

USER MANUAL

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**500<sub>CC</sub>**

**CABALLERO**

**FANTIC**

## FANTIC WANTS TO THANK YOU

for choosing one of its products.

We recommend that you read this manual before driving your vehicle. It contains information, advice and warnings on the vehicle maintenance and use. The instructions in this manual have been prepared to give you a simple and clear guide for use. We are sure that taking it into consideration you will gain confidence with your new vehicle, which you can use for a long time and with full satisfaction.



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# INTRODUCTION

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This manual is an integral part of the vehicle and if the vehicle should be resold, it must be delivered together with the vehicle. **Fantic Motor** reserves the right to modify and make changes, at any time and without notice, to the models described, specifications and design data, guaranteeing the essential characteristics described and illustrated herein. This publication, or part of it, cannot be reduced or translated without the company's approval. Reproduction of the contents used in this manual without the Manufacturer's permission is prohibited. **Fantic Motor** assumes no responsibility for printing errors and omissions. All rights reserved.

## MANUFACTURER DATA AND EDITION

FANTIC MOTOR S.P.A.

[www.fantic.com](http://www.fantic.com) - [info@fanticmotor.it](mailto:info@fanticmotor.it)

Edition: 00/2024.

Code: V1472005.

## SYMBOLS USED

The symbols indicated in the booklet are very important. They are used to highlight parts of text to which it is necessary to pay more attention. Read this manual carefully before starting the engine. Your safety and that of others does not depend only on your quickness of reflexes and agility, but also on your knowledge of the vehicle, its condition and your knowledge of the rules for safe driving. We therefore recommend that you familiarize yourself with the vehicle so that you can move in all driving situations with mastery and safety.

In this booklet you will find notes to warnings preceded by the following symbols:

 **Important safety regulations for the vehicle and the driver.**

 **Information notes on the vehicle use and characteristics.**

# GENERAL INFORMATION

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## GENERAL WARNINGS

### Motorcycle care

Fantic Motor recommends using appropriate vehicle care products. Using products that contain alcohol, nitro diluents, cold detergents, fuels or similar can ruin and/or damage vehicle components.

Regular care preserves the aesthetic and functional quality of your vehicle for a long time.

### Carbon monoxide

 **The exhaust fumes contain carbon monoxide, a poisonous gas that can cause death. Therefore, for certain operations, make sure you are in an open space, or in a suitable and well-ventilated room, never in enclosed spaces. If operating in enclosed spaces, use an evacuation system for the exhaust fumes.**

### Fuel

PETROL FUEL TYPE	
	

 **The fuel used is extremely flammable and can become explosive under certain conditions. Refuelling and maintenance operations must be carried out in a ventilated area and with the vehicle switched off. Do not smoke during refuelling and near fuel vapours; avoid contact with open flames, sparks and any other source that could cause ignition or explosion.**

 **Do not disperse in the environment and keep away from children.**

### Hot components

The engine and certain components become very hot and remain hot for a while even when the engine is off. Before carrying out any operation near the engine or exhaust system, wear insulating gloves or wait for their cooling.

## Used engine and gearbox oil

Used engine and gearbox oil is harmful to health, whether it is inhaled or swallowed. It is also irritating and can cause serious consequences if it comes into contact with the skin.

Spreading and dispersion into the environment is prohibited.

-  **If swallowed, do not induce vomiting, but go urgently to a first aid centre, indicating the cause and how the accident occurred.**
-  **In case of contact with the skin, immediately wash the affected part with soap and water, repeating the operation until the affected part is free from residues.**
-  **In case of contact with eyes and ears, immediately rinse the affected parts with plenty of water and urgently go to a first aid center, indicating the cause and how the accident occurred.**
-  **In case of contact with clothing, undress and wash thoroughly with soap and water. Change the dirty cloths which must be specifically washes as soon as possible.**
-  **Always use gloves suitable to protect your hands during the maintenance operations.**
-  **Keep out of the reach of children.**
-  **Used engine and gearbox oil must be collected in a sealed container, and delivered to the nearest service station or at a waste oil collection centre where you will find personnel authorized to dispose of it.**

## Brake fluid

-  **Brake fluid may damage painted, plastic or rubber surfaces. Protect these components with a clean rag when performing certain operations.**
-  **Always wear protective glasses and in case of accidental contact with eyes, rinse immediately with plenty of clean, fresh water and consult a doctor immediately. Keep out of the reach of children.**

# GENERAL INFORMATION

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## Electrolyte and hydrogen gas from the battery

-  **The electrolyte of the battery is toxic and caustic. In contact with skin it can cause burns, as it contains sulphuric acid. Wear gloves and protective clothing.**
-  **If the electrolyte liquid comes into contact with the skin, wash it thoroughly with fresh water.**
-  **Protect your eyes, as battery fluid can cause blindness. If it comes into contact with the eyes, wash thoroughly with water for fifteen minutes and promptly contact an eye specialist.**
-  **The battery emits explosive gases, it is advisable to keep away flames, sparks and any other source of heat. Provide adequate ventilation when servicing or recharging the battery.**
-  **Keep out of the reach of children.**
-  **The battery fluid is corrosive. Do not pour it or spread it, especially on plastic parts.**
-  **Provide for regular disposal.**

## Precautions and general warnings

-  **Unless otherwise specified in this manual, do not disassemble any mechanical or electrical components.**

## VEHICLE IDENTIFICATION

Frame number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Engine number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Fantic Motor** vehicles are equipped with frame and engine identification numbers. It is advisable to write down the identification numbers in the spaces indicated above, in order to remind them in case of loss or damage.



**Do not modify the identification data in order to avoid serious penal and administrative sanctions. In addition, the warranty for new vehicles will be invalidated if the frame identification number has been changed and can not be readily determined.**

## GENERAL INFORMATION

### Frame number

The frame number is punched on the steering tube on the right side.

- ❗ The image shown is for information only.
- ❗ For the original spare parts supply this identification number to your dealer.



### Engine number

The engine number is punched on the left side of the crankcase.

- ❗ The image shown is for information only.



## BEHAVIOUR AND DRIVING

Some safety tips are given below to avoid damage to people and/or things and to use your vehicle with an easier and safer drive.

### Vehicle use

To use the vehicle it is necessary to meet all the law requirements.

It is advisable, in order to acquire a good knowledge of the vehicle, to use the vehicle in areas without traffic or unpopulated stretches of road.

It is advisable to always respect the highway code while driving, to avoid sudden or dangerous manoeuvres keeping both hands on the handlebar and always keeping your feet on the appropriate footrests. Pay close attention while riding.

 **Do not ride the vehicle while drunk, under the influence of drugs, after taking certain medicines or in a state of physical fatigue and drowsiness. Failure to comply with these rules is considered extremely dangerous and could cause serious damage to property and/or people.**

Evaluate and keep in consideration the conditions of the road surface, visibility and weather. In a situation not suitable for safe driving, reduce the speed and drive carefully.

The braking effect in wet roads without ever having applied the brakes is initially less; under these conditions it is advised to periodically operate the brakes.

 **Although the vehicle is equipped with an ABS system, pay attention during braking on a wet road and on an unpaved or slippery ground.**

In case the vehicle is used on roads dirty with sand, mud, snow mixed with salt, we recommend checking and if necessary cleaning the brake discs with special non-aggressive detergents, so as to prevent the formation of abrasive agglomerates inside the holes and an early wear of the brake pads.

 **Do not alter or modify in any way the original features and performance of the vehicle. The alteration or modification of the original parts of the vehicle is prohibited by law and makes the vehicle no longer compliant and it becomes dangerous for driving. These changes lead not only to the of the annulment of the guarantee, but also to possible fines.**

 **It is recommended to always comply with national and local laws and regulations regarding vehicle equipment.**

# RULES OF USE

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The getting on and off from the vehicle must be in complete freedom of movement and without impediments. Go up and down only from the left side of the vehicle and with the kickstand down to prevent unbalancing or loss of balance, causing falls or overturns.

 **The rider is always the first to go on and the last to go down as he/she has to govern the stability of the vehicle.**

## Getting on

The passenger must make the movements to get on with the utmost caution, avoiding to unbalance the rider and the vehicle.

Place your feet on the ground and hold the vehicle in running position.

-  **The kickstand is designed to support the weight of the vehicle and a minimum load, without rider and passenger.**
-  **If it is not possible to have both feet on the ground when getting on, keep only the right foot on the ground, as the left side of the vehicle is “protected” from the kickstand, in case of imbalance or loss of balance.**

The footboards must be extracted from the passenger and wait for him/her to get on the vehicle.

-  **The rider must instruct the passenger on how to get on the vehicle. The passenger must climb with the utmost caution, avoiding to unbalance the rider and the vehicle.**
-  **The passenger must always get on from the left side of the vehicle, using the left footrest.**

Use the left foot to retract the lateral kickstand.

## Getting off

Stop the vehicle in an area suitable for stopping or parking, ensuring that the ground is stable and free of obstacles. Fully extend the kickstand using the left foot.

-  **If it is not possible to have both feet on the ground when getting off, keep only the right foot on the ground, as the left side is “protected” from the kickstand, in case of imbalance or loss of balance.**
- Keeping the vehicle in running position, wait for the passenger to get off the vehicle.
-  **The passenger must always get off from the left side of the vehicle, using the left footrest.**

 **The rider must instruct the passenger on how to get off the vehicle. The passenger must get off with the utmost caution, avoiding unbalancing the rider and the vehicle.**

 **Do not get off the vehicle jumping or by stretching the leg to touch the ground. The stability and balance of the vehicle would be compromised.**

Tilt the vehicle making the kickstand touch the ground. Get off the vehicle and turn the handlebar completely to the left.

 **Make sure that the vehicle is stationary and stable.**

 **Do not lift the vehicle grasping the license plate holder frame, in order to avoid damage.**

# RULES OF USE

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## RUNNING-IN RULES

When using the vehicle the first few times it is essential to carry out a running-in period, for the correct operation and duration of the engine. During this period, it is necessary to follow certain rules in order to prepare the engine and vehicle components for subsequent maximum performance (after running-in).

** The best performance will be achieved only after having completed the inspection at the end of the running in.**

The following tips are indicative and can help the user to perform a good running-in.

It is important to stress the engine and vehicle components appropriately, but it is necessary not to exceed or fail to do this because in both cases the engine and the vehicle components would be affected. Do not make sudden accelerations and gradually change the speed.

** Full acceleration is allowed, but it is necessary not to travel too long and at full speed.**

When driving on mountain roads, be careful not to force the engine, brakes and suspension. It is more suitable to travel on roads with moderate curves and hills where engine, brakes and suspensions alternate periods of stress to periods of reduced or no stress.

The brake pads at the purchase are new and the friction surface initially does not make perfect friction on the discs; to be fully operative, it must be run in so that is perfectly adhering to the disc during braking. The running-in requires approximately 200 km (125 mi) of urban route.

In this period, consider longer braking distances and use the brake lever with greater strength.

** Abrupt and prolonged braking must be avoided.**

During the first 1000 km (600 mi) check the maintenance operations required for this mileage.

** Follow the instructions given in the “Scheduled maintenance plan” on page 89: at the scheduled mileage, carry out servicing at an Authorised Fantic Motor Center.**

** Comply with the deadlines for these checks and operations in order to avoid damage to the vehicle, to others and to yourself.**

** Failure to comply with these rules can negatively affect the subsequent performance of the engine and vehicle components in general.**

## TURNING THE VEHICLE ON AND OFF

### Starting

Release the steering lock turning the key clockwise and get on the vehicle assuming the correct posture, making sure that the kickstand is completely retracted.

**⚠ If the kickstand is lowered, the vehicle can be started only with the gearbox in neutral. If you try to engage the gear the vehicle will switch off.**



Apply the front and/or rear brake.  
Pull the clutch lever and make sure that the gearbox is in neutral.



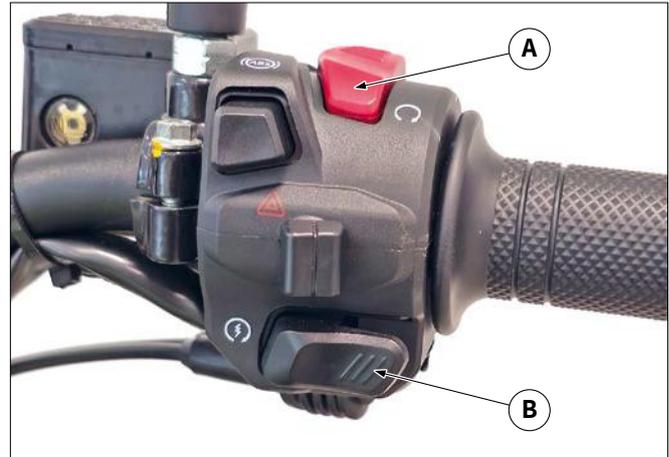
## RULES OF USE

Turn the key to “ON” and wait a few seconds to load the standard parameters on the dashboard display.



Deactivate the engine stop function by pressing the “A” button and then pressing the “B” start button once.

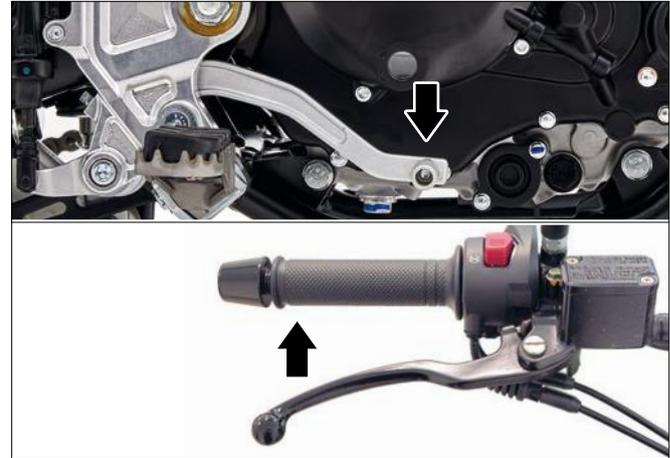
**⚠ It is advisable to warm up the engine well, proceeding for the first kilometres at reduced speed. Do not start abruptly with the cold engine.**



## Engine stop

To stop the vehicle and the engine, apply the front and/or rear brake until the vehicle is stopped. Set the shift lever to neutral.

**⚠ Do not intervene on the engine stop switch when the vehicle is running, this would cause the engine to stop; this can damage the engine and above all may cause loss of control of the vehicle.**



Only after these operations, press the engine stop button and turn the key counterclockwise to “OFF”.

**i If you forget the key turned to “ON”, the battery charge level will decrease until it is down and will need to be replaced.**

**⚠ When the vehicle is turned off, do not release the clutch too quickly or suddenly. It could cause the engine to stop or an unintended wheelie of the vehicle.**

**⚠ Avoid sudden stops or sudden vehicle slow-downs.**

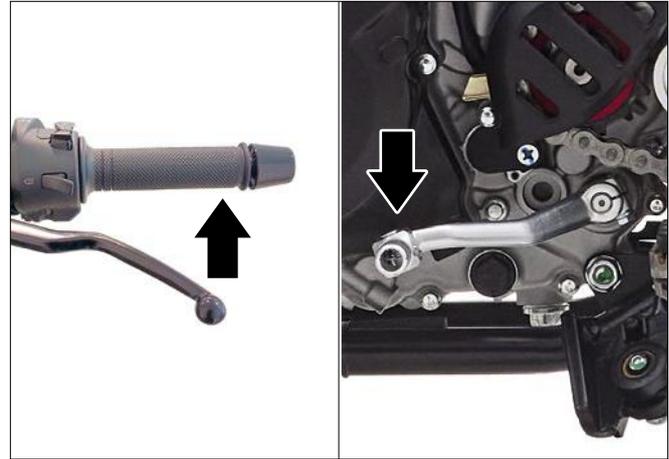


# RULES OF USE

## STARTING AND USING THE GEARSHIFT

### Starting

After starting the vehicle and warming the engine well, operate the clutch lever and engage the first gear pressing the gear lever downwards. The neutral indicator light will go off on the dashboard.



Releasing the clutch slowly, gradually accelerate to allow the vehicle to move forward.

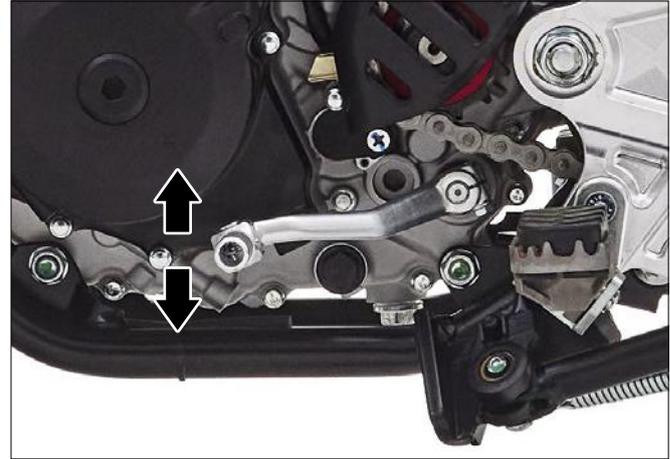
**⚠ During the acceleration phase, the engine is limited to no more than 9,500 rpm (indicated by the tachometer: see page 51), to avoid causing serious damage to the engine.**



## Gearshift use

To change gears, release the throttle control knob, operate the clutch lever and raise the gearbox pedal upward to shift up and/or down to shift down.

- i** If you are a beginner in driving the vehicle, it is important to familiarize yourself with the vehicle controls and its functions.
- !** Shift one gear at a time. Upshifting or downshifting the gearbox more than a single gear at a time may cause the engine to run out of speed and risk to exceed the maximum speed allowed by it.



## BRAKING AND THE ABS SYSTEM

- i** Slow down in good time, downshift to use the engine brake and then brake by applying both brakes.
- i** Before the motorcycle stops, disengage the clutch to prevent the engine from suddenly shutting down.
- !** Take care when braking on wet, gravel or slippery surfaces.

# RULES OF USE

## ABS SYSTEM

The vehicle is equipped with an ABS system that operates on both wheels. The ABS system is composed of an electro-hydraulic device which limits the pressure inside the braking system at the moment of braking. This occurs through the detection of the tendency to block the phonic wheels “A” (installed on the brake discs) carried out by the angular speed sensors “B” placed on the forks.

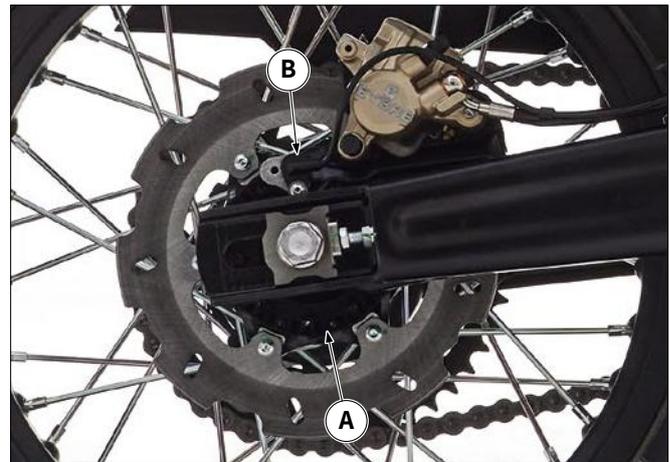
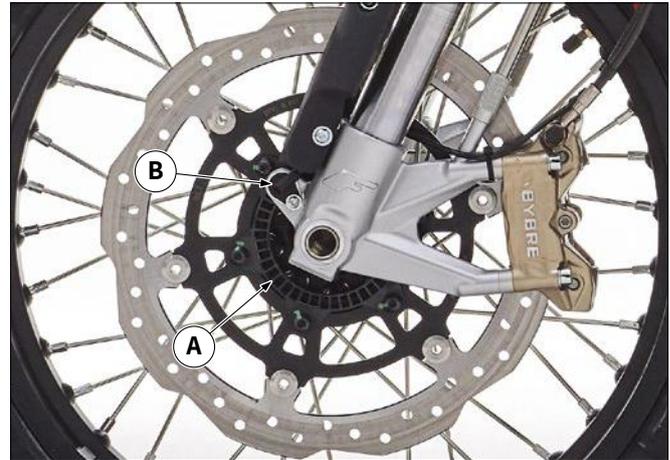
The ABS system allows an increase in the braking stability of the vehicle compared to a traditional braking system with the aim of reducing the risk of falling.

**⚠ Do not exceed the physical road holding limits of the vehicle. It is the rider’s responsibility to ride at appropriate speeds, always evaluating the weather and road conditions. The ABS cannot compensate for errors in judgement and/or incorrect use of the vehicle.**

**ⓘ When the key is turned to the “ON” position, the ABS indicator light turns on and flashes until the vehicle exceeds 5 km/h, and then it turns off.**

**⚠ In the event of a battery malfunction, the ABS system is deactivated.**

**⚠ The ABS system intervenes on both wheels, receiving information from the phonic wheels. It is important to always check that the phonic wheels are clean and periodically check that the distance from the sensor is fully constant. For verification and adjustment, contact an authorized Fantic Motor Center.**



ABS can be activated/deactivated by pressing the ABS button “C” for a few seconds and only in the “ALL-TERRAIN” driving mode (for more information refer to “Riding mode selection” on page 53).

- ❗ **The ABS warning light stays on permanently if the ABS system has been manually deactivated.**
- ⚠️ **In case of failure of the ABS system, the indicator light turns on, the vehicle retains the characteristics of a traditional braking system. Moderate the speed and go to an authorized Fantic Motor Center.**
- ⚠️ **At low speed the ABS system is not active: pay particular attention to the braking situations in conditions of low grip at low speed.**



## PARKING

Choose the parking zone carefully and with attention. It is very important to respect the road signs and the indications given below.

- ⚠️ **Do not park the vehicle placing it against the walls or laying it on the ground. Make sure that the parking area is solid and level.**
- ⚠️ **Make sure that parts subject to high temperatures (silencer, engine, radiator, brake discs, etc.) are not dangerous for people and the surrounding environment.**
- ⚠️ **Never leave the vehicle on and unattended with the key inserted.**

### Tips to prevent theft

Never leave the ignition key on and always use the steering lock. Park the vehicle in a safe place, possibly in a garage or in a monitored place. Check that the documents and the circulation tax are in order.

# RULES OF USE

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## SIDE KICKSTAND

 **Before leaving make sure that the kickstand is fully up. Do not load your weight or the passenger's weight on the side kickstand.**

The side kickstand is located on the left side of the frame. Raise or lower the side kickstand with your foot while holding the vehicle straight.

The side kickstand is equipped with an ignition circuit breaker system and has the following functions:

- prevent starting when the gearshift is engaged and the kickstand is raised, with the clutch lever not pulled.
- prevent starting when the gearshift is engaged and the clutch lever is pulled, but with the side kickstand still down.
- switch off the engine when the gearshift is engaged and with the side kickstand down.

 **The kickstand sensor is part of the ignition circuit interruption system. This system allows you to stop the ignition.**

 **It is necessary to check the operation of the kickstand interruption system and the kickstand itself regularly. In case of failure or malfunction contact a Fantic dealer to repair it.**

## SILENCER

This component, with regard to exhaust gas, has the task of oxidizing carbon monoxide converting it into carbon dioxide, of transforming unburnt hydrocarbons into water vapour and reducing nitrogen oxides converting them into oxygen and nitrogen.

** During the vehicle use, the part of the exhaust system corresponding to the catalytic element can take a bright red colour: this colour variation is absolutely normal and indicates a correct operation of the catalyst.**

** Avoid stopping or parking the vehicle near places where there is dry brushwood.**

** Avoid places accessible to children and/or people.**

** The silencer reaches high temperatures, so avoid any kind of contact and pay the maximum attention until it has not completely cooled down.**

** It is forbidden to modify, alter or tamper with the exhaust system in any way.**

** Do not use leaded petrol as it will ruin the catalyst.**

Check that there are no holes and signs of rust or wear on the exhaust system.

Check that the exhaust system always works correctly.

In case of increased or abnormal noise, contact a Authorized Fantic Motor Center as soon as possible.

** For maintenance, repair or replacement work, contact an Authorized Fantic Motor Center.**

# RULES OF USE

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## CLOTHING

Always wear and fasten the helmet before starting to ride the vehicle. The helmet must be approved, intact and with the visor intact and clean. Wear appropriate protective clothing and no hanging accessories that could create problems when riding the vehicle. Do not wear or carry sharp objects as they are potentially dangerous in the event of a fall.

 **All these recommendations also apply to the passenger.**

## TRANSPORT

Before transporting the vehicle, the fuel tank must be completely emptied. Avoid accidental fuel leaks and check that the components are completely dry. The vehicle must be firmly secured, with the first gear engaged and in running order.

 **In the event of failure, do not perform towing or unsafe and risky procedures that may endanger people and/or things. This would result in the risk of causing accidents or damage to the vehicle.**

## REFUELLING

To refuel, lift the cover “A”.  
Insert the key “B” and turn it anticlockwise.  
Lift the cap “C” and refuel.

**⚠ When refuelling, do not smoke or use open flames, avoid using electrical devices or any source that can trigger sparks or ignition. Failure to comply with these rules could result in a danger of fire or explosion, causing serious damage to property and/or persons.**

**⚠ Do not add additives or other substances to the fuel during refuelling.**

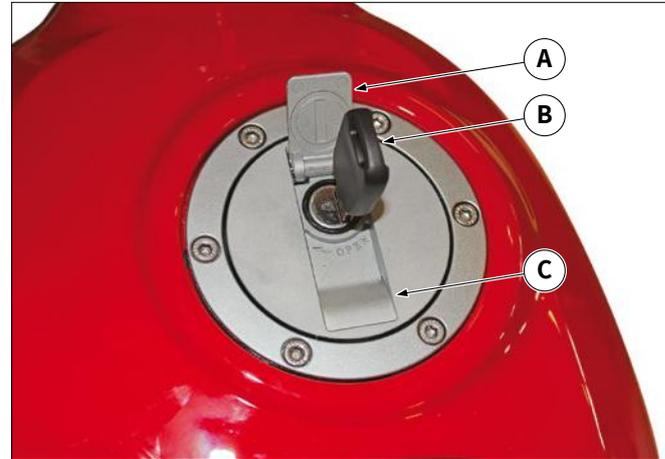
**⚠ Avoid fuel leakage during refuelling. If you use a funnel, make sure that it is perfectly clean.**

**⚠ It is recommended to use the type of fuel indicated in the technical specifications of this manual. Do not use different fuels, they could damage the fuel system and compromise the operation of the engine.**

After refuelling, close the cap “C”.  
Turn the key “B” clockwise and then remove it.  
Close the cover “A”.

**ⓘ The tank cap can be closed only with the key inserted.**

**⚠ Make sure that the tank cap is closed.**



# RULES OF USE

Fuel reserve indicator light

- ① If the fuel reserve indicator light comes on, refuel as soon as possible.



## MAIN CONTROLS (SCRAMBLER/DELUXE VERSIONS)

EN



1. Headlight
2. Left front turn indicator
3. Dashboard
4. Clutch lever
5. Left light stalk
6. Left rear-view mirror
7. Tank cap
8. Fuel tank
9. Rider and passenger saddle

10. Rear handle
11. Rear fender
12. Tail light
13. License plate holder
14. License plate light
15. Left rear turn indicator
16. Left passenger footrest
17. Left rider footrest
18. Side kickstand

19. Gear shift lever
20. Left radiator cover
21. Front brake calliper
22. Front speed sensor
23. Phonic wheel

# MAIN ELEMENTS AND DEVICES



24. Right rear-view mirror

25. Right light stalk

26. Gas command

27. Front brake master cylinder

28. Front brake lever

29. Right front turn signal

30. Engine oil cap

31. Rear brake lever

32. Rear brake oil tank

33. Right rider footrest

34. Rear brake master cylinder

35. Right passenger footrest

36. Rear brake calliper

37. Rear speed sensor

38. Phonic wheel

## MAIN CONTROLS (RALLY VERSION)

EN



1. Headlight
2. Left front turn indicator
3. Dashboard
4. Clutch lever
5. Left light stalk
6. Left rear-view mirror
7. Tank cap
8. Fuel tank
9. Rider and passenger saddle

10. Rear handle
11. Rear fender
12. Tail light
13. License plate holder
14. License plate light
15. Left rear turn indicator
16. Left passenger footrest
17. Left rider footrest
18. Side kickstand

19. Gear shift lever
20. Left radiator cover
21. Front brake calliper
22. Front speed sensor
23. Phonic wheel

# MAIN ELEMENTS AND DEVICES



24. Right rear-view mirror

25. Right light stalk

26. Gas command

27. Front brake master cylinder

28. Front brake lever

29. Right front turn signal

30. Engine oil cap

31. Rear brake lever

32. Rear brake oil tank

33. Right rider footrest

34. Rear brake master cylinder

35. Right passenger footrest

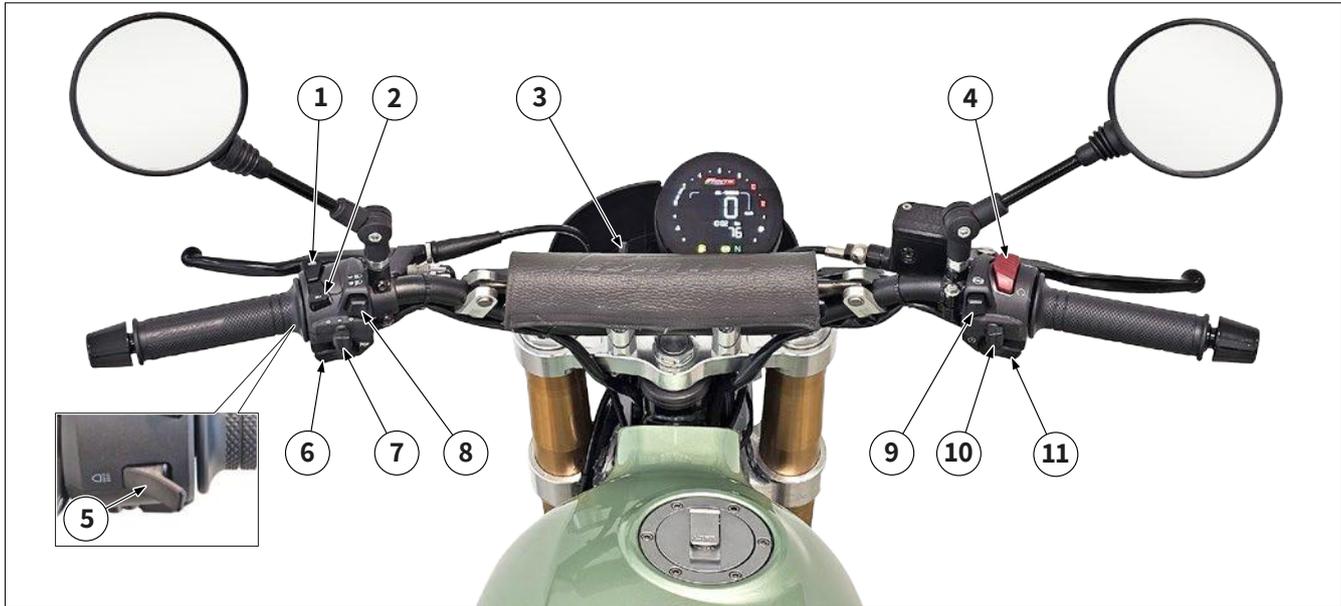
36. Rear brake calliper

37. Rear speed sensor

38. Phonic wheel

## PANEL COMMANDS

EN



1. Mode button
2. Selection button
3. Ignition switch
4. Engine stop button
5. High beam flasher button
6. Horn button
7. Turn signal switch
8. High beam/low beam light button
9. ABS button

10. Turn signals indicator light switch
11. Starter button

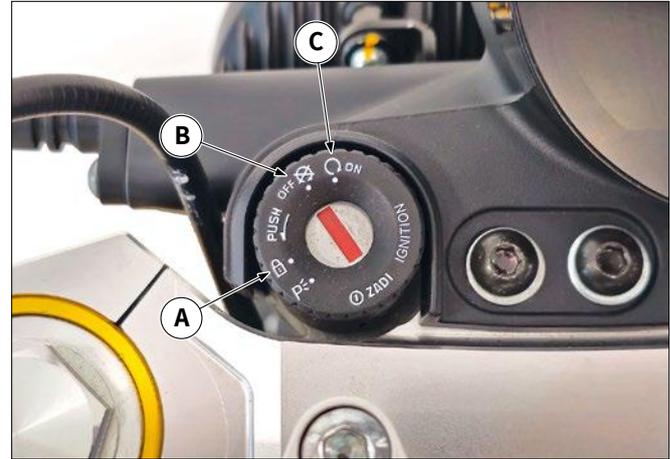
# DRIVING CONTROLS AND ADJUSTMENTS

## IGNITION SWITCH

The ignition switch is located at the front of the vehicle near the dashboard.

The functions of the ignition switch are the following:

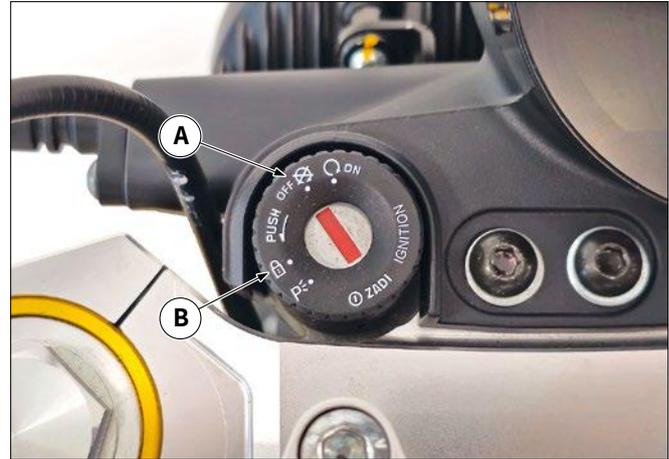
- A. The handlebar is locked and the vehicle cannot be started and the lights cannot be switched on. The key can be removed.
- B. The vehicle and the lights can not be operated and the key can be removed.
- C. The vehicle can be put into operation but the key can not be removed.
- D. The handlebar is locked and the vehicle can not be started. The position lights of the headlight and tail light are activated. The key can be removed.



- i** The vehicle is delivered with two keys, one of which is spare. Keep the spare key in a place other than the vehicle.
- i** The lights switch off when the ignition switch is positioned on “B”.
- i** The key, besides the ignition switch, activates the tank cap.
- i** When the vehicle is started, the lights turn on automatically.

## STEERING LOCK ENGAGEMENT

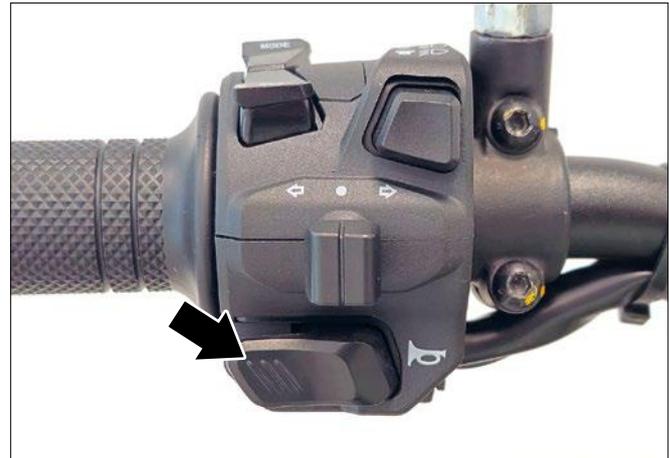
To insert the steering lock, turn the handlebar completely to the left and turn the key to position “A”. Press and turn the key anticlockwise and slowly turn the handlebar until the key is positioned on “B”.



EN

## HORN BUTTON

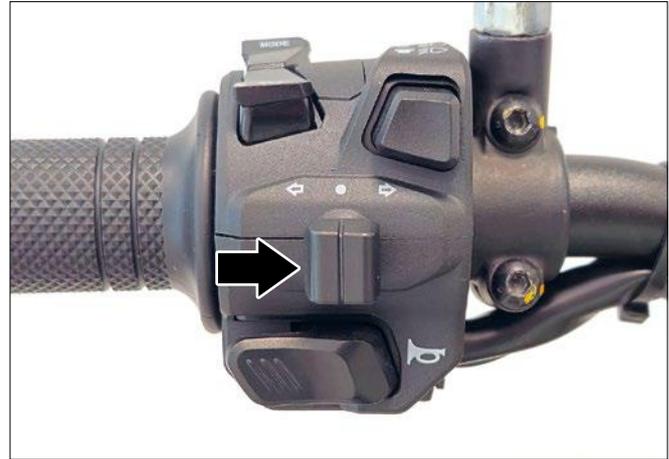
Press to activate the horn.



# DRIVING CONTROLS AND ADJUSTMENTS

## TURN SIGNAL SWITCH

Press the switch to the left or right to indicate the turn.  
Press the switch, bringing it to the center position to deactivate the indicators.



## HIGH BEAM/LOW BEAM LIGHT BUTTON

Press the light button to activate the high beam  
Press the light button again to return to the low beam.



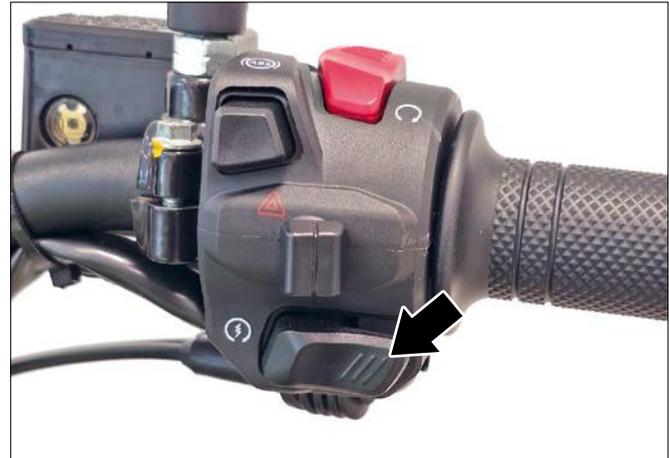
## HIGH BEAM FLASHING BUTTON

Pressing it activates the flashing of the high beam. It is usually used to indicate danger or emergency situations. When the button is released, the high beam flashing is deactivated.



## STARTER BUTTON

When the key is inserted and set to 'ON', with the engine stop button deactivated, the engine will start when the start button is pressed.



# DRIVING CONTROLS AND ADJUSTMENTS

## ENGINE STOP BUTTON

Pressing it stops the engine.  
It has the function of a safety or emergency switch.

 **Do not intervene on the switch when the vehicle is running, this would cause the engine to stop. This could result in loss of control of the vehicle, increasing the risk of accidents and damaging things and/or people.**



## EMERGENCY LIGHT SWITCH

Press the switch to the left to activate the indicator lights on both sides of the motorcycle, creating a simultaneous flashing effect to increase visibility. This helps other riders recognise that there is an emergency situation or danger on the road.



## SUSPENSIONS (SCRAMBLER/DELUXE VERSIONS)

Front wheel suspension

**⚠ In the event that malfunctions are noticed or specialized personnel need to be contacted, go to an authorized Fantic Motor Service Center.**

For maintenance intervals, refer to the section “Scheduled maintenance plan” on page 89 under “Fork”.

### Check

Apply the front brake lever, push repeatedly on the handlebars, making the fork compress. The stroke must be gentle and there should be no traces of oil on the rods. Check that all the front suspension components are tight.



**⚠ In the event that malfunctions are noticed or specialized personnel need to be contacted, go to an authorized Fantic Motor Service Center.**

### Adjustment

This type of suspension does not require any type of adjustment. The basic setting of the suspension is done by Fantic Motor.



# DRIVING CONTROLS AND ADJUSTMENTS

## Rear suspension

For maintenance intervals, please refer to the section “Scheduled maintenance plan” on page 89 under “Rear shock absorber”.

The rear wheel suspension is composed of a damper + linkage unit connected in the upper part to the frame and in the lower part to the swingarm.

## Shock absorber preload adjustment

**i** The basic suspension setting (spring preload) “C” is adjusted by Fantic Motor :  
172 mm (6.77in).

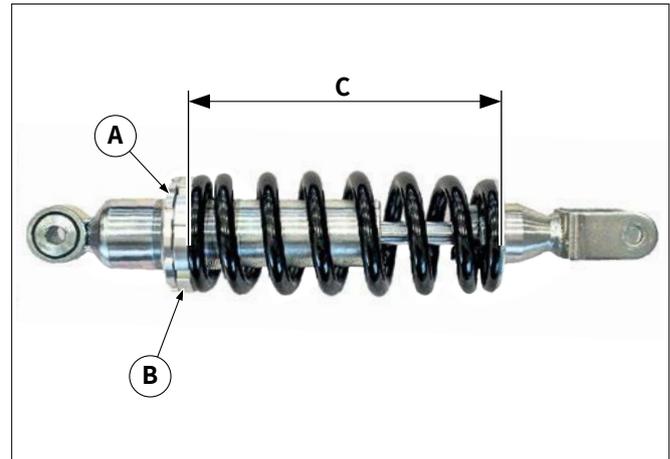
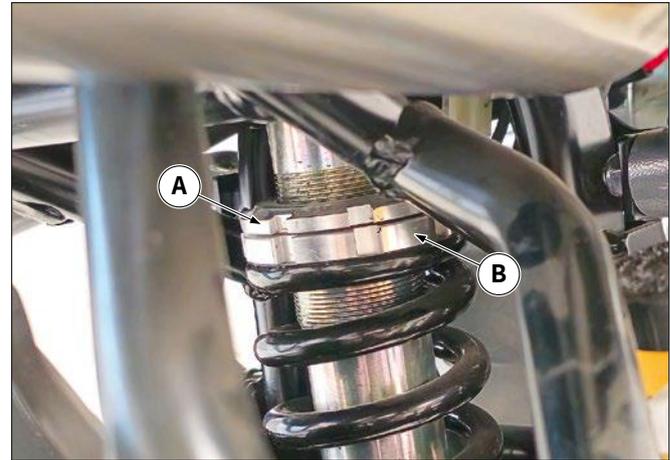
**!** If the user does not have the necessary technical skills and does not feel confident in performing this adjustment, it is recommended to contact a Fantic Motor Authorized Center directly.

**W** To perform this procedure, it is necessary to have :  
No. 2 hook wrenches Ø 00 mm (0.00 in).

For special use requirements relating to the road surface or vehicle load, it is possible to adjust the spring preload, observing the following limits (dimension “C” measurement):

- MINIMUM : 147 mm (5.79 in)
- MAXIMUM : 179 mm (7.05 in)

**!** Make sure the engine is completely cold before adjusting.



- Using the two hook wrenches, loosen the retainer ring nut “A” and turn the ring nut “B” until the desired position is reached;
- Measure the preload dimension of spring “C”, verifying that it is within the specified limits;
- Tighten the retainer ring nut “A” again.



**When adjusting the adjustment ring nuts, take particular care when handling the hook wrenches, in order to avoid the risk of injuring yourself by hitting other parts of the motorcycle.**



**Do not force the rotation of the adjusters beyond the limits set by Fantic Motor, to avoid possible damage.**

# DRIVING CONTROLS AND ADJUSTMENTS

## SUSPENSIONS (RALLY/EXPLORER VERSIONS)

Front suspension

**⚠ For the replacement of the front suspension oil, go to an authorized Fantic Motor Service Center.**

For maintenance intervals, please refer to the section “Scheduled maintenance plan” on page 89 under “Fork”.

**⚠ For good vehicle stability, make sure that the suspensions are adjusted equally between the front and the rear.**

Check

Apply the front brake lever, push repeatedly on the handlebars, making the fork compress. The stroke must be gentle and there should be no traces of oil on the rods. Check that all the front suspension components are tight.

**⚠ In the event that malfunctions are noticed or specialized personnel need to be contacted, go to an authorized Fantic Motor Service Center.**

Adjustment

**⚠ If you do not have the necessary technical skills and if you do not feel confident in performing this adjustment, we recommend that you contact a Fantic Motor Authorized Center directly.**

On these versions it is possible to adjust the front suspensions.



**⚠ The standard adjustment of the front fork is designed to adapt to most driving styles and situations, however it is possible to make custom adjustments.**

The left stem adjustment is divided into two types:

- COMPRESSION;
- REBOUND;

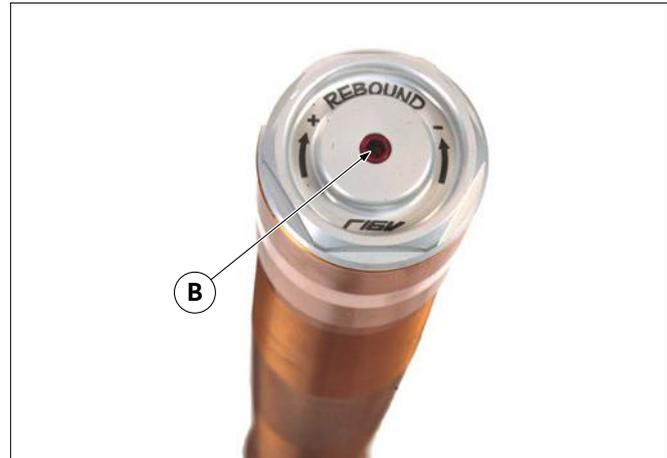
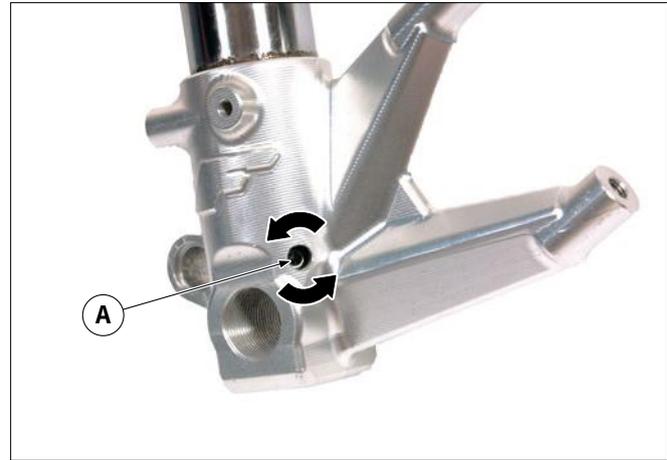
To adjust the compression of the left stem it is necessary, initially, to turn the adjustment screw “A” completely clockwise.

Turn the adjustment screw “A” counter-clockwise, counting 12 clicks.

- ⓘ Total number of clicks “A” = 22 (from fully closed).**
- ⓘ Standard number of clicks “A” = 12 (from fully closed).**

To adjust the left stem rebound it is necessary, initially, to turn the adjustment screw “B” completely clockwise (“+”).  
Turn the adjustment screw “B” counter-clockwise (“-”), counting 10 clicks.

- ⓘ Total number of clicks “B” = 20 (from fully closed).**
- ⓘ Standard number of clicks “B” = 10 (from fully closed).**



# DRIVING CONTROLS AND ADJUSTMENTS

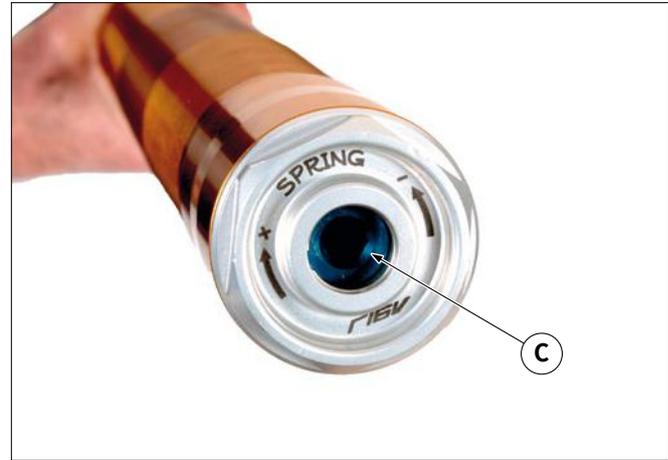
The adjustment of the right stem consists only in the adjustment of the spring preload.

To adjust the right stem spring preload it is necessary, initially, to turn the adjustment screw “C” completely counter-clockwise (“-”).

Turn the adjustment screw “C” clockwise (“+”), counting 5 turns.

**i** Total number of turns “C” = 10 (from fully open).

**i** Standard number of turns “C” = 5 (from fully open).

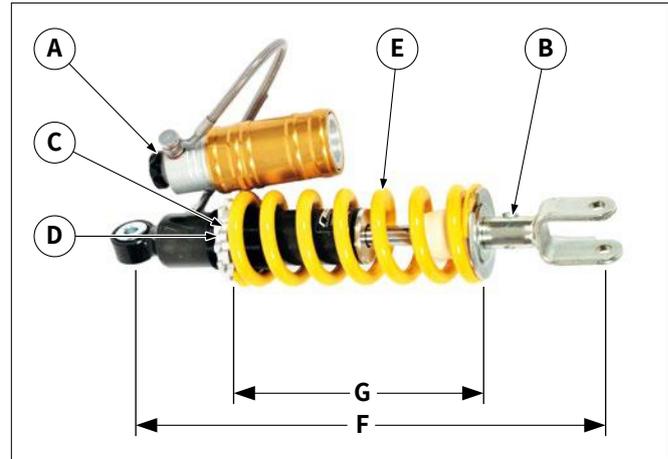


## Rear suspension

The rear shock absorber is equipped with:

- E. Register for compression adjustment;
- F. Register for extension adjustment;
- G. Ring nut register for adjusting the shock absorber spring preload;
- H. Ring nut register for locking the shock absorber spring preload;
- I. Rear shock absorber spring;
- J. Preloaded shock absorber wheelbase  
Standard value = 344 mm (13.54 in);
- K. Spring preload  
Standard value = 176 mm (6.93 in).

**✂** To perform this procedure, it is necessary to have :  
**No. 2 hook wrenches Ø 62 mm (2.44 in).**



## Adjustment

**⚠** The standard adjustment of the rear shock absorber is designed to adapt to most driving styles and situations, however it is possible to make custom adjustments.

**⚠** If the user does not have the necessary technical skills and does not feel confident in performing this adjustment, it is recommended to contact a Fantic Motor Authorized Center directly.

To adjust the rear shock absorber spring extension it is necessary, initially, to fully close the adjustment screw "B" turning it clockwise.

Turn the adjustment screw "B" counter-clockwise, counting 8 clicks.

**i** Total number of clicks "B" = 16 (from fully closed).

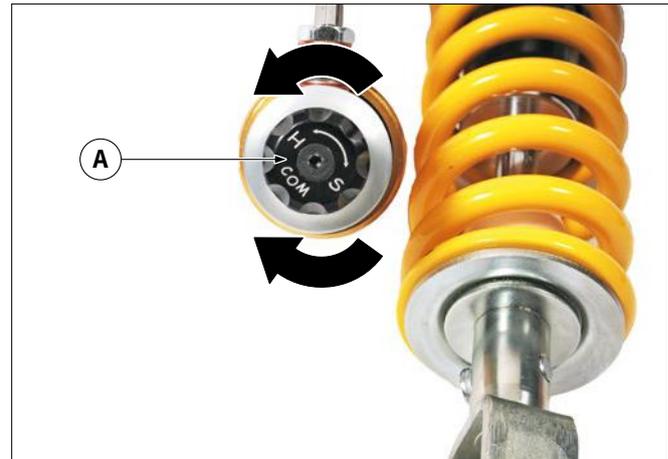
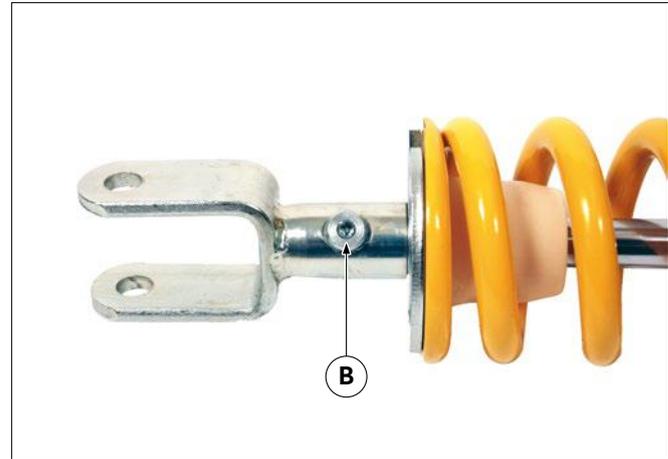
**i** Standard number of clicks "B" = 8 (from fully closed).

To adjust the hydraulic brake during the compression it is necessary, initially, to completely close the adjustment knob "A" turning it clockwise.

Turn the adjustment knob "A" counterclockwise, counting 13 clicks.

**i** Total number of clicks "A" = 24 (from fully closed).

**i** Standard number of clicks "A" = 13 (from fully closed).

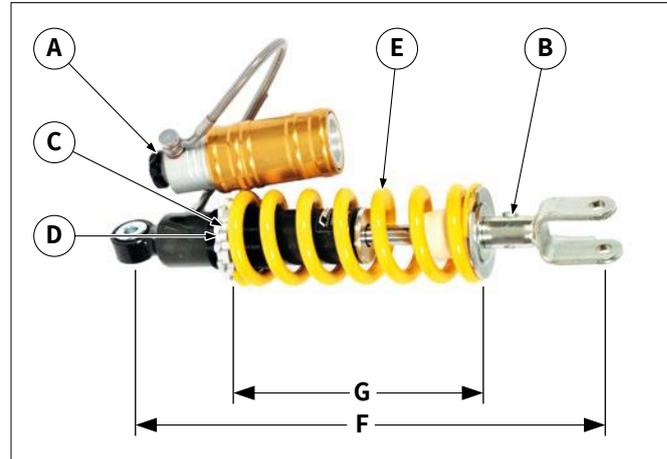


## DRIVING CONTROLS AND ADJUSTMENTS

Adjust the rear shock absorber preload as follows:

- Unscrew the locking ring nut “C”;
- Use the adjustment ring nut “D” to adjust the shock absorber spring preload “E”;
- Screw in to increase the preload, vice versa, unscrew to decrease it;
- After the adjustment, tighten the locking ring nut “C”.

**⚠ Do not force the rotation of the ring nut registers “C” and “D” beyond the stroke end in both directions, to avoid possible damage.**



## CLUTCH LEVER CLEARANCE ADJUSTMENT

### Upper adjustment

Perform the clutch adjustment when the engine stops abnormally or the vehicle tends to move forward with the clutch lever and the gear engaged, or if the clutch “slips”, causing an acceleration delay with respect to the engine rpm.

**⚠ Carry out this adjustment only after checking that the engine is cold.**

**❗ Clutch lever clearance (“D”): 2 mm (0.08 in).**

**⚠ Clutch lever clearance must comply with the value indicated by Fantic Motor in order to avoid malfunctions, slipping and permanent damage to the engine.**

**⚠ A lack of clutch lever clearance can cause permanent engine damage.**

To make the adjustment:

- Remove protection cowl “A”;
- Loosen the ring nut “B”;
- Keep the handlebar straight during adjustment;
- Turn adjuster “C” until the clutch lever “D” free clearance is **2 mm (0,08 in)**;
- Tighten the ring nut “B” keeping the adjuster “C” still;
- Reposition the protective cowl “A”.



## DRIVING CONTROLS AND ADJUSTMENTS

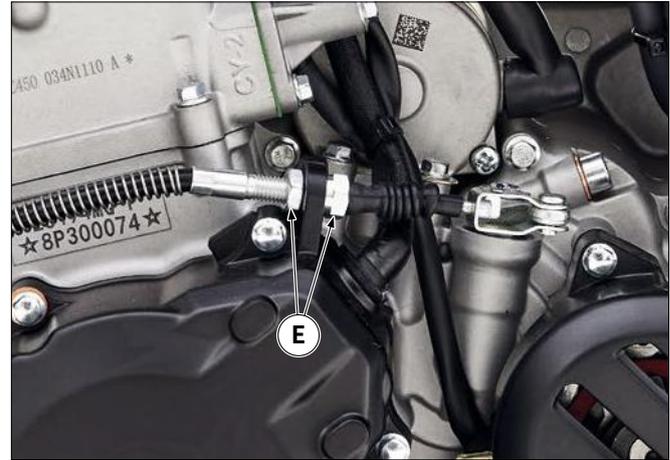
### Lower adjustment

If the adjustment carried out at a higher level is not sufficient to guarantee the clearance required by Fantic Motor, it must be adjusted at a lower level.

**⚠ If the user does not have the necessary technical skills and does not feel confident in performing this adjustment, it is recommended to contact a Fantic Motor Authorized Center directly.**

**⚠ Carry out this adjustment only after checking that the engine is cold.**

**ⓘ Clutch lever clearance (“D”): 2 mm (0.08 in).**



To make the adjustment:

- Act on adjusters “E” of the clutch control lever, located on the engine crankcase;
- Check the clearance of the clutch lever “D” (as shown on the previous page).

**⚠ Check the integrity of the clutch cable in its entire length; the sheath must not show cracks, cuts, crushing or wear, if only one of these defects is present, replace the clutch cable at an authorized Fantic Motor Center.**

**⚠ If the adjustments made and the resulting clearance are not within the prescribed parameters, there is a risk of serious damage to the vehicle’s engine and clutch.**

**ⓘ If the adjustments made are not sufficient to guarantee the required clearance, contact an authorized Fantic Motor Center.**

## LIGHTS AND TURN SIGNALS

 **For disassembling, checking and/or replacing the headlight, tail light and license plate light, contact an authorized Fantic Motor Service Center.**

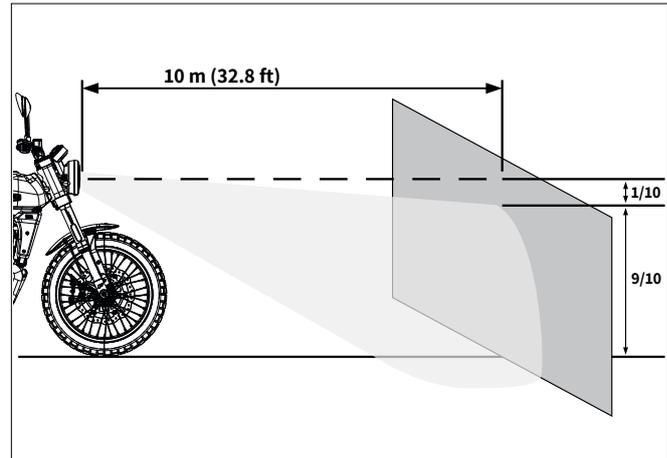
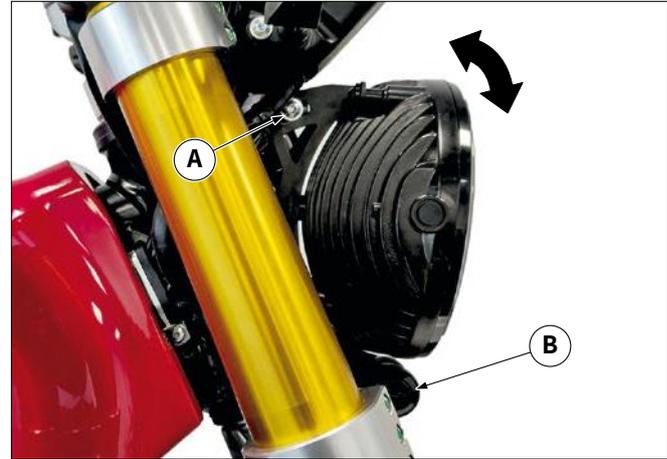
### Headlight adjustment

To check the correct direction of the headlight beam, proceed as follows:

- Place the vehicle 10 m (32.8 ft) away from a vertical wall making sure the ground is level;
- Turn on the low beam;
- Sit on the vehicle;
- Check that the light beam projected onto the wall is slightly below the horizontal straight line of the projector (about 9/10 of the total height).

To carry out vertical adjustment of the light beam, proceed as follows:

- Place the vehicle in running position;
- Loosen screw “A”, only on the right side of the vehicle;
- Manually adjust the rotation of the headlight, rotating it around the “B” axis, until the best beam position is reached;
- Tighten screw “A” to a torque of 2 N·m (0.20 kgf·m, 0.45 lb·ft);
- Check again the correct direction of the light beam.



# DRIVING CONTROLS AND ADJUSTMENTS

## REAR-VIEW MIRRORS

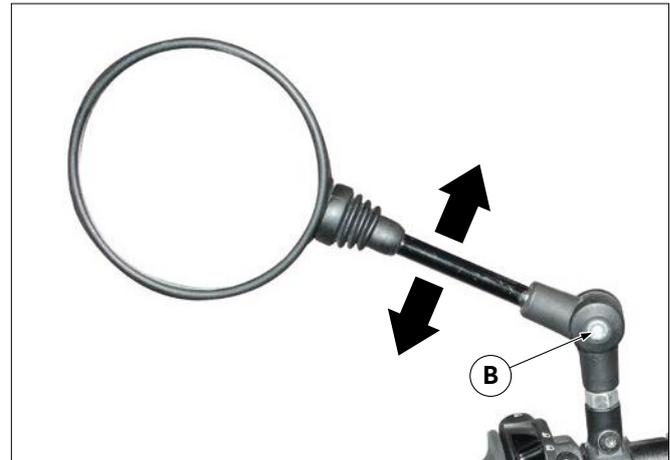
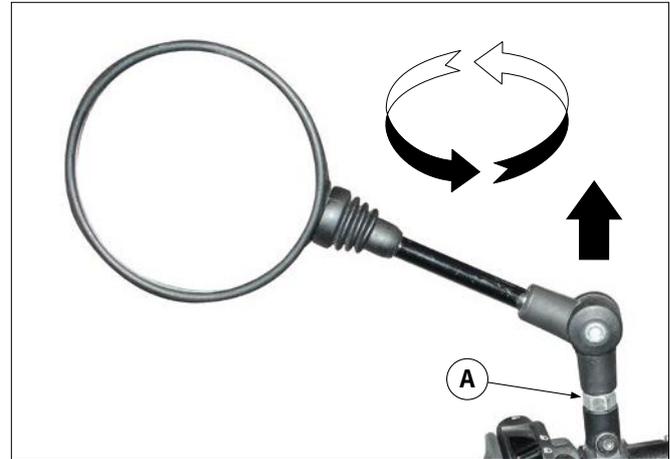
**i** The operations described below apply to both rear-view mirrors.

Place the vehicle on the kickstand and on a flat and stable surface. Loosen the lock nut “A”, turn the left-hand mirror counter-clockwise and remove it, then turn the right-hand mirror clockwise and remove it.

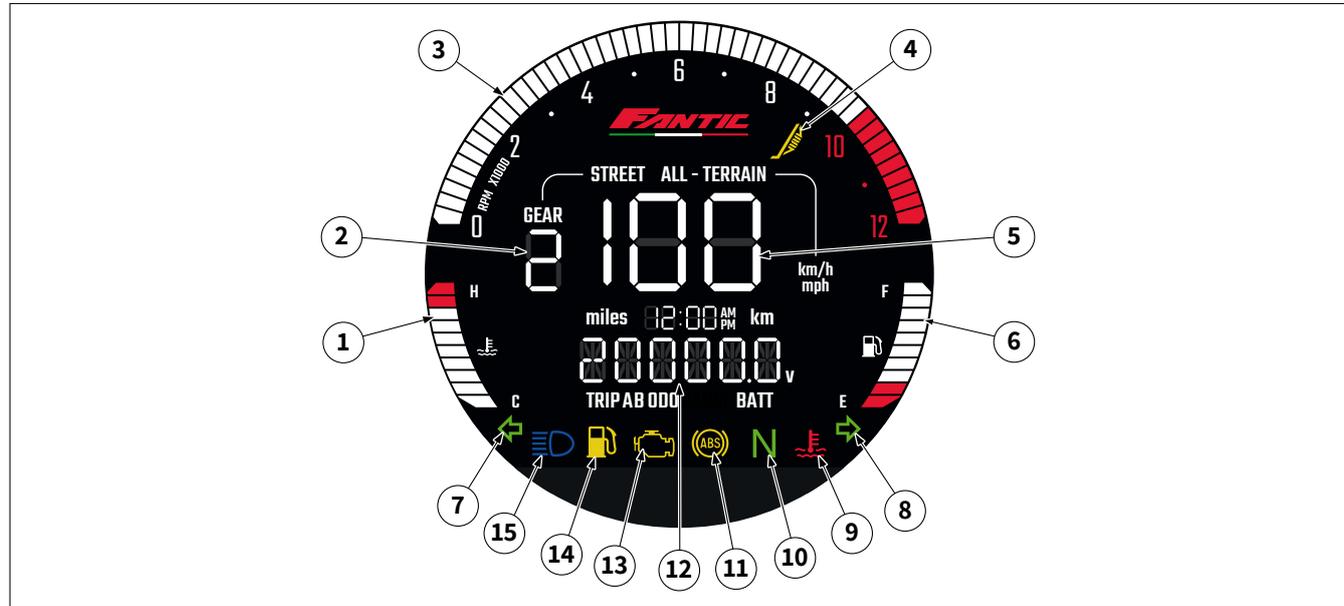
**i** During reassembly, before tightening the nut, check that the mirror support rod is aligned with the handlebar.

### Rear-view mirror adjustment

To adjust the rear-view mirrors, get on the vehicle in the driving position and turn the rear-view mirror according to your needs. It is also possible to adjust the inclination of the rear-view mirror support rod. To carry out this operation, loosen the screw “B” and move the support rod sideways. Adjust and tighten screw “B”.



## DISPLAY UNIT



- |   |                                  |
|---|----------------------------------|
| 1. Coolant temperature                        | 10. Neutral                      |
| 2. Gear indicator                             | 11. ABS status                   |
| 3. Tachometer                                 | 12. Main information window      |
| 4. Side kickstand                             | 13. Malfunction indicator light  |
| 5. Speedometer                                | 14. Fuel reserve indicator light |
| 6. Fuel level                                 | 15. High beam light              |
| 7. Left turn signal or hazard warning signal  |                                  |
| 8. Right turn signal or hazard warning signal |                                  |
| 9. Coolant temperature too high               |                                  |

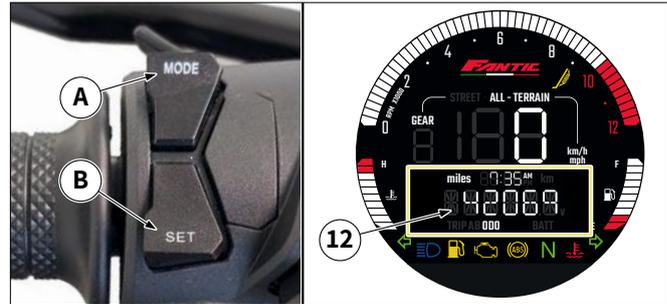
# DASHBOARD

After turning the key to "ON", all indicator lights are shown on the display.



## BASIC INFORMATION WINDOW

When the display is switched on, basic information is shown in window "12". It is possible to navigate through the menu by briefly pressing the "MODE" button "A".



A long press on the "SET" button "B" resets "Trip A" and "Trip B".



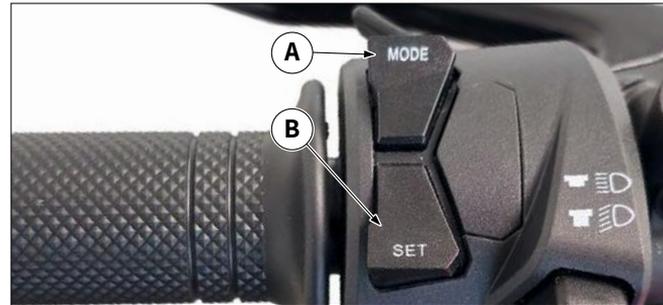
## LOW FUEL LEVEL WARNING

When the fuel level is below the "low level" threshold, the corresponding warning light comes on (amber colour), until the fuel level returns above the "low level" threshold.

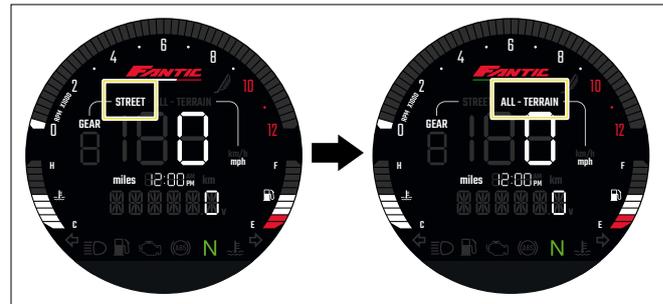


## RIDING MODE SELECTION

The user can change the riding mode only when the motorcycle is stationary, by long-pressing the "MODE" button "A" and the "SET" button "B" at the same time. The default riding mode is "ALL-TERRAIN".



By pressing the buttons, the current driving mode starts flashing. At this point, briefly pressing the "MODE" button "A" switches between the driving modes. The user must press the "SET" button "B" to select the desired driving mode, or if after 5 seconds it is not pressed, the driving mode set will be the last flashing one.



# DASHBOARD

When the motorcycle is switched off and on again with the key, the display must reset to the default riding mode.

The riding mode affects the ability to disable the ABS.

NAME	ICON	ABS
STREET		ON
ALL-TERRAIN		ON or OFF (if required)

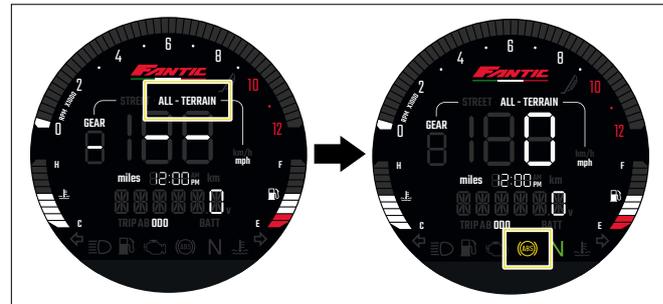
## ABS DISABLE LOGIC

Disabling the ABS is only permitted under the following circumstances:

- The selected riding mode is "ALL-TERRAIN" which will allow the ABS to be enabled or disabled.
- The motorcycle must be stationary.



After prolonged pressure on the "ABS" button "C" (greater than 3 seconds), the ABS status may change to "OFF". The ABS warning light will illuminate depending on the ABS status.



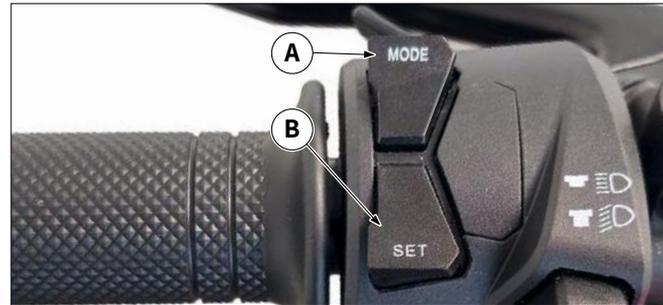
At any time while the ABS is in the "OFF" status, briefly pressing the "ABS" button "C" will reactivate the "ON" status. Reactivation turns the ABS warning light off.

**⚠ At each key OFF - key ON cycle, the ABS returns to the "ON" status.**



## ACCESSING THE SETTINGS MENU

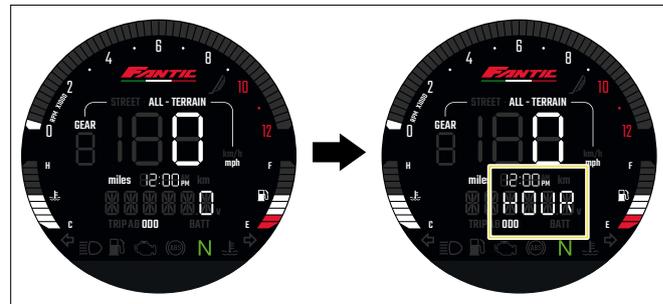
Only if the motorcycle is stationary and the "ODO" section is selected in the main information window, a long press on the "SET" button "B" will display the settings menu.



The user can navigate through the settings menu using the "SET" button "B" to confirm an operation and the "MODE" button "A" to change a setting.

It is possible to return to the main information window:

- By a long press on the "SET" button "B";
- The motorcycle speed is greater than 5 km/h;
- No operation for more than 8 seconds.



# DASHBOARD

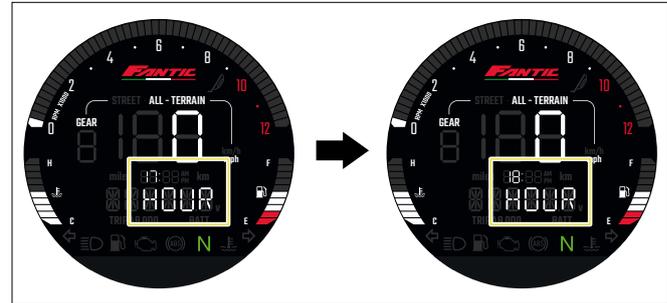
## CLOCK AND TIME SETTINGS

In this menu screen the user can set:

- Time (Hours/minutes).
- Time format (12/24H).

By holding down the "MODE" button "A", it is possible to automatically adjust the hours until the button is released.

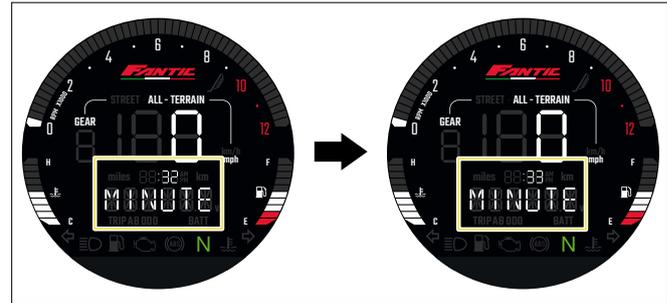
**i** It is also possible to adjust the hours by briefly pressing the "MODE" button "A".



By briefly pressing the "SET" button "B", the operation is confirmed.

By holding down the "MODE" button "A", it is possible to automatically adjust the minutes until the button is released.

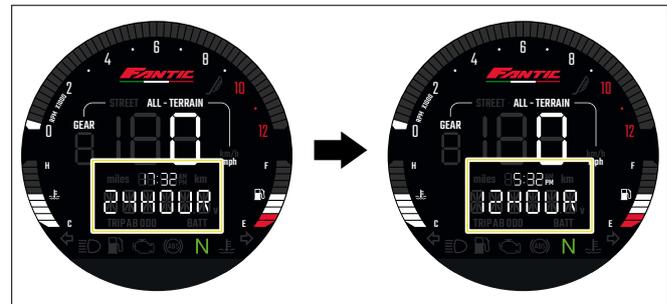
**i** It is also possible to adjust the minutes by briefly pressing the "MODE" button "A".



By briefly pressing the "SET" button "B", the operation is confirmed.

By briefly pressing the "MODE" button "A", the time format (12/24H) can be changed.

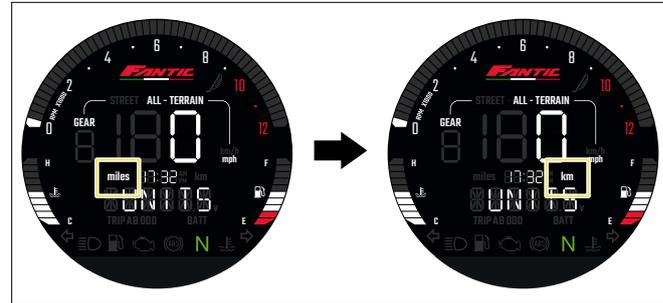
By briefly pressing the "SET" button "B", the operation is confirmed.



## UNIT SETTINGS

In this menu screen the user can set:  
 - Unit (miles/km).

With each short press of the "MODE" button "A", the units (miles/km) can be changed.  
 By briefly pressing the "SET" button "B", the operation is confirmed.



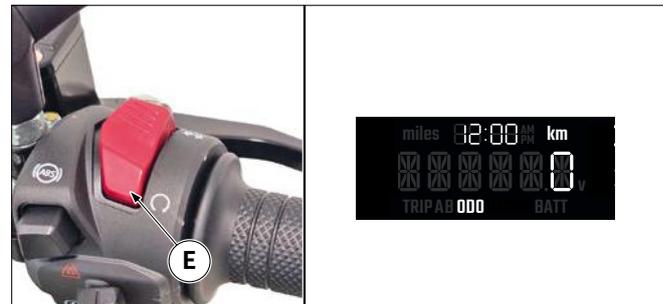
## ENGINE STOP / OPERATION

When the vehicle is stopped and the engine stop button "D" is pressed, after five seconds, "RUNOFF" is displayed in the main information window and the "ODO" and "Km" icons go off.

**i** When the vehicle is in "RUNOFF", no settings can be made on the display.



When the vehicle is stationary and engine start button "E" is pressed, in the main information window, "RUNOFF" is switched off and the "ODO" and "Km" icons light up.



# DASHBOARD

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## CONNECTIVITY SYSTEM

Through the "Connectivity" system, you have the possibility of connecting your smartphone to your Fantic vehicle, via Bluetooth® .📶 To do so, it is necessary to download the **Fantic Garage** app from the **App Store (IOS® system)** or the **Google Play Store (Android® system)**.

The main functions supported by the application are:

- Virtual garage containing customer-owned Fantic vehicles;
- Specific manuals;
- Customer documentation;
- Integrated navigation system with real-time vehicle travel data;
- Diary of your trips acquired through trip recording function.



## IMPORTANCE OF MAINTENANCE

Carrying out proper vehicle maintenance is absolutely essential for safety and investment protection, to achieve the best performance, to avoid breakdowns and to reduce air pollution. The owner is responsible for maintenance. Before starting to ride, check the vehicle and carry out the checks specified in this chapter.

 **Improper vehicle maintenance or failure to fix a problem before riding can lead to an accident resulting in serious injury or death. Always follow the inspection and maintenance advice and schedules given in this manual.**

### Safety rules for routine maintenance

Always read the instructions on routine maintenance before starting any type of inspection and/or work on the vehicle.

 **If the user does not have the necessary technical skills and does not feel confident in carrying out the procedures described in this chapter, we recommend to contact a Fantic Motor Authorised Centre directly.**

When carrying out maintenance work, the following guidelines must be observed:

- Switch off the engine and make sure the key is removed.
- Park the vehicle on a firm, level surface, supporting it with the side kickstand or a safety stand for maintenance.
- To avoid burns, allow the engine, silencer, brakes and other components subjected to high temperatures to cool down before servicing.

 **Failure to follow these procedures can result in serious injury to persons and to the vehicle.**

### Replacing components

 **Refer only to an authorised Fantic Motor Centre, so that only original Fantic Motor components are used for a guarantee of reliability and safety.**

 **The use of NON-original parts may result in damage to the vehicle and cause injury to the rider and passenger.**

 **ALWAYS contact an Authorized Fantic Motor Center if malfunctions or anomalies are found.**

# MAIN MAINTENANCE OPERATIONS

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## OPERATION AND MAINTENANCE

Customers are responsible for carrying out the following checks before riding the vehicle for their own safety, ensuring that no problems or malfunctions occur. They are also obliged to take care that any problems and malfunctions of the vehicle are resolved by relying on an authorised Fantic Centre.

-  **If inspections are not carried out before starting, this can cause damage to the vehicle and result in serious injury to the rider and passenger.**
-  **If the user is not interested in performing certain routine maintenance operations, we recommend going to an Authorized Fantic Motor Service Center.**
-  **If it is necessary to have technical advice or request service, contact the Authorized Fantic Motor Center.**

## Verification operations to be carried out by the customer

**i** The proposed mileage intervals are purely indicative. In the case of heavy and/or special use, carry out visual and functional checks on the vehicle before further use.

Component	Intervention		Before each use	Every 500 km	Every 1500 km	Before a long stop	After a long stop
Lights, turn signals, brake lights and horn	- Check operation.	-	✓				
Rear brake pedal	- Check the clearance.	page 75	✓				
Clutch lever	- Check the clearance.	page 47	✓				
Front brake lever	- Check the clearance and adjust if necessary.	page 75	✓				
Tyres	- Check the air pressure.	page 64		✓		✓	✓
	- Check the tread depth and damage.	page 64			✓		
Battery	- Disconnect and re-establish the connection.	page 79				✓	✓
Complete vehicle	- Cleaning.	page 84		✓		✓	
Transmission chain	- Check the wear and tear condition. - Check the clearance and elongation.	page 72		✓			
	- Lubrication and cleaning.	page 73		✓			
Engine oil	- Level check.	page 62		✓			
Coolant	- Level check.	page 67		✓			
Brake fluid	- Level check.	page 69		✓			
Brake pads	- Check the wear level.	page 70			✓		

# MAIN MAINTENANCE OPERATIONS

## ENGINE OIL

Engine oil consumption and quality deteriorate with riding conditions and over time.

Check the oil level regularly and, if necessary, top up with the recommended engine oil. Dirty or exhausted oil must be changed as soon as possible.

**⚠ Check the engine oil level every 500 km (300 mi).**

### Engine oil check

Periodically check the engine oil level.

**ⓘ The engine oil check must be carried out with hot engine.**

**⚠ Do not rest the vehicle on the side kickstand when checking the engine oil.**

Position and keep the vehicle in a vertical position and with both wheels resting on the ground.

Start the engine and warm it up for at least two minutes at idling speed and then turn it off: wait two minutes before checking the oil level.

Check that the oil level remains between the notches in the porthole.

H = MAX

L = MIN

**ⓘ The oil level must not go beyond the “H” marking and must never be below the “L” marking, in order not to damage the engine.**

**ⓘ Check the oil level from the inspection window with the vehicle in perfectly vertical position.**



## Engine oil topping up

If after checking the engine oil level, the level is not in the right parameters, topping up is required.

Therefore remove the oil level plug and top up.

**i** If a funnel or something else is used, make sure that it is perfectly clean.

**!** Overfilling or driving with too little oil can cause engine damage. Do not mix oils of different grades and brands. This can impair lubrication and proper clutch operation. Use the products recommended in the section “Recommended products table” on page 86.



## Engine oil replacement

**!** The operations for filter and engine oil replacement are complicated for an inexperienced operator. It is advisable to contact an Authorized Fantic Motor Center if you need to remove and replace the filter and the engine oil.

### **i** Amount of engine oil

- Total amount: 1.8 l (0.4 UK gal, 0.48 US gal)
- Without replacement of the oil filter element: 1.15 l (0.25 UK gal, 0.3 US gal)
- With replacement of the oil filter element: 1.2 l (0.26 UK gal, 0.32 US gal)

# MAIN MAINTENANCE OPERATIONS

## TIRES

For tyre pressure values, brand, type and dimensions refer to the chapter “Technical data” on page 94.

**⚠** Check the tyre pressure at room temperature, because if the tyres are warm, the measurement will not be correct.

**i** The tyre ambient temperature means that the vehicle has been stationary for at least three hours or has travelled a distance of less than 2 km (1 mi).

Check the fuel consumption and tyre pressure (at room temperature) before and after each long trip.

**⚠** If the inflation pressure is too high, the irregularities of the ground are not properly cushioned and are then transmitted to the handlebar, compromising road holding in turns. If the inflation pressure is insufficient, the sidewalls of the tyres work harder and there is a risk of tyre slippage on the rim or detachment, with consequent loss of control of the vehicle: in the event of sudden braking, the tyres could come off from the rims. In turns, the vehicle may skid.

**i** It is advisable, if possible, to always use the same pressure gauge to check the pressure so as not to measure incorrect values caused by the variability between different gauges.

SCRAMBLER  
DELUXE  
EXPLORER



RALLY



# MAIN MAINTENANCE OPERATIONS

EN

The sticker indicates the inflation pressure of the front and rear tires.

- ❗ It can be positioned on the chain guard, left side of the vehicle.



- ⚠ Check the surface condition and wear. A poor tire condition compromises the grip and manoeuvrability of the vehicle. Replace the tire if worn or punctured. After repairing or replacing a tire, carry out the wheel balancing. Use only and exclusively tires of the dimensions indicated by the manufacturer. The use of tires other than those specified may compromise the handling and stability of the vehicle with the risk of accidents, damage to property and/or persons and the risk of serious injury and even death.
- ⚠ Check that the pressure valves are always fitted with protective caps and that they are properly closed to avoid sudden tire deflation.
- ⚠ If the tires are new, they can be covered with a slippery film. Drive carefully for the first few kilometres/miles. Do not grease the tires with unsuitable liquid. If the tires are old, even if not completely worn out, they can harden and do not guarantee road holding, therefore replace them.

# MAIN MAINTENANCE OPERATIONS

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Replacement, repair and maintenance are very important and must be performed with appropriate tools and by an operator with the necessary experience.

For this reason, it is advisable to contact an authorized Fantic Motor Center or a tire specialist for the execution of certain operations.

 **The tires supplied are of the tubeless type and are mounted on spoked rims together with the inner tube. Avoid tubeless tires without the inner tubes.**

## Tread depth (Scrambler/Deluxe)

The maximum tread values for the Scrambler/Deluxe versions are:

- Front tire: 5.60 mm (0.22 in);
- Rear tire: 7.60 mm (0.29 in).

## Tread depth (Rally/Explorer)

The maximum tread values for the Rally/Explorer versions are:

- Front tire: 9.50 mm (0.37 in);
- Rear tire: 12.00 mm (0.47 in).

 **The tread depths should never be less than 1 mm (0.03 in) or less than required by the legislation in force in the country where the vehicle is used.**

## COOLANT

- ⚠ Do not use the vehicle if the coolant level is below the minimum level.
- ⚠ If the (red) coolant temperature indicator light comes on, stop immediately and do not use the vehicle.
- ⓘ The coolant over-temperature indicator light comes on when the coolant temperature reaches: 115 °C (239 °F).
- ⚠ To replace, check and top up the coolant, contact an authorized Fantic Motor Service Center.



### Coolant level check

- ⚠ Check the coolant level with the engine cold, off and with the vehicle resting on the side kickstand on the left.

Check that the coolant is between the levels shown in the figure.

- ⚠ If the coolant level steadily decreases or the tank remains empty, it is probable that there are major leaks in the system: contact an authorised Fantic Motor Centre immediately.



# MAIN MAINTENANCE OPERATIONS

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## Coolant refilling

If the vehicle needs topping up, proceed as follows:

- Remove the cap from the coolant tank;



**Recommended product: Antifreeze liquid based on ethylene glycol with organic additives.**



**If there is no antifreeze fluid available, add distilled water and go to an authorised Fantic Motor Centre as soon as possible to purchase new coolant.**



**If neither antifreeze nor distilled water is available, add distilled water and go immediately to an authorised Fantic Motor Centre to have the system checked and the coolant replaced.**

- Add the available liquid until the maximum level is reached;
- Press the rubber tubes several times to facilitate the release of any air bubbles.;
- Close the cap;
- Start the vehicle and keep it running for at least one minute before rechecking the level.



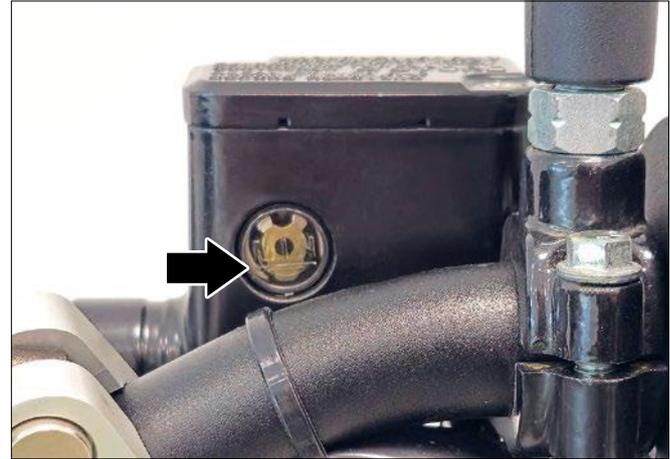
**Repeat the procedure until the coolant level has settled.**

## BRAKING SYSTEM

### Check the front brake fluid level

To check the front brake fluid level, position the vehicle on the kickstand and turn the handlebar, so that the liquid contained in the brake oil reservoir is parallel to the cap. Check that the liquid is over the “MIN” mark.

**⚠ If the liquid level does not reach at least the “MIN” mark, check the brake disc and pads wear. If the brake disc and the brake pads are not to be replaced, contact an authorized Fantic Motor Service Center.**



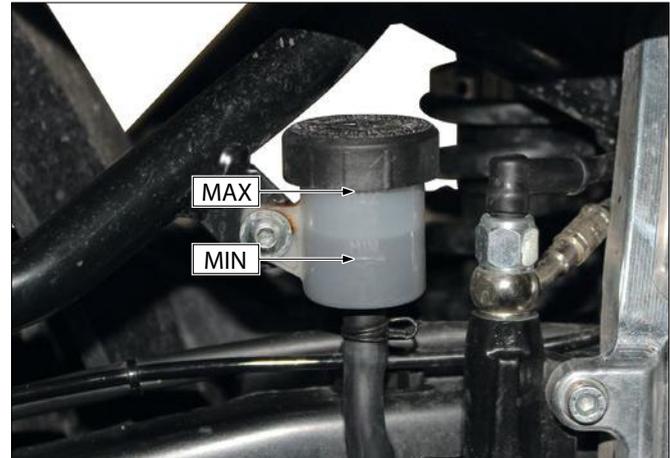
### Check the rear brake fluid level

To check the rear brake fluid, keep the vehicle in vertical position, so that the liquid contained in the brake oil reservoir is parallel to the cap. Check that the liquid is between the “MIN” and “MAX” marks.

**⚠ If the liquid level does not reach at least the “MIN” mark, check the brake disc and pads wear. If the brake disc and the brake pads are not to be replaced, contact an authorized Fantic Motor Service Center.**

### Refilling the brake system

**⚠ To top up the brake fluid, do to an authorized Fantic Motor Service Centre.**



# MAIN MAINTENANCE OPERATIONS

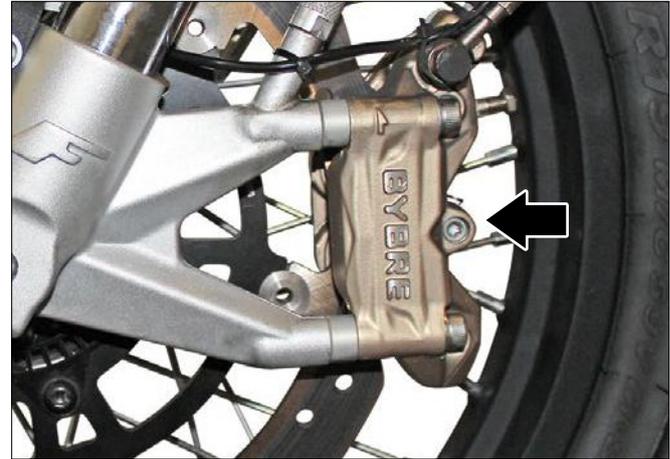
## Pads wear check

**i** It is recommended to check the consumption of the pads at least every 1500 km (900 mi).

**!** If there is a reduction in the vehicle's braking capacity, carry out an inspection of the brake pads and brake discs.

The pads have a groove that must always be visible. The disc brake pads wear depends on the use, the type of driving and the type of road.

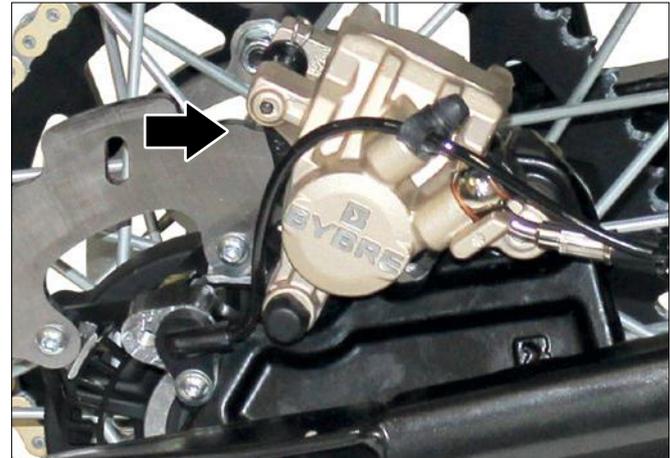
To quickly check the pads wear, position the vehicle on the kickstand.



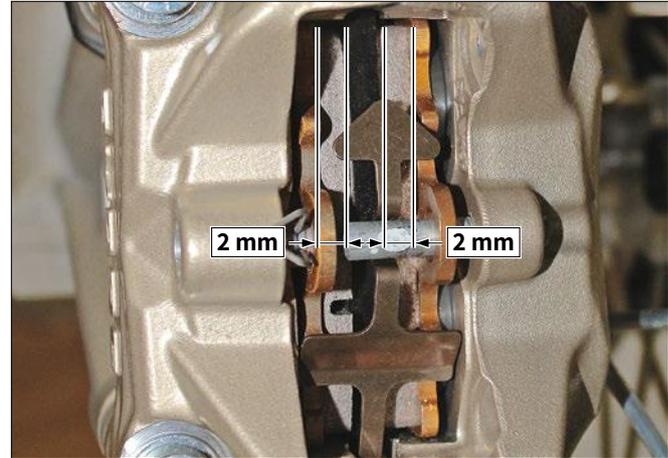
Perform a visual check between disc and pads, looking from the bottom upwards in the direction of the calliper wheel pin for the front brake callipers and from the top rear for the rear brake calliper.

**!** Wear that goes beyond the limit of the friction material leads to contact of the pad metal shoe with the disk with consequent metallic noise and sparks flying from the calliper; braking efficiency, safety and completeness of the disk would be affected.

If the groove has disappeared, replace the pair of pads.



- ⚠** Check the wear condition of the front brake pads from the back of the calliper, where it is possible to see the ends of the pads which must have at least a 2 mm (0.08 in) layer of lining, if the layer is lower, replace them immediately.
- ⚠** Check the wear condition of the rear brake pads from the upper part of the calliper, where it is possible to see the ends of the pads which must have at least a 2 mm (0.08 in) layer of lining. If the layer is lower, proceed immediately to replace them.
- i** Carry out the check in accordance with the times indicated in the table “Verification operations to be carried out by the customer” on page 61.



# MAIN MAINTENANCE OPERATIONS

## CHAIN

Check the chain, pinion and crown wear

Check the following:

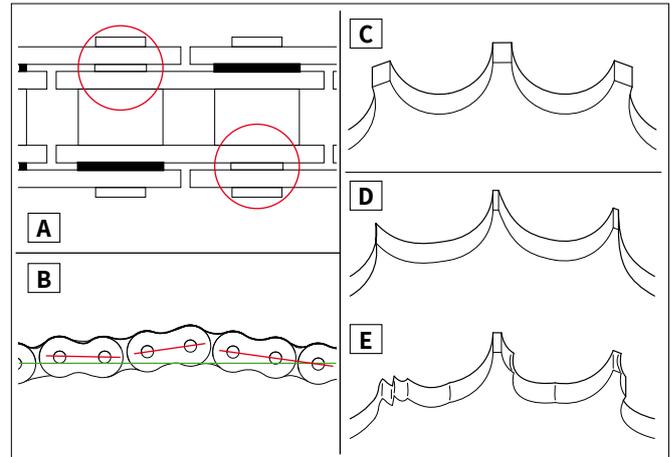
- No worn rollers;
- Chain with no missing sealing rings (see example “A”).

Perform the following checks:

1. Make sure the wheel is not loose and the pin, nut or adjusters are properly secured;
2. Check the wear condition of the chain, checking that the chain links are not:
  - dry;
  - rusty;
  - crushed;
  - seized (see example “B”);
3. Check the wear condition of the chain slider pad;
4. Check the wear condition of the sprocket “4” and chainring “5” teeth:
  - teeth in good condition (see example “C”);
  - teeth excessively worn (see example “D”);
  - damaged teeth (see example “E”).

**⚠ If one of these components is damaged or excessively worn, contact your authorised Fantic Motor workshop to request replacement of the entire chain assembly (sprocket, chain and chainring).**

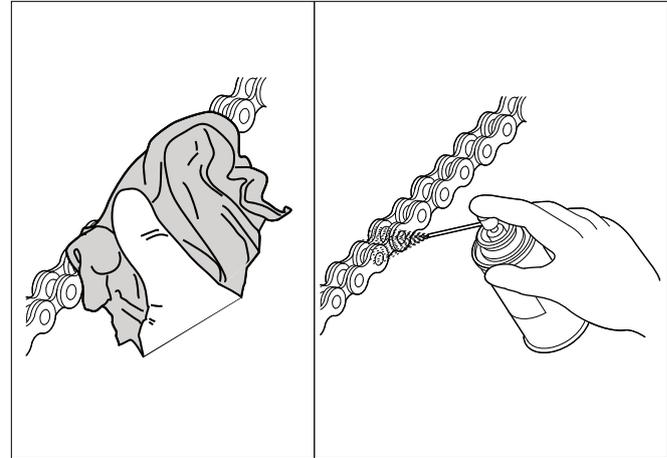
**⚠ Improper maintenance can cause premature chain wear and/or damage the pinion and/or crown.**



## Cleaning and lubrication

**⚠ The chain must always be kept well cleaned and lubricated especially after riding off-road sections with mud or sand.**

If the chain should become dirty, clean it using a dry cloth and neutral detergent. If necessary, use a soft brush. After cleaning, dry and lubricate with the recommended lubricant . If this is not possible, contact an Authorized Fantic Motor Centre.



- ⚠ Do not clean the chain with water jets, steam jets, high-pressure jets, wire brushes and highly flammable solvents.**
- i For recommended chain cleaning and lubrication products, refer to “Recommended products table” on page 86.**
- ⚠ If the right products are not available and if the user does not feel confident in cleaning and lubricating the chain, it is advisable to contact a Fantic Motor Authorised Centre directly.**

# MAIN MAINTENANCE OPERATIONS

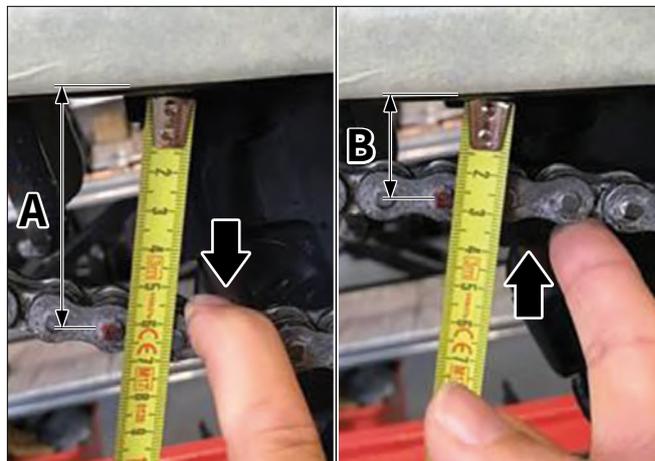
## Clearance check

- Shift the transmission to neutral and turn off the engine.
- Place the vehicle on the kickstand and on a solid and flat surface.
- Pressing with a finger an intermediate point between the pinion and the rim, press the lower branch of the chain first downwards and then towards the other, measuring the distance from the edge of the swingarm;
- Check that the vertical oscillation, obtained as the difference between the highest value “A” and the lowest value “B”, is between **35 mm (1.38 in)** and **38 mm (1.50 in)**.
- Check the vertical movement of the chain also in other positions of the rear wheel: the clearance must never exceed the stated limits.

**⚠ Excessive loosening of the chain could make it come off from the pinion, causing accidents and serious damage to the vehicle. Check the clearance regularly. For chain replacement, contact an authorized Fantic Motor Center only.**

**⚠ If there is a higher clearance in certain positions, it means that there are crushed or seized meshes, in this case contact an Authorized Fantic Motor Center. To prevent the risk of seizure, it is recommended to lubricate the chain correctly.**

The sticker on the chain guard (left side of the vehicle) shows how to position the vehicle to measure the chain tension and the minimum and maximum clearance tolerances.



**FANTIC**

Trovare la posizione in cui la catena è più tesa.  
Misurare la tensione della catena nel punto medio del ramo inferiore, con la motocicletta sul cavalletto laterale e senza carico sul veicolo.  
L'oscillazione verticale deve essere = 35-38 mm

Find the position where the chain is most taut.  
Measure chain tension in the middle point of the lower branch, with the motorcycle on the side stand and without any load on the vehicle.  
Vertical oscillation must be = 35-38 mm

AXLE	SIZE	PRESS. (kPa)	AXLE	SIZE	PRESS. (kPa)
Front	110/80-19	170	Rear	130/80-17	190
	130/80-19	210		130/80-19	230

35+38 mm  $\Delta$

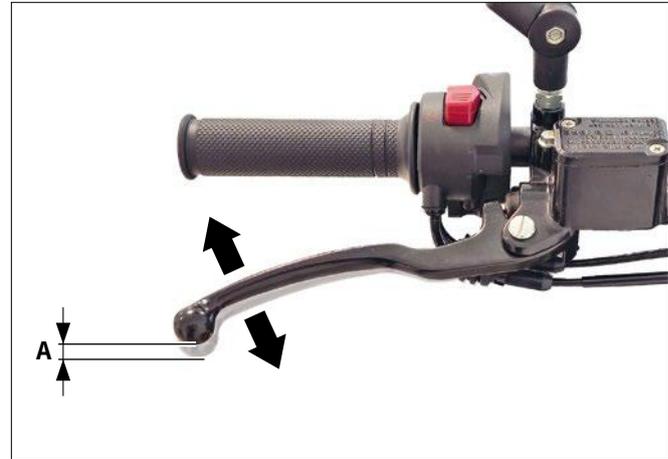
## FRONT BRAKE LEVER CLEARANCE CHECK

Check the clearance of the front brake lever.

**⚠ The free clearance “A” on the front brake lever for operating the brake master cylinder must be : 2 mm (0.08 in).**

Check that the rear brake light works properly when the brake lever is pressed.

**⚠ If the lever clearance is excessive, contact an authorised Fantic Motor workshop.**



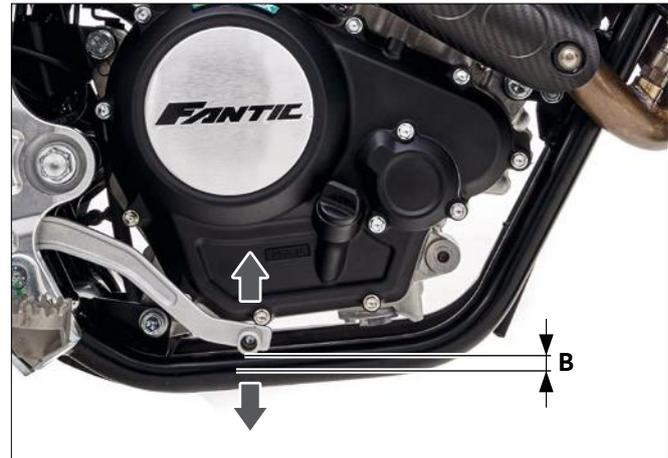
## REAR BRAKE PEDAL CLEARANCE CHECK

Check the clearance of the rear brake pedal.

**⚠ The free clearance “B” on the rear brake pedal for operating the brake master cylinder must be : 2 mm (0.08 in).**

Check that the rear brake light works properly when the brake pedal is pressed.

**⚠ If the pedal clearance is not correct, contact an authorised Fantic Motor workshop.**



# MAIN MAINTENANCE OPERATIONS

## TROUBLESHOOTING AND ERRORS

The following table provides a full set of steps to verify the type of fault preventing proper operation of the vehicle or a set of information related to the type of error shown on the display.

 **The information in this section may not cover all possible faults and errors.**

 **If the fault or malfunction detected is not among those listed, contact an authorised Fantic Motor Centre as soon as possible.**

 **If the procedure indicated does not solve the problem, contact an authorised Fantic Motor Centre as soon as possible.**

 **If a fuse or relay is to be replaced, inform a Fantic Motor Authorised Centre: any solution may not be definitive and may be related to a more extensive problem with the vehicle.**

Symptom	Possible cause	Procedure to be performed	
The engine does not start.	“RUN/OFF” button in “OFF” position.	Check that the button position is correct.	page 76
	The side kickstand is not raised.	Check the side kickstand position.	page 24
	The front and/or rear brake is not applied correctly.	Check the correct procedure for starting the vehicle safely.	page 17
	The clutch lever is not pressed correctly.		
The engine does not start and an ignition attempt occurs.	The battery is partially or fully discharged, or needs to be replaced.	Recharge and/or replace the battery and contact an Authorized Fantic Motor Center.	page 79
The engine does not start and not even an attempt to start it occurs.	The side kickstand is up, but the relevant sensor may not be functioning properly.	Do not use the vehicle, park it properly and contact an Authorized Fantic Motor Center.	
	The starter motor is damaged and/or inoperative.		
The engine behaviour is not smooth. Presence of visible smoke coming out of the exhaust. Smell of pungent odours from the engine.	Poor and/or absent engine oil.	Check the engine oil level. Do not use the vehicle, park it properly and contact an Authorized Fantic Motor Center.	page 62

# MAIN MAINTENANCE OPERATIONS

EN

Symptom	Possible cause	Procedure to be performed	
Engine indicator light on.	Engine and/or emission control system fault.	Do not use the vehicle, park it properly and contact an Authorized Fantic Motor Center.	
Increased braking distance. The braking pattern is smooth.	Worn pads and discs.	Check the wear condition of the brake pads and brake discs. Do not use the vehicle, park it properly and contact an Authorized Fantic Motor Center.	page 69
Significant increase in braking distance. The brake controls do not present a consistent resistance to pressure.	Poor and/or absent brake fluid.	Check the brake fluid level. Do not use the vehicle, park it properly and contact an Authorized Fantic Motor Center.	page 69
Increased braking distance. The braking pattern is not smooth. ABS error indicator light not on.	ABS control unit malfunction.	Do not use the vehicle, park it properly and contact an Authorized Fantic Motor Center.	
ABS error indicator light on.	Blown fuse(s).	Check and replace fuse no. 1. Check and replace fuse no. 5.	page 81
	ABS control unit malfunction.	Do not use the vehicle, park it properly and contact an Authorized Fantic Motor Center.	
Overheated engine.	Poor and/or absent coolant.	Verificare il livello del liquido refrigerante.	page 67
Temperature indicator light on. The cooling fan does not work.	Blown fuse.	Check the coolant level.	page 81
Non-functioning headlight.	Blown fuse.	Check and replace fuse no. 3.	page 81
Turn signals not working.	Blown fuse.	Check and replace fuse no. 4.	page 81
Horn not working.	Blown fuse.	Check and replace fuse no. 4.	page 81
Position lights not working.	Blown fuse.	Check and replace fuse no. 4.	page 81
Brake lights not working.	Blown fuse.	Check and replace fuse no. 4.	page 81

# MAIN MAINTENANCE OPERATIONS

## SEAT OPENING

To open the seat, unscrew and remove knob “A” located under the rear mudguard.



Lift up and remove the saddle “B”.

 **Before reassembling the saddle make sure you have not forgotten the key in the area under the saddle.**

 **Before riding, check that the saddle has been correctly fixed.**



## BATTERY

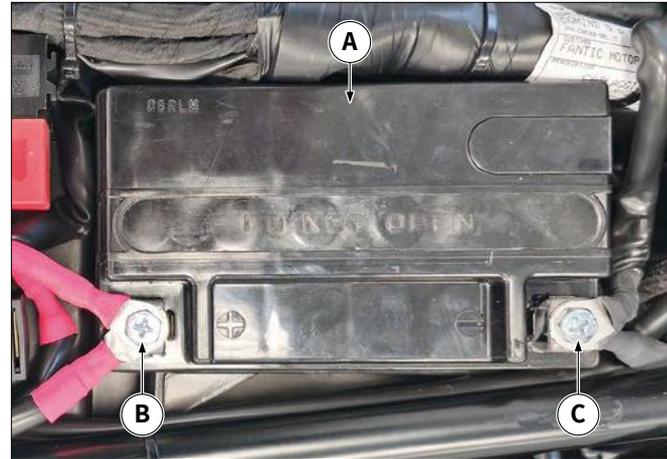
The battery “A” is located in the compartment under the seat.

The type of battery installed does not require maintenance. It is therefore not necessary to check the electrolyte level or top up with distilled water. Keep the battery terminals clean if they become dirty or corroded.

**⚠ If for any reason there is an electrolyte (sulphuric acid) leak from the battery, the maximum precaution is recommended.**

**⚠ Keep sparks or open flames away from the battery.**

**⚠ Keep exhausted batteries out of reach of children and arrange for regular disposal**



### Battery removal

Make sure the vehicle is turned off and the key removed from the key block.

1. Remove the seat (page 78);
2. Disconnect the negative terminal;
3. Disconnect the positive terminal;
4. Remove the battery from the vehicle.

### Battery installation

Install components in the reverse order of removal. Always connect the positive terminal first and then the negative terminal.

**⚠ Do not remove the protections and always install the battery respecting the polarities, protecting the terminals with vaseline grease. In tal caso si consiglia di rivolgersi presso una concessionaria autorizzata Fantic Motor.**

# MAIN MAINTENANCE OPERATIONS

## Battery Terminals cleaning

**i** The procedure for cleaning the battery terminals may not be suitable for less experienced persons. In this case, it is advisable to contact an authorised Fantic Motor dealer.

- Remove the battery;
- If the terminals begin to corrode and are coated with a whitish substance, they have to be washed with warm water and cleaned;
- If the terminals are badly corroded, clean and polish the terminals with a metal spatula or sandpaper, wearing protective goggles;
- After cleaning, install the battery again.



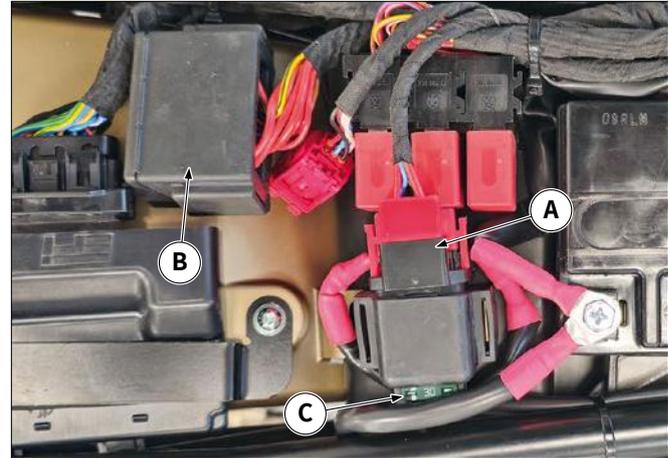
**i** In the event of prolonged non-use of the vehicle, it is advisable to disconnect the battery terminals to prevent battery degradation.

## FUSES AND RELAYS

Fuses protect the vehicle's electrical circuits. If an electrical component of the vehicle stops working, check and replace the blown fuses, if any.

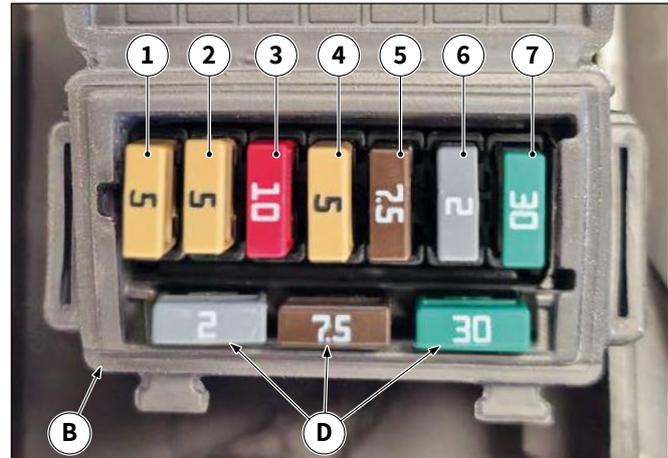
**⚠ If a fuse frequently blows, there may be an electrical problem. It is therefore advisable to take the vehicle to an authorized Fantic Motor dealership for inspection.**

**⚠ Do not repair faulty fuses and never use a fuse of a different power rating than specified, it could cause a short circuit and consequently the risk of fire and related damage to the electrical system.**



### Fuses arrangement

- A. Main fuse (30 A)
- B. Fuse box
  1. Engine control unit fuse (key-operated power), left and right light stalk, turn signals, position lights, brake light, dashboard, connectivity module and USB socket (5 A)
  2. Headlight, tail light and licence plate light fuse (5 A)
  3. Petrol pump, electronic injection system and emission control system fuse (10 A)
  4. Lights relay fuse (5 A)
  5. Cooling fan fuse (7.5 A)
  6. Engine control unit fuse (direct power supply) (2 A)
  7. ABS control unit fuse (30 A)
- C. Spare main fuse (30 A)
- D. Spare fuses (2 A, 7.5 A, 30 A)

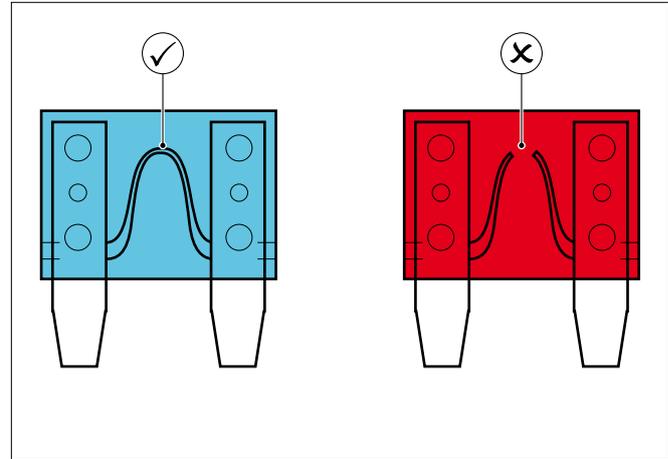


# MAIN MAINTENANCE OPERATIONS

## Fuse removal

Set the ignition switch to "OFF".

- Remove the seat and the fuse box cover from the vehicle.
- Remove one fuse at a time and check if the filament is broken.
- Replace the fuse, if damaged, with a type of the same amperage.
- Install the fuse box cover and the seat.



## VEHICLE INACTIVITY

If the vehicle should remain inactive for months it is advisable to take some precautions:

- Empty the tank completely.
- Remove the battery and charge it with a suitable battery charger every two weeks.

 **The battery must be kept in a dry place and at a temperature between 5-35 °C (41-95 °F). Keep the battery out of reach of children.**

- Position the vehicle with the tires raised off the ground using the appropriate supports and periodically check the tire pressure.
- Lubricate the chain.
- Cover the exhaust terminal with a well-tied bag to prevent moisture from entering inside.
- Cover the vehicle with an appropriate sheet (in breathable material) of a size sufficient to fully cover the vehicle.
- The vehicle must be placed in an unheated place with minimal temperature variations, free from humidity and protected from sunlight.

### After the period of inactivity

- Uncover and wash the vehicle.
- Check the battery status
- Perform preliminary checks.

 **Take a test drive for a few kilometres (miles) at moderate speed in an area away from traffic.**

# MAIN MAINTENANCE OPERATIONS

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## VEHICLE WASHING

It is good that the vehicle is washed periodically to keep its components in good condition.

If the vehicle is used under the following conditions, more frequent washing is recommended:

- Areas where humidity and salinity of the atmosphere are higher than normal.
- Roads or areas where salt or de-icing chemicals are used.
- Roads or areas with the presence of industrial dust or tar stains.
- Sport use and off-road driving.
- Presence on the vehicle body of dead insects, bird excrement, etc.

It is advisable not to stop or park the vehicle under plants or trees.. Certain plants or trees release residues, resins, fruits or leaves containing substances harmful to the vehicle components and bodywork.

 **Fantic Motor recommends using quality products to clean the vehicle. The use of unsuitable products can damage vehicle components. For cleaning, do not use solvents or cleaning products that contain alcohol or gasoline. Fantic Motor recommends the use of environmentally friendly neutral liquid soap.**

 **The use of high-pressure washing systems (or steam cleaners) can damage the seals, the oil seals, brake system, electrical system, dashboard and seat. Fantic Motor does not recommend the use of steam or pressure washing systems to clean the vehicle.**

 **Before washing the vehicle, switch off the ignition key and protect the seat with a suitable cover to prevent water penetration.**

Do not wash in the sun, especially in summer, with the body still warm, as if the detergent dries before rinsing it could cause damage to the paintwork.

Do not use liquids at temperatures above 40 °C (104 °F) to clean plastic components.

Do not direct air jets, steam or water at high pressure on:

- Wheel hubs;
- Handlebar switches;
- Bearings;
- Brake oil master cylinder and tanks;
- Tools and indicators;
- Exhaust system fumes outlet hole;

- Steering lock;
- Fuel tank cap or similar;
- Headlight and tail light;
- Electrical components;
- Decals.

Use a jet of warm water at low pressure, rinse the vehicle thoroughly and in particular the dirtiest parts. With a soft sponge rub all parts of the vehicle.

Rinse the vehicle well and thoroughly using a low pressure jet. With a chamois leather cloth, proceed to dry the vehicle. It is possible that after the wash the braking efficiency is reduced, it is therefore recommended to dry the discs well and wait for the pads to dry.

If the vehicle is started, proceed with caution and operate the brakes repeatedly.

Only after a scrupulous and thorough washing it is possible to proceed with the polishing phase with silicone waxes.

 **Do not use abrasive pastes on the vehicle, they could damage the painted parts.**

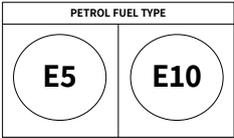
 **Do not apply protective wax on the parts of the braking system, it could compromise their operation.**

 **Do not pass wax on the seat, it could damage it and make it slippery, reducing the stability of the rider's and/or passenger's seat thus increasing the risk of accidents and/or damage to things and/or people.**

# MAIN MAINTENANCE OPERATIONS

## RECOMMENDED PRODUCTS TABLE

- i** Use lubricating and fluid products that meet the equivalent specifications, or higher than those prescribed. These same indications are also valid for topping up.

Product	Characteristics	Remarks
4-stroke gear engine oil	SAE 10W40, API service type SG or greater, JASO standard MA	Do not use mineral oils.
Grease for bearings, joints, articulations and levers	Lithium grease	
Coolant	Antifreeze liquid based on ethylene glycol with organic additives	Do not dilute with water.
Fork oil	Fork oil gradation 15W	
Transmission chain lubricant	Spray grease for transmission chains	
Brake oil	Dot 4 or 5.1 brake fluid	
Cleaner for electrical contacts	Contact cleaner	
Fuel	95 or 98 lead-free super petrol	 <p>The diagram shows a rectangular label with the text 'PETROL FUEL TYPE' at the top. Below this text are two circular icons. The left circle contains the text 'E5' and the right circle contains the text 'E10'.</p>
Paste for carter and engine covers coupling	Three Bond N. 1215®	
Safety lock medium tightening	Medium threadlocker	

## MAIN MAINTENANCE OPERATIONS

EN

Product	Characteristics	Remarks
Safety lock strong tightening	Strong threadlocker	
Lubricant for bolts unlocking	Unlocking protective lubricant	
Anti-friction lubricant for screw tightening torques	Generic engine oil	
Lubricant for rubber oil seals and OR parts	Lithium soap grease	
Battery poles	White vaseline grease	
Vehicle wash	Low pressure water at room temperature Ecological neutral liquid soap	Avoid aggressive detergents.
External cleaning of the brake system (brake discs and seats)	Spray Disc Brake Cleaner	Do not use to clean brake pads and plastic parts.

# MAINTENANCE PLAN

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## MAINTENANCE SCHEDULE

-  The maintenance schedule indicates all the operations required to maintain top performance in terms of safety and reliability, as well as proper emission control of your Fantic Motor vehicle.
-  Scheduled maintenance work (servicing) must be carried out according to the standards and specifications required by Fantic Motor.
-  Contact your Fantic Motor dealer and you will find properly trained technicians and a workshop equipped with all the necessary requirements.
-  Compliance with and performance of all maintenance services listed in this schedule ensures that the vehicle is constantly serviced correctly and optimally.
-  Fantic Motor declines all civil and criminal liability for damage to the vehicle, property and/or persons due to maintenance operations performed by the user.
-  Carry out maintenance operations more frequently if the vehicle is used in rainy, dusty areas, rough roads or in the case of fast riding.
-  In the case of intensive and prolonged use or use of the vehicle in a harsh environment (dusty and sandy terrain), it is necessary to intensify vehicle checks and, if necessary, to carry out servicing earlier.
-  It is essential to make the first inspection and servicing by the end of the first year of use of the vehicle even if the deadline of 1,000 km (600 mi) has not been reached.
-  Timely servicing is necessary for proper use of the warranty.

## SCHEDULED MAINTENANCE PLAN

- i** The following scheduled maintenance plan contains all the maintenance procedures planned and carried out at Fantic Motor authorised workshops.
- i** The scheduled maintenance for this Fantic Motor vehicle involves a regular frequency of a service every 5,000 km or 3,000 miles (with the exception of the first service at 1,000 km or 600 miles, scheduled at the end of running-in).

Item	Operation	Service (x 1.000 km / 600 mi)					Specific period	Specific distance
		1	5	10	15	20		
<b>Fuel circuit</b>	– Check that the fuel pipes are not cracked or damaged.		✓		✓		every year	
<b>Additional fuel filter</b>	– Replace.			✓		✓		
<b>Mapping check</b>	– Check that the engine control unit is updated to the latest version.	✓	✓	✓	✓	✓		
<b>Air filter</b>	– Clear		✓		✓			
	– Replace			✓		✓		
<b>Spark plug</b>	– Check its status. – Clean and restore the electrode distance.	✓	✓		✓			
	– Replace.			✓		✓		
<b>Valves</b>	– Check the valve clearance. – If necessary perform the adjustment.	✓	✓	✓	✓	✓		
<b>Engine oil</b>	– Check the oil level and the absence of oil leaks in the vehicle.	–						every 1,000 km (600 mi)
	– Change.	✓	✓	✓	✓	✓	every year	
<b>Engine oil filter</b>	– Replace.	✓	✓	✓	✓	✓	every year	
<b>Cooling system</b>	– Check the coolant level and the absence of leaks.	✓	✓	✓	✓	✓	every year	
	– Coolant change.	–					every 3 years	
<b>Clutch</b>	– Check for proper operation. – Adjust if necessary.	✓	✓	✓	✓	✓		

# MAINTENANCE PLAN

Item	Operation	Service (x 1.000 km / 600 mi)					Specific period	Specific distance
		1	5	10	15	20		
Transmission chain	– Check the clearance on the rear sprocket flexible coupling. – Adjust if necessary.	–						every 500 km (300 mi)
	– Replace if necessary.	❶					–	–
Battery	– Check the battery charge level.		✓	✓	✓	✓	every year	
Braking system	– Check the brakes operation.	✓	✓	✓	✓	✓	every year	
Brake fluid	– Check the level.	✓	✓	✓	✓	✓	every year	
	– Change.	–					every 2 years	
Brake pads	– Check for wear. – Replace if necessary.	✓	✓	✓	✓	✓		
Brake discs	– Check for wear. – Replace if necessary.	✓		✓		✓		
Braking system pipes	– Check for cracks or damage. – Check that the installation and tightening are correct.	✓		✓		✓	every year	
	– Replace.	–					every 4 years	
Brake pedal rotation pin	– Lubricate with lithium soap based grease.	✓	✓	✓	✓	✓		
Throttle control	– Check for proper operation. – Check the knob clearance and adjust if necessary. – Lubricate the cable and knob body if necessary.	✓	✓	✓	✓	✓		
Clutch control	– Check for proper operation. – Check the knob clearance and adjust if necessary. – Lubricate the cable and knob body if necessary.	✓	✓	✓	✓	✓		
Clutch lever rotation pin	– Lubricate with lithium soap based grease.		✓	✓	✓	✓		
Wheels and Tires	– Check its status.		✓	✓	✓	✓	every year	
Wheel bearings	– Check that the bearings are not loose or damaged.		✓	✓	✓	✓		

Item	Operation	Service (x 1.000 km / 600 mi)					Specific period	Specific distance
		1	5	10	15	20		
<b>Handlebar bearings</b>	- Check the bearing clearance and the handlebar hardness.	✓	✓	✓	✓	✓		
	- Lubricate with lithium soap based grease.			✓		✓		
<b>Fork</b>	- Check its operation and the absence of oil leaks.	✓	✓		✓			
	- Replace oil.			✓		✓		
	- Oil seals replacement.			✓		✓		
<b>Rear shock absorber</b>	- Check its operation and the absence of oil leaks in the shock absorber.		✓	✓	✓	✓	every year	
<b>Rear suspension rotation points</b>	- Check the swing arm operation.		✓	✓	✓	✓		
	- Check the junction arm operation. - Lubricate the rotation points of the suspension with a non-washable anti-corrosion lubricant.	✓	✓	✓	✓	✓		
<b>Passenger foot pegs</b>	- Check its condition and lubricate if necessary.	✓	✓	✓	✓	✓	every year	
<b>Side kickstand</b>	- Check its operation. - Lubricate with lithium soap based grease.	✓	✓	✓	✓	✓	every year	
<b>Side kickstand switch</b>	- Check its operation.	✓	✓	✓	✓	✓		
<b>Fastening elements and moving parts ②</b>	- Check for correct movement and lubricate with lithium soap grease if necessary. - Check for clearance and adjust if necessary (check tightening). - Check wear condition and replace if necessary.	✓	✓	✓	✓	✓		

# MAINTENANCE PLAN

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**① Drive chain** : replace only in the following cases:

- worn and/or deformed chain
- difficulty or impossibility of adjusting tension;
- excessive elongation beyond the limit (greater than 2% of the maximum permitted length);
- lack of alignment between chainring and sprocket.

**② Fastening elements and moving parts** : check the following components:

- Wheel fastening screws and nuts;
- Rear suspension linkage fastening screws, nuts and bolts;
- Steering system fastening ring nuts and bearings;
- Handlebar fixing bolts and nuts;
- Front fork stanchions fastening screws;
- Front and rear brake calliper fastening bolts;
- Headlight fastening screws;
- Handlebar controls fastening screws;
- Rear-view mirror fastening screws and nuts.
- Rider' and passengers' footrest fastening pins and bolts;
- Seat fastening knob.



## TECHNICAL DATA

Technical Data		
Maximum length	Scrambler/Deluxe	2158 mm (84.96 in)
	Rally/Explorer	2179 mm (85.79 in)
Maximum width		873 mm (34.37 in)
Maximum height	Scrambler/Deluxe	1135 mm (44.68 in)
	Rally/Explorer	1183 mm (46.57 in)
Wheel base	Scrambler/Deluxe	1423 mm (56.02 in)
	Rally/Explorer	1432 mm (56.38 in)
Weight in running order		159 kg (350.53 lb)
Weight at full load (vehicle, rider, baggage)		330 kg (727.52 lb)
Engine type		4-stroke single cylinder
Number of cylinders		1
Total displacement		448.88 cc (27.39 cu in)
Bore/Stroke		94.5 mm/64 mm (3.72/2.51 in)
Compression ratio		10.8 / 11.5:1
Starting type		Electric
N ° of engine revolutions at idle speed		1750 (1 ± 10%) giri/min (rpm)
Clutch		Multidisk in oil bath Control on the left side of the handlebar
Lubrication system		Casing in oil bath Pressure system regulated by trochoidal pump
Type of cooling		Liquid
Coolant		1.5 l (0.32 UK gal, 0.39 US gal)

Technical Data		
Type of gearbox		6-speed mechanical Pedal control on the left side of the engine
Transmission ratios	Scrambler/Deluxe	Primary transmission: 2.286
		1st gear ratio: 2.357
		2nd gear ratio: 1.824
		3rd gear ratio: 1.747
		4th gear ratio: 1.182
		5th gear ratio: 1.000
		6th gear ratio: 0.846
		Secondary transmission: 45/14
Transmission ratios	Rally/Explorer	Primary transmission: 2.286
		1st gear ratio: 2.357
		2nd gear ratio: 1.824
		3rd gear ratio: 1.747
		4th gear ratio: 1.182
		5th gear ratio: 1.000
		6th gear ratio: 0.846
		Secondary transmission: 45/14
Transmission chain	Scrambler/Deluxe	520 Regina, 108 links
	Rally/Explorer	520 Regina, 110 links
Air filter		Paper
Tank capacity (including reserve)		11.5 l (2.52 UK gal, 3.03 US gal)

# TECHNICAL DATA

Technical Data		
Capacity of the fuel reserve only	3.5 l (0.76 UK gal, 0.92 US gal)	
Engine oil	Quantity (disassembled) : 1.8 l (0.4 UK gal, 0.48 US gal)	
	Without oil filter change : 1.15 l (0.25 UK gal, 0.3 US gal)	
	With oil filter change : 1.2 l (0.26 UK gal, 0.32 US gal)	
Seats	2	
Maximum allowable weight (rider, passenger, baggage)	171 kg (376.99 lb)	
Fuel system	40mm single-body electronic injection, singlepoint single injector.	
Fuel	95-98 octane super lead-free petrol	
Frame	Closed double cradle frame in molybdenum chrome steel with forged aluminium elements	
Swing arm	Scrambler/Deluxe	Steel swing arm with variable section
	Explorer	Variable-section aluminium swingarm made of solid metal
	Rally	Shell moulded aluminium swingarm
Steering angle (with extended suspensions)	24°	
Steering angle (both sides)	39° ± 1°	
Front suspension	Scrambler/Deluxe	Upside down fork ø41 Stroke 150 mm (5.90 in)
	Rally/Explorer	Fork with spring on the right and hydraulic adjustment on the left ø43 Stroke 200 mm (7.88 in)

Technical Data		
Rear suspension	Scrambler/Deluxe	Mono-shock absorber in adjustable compression and progressive linkage Stroke $56 \pm 2$ mm (2.20 $\pm$ 0.07 in)
	Rally/Explorer	Gas mono-shock absorber with tank positioned outside for convenient adjustment Stroke $76 \pm 2$ mm (2.99 $\pm$ 0.07 in)
Front brake		Four-piston calliper 28 mm (1.10 in) 320 mm floating disk (12.59 in)
Rear brake		One-piston floating calliper 32 mm (1.25 in) 230 mm disk (9.05 in)
Rims/tires	Scrambler/Deluxe	Aluminium spoked rims with inner tube tires:
		Front : 110/80-19 2.50 x 19"
		Rear : 140/80-17 3.50 x 17".
		Inflation pressure:
		Front : 1.9 bar (190 kPa $\pm$ 10) (27.56 PSI)
		Rear : 2.1 bar (210 kPa $\pm$ 10) (30.46 PSI)
Rims/tires	Rally/Explorer	Aluminium spoked rims with inner tube tires:
		Front : 110/80-19 2.50 x 19"
		Posteriore : 140/80-17 3.50 x 17".
		Inflation pressure:
		Front : 1.9 bar (190 kPa $\pm$ 10) (27.56 PSI)
		Rear : 2.1 bar (210 kPa $\pm$ 10) (30.46 PSI)
Reference model: Michelin Anakee Wild		
ABS system		ABS system on two independent and disconnectable channels

## TECHNICAL DATA

Technical Data	
Spark plug	NGK ER9EH-6N
Battery	12 V - 8 Ah
Fuses	Main fuse : 30 A Secondary fuses : 30 A (1), 10 A (1), 7.5 A (1), 5 A (3), 2 A (1)
Generator	12 V - 300 W
Turn signals	LED
High/low beam light	LED
Position/brake light	LED
License plate light	LED
ABS indicator light	Indication on display
Fuel reserve indicator light	Indication on display
Turn signal indicator light	Indication on display
Neutral indicator light	Indication on display
Oil pressure indicator light	Indication on display
Engine indicator light	Indication on display
High beam light indicator	Indication on display



# DECLARATION OF CONFORMITY

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## Declaration of conformity EU Directive 2014/53/EU



### Simplified EU conformity declaration:

Your vehicle is equipped with a range of radio equipment. The manufacturers of this radio equipment declare that these equipment complies with Directive 2014/53/EU where required by law. The complete text of the EU declaration of conformity is available at the following web address: [www.Fantic.com/RED](http://www.Fantic.com/RED)

### Addresses of radio component manufacturers:

All radio components must carry the manufacturer's address according to the provisions of directive 2014/53/EU. For components that, due to their size or nature, cannot be furnished with a sticker, the respective manufacturers' addresses as required by law are listed in the table 2. Note Only skilled person can access and install the device.

TAB.1

RADIO DEVICE INSTALLED ON THE VEHICLE	FREQUENCY BAND	RADIO TRASMISSION MAX POWER
<b>E-CONNECT MICRO</b>		
Bluetooth®	2402-2480MHz	< 20 dBm e.i.r.p.

TAB.2

RADIO DEVICE INSTALLED ON THE VEHICLE	IMPORTER
<b>E-CONNECT MICRO</b>	e-Shock - Via San Martino 12 (20122) Milan, Italy



**Note:**

**Only skilled person can access and install the device.**

CODE V1472005

**CABALLERO**



FANTIC MOTOR S.P.A.

[www.fantic.com](http://www.fantic.com) - [info@fanticmotor.it](mailto:info@fanticmotor.it)

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