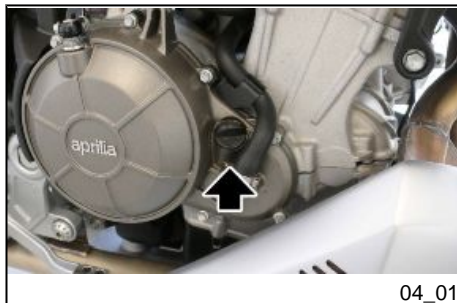
THE OIL LEVEL MUST BE CHECKED WHEN THE ENGINE IS WARM.

CAUTION

DO NOT LET THE ENGINE IDLE WITH THE VEHICLE AT A STANDSTILL TO WARM UP THE ENGINE AND OBTAIN THE OPERATING TEMPERATURE OF ENGINE OIL.

PREFERABLY CHECK THE OIL AFTER A JOURNEY OF AFTER TRAVELLING APPROXIMATELY 15 Km (10 miles) IN EXTRA-URBAN CONDITIONS (ENOUGH TO WARM UP THE ENGINE OIL TO OPERATING TEMPERATURE).

- Shut off the engine and wait a few seconds;
- Keep the vehicle upright with both wheels on the ground;
- Make sure that the vehicle is on a level surface;
- Unscrew the oil filler cap with dipstick;



04_01

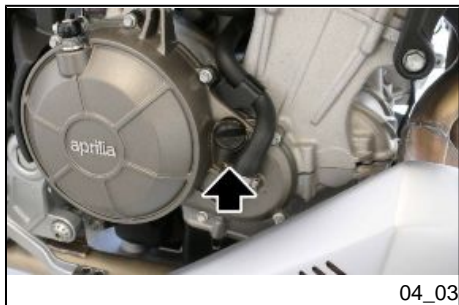


04_02

- Wipe the dipstick clean and put the dipstick and filler cap back into place **without tightening**;
- Remove the cap and dipstick again and check the engine oil level;
- The level is correct if it reaches the "**MAX**" level approximately. Otherwise top off the engine oil.

CAUTION

THE OIL LEVEL MUST NEVER DROP BELOW THE MINIMUM MARKING OR EXCEED THE MAXIMUM MARKING; AN OIL LEVEL NOT WITHIN THE MINIMUM AND MAXIMUM MARKINGS MAY CAUSE SEVERE ENGINE DAMAGE.



04_03

Engine oil top-up (04_03)

If the engine oil needs to be topped up, proceed as follows:

- Unscrew and remove the cap with dipstick.

CAUTION

ONLY USE THE ENGINE OIL TYPE INDICATED IN THE RECOMMENDED FLUIDS AND LUBRICANTS TABLE.

- Pour in the necessary quantity of engine oil to reach the correct level.

CAUTION

DO NOT ADD ADDITIVES OR ANY OTHER SUBSTANCES TO THE OIL. WHEN USING A FUNNEL OR ANY OTHER ELEMENT, MAKE SURE IT IS PERFECTLY CLEAN.

Engine oil change

CAUTION

THE ENGINE OIL MAY ONLY BE CHECKED AND CHANGED BY AN Authorised Aprilia Dealer

Engine oil filter replacement

CAUTION

THE ENGINE OIL FILTER MAY ONLY BE CHECKED AND CHANGED BY AN Authorised Aprilia Dealer

Tyres

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

CAUTION

CHECK TYRE INFLATION PRESSURE REGULARLY AT AMBIENT TEMPERATURE. MEASUREMENTS MAY BE INCORRECT IF TYRES ARE WARM. CHECK PRESSURE MAINLY BEFORE AND AFTER LONG TRIPS. AN OVER-INFLATED TYRE WILL PROVIDE A HARSH RIDE AS SURFACE UNEVENNESS IS NOT CUSHIONED AND IS SENT TO THE HANDLEBAR, THUS REDUCING GRIP AND ROAD HOLDING SPECIALLY WHEN CORNERING.

ON THE OTHER HAND, AN UNDER-INFLATED TYRE CAUSES THE CONTACT PATCH TO INCLUDE A LARGER PORTION OF THE TYRE SIDE WALLS. IF SO, THE TYRE MIGHT SLIP ON OR GET DETACHED FROM THE WHEEL RIM, RESULTING IN LOSS OF CONTROL OVER THE VEHICLE.

EVENTUALLY THE VEHICLE MIGHT SKID IN A BEND.

CHECK THE SURFACE CONDITION AND WEAR BECAUSE POOR TYRE CONDITION COULD COMPROMISE GRIP AND HANDLING OF THE VEHICLE.

SOME TYRE TYPES APPROVED FOR THIS VEHICLE FEATURE WEAR INDICATORS.

THERE ARE SEVERAL TYPES OF WEAR INDICATORS. CONSULT YOUR DEALER ON METHODS TO CHECK FOR WEAR.

CARRY OUT A VISUAL INSPECTION FOR TYRE WEAR AND TEAR, REPLACE TYRES WHEN WORN.

WHEN TYRES ARE OLD, THE MATERIAL MAY HARDEN AND NOT PROVIDE ADEQUATE ROAD HOLDING, EVEN IF TYRES ARE STILL WITHIN THE WEAR LIMIT. REPLACE TYRES IF THIS OCCURS. REPLACE THE TYRE IF IT IS WORN OR IF THERE IS A PUNCTURE LARGER THAN 5 mm (0.197 in) IN THE TREAD AREA.

WHEEL MUST BE BALANCED AFTER A TYRE IS MENDED.

USE ONLY TYRE SIZES INDICATED BY THE MANUFACTURER. DO NOT FIT TYRES WITH INNER TUBES ON RIMS FOR TUBELESS TYRES OR VICE VERSA.

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 USING THE SPECIFIC TOOLS AND WITH ADEQUATE EXPERTISE. HAVE YOUR TYRES AND WHEELS SERVICED AT AN AUTHORISED DEALER OR A SPECIALISED TYRE WORKSHOP.

NEW TYRES MAY BE COATED WITH AN OILY FILM: RIDE WITH CAUTION DURING THE FIRST KILOMETRES. DO NOT APPLY UNSUITABLE LIQUIDS ON TYRES.

Minimum tread depth:

front and rear: 2 mm (0.079 in) (USA 3 mm) (USA - 0.118 in), and never less than specified by applicable legislation in the country in which the vehicle is used.

Spark plug dismantlement

CAUTION

THE SPARK PLUGS MAY ONLY BE CHECKED, CLEANED AND CHANGED BY AN Authorised Aprilia Dealer

Removing the air filter

CAUTION

THE AIR FILTER MAY ONLY BE CHECKED AND CHANGED BY AN Authorised Aprilia Dealer

Cooling fluid level

Do not use the vehicle if the coolant level is below the minimum marking.

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



NEVER UNDO THE RADIATOR CAP WHEN THE ENGINE IS WARM, AS THE COOLANT IS PRESSURISED AND VERY HOT. CONTACT WITH SKIN OR CLOTHES MAY CAUSE SEVERE BURNS AND/OR INJURIES.



Coolant check (04_04)

- Shut off the engine and wait until it cools off.
- Keep the vehicle upright with both wheels on a flat surface.
- Make sure, looking from the left side of the vehicle, under the steering headstock, that the fluid level in the expansion tank is between the "MIN" (minimum) and "MAX" (maximum) marks.

WARNING

CARRY OUT THE CHECK AND TOP UP THE REFRIGERANT LIQUID WITH THE ENGINE SWITCHED OFF AND COLD.



Coolant top-up (04_05)

- Remove the expansion tank cap.
- Top up with the recommended liquid until reaching an intermediate level between the "MIN" bar and the "MAX" bar of the expansion tank, visible from the left side under the steering headstock.

Checking the brake oil level

Checking brake fluid

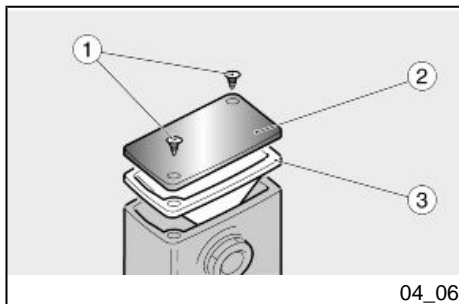
- Rest the vehicle on its stand.
- For the front brake, turn the handlebar all the way to the right.
- For the rear brake, keep the vehicle upright so that the fluid in the reservoir is at the same level as the plug.
- Make sure that the fluid level in the reservoir is above the "MIN" reference mark:

MIN = minimum level

MAX = maximum level

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

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



Braking system fluid top up (04_06, 04_07)

NOTE



RISK OF BRAKE FLUID SPILLING. DO NOT OPERATE THE BRAKE LEVER WITH THE SCREWS (1) LOOSE OR, ESPECIALLY, WITH THE BRAKE FLUID RESERVOIR COVER REMOVED.

KEEP THE LIQUID IN THE RESERVOIR PARALLEL TO THE EDGE OF THE RESERVOIR; THIS WILL AVOID HAZARDOUS SPILLAGE OF FLUID DURING TOP-UP.

CAUTION



AVOID PROLONGED AIR EXPOSURE OF THE BRAKE FLUID. BRAKE FLUID IS HYGROSCOPIC AND ABSORBS MOISTURE WHEN IN CONTACT WITH AIR. LEAVE THE BRAKE FLUID RESERVOIR OPEN ONLY FOR THE TIME NEEDED TO COMPLETE THE TOPPING-UP PROCEDURE.



TO AVOID SPILLING FLUID WHILE TOPPING UP, KEEP THE LEVEL OF THE FLUID IN THE RESERVOIR PARALLEL WITH THE EDGE OF THE RESERVOIR ITSELF (IN HORIZONTAL POSITION), DO NOT ADD ADDITIVES OR OTHER

SUBSTANCES TO THE FLUID. FUNNELS OR ANY OTHER IMPLEMENTS USED MUST BE PERFECTLY CLEAN.

- Unscrew the two screws (1).
- Remove the cover (2).
- Remove the gasket (3).

NOTE



TOPPING UP ABOVE THE "MIN" LEVEL MUST ONLY BE CARRIED OUT WITH NEW PADS.

FLUID LEVEL DECREASES GRADUALLY AS BRAKE PADS WEAR DOWN.

DO NOT TOP UP OVER THE "MIN" LEVEL IF THE BRAKE PADS ARE WORN AS THIS WOULD CAUSE THE FLUID TO LEAK WHEN REPLACING THE BRAKE PADS.

AS A REFERENCE TO OBTAIN THE MAXIMUM LEVEL, TOP UP UNTIL THE GLASS IS COMPLETELY COVERED, WITH THE EDGE OF THE BRAKE FLUID RESERVOIR PARALLEL TO THE GROUND.

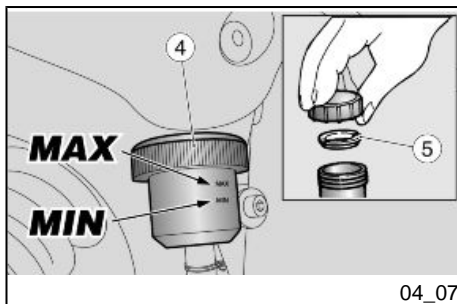
- Fill the reservoir with brake fluid until the glass is completely covered.
- Reposition the gasket (3) correctly in its seat.
- Refit the cover (2).
- Tighten the two screws (1)

NOTE



CHECK BRAKING EFFICIENCY.

IF THE BRAKE LEVER STROKE IS EXCESSIVE OR EXCESSIVELY ELASTIC, OR IF THERE ARE AIR BUBBLES PRESENT IN THE BRAKE CIRCUIT, CONTACT AN Official Moto Guzzi Dealer, SINCE IT MAY BE NECESSARY TO BLEED THE AIR IN THE CIRCUIT.



- Unscrew and remove the cap (4)

NOTE

TO AVOID SPILLING BRAKE FLUID WHILE TOPPING-UP, KEEP THE FLUID IN THE RESERVOIR PARALLEL TO THE EDGE OF THE RESERVOIR (IN HORIZONTAL POSITION).

- Remove the gasket (5).
- Using a syringe, top up until the correct level is reached, between the two references "**MIN**" and "**MAX**".

CAUTION



ONLY FILL TO THE "MAX" LEVEL AFTER FITTING NEW BRAKE PADS. FLUID LEVEL DECREASES GRADUALLY AS BRAKE PADS WEAR DOWN.

DO NOT FILL TO THE "MAX" LEVEL WITH WORN PADS, AS THIS WILL CAUSE FLUID TO ESCAPE WHEN REPLACING BRAKE PADS.

- To reassemble the components, follow the procedure in reverse.

NOTE

CHECK BRAKING EFFICIENCY.

IF THE BRAKE LEVER STROKE IS EXCESSIVE OR EXCESSIVELY ELASTIC, OR IF THERE ARE AIR BUBBLES PRESENT IN THE BRAKE CIRCUIT, CONTACT AN Official Moto Guzzi Dealer, SINCE IT MAY BE NECESSARY TO BLEED THE AIR IN THE CIRCUIT.

Battery**NOTE**

THIS VEHICLE IS EQUIPPED WITH A LITHIUM BATTERY.

ONLY USE THE VEHICLE WITH A TEMPERATURE RANGE FROM 0°C TO +40°C (32°F TO +104°F).

IN CASE OF CONTINUED USE AT TEMPERATURES NOT WITHIN THIS RANGE, INSTALL A YUASA YT12A-BS LEAD BATTERY.

IF THE VEHICLE FAILS TO START AT TEMPERATURES BELOW 0°C (32°F), TRY AGAIN REPEATEDLY, TO WARM THE BATTERY UP TO OPERATING TEMPERATURE, UNTIL THE ENGINE STARTS.



04_08

Battery removal (04_08, 04_09)

- Ensure that the ignition switch is turned to "OFF".
- Remove the passenger and rider saddles.
- Unscrew the two screws (1) and remove the battery cover (2).



04_09

- Unscrew and remove the screw (3) from 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.



TAKE UTMOST CARE AND DO NOT MAKE CONTACT BETWEEN THE BATTERY TERMINALS AND ANY METALLIC OBJECT IN ORDER TO PREVENT THE RISK OF SHORT CIRCUIT.

- Grip the battery firmly and remove from its seat.
- Put the battery away on a level surface, in a cool and dry place.



TAKE UTMOST CARE AND DO NOT MAKE CONTACT BETWEEN THE BATTERY TERMINALS AND ANY METALLIC OBJECT IN ORDER TO PREVENT THE RISK OF SHORT CIRCUIT.

Use of a new battery (04_10, 04_11, 04_12)

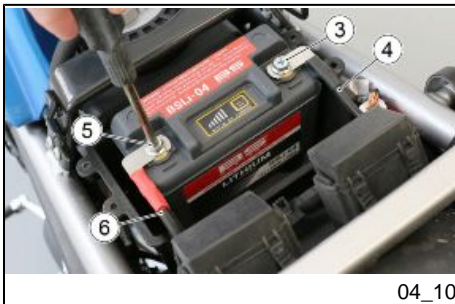


CHECK THAT THE CABLE TERMINALS AND BATTERY LEADS ARE:

- 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 rider and passenger saddles have been refitted onto the vehicle, remove them again.
- Place the battery in its housing.
- Position the positive cable (6) correctly, and fasten it to the positive terminal (+), tightening the screw (5).

The positive cable (6) must be on top of the battery (7), as shown.

- Position the negative cable (4) correctly, and fasten it to the negative terminal (-), tightening the screw (3).

The negative cable (4) must be on top of the battery (7), as shown.

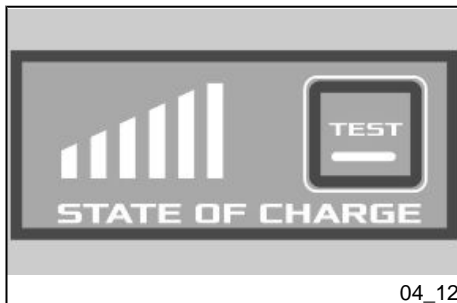


04_11

- Position the battery cover (2).
- Tighten the two screws (1).
- Position the saddle as described in the "saddle opening" paragraph.

WARNING

THIS MOTORCYCLE IS EQUIPPED WITH A BATTERY THAT REQUIRES NO MAINTENANCE OTHER THAN PERIODICALLY CHECKING STATE OF CHARGE.



04_12

WARNING

TO CHECK THE STATE OF CHARGE OF THE BATTERY, PRESS THE "TEST" BUTTON ON THE BATTERY ITSELF.

CHARGE LEVEL

Ready for use	5 - 6
Charging recommended	3 - 4

Charging necessary	1 - 2
Fault	0

Charging the battery

The battery may be charged with the battery itself in its mounting on the vehicle and connected to the electrical system of the vehicle. The battery may also be charged with the battery removed from the vehicle and disconnected from the electrical system.

To charge the battery:

- Set the battery charger for the recharge type indicated.
- Connect the battery to a battery charger of a suitable type for the battery itself.

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.

The lithium battery may also be charged with a conventional charger for 12V lead batteries (without automatic desulfation function or pulse charging function), with the settings and parameters described as follows:

Normal recharge

- Electric current: 2,0 A
- Time: 2 hours

Quick charge

- Electric current: 8 A

- Time: 0,5 hours

WARNING

THE CHARGE VOLTAGE MUST NEVER EXCEED 15V.

NOTE

AFTER CHARGING, WAIT ONE OR TWO HOURS BEFORE CHECKING THE VOLTAGE. IF THE VOLTAGE IS BELOW 12.4V, ADDITIONAL CHARGING IS NECESSARY.

SETTINGS AND PARAMETERS FOR CHARGING LEAD BATTERIES:

Normal recharge

- Electric current: 1,0 A

- Time: 8-10 hours

Quick charge

- Electric current: 10 A

- Time: 1 hour

Long periods of inactivity



IF THE VEHICLE IS INACTIVE FOR MORE THAN FIFTEEN DAYS, DISCONNECT THE 30A FUSE TO PREVENT THE BATTERY FROM DETERIORATING DUE TO THE CONSUMPTION OF CURRENT BY THE MULTI-FUNCTION COMPUTER.

CAUTION

REMOVING THE 30A FUSE WILL RESET THE: DIGITAL CLOCK AND TRIP INFORMATION.

If the vehicle is inactive longer than fifteen days, the battery needs to be recharged.

- 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_13, 04_14, 04_15, 04_16, 04_17, 04_18)

It is necessary to check the fuses whenever an electrical component fails to operate or malfunctions or when the engine does not start.

Start by checking the secondary fuses in order of size (from the lowest amperage fuse to the highest), and then check the 30A main fuse.

CAUTION

DO NOT ATTEMPT TO REPAIR FAULTY FUSES.

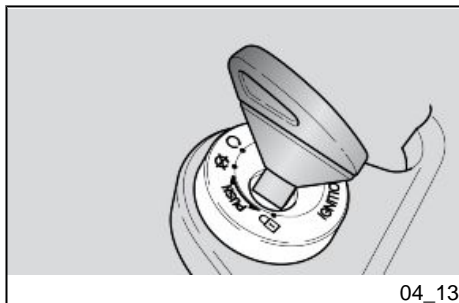
NEVER USE A FUSE THAT IS DIFFERENT THAN WHAT IS SPECIFIED TO PREVENT DAMAGES TO THE ELECTRICAL SYSTEM OR SHORT CIRCUITS, AND THE RISK OF FIRE.

CAUTION

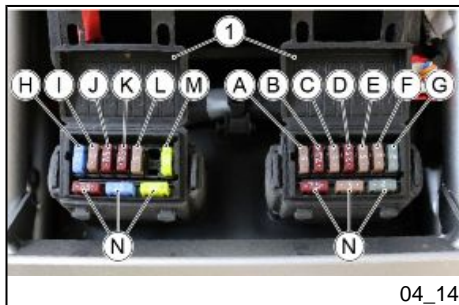
A FUSE THAT BLOWS FREQUENTLY MAY INDICATE A SHORT CIRCUIT OR OVERLOAD. CONTACT AN authorised aprilia Dealer.

To check:

- To avoid an accidental short-circuit, place the power switch to "OFF".

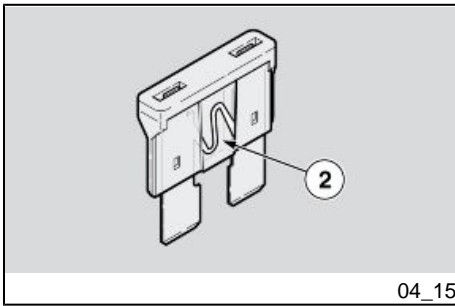


04_13



04_14

- Remove the passenger and rider saddles.
- Open the covers of the secondary fuse boxes (1).



- Take out one fuse at a time and check whether the filament (2) is broken.
- Before replacing the fuse, find and solve, if possible, the reason that caused the problem.
- If the fuse is damaged, replace it with one of the same current rating.

NOTE

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

AUXILIARY FUSES DISTRIBUTION

A) 5A fuse	Running lights/Rear number plate light, horn
B) 7.5A fuse	instrument panel, turn indicators, heated grips (where provided) power supply
C) 5A fuse	ECU positive switched live, ABS positive switched live, instrument panel positive switched live, left handlebar control set positive switched live, main starter relay
D) 7.5A fuse	ECU permanent positive lead
E) 5A fuse	Positive key-on power for AMP, positive key-on power for OBD, positive key-on power for anti-theft system

F) 5A fuse	Positive key-on power for headlamp (load)
G) 2A fuse	Positive key-on power for USB
H) 15A fuse	Fan relay power supply, ECU power supply, fuel pump relay power supply, lambda probe power supply, injector power supply, coil power supply, secondary air valve power supply
I) 5A fuse	Power feed for provision for anti-theft system, OBD power feed
J) 7.5A fuse	Right fan power supply
K) 7.5A fuse	Left fan power supply
L) 5A fuse	Fog lights live positive lead (where provided)
M) fuse of 20A	ABS power feed
N) Spare fuses	

Auxiliary fuses are placed in the central part of the motorcycle, under the rider saddle.

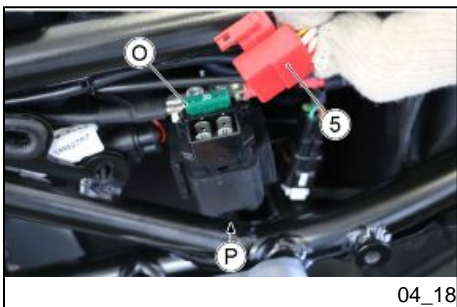


To access the main fuse, remove the side fairing as follows:

- Remove the four fixing screws (3).



- Unhook the front part of the side panel (4) to move it out of the way and access the main fuse.



- Disconnect the connector (5) to access the main fuse (O).
- Remove the fuse and check whether the filament (2) is broken.
- Before replacing the fuse, find and solve, if possible, the reason that caused the problem.
- If the fuse is damaged, replace it with one of the same current rating.

NOTE

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

CAUTION

REMOVING THE 30A FUSE WILL RESET THE: DIGITAL CLOCK AND TRIP INFORMATION.

LOCATION OF THE MAIN FUSE

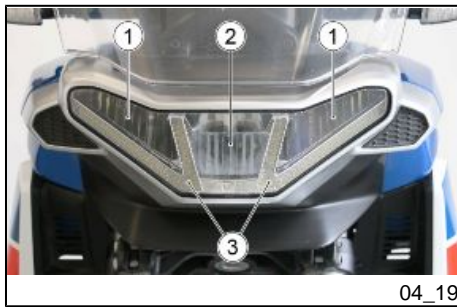
O) 30A fuse	Battery charging, all vehicle utilities
-------------	---

P) spare fuse

The main fuse is located behind the left hand side fairing of the motorcycle, under the rider saddle.

Lamps**NOTE**

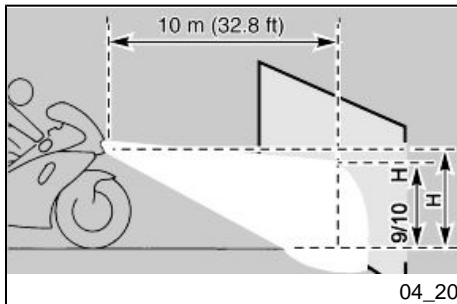
WHEN THE REAR WHEEL EXCEEDS THE SPEED OF 1 km/h (0.62 mph) (EVEN WITH THE ENGINE OFF, AND THE KEY SET TO ON), THE HEADLIGHTS WILL TURN ON AND WILL REMAIN ON FOR 30 SECONDS (FROM THE TIME IN WHICH THE REAR WHEEL STOPS MOVING).



Front light group (04_19)

The headlamp unit uses LED light sources only, and consists of the following modules:

- two low beam headlight modules (1);
- one high beam headlight module (2);
- two DRL modules (3).



Headlight adjustment (04_20, 04_21, 04_22, 04_23)

NOTE

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

To quickly check if the headlamp is aimed correctly, place the vehicle on a level surface 10 m (32.8 ft) from a vertical wall. 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 horizontal straight line of the headlight (about 9/10 of the total height).



04_21

To carry out vertical adjustment of the light beam:

(LOW BEAM HEADLIGHTS)

- Operating from the rear side of the fairing, under the internal bodywork, act on the adjuster ("1" left side / "2" right side). SCREWING (clockwise) the light beam is lowers; UNDO the screw (anticlockwise) to raise the light beam.
- These two adjuster screws may be used to adjust the vertical alignment of the low beam headlight beam.

NOTE

CHECK THAT THE VERTICAL ALIGNMENT OF THE BEAM IS CORRECT.



04_22

(HIGH BEAM HEADLIGHT)

From under the light using a Phillips-head screwdriver, act on the adjuster (3) at the point indicated:

- Turn the screwdriver clockwise to raise the beam;
- Turn the screwdriver anticlockwise to lower the beam.

This adjuster screw may be used to adjust the vertical alignment of the high beam headlight beam.

NOTE

CHECK THAT THE VERTICAL ALIGNMENT OF THE BEAM IS CORRECT.



04_23

Front direction indicators

NOTE

FOR REMOVING, CHECKING AND REPLACING THE FRONT INDICATORS, PLEASE SEE AN Authorised Aprilia Dealership

Rear optical unit

CAUTION

THE TAIL LIGHT ASSEMBLY MUST BE REMOVED, CHECKED AND, IF NECESSARY, REPLACED BY AN Authorised Aprilia Dealer.

Rear turn indicators

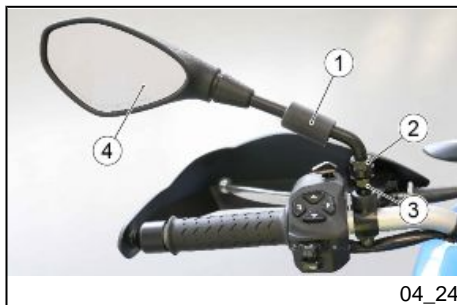
NOTE

FOR REMOVING, CHECKING AND REPLACING THE REAR INDICATORS, PLEASE SEE AN Authorised Aprilia Dealership

Number plate light

NOTE

TO HAVE THE LICENCE PLATE LIGHT REMOVED, CHECKED AND, IF NECESSARY, REPLACED, TAKE THE VEHICLE TO AN Official Aprilia Dealer



Rear-view mirrors (04_24, 04_25)



DO NOT RIDE WITH REAR-VIEW MIRRORS INCORRECTLY SET.

ALWAYS CHECK THAT THE MIRRORS ARE ADJUSTED CORRECTLY BEFORE SETTING OFF.

Removing the rear-view mirrors:

- Rest the vehicle on its stand.
- Lift the rubber protection (1).
- Loosen the fastening nut (2) by ensuring that the threaded clamp (3) cannot rotate.
- Slide up and remove the complete rear-view mirror unit (4).

Repeat the procedure to remove the other rear-view mirror, if necessary.



UPON REFITTING AND BEFORE TIGHTENING THE LOCKING NUT, MAKE SURE THAT THE REAR VIEW MIRROR SUPPORT STEM IS ALIGNED WITH THE HANDLEBAR.

CAUTION

THE VEHICLE MAY NOT BE RIDDEN ON PUBLIC ROADS WITH THE REAR VIEW MIRRORS REMOVED.



04_25

Rear-view mirrors adjustment:

- Get onto the bike in the riding position.
- Turn the mirror, correctly adjusting the inclination.

Repeat the procedure to adjust the other mirror.

- Make sure there is no dirt or mud.



04_26

Front and rear disc brake (04_26, 04_27, 04_28)

CAUTION



CHECK BRAKE PADS FOR WEAR MAINLY BEFORE EACH RIDE.



04_27

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:
 - from above at the front, through the spokes for the front brake callipers (1);
 - from the bottom rear side to check 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 MET-

ALLIC NOISE AND SPARKS IN THE CALLIPER; THEREFORE, BRAKING EFFICIENCY AND DISC SAFETY AND INTEGRITY ARE AT RISK.

Once the friction material of even one front or rear pad has worn to a thickness of approximately **1.5 mm (0.06 in)** (or even if even one of the wear indicators is no longer visible), contact an Official **Aprilia** Dealer to replace all the brake pads.



USE ONLY ORIGINAL BRAKE PADS.

THE USE OF BRAKE PADS OTHER THAN ORIGINAL ONES CAN COMPROMISE PERFORMANCE AND/OR DAMAGE THE BRAKING SYSTEM.

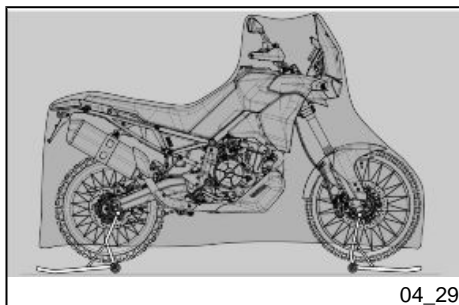


Periods of inactivity (04_29)

A number of precautionary measures must be taken to prevent the possible consequences of prolonged lack of usage of the vehicle. 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 motorcycle.
- 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

USE A SUITABLE SUPPORT TO LIFT THE VEHICLE WITH BOTH TYRES OFF THE GROUND.

- Place the vehicle on the specific front stand (optional) and rear stand (optional).
- Cover the vehicle (do not use plastic or waterproof materials).

AFTER STORAGE**NOTE**

REMOVE THE PLASTIC BAG FROM THE END OF THE SILENCER.

- 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

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

Cleaning the vehicle (04_30, 04_31, 04_32)

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.
- 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 dashboard with a soft, damp cloth.

CAUTION

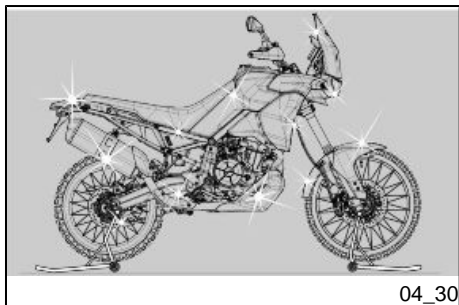
BEFORE WASHING THE VEHICLE, COVER THE ENGINE AIR INTAKES AND THE EXHAUST PIPES.

CAUTION

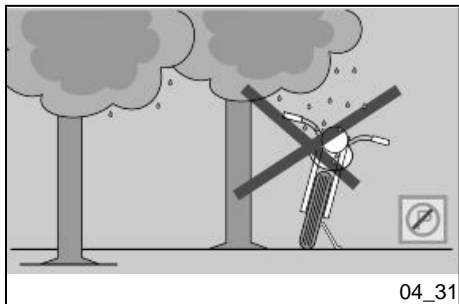
IN CASE OF DISCOLOURATION OF THE SILENCER, APPLY FINISHING POLISH WITH A SOFT CLOTH.

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.



04_30



04_31

CAUTION**WARNING**

AFTER HEAVY RAIN, WASHING OR IN CASE OF RAPID TEMPERATURE CHANGES, THE LENSES OF THE FRONT LIGHT ASSEMBLY MAY BECOME FOGGY.

THIS STATE IS DUE TO THE TEMPERATURE DIFFERENCE BETWEEN THE OUTSIDE AND THE INSIDE AND DOES NOT INDICATE A FAULT OF THE FRONT LIGHT ASSEMBLY.

To remove dirt and mud accumulated on painted surfaces, wet the soiled areas thoroughly with a low-pressure water jet, then remove dirt and mud with a soft car body sponge soaked abundantly in a solution of car body shampoo in water (2 - 4% shampoo dissolved in water). Then rinse with plenty of water, and dry with a chamois leather.

Use neutral soap and water to clean the external parts of the engine and the parts in anodized or painted aluminium. Using aggressive detergents may damage the surface treatment of these components.

Cleaning must only be done with the engine cold.

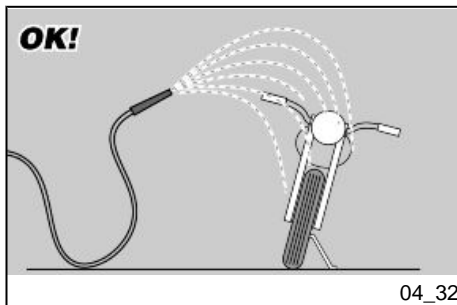
FAILURE TO COMPLY WITH THESE INDICATIONS MAY LEAD, IN CERTAIN CASES, TO THE VARIATION IN THE SHADE OF THE TREATED SURFACE AND CONSEQUENTLY TO THE VOID OF THE WARRANTY.



TO CLEAN THE LIGHT ASSEMBLIES, USE A SPONGE SOAKED IN WATER AND MILD DETERGENT, GENTLY RUBBING THE SURFACE AND RINSING FREQUENTLY WITH PLENTY OF WATER.

DO NOT CLEAN THE FRONT LIGHT ASSEMBLY WITH DETERGENTS CONTAINING TENSIOACTIVE AGENTS AND/OR ALCOHOL.

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 PAINTWORK IF IT DRIES BEFORE BEING RINSED OFF.

CAUTION

NEVER USE CLOTHS SOAKED IN PETROL, DIESEL OIL OR KEROSENE FOR CLEANING THE PAINTED OR PLASTIC SURFACES SO AS NOT TO DAMAGE THE LUSTRE FINISH OR ALTER THE MECHANICAL PROPERTIES.

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 ON THESE COMPONENTS. 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.

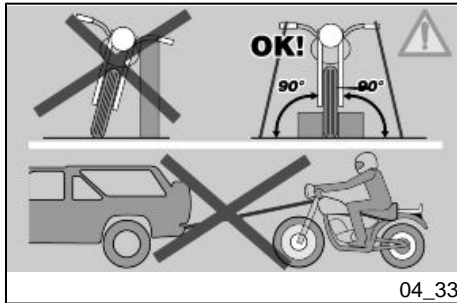
CAUTION



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

Lubricate the following components after washing the vehicle:

- drive chain;
- lever controls;
- pedal controls;
- clutch cable;
- ignition switch;
- passenger footrests.



Transport (04_33)

NOTE



BEFORE TRANSPORTING THE VEHICLE, THE FUEL TANK MUST BE EMPTIED ADEQUATELY AND YOU MUST CHECK THAT IT IS COMPLETELY 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 .

- Fold the rear view mirrors inwards to reduce the risk of damage.

Transmission chain



AN EXCESSIVELY LOOSE DRIVE CHAIN MAY DETACH FROM THE FRONT PINION OR SPROCKET, CAUSING AN ACCIDENT OR SIGNIFICANT DAMAGES TO PERSONS AND TO THE VEHICLE. CHECK REGULARLY THE CLEARANCE OF THE DRIVE CHAIN AND ADJUST THE CHAIN IF NECESSARY. TO CHANGE THE DRIVE CHAIN, CONTACT AN Authorised Aprilia Dealer, WHICH WILL BE PLEASED TO PROVIDE YOU WITH QUICK AND THOROUGH SERVICE.

CAUTION



INCORRECT MAINTENANCE MAY CAUSE EARLY WEAR OF THE DRIVE CHAIN AND/OR DAMAGE THE FRONT PINION AND/OR THE REAR SPROCKET. PERFORM DRIVE CHAIN MAINTENANCE OPERATIONS MORE FREQUENTLY IF YOU RIDE THE VEHICLE IN EXTREME CONDITIONS OR ON DUSTY AND/OR MUDDY ROADS.

IN PARTICULAR IT IS NECESSARY TO CARRY OUT A THOROUGH CLEANING OF THE DRIVE CHAIN IF AN EXCESSIVE ACCUMULATION OF DIRT (MUD, DUST, SAND, ETC.) IS FOUND.

CAUTION



DO NOT MODIFY THE FINAL DRIVE GEAR RATIO OR THE NUMBER OF LINKS IN THE CHAIN.

Characteristic

Final drive ratio

15 / 42

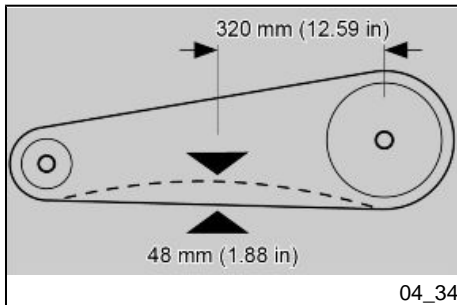
Type

Regina 120 links

With sealed master link

Model

520 - ZRA



Chain backlash check (04_34)

To check the clearance:

- Shut off the engine.
- Rest the vehicle on the side stand.
- Select neutral.
- Check that the vertical deflection of the bottom section of the chain, measured at a distance of **320 mm (12.59 in)** from the centre of the rear wheel axle (along imaginary line between centres of front and rear sprockets), is approximately **48 mm (1.88 in)**.

- Move the vehicle forwards to check the vertical deflection of the chain in other positions; the chain deflection must be constant throughout the entire rotation of the wheel.

if the clearance is uniform, but greater or less than **48 mm (1.88 in)**, carry out the adjustment.

CAUTION

IF THE CLEARANCE IS GREATER IN SOME POSITIONS IT MEANS THAT SOME ELEMENTS OF THE CHAIN ARE CRUSHED OR HAVE SEIZED UP. IN THIS CASE THE CHAIN SHOULD BE REPLACED.

LUBRICATE THE CHAIN REGULARLY TO PREVENT THE RISK OF SEIZURE.

Chain backlash adjustment

ANY WORK ON THE DRIVE CHAIN MUST BE PERFORMED BY AN Authorised Aprilia Dealer.

Checking wear of chain, front and rear sprockets

Also check the following parts and check that the chain, the front sprocket and the rear sprocket do not have:

- damaged rollers.
- loosened pins.
- dry, corroded, crushed or seized links.
- excessive wear.
- Missing sealing rings.
- excessively worn or damaged front or rear sprocket teeth.

CAUTION

IF THE CHAIN ROLLERS ARE DAMAGED, THE PINS ARE LOOSE AND/OR THE SEAL RINGS ARE DAMAGED OR MISSING, THE ENTIRE CHAIN UNIT (PINION, SPROCKET AND CHAIN) NEEDS TO BE REPLACED.

CAUTION

CHECK THE STATE OF WEAR OF THE CHAIN SLIDER

CAUTION

LUBRICATE THE CHAIN AT FREQUENT INTERVALS, ESPECIALLY IF ANY DRY OR CORRODED PARTS ARE NOTED. CRUSHED OR SEIZED LINKS MUST BE LUBRICATED AND RESTORED TO PROPER WORKING ORDER. IF THIS IS NOT POSSIBLE, HAVE THE CHAIN REPLACED BY AN Authorised Aprilia Dealer.

Chain lubrication and cleaning

- Wash the chain with a light jet of water.
- Remove grease residues with a chain cleaner.
- When the chain is dry, lubricate it with spray grease for sealed chains.

Lubricate the chain whenever necessary.



THE DRIVE CHAIN IS FITTED WITH RUBBER O-RINGS BETWEEN ITS SIDE PLATES IN ORDER TO RETAIN THE LUBRICATING GREASE. PROCEED WITH THE UTMOST CAUTION WHEN ADJUSTING, LUBRICATING, WASHING OR REPLACING THE CHAIN.

COMMERCIALY AVAILABLE CHAIN LUBRICANTS MAY CONTAIN SUBSTANCES THAT DAMAGE THE RUBBER O-RINGS FITTED ON THE CHAIN.

DO NOT USE THE VEHICLE IMMEDIATELY AFTER LUBRICATING THE CHAIN SINCE THE LUBRICANT WOULD BE SPRAYED OUT AND CONTAMINATE THE SURROUNDING AREA.

TUAREG 660



Chap. 05 Technical data

Data

DIMENSIONS AND MASS

Max. length	2220 mm (87.40 in)
Max. width (at handlebar)	965 mm (37.99 in)
Max. height (to top fairing)	1,140 mm (44.88 in)
Wheelbase	1525 mm (60.03 in)
Kerb weight	204 kg (449.74 lb)
Weight fully loaded	279 kg (615.08 lb)

ENGINE

Type	2 cylinder in line (transverse), 4 stroke, 4 valves per cylinder, double overhead camshafts
Engine capacity	659 cc (40.21 cu in)
Bore / stroke	81 mm / 63.93 mm (3.19 in / 2.52 in)
Compression ratio	13.5 +/- 0.5: 1
Idle engine speed	1400 +/- 100 rpm

Engine revs at maximum speed	9250 +/- 100 rpm
Clutch	Multi plate wet clutch with mechanical control lever on left side of the handlebar. Anti-juddering and slipper clutch systems
Starting	Electric
Timing	Morse chain on intake and exhaust camshafts, bucket tappets and valve clearance adjustment with calibrated pads
Lubrication system	Wet sump with pump
Oil pump	Trochoidal pump
Oil filter	With external cartridge filter
Cooling	Liquid
Cooling system	3-way thermostatic valve, cooling radiator with electric fan and expansion tank
Coolant pump	Centrifugal bearingless aspirating pump with integrated aluminium gasket
Air filter	Paper

CAPACITY

Fuel tank capacity (including reserve)	18 l (3.95 UK gal; 4.75 US gal)
Fuel tank reserve capacity	2.7 l (0.59 UK gal; 0.71 US gal)
Engine oil	oil change and oil filter replacement: 2300 cc in (140.35 cu in)
Coolant	2 +/- 0.2 l (0.43 +/- 0.04 UK gal; 0.52 +/- 0.05 US gal)
Seats	2
Maximum weight limit	414 kg (912.71 lb)

DRIVE RATIOS

Primary drive ratio	39 / 80 (with gears)
Drive ratio, 1st gear	13 / 37 (secondary)
Drive ratio, 2nd gear	16 / 33 (secondary)
Drive ratio, 3rd gear	24 / 39 (secondary)
Drive ratio, 4th gear	19 / 26 (secondary)

Drive ratio, 5th gear	21 / 25 (secondary)
Drive ratio, 6th gear	22 / 23 (secondary)
Final drive ratio	15 / 42

DRIVE CHAIN

Type	Regina 120 links With sealed master link
Model	520 - ZRA

ELECTRONIC CONTROL SYSTEMS

a-PRC system	(Aprilia Performance Ride Control) which includes: AEM (engine map management system), AEB (engine brake map management system), ABS (Anti-lock braking system), ATC (traction control), AQS (Assisted shifting system without clutch assistance for both up-shifting and down-shifting) (where provided)
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FUEL SYSTEM

Fuel	Unleaded gasoline E10 (95 R.O.N.)
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FUEL SUPPLY SYSTEM

Throttle body diameter	48 mm (1.89 in)
------------------------	-----------------

Type	Electronic injection with 1 injector per cylinder and 2 motorised throttle bodies (ride-by-wire) with fixed length intake trumpets. Selectable multimap.
------	--

CHASSIS

Type	Welded tubular double cradle steel frame.
------	---

Steering rake angle	26.7° (measurements with respect to bare chassis)
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SUSPENSION

Front fork	Adjustable upside-down hydraulic fork with 43 mm (1.69 in) stanchions
Front stroke	240 mm (9.44 in)
Rear shock absorber	Progressive linkage with piggy-back. Adjustable spring pre-load, hydraulic compression and rebound damping.
Rear stroke	106,5 mm (4.19 in)

BRAKES

Front	Discs Ø 300 mm (11.81 in), two-piston floating callipers - Ø 30-32 mm (1.18-1.25 in) and 2 pads - axial pump with integrated reservoir.
Rear	Disc brake - Ø 260 mm (10.23 in), single-piston floating calliper - Ø 34 mm (1.34 in) - pump with separate reservoir.

WHEEL RIMS

Front wheel	2,15 x 21" with spokes, alloy rim channel
Rear wheel	4,25 x 18" with spokes, alloy rim channel

TYRES

Front tire	90/90 - 21 M/C 54V (permitted use category M + S) Alternative solution: 90/90 - 21 M/C 54R M+S (Vmax: 170 km/h) (105 mph)
Inflation pressure	Rider: 2 bar (200 KPa) (29 PSI) Rider + Passenger: 2.2 bar (220 KPa) (31.90 PSI) Off-road: 2 bar (200 KPa) (29 PSI)
Rear tire	150/70 R18 M/C 70V (permitted use category M + S) Alternative solution: 150/70 - 18 M/C 70R M+S (Vmax: 170 km/h) (105 mph)

Inflation pressure	Rider: 2.5 bar (250 KPa) (36.25 PSI)
	Rider + Passenger: 2.7 bar (270 KPa) (39.16 PSI)
	Off-road: 2 bar (200 KPa) (29 PSI)

WARNING

RESPECT THE INFLATION PRESSURE INDICATED IN EVERY DRIVING / ROUTE CONDITION. FAILURE TO COMPLY WITH THIS PRESCRIPTION CAN CAUSE SERIOUS DAMAGE TO THE WHEELS AND TO THE VEHICLE IN GENERAL.

IN PARTICULAR, RIDING WITH INFLATION PRESSURES LOWER THAN THOSE PRESCRIBED IS HIGHLY UNRECOMMENDED.

ELECTRICAL SYSTEM

Spark plugs	NGK IR MR9DI-7
Electrode gap	0.7 - 0.8 mm (0.027 - 0.031 in)
Battery	BS BATTERY LITIO BSLi-04, 12V 48Wh 280A Alternative solution: YUASA YT12A-BS, 12V 10 Ah
Coils	Stick coil

Recharging system	Flywheel with rare earth magnets
Generator	360 W
Main fuses	30A
Secondary fuses	2A, 5A (6) - 7.5A (4) - 15A - 20A

FUNCTIONS: HEADLAMP/TAIL LIGHT/LICENCE PLATE LIGHT

High beam/low beam light	LED - 18W / 27W
Front DRL	LED - 2W / 10W
Turn indicators	LED - 2.7W
Rear running light / brake light	LED - 0.5W / 2.3W
Licence plate lamp	LED - 0.67W

INDICATOR LAMPS

Neutral	LED
High beam headlight	LED
Cruise control	LED

ABS	LED
MI	LED
Turn indicators	LED
Overspeed threshold/shift light	LED
Immobilizer	LED
Fuel reserve	LED
a-PRC	LED
General warning	LED
DRL	LED
Side stand	LED

TUAREG 660



Chap. 06 Programmed maintenance



06_01

Scheduled maintenance table (06_01)

Proper maintenance is a crucial factor in prolonging the durability of the vehicle and keeping it in perfect working order.

To ensure that maintenance is carried out correctly, the constructor has defined the schedule of checks and services (performed at the owner's expense) summarised in the table given in the following page. It is a good idea to report small performance anomalies right away to an **Authorised Service Centre**, without waiting for the next scheduled service, so they can be repaired immediately.

All scheduled maintenance services must be carried out at the prescribed times, even if the specific mileage has not yet been reached. Services must be performed punctually at the correct intervals to maintain the validity of the warranty. For any additional information concerning Warranty procedures and 'Scheduled Maintenance', please consult the 'Warranty Conditions'.

NOTE

THE MAINTENANCE INTERVALS PRESCRIBED BY THE SCHEDULED MAINTENANCE TABLE MUST BE CONSIDERED AS A GENERAL GUIDE FOR USING THE VEHICLE IN NORMAL RUNNING CONDITIONS.

IT MAY BE NECESSARY TO REDUCE THE MAINTENANCE INTERVALS UNDER SOME PARTICULAR CONDITIONS. ESPECIALLY WHEN USED IN GEOGRAPHICAL LOCATIONS WITH ADVERSE CLIMATIC CONDITIONS, USE ON UNEVEN GROUND OR SEVERE INDIVIDUAL USE.

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

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

(1) Check and clean and adjust or replace, if necessary, before every journey.

(2) Check and clean, adjust or replace if necessary every 1,000 km (621.37 mi).

(3) Replace at whichever of the following occurs first: 40,000 km (24,854.85 mi) or 4 years.

(4) Maintenance interval halved in the event of off-road use.

SCHEDULED MAINTENANCE TABLE

km x 1,000 (mi x 1,000)	1 (0.6)	10 (6.2)	20 (12.4)	30 (18.6)	40 (24.9)	12 months	24 months
Rear shock absorber (bearings - linkage systems) (4)			I		I	I	I
Engine oil filler plug O-ring	I	I	I	I	I	I	I
Flywheel cover cap O-Ring			I		I		
Fork plug O-ring					I		
Motorcycle set up	I	I	I	I	I		
Spark plug			R		R		
Drive chain (2) (4)	I - L	I - L	I - L	I - L	I - L	I	I
Clutch cable (4)	L	L	L	L	L	L	L
Front sprocket - rear sprocket - Chain slider - chain tensioner roller		I	I	I	I		
Steering bearings and steering play	I	I	I	I	I	I	I
Wheel bearings - Wheels (4)	I	I	I	I	I	I	I
Diagnosis by tool	I	I	I	I	I	I	I
Brake discs - Brake pads wear (1)	I	I	I	I	I	I	I
Air filter (4)		I	R	I	R		
Engine oil filter	R	R	R	R	R	R	R
Vehicle general operation	I	I	I	I	I	I	I
Valve clearance			A		A		
Head cover gasket			I		I		

km x 1,000 (mi x 1,000)	1 (0.6)	10 (6.2)	20 (12.4)	30 (18.6)	40 (24.9)	12 months	24 months
Engine oil discharge plug aluminium gasket	R	R	R	R	R	R	R
Coolant drain screw aluminium gasket							R
Spark plug shanks gasket			R		R		
Cooling system		I	I	I	I		
Brake systems	I	I	I	I	I	I	I
Safety switches (stand, stop, clutch, extra negative stroke, gas control)	I	I	I	I	I	I	I
Brake fluid	I	I	I	I	I	I	R
Coolant	I	I	I	I	I	I	R
Fork oil (3) (4)					R		
Engine oil	R	R	R	R	R	R	R
Headlight aiming		I	I	I	I		
Fork oil seals (4)	I	I	I	I	R		
Tyres - pressure / wear (1)	I	I	I	I	I	I	I
Nut/bolt tightness (4)	I	I	I	I	I		
Head cover fastening screws dampers			I		I		



06_02

Recommended products (06_02)

Piaggio Group recommends the use of products from its Castrol official partner for the scheduled maintenance of its vehicles.

Only use lubricants and fluids which meet or exceed the performance characteristics specified. This also applies when topping up only.

TABLE OF RECOMMENDED PRODUCTS

Product	Description	Specifications
Engine oil 10W -50	Synthetic-based lubricant for high performance four-stroke engines.	SAE 10W 50; API SL; JASO MA2
Lithium-based grease	Lithium-calcium soap based grease	colour - black, contains EP (Extreme Pressure) additives, excellent water-repellent properties
Anti-freeze liquid, ready to use, colour red	Ethylene glycol antifreeze liquid with organic inhibition additives. Red, ready to use.	ASTM D 3306 - ASTM D 4656 - ASTM D 4985 - CUNA NC 956-16
DOT 4 brake fluid	Synthetic brake fluid.	SAE J 1703; FMVSS 116; ISO 4925; CUNA NC 956 DOT4
Fork oil 7.5W	Fork oil.	SAE 7.5W

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THE VALUE OF SERVICE

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

The reliability of the vehicle also depends on its mechanical conditions. Checking the vehicle before riding it, performing maintenance correctly and using only **original Aprilia spare parts** are essential factors for the reliability of your vehicle!

For information on the nearest **Official Dealer and/or Service Centre** consult our website:

www.aprilia.com

Only by requesting original Aprilia spare parts can you be of purchasing products that were developed and tested during the design and development of the vehicle itself. All Aprilia original spare parts undergo quality control procedures to guarantee reliability and durability.

The descriptions and images in this publication are given for illustrative purposes only.

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