

OWNER MANUAL

Rev. 01 | Ed. 01 | 09/2025
Cod. X5844011



ALLTRAIL

VEHICLE DESIGNED IN ITALY, PRODUCED AND ASSEMBLED IN CHINA

Dear Customer,

- *Congratulations on your excellent choice.*
- *Your new motorcycle is the result of the strictest tests and it represents the most up-to-date display of technology in this field.*
- *A trouble-free operation of the motorcycle through time depends on the use it will be subjected to and on appropriate maintenance. For this reason, we strongly suggest you conform to the information stated in this booklet, which must be carefully read before operating the motorcycle and will have to be consulted any time there is even the smallest doubt. In case you should lend your motorcycle (we strongly discourage doing so) to a friend, make sure they have read the paragraphs concerning riding safety and use of the motorcycle itself.*
- *For servicing, extraordinary maintenance, spare parts and accessories always and exclusively refer to Moto Morini authorized Service Centers.*
- *This manual must be preserved for the whole life of the motorcycle and in case of transfer of title it will have to be handed over to the new owner.*
- *All information reported in this manual is up-to-date as of printing date.*
- *Moto Morini reserves the right to apply all changes required by the evolution and development of its motorcycles without notice obligation.*

Always abide by the traffic laws, ride carefully and... Have a good journey!

Accompanying documentation of the motorcycle

- User Manual
(Including Warranty booklet).

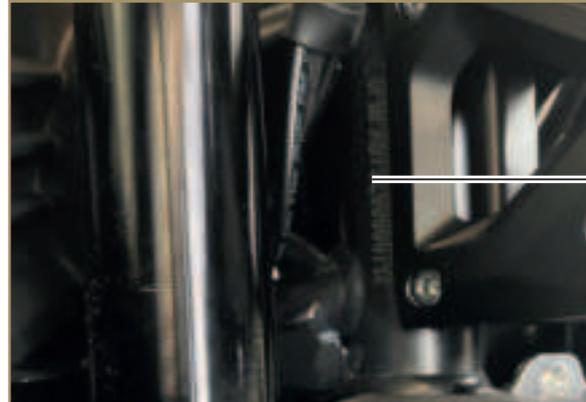
Motorcycle identification data

A = VIN HL4P...

B = homologation tag

NOTE

Falsification of identification data is punishable by law. Do not remove the tag (B) reporting homologation data.



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Consultation Notes

Symbols

- Symbols highlighting situations of maximum attention, practical advice or information have been used in order to ensure a quick and practical reading.
- Said symbols can be located next to a text (thus referring to that text only) next to a picture (referring to the subject of the picture and its text) or at the top of the page (referring to all topics treated in the page itself).

NOTE

Pay attention to the meaning of the symbols: their purpose is to avoid repetition of technical concepts or safety warnings.

NOTE

Some pictures could differ from the motorcycle in use.

SYMBOL	DESCRIPTION
	WARNING! Dangerous situations with grievous bodily harm or even death.
	IMPORTANT Possibility of damage to the motorcycle or parts of it.
	NOTE Topic of specific importance.
	INTERVENTIONS Interventions pertaining to the Authorized Service Centre.
	OPERATIONS Operations to carry out with the engine off.

Basic rules

- It is necessary to have all the requirements provided for by law in order to ride the motorcycle: minimum age, psychophysical eligibility, etc. in addition to the country-specific required documentation: driving license, registration, road tax, insurance, number plate etc..
- Good psychophysical conditions are essential for safety while riding the motorcycle. Drugs, alcohol abuse, psychotropic drugs etc., in addition to physical weariness and sleepiness can cause very dangerous situations.
- It is advised to use a helmet, in compliance with the current regulations in the reference country.
- It is advised to use all protective devices, reinforced jacket, boots and gloves.
- It is advised to become familiar with the motorcycle by initially riding it in low-traffic areas.
- A good percentage of motorcycle accidents are caused by the rider's inexperience.
- Never lend the motorcycle to beginners or inexperienced riders.
- Ride in a seated position, both hands firmly placed on the handlebar and feet correctly placed on the footrests. Avoid standing up and stretching out the legs while riding. In case of numbness of the limbs on long-distance routes, do not hesitate to stop in specific rest areas and do some simple exercise to restore blood flow and tone up the muscles. Never ride in a state of physical weariness or drowsiness.
- Rigorously abide by signage and national/local rules.
- Keep a safe distance from other vehicles when riding in a straight line.
- Always ride with the low beam switched on, even in daylight.
- Avoid abrupt and potentially dangerous moves.
- Adjust your riding style according to road surface.

- Adjust your riding style according to the additional load carried on the motorcycle, especially in presence of a passenger.
- It is forbidden to challenge other vehicles' drivers on public roads.
- Avoid riding the motorcycle ALLTRHIKE as much as possible.
- When the road is wet or slippery, ride with maximum concentration. Use the brakes gently and mainly use the engine brake.
- Always ride so to be very visible in every condition. Do not ride in the "blind spots" of the vehicles in front of you.
- Pay extreme attention at crossroads that have no traffic lights, when close to an access to private areas or public parking areas, in entry lanes to ring roads or motorways.
- When refueling the motorcycle, always switch the engine off. Do not smoke when performing the aforementioned operation.
- Remove the ignition key during stops (even short ones) if the motorcycle is left unattended.
- Park the motorcycle so that it cannot be bumped into, especially by pedestrians as the engine, the exhaust pipes and the silencer maintain a high temperature for a long time.
- Never park on rough or soft terrains or asphalt that has been softened by sunlight.
- Changes of direction or lane, side street turns, pull overs for parking or stopping must always be signaled well in advance by using the direction indicators.
- Whenever close to crossroads, stops, traffic lights, level crossings, holes, ditches, speed bumps and any other perceivable obstacle, slow down in time with moderation.
- When the engine is switched off and the ignition key is positioned to "ON", the low beam switches off



after a few seconds.

- Before every trip, always check: tire wear and pressure, efficiency of the lighting and braking systems, engine oil and coolant levels.
- Only use the products recommended by Moto Morini. In case of any top-ups, avoid mixing different, incompatible oils with one another.
- Do not ride with the helmet hanging off your arm or off the handlebar, even for short commutes. The helmet must be worn during every motorcycle ride (this applies to the passenger as well).
- Never distract oneself or get distracted while riding.
- Do not use mobile or audio devices while riding.
- Do not use earphones, only use appropriately homologated devices for these purposes.
- Alterations and tampering (even minor ones) exempt the manufacturer from any responsibility regarding any kind of damage and cause the termination of the warranty rights

**WARNING!**

Do not ride in the stream of the vehicles ahead.

Do not ride paired up to other riders.

Do not tow or get towed by other vehicles.

Do not sit on the motorcycle while it is parked on the kickstand.

Do not put the motorcycle on the kickstand when the travel direction goes downhill.

Do not start the engine in indoor spaces.

Do not ride on pedestrians' walks, under covered walks, on public park lawns, etc.

Do not keep pointy or fragile objects in your pockets while riding.

Do not ride in case of adverse weather conditions (temperatures close to 0° C, ice, snow, heavy rain, etc.).

Clothing

- Appropriate clothing consists of protective garments in light or refractive colors in order to always be perfectly visible even in poor visibility conditions. Avoid any loose-hanging tails, unbuttoned jackets, excessively heavy or tight gloves and inappropriate shoes.

Riding with a passenger

- Carrying a passenger on the seat influences the riding to a great extent. The weight has a direct effect on the tires, whose pressure will need to be increased and on the rear shock absorber, that will have to be calibrated properly. The braking distance is considerably longer and bends have to be taken at a wider range, with a reduced lean angle and measured throttle opening. A higher degree of caution is also mandatory.
- Both rider and passenger must necessarily wear homologated, properly tied up helmets. The helmet must be properly sized, intact and with a perfectly clean visor.
- Briefly instruct the passenger on the behavior they will have to adopt before every trip (even short ones): do not make any abrupt move during the ride, do not place the feet on the ground during short rests such as stop signs or traffic light stops, do not look over the sides during the ride to look ahead, do not turn the head backwards and, above all, do not counterbalance the curve preparation set by the rider.
- Clear display of passenger anxiety must necessarily lead to highly cautious and careful driving.

**WARNING!**

Do not carry elderly or disabled people, children or animals.

Do not carry children on the motorcycle tank.

Accessories

- Moto Morini shall not be liable for any kind of damage resulting from the use of unexpected, non-homologated or in any way incompatible accessories according to the structural features of the motorcycle or accessories that have not been installed following the technical specifications of said accessory's manufacturer or Moto Morini or accessories that are not officially approved by Moto Morini's technical department (example: windscreen, luggage rack, top case, side panniers or bags, fairings, additional lights, etc.).
- The motorcycle user is responsible for the choice, set-up and practical use of the accessories. During set-up, it is important to verify that the visual and acoustic indication devices are not covered, the suspension travel and steering angle are not limited, the use of control devices is not hindered and ground clearance and leaning angle are not reduced.
- Always check that the accessories are properly attached to the motorcycle, especially in view of long journeys.
- Any accessory that modifies side and/or frontal clearances can cause vehicle imbalance, even if it is an original Moto Morini accessory. In these cases, it is advised not to exceed a 130 Km/h speed even if allowed.

NOTE

Always use original Moto Morini Accessories set up by the authorized Service Centre.

Load (Baggage)

- Baggage must be loaded so that its total weight is equally distributed on both sides of the vehicle, as close to its barycenter as possible. Baggage must be securely attached to the vehicle and it is good practice to check its correct anchoring during stops. A poorly anchored bag can make the motorcycle unsteady and cause extremely dangerous situations.



WARNING!

Do not position bulky baggage at the sides of the motorcycle; it could hit obstacles or people, causing a loss of control of the motorcycle itself.

Do not fasten any type of object to the handlebar.

Do not fasten any type of object to the front mudguard or close to the fork. This causes poor handling and hinders the regular air flow to the radiator, thus increasing the dangerous risk of the engine overheating.

Do not carry baggage or various types of objects sticking excessively out of the luggage rack or covering the lighting and signaling devices.

Do not exceed the maximum weight limit of the luggage rack. Overload is always a dangerous element while riding a motorcycle.

Do not exceed the load on the tank, especially height-wise.

Technical features

Engine

Twin-cylinder 4-stroke, water-cooled, eight-valve, double overhead camshaft.

Total displacement	449,5 cc
Bore by stroke	72x55,2 mm
Compression ratio	11.5:1
Power	32 kW - 8500 rpm.
Engine torque	42 Nm at 6500 rpm

Timing system

Double camshaft (Hydraulic tensioner)

Fuel system

Electronic fuel injection..... Ø40mm throttle body.

Exhaust system

Silencer, 3-way catalytic converter and 3 LAMBDA sensors.



Valve clearance

Intake.....	0,10 - 0,15 mm
Exhaust.....	0,25 - 0,31 mm

Lubrication

Oil:	Power Synt 10W40-SN
Capacity: total.....	2,8L;
with filter replacement.....	2,3L;
without filter replacement.....	2L

Cooling system

Liquid.

Thermostat starts opening:.....	80-84°C
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Transmission

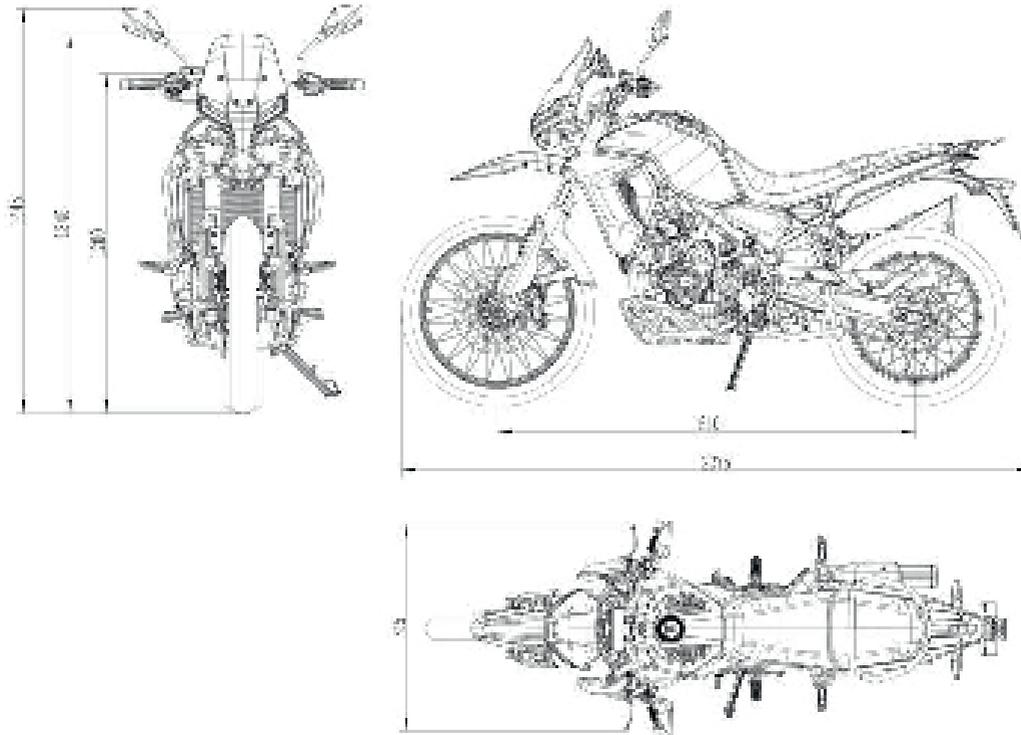
- 6-Speed gearbox.
- Final drive 15/46
- Gear ratio: Beginning - (2,088), 1st-2,928, 2nd-2,055, 3rd-1,578, 4th-1,333, 5th-1,153, 6th-1,037.
- Primary drive: spur gears.
- Final drive: chain.
- Clutch: multi-disks wet type.

Homologation

Euro 5+ vehicle

- Frame: steel tube structure
Swing-arm: aluminium alloy
Wheelbase: 1511mm – Camber: 26° – Steering angle: 36°
- Front suspension: adjustable inverted fork Ø41mm.–Stroke: 209mm
- Spoked front wheel - MT2.15X21" - tyre: 90/90-21"
- Rear suspension: adjustable single shock absorber-stroke: 77.5 mm
- Spoked rear wheel - MT3.75x18" - tyre: 140/70 R18"
- Brakes:  J.JUAN
- Front: Single disc Ø320mm. Caliper with 4 pistons and 2 brake pads.
Rear: Single disc Ø255 mm. Caliper with 2 pistons and 2 brake pads.
- Fuel tank capacity: 18,7L.
- Dry weight: 208 kg

Overall dimensions





Electrical System

- Battery: 12V - 11,2Ah
- Instrumentation: Multi-function LCD Display.
- Spark plugs: TORCH BN8RT1

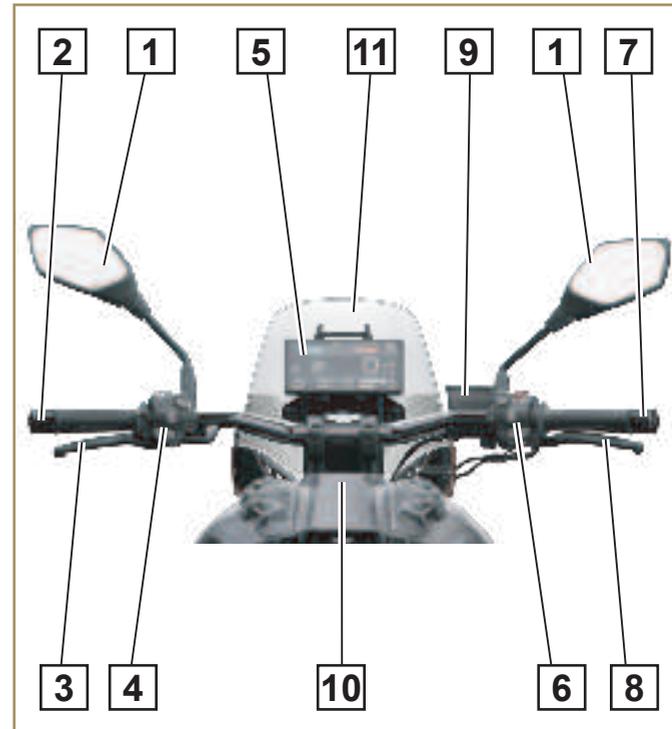
Fluids/Lubricants

- Fuel: unleaded petrol RON 95 #
- Coolant: Goodyear G40
- Synthetic engine oil: 10W40-SN
- Brake Fluid: DOT 4

General Information

Main component location (front)

No.	Instruction
1	Earview mirror
2	Left handgrip
3	Clutch lever
4	Left handle switch
5	Dashboard
6	Right handle switchw
7	Right handle switch (throttle)
8	Front brake lever
9	Front brake fluid tank
10	Ignition switch/steering lock
11	Windshield



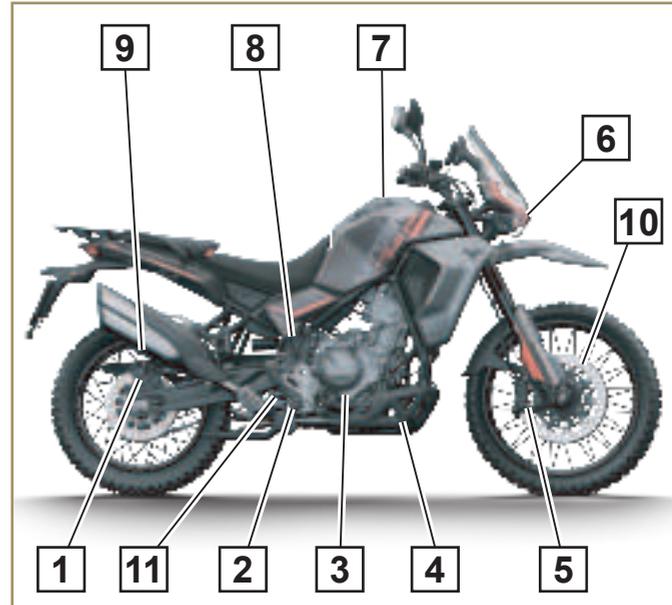
(Left-Head side)

No.	Instruction
1	Front fork
2	Engine cooler
3	Exhaust pipe
4	Shift lever
5	Side stand
6	Left footplate
7	Drive chain
8	Passenger seat
9	Rider seat
10	Radiator-engine coolant



(Right-hand side)

No.	Instruction
1	Rear brake caliper
2	Right footplate
3	Rear brake lever
4	Catalytic converter
5	Front brake caliper
6	Front light
7	Fuel tank cap
8	Rear shock absorber
9	Silencer
10	Front brake disc
11	Rear shock absorber



Supplied equipment

The vehicle comes with on-board tools:

- Allen wrench (1): Allen wrench.
- Replaceable screwdriver (1): flat head- cross head.
- Wrench (2): size 8-10; size 14-17.

The vehicle tool is located under the passenger seat



Provided keys

- The motorcycle is delivered with 2 pcs of identical keys.

NOTE

- Separate the two keys and store one of them in a safe place.
- It is recommended to save the key picture for copy after loss (the picture is real key).



IMPORTANT

It is advised to use a keyring made out of soft material that will not mark the exterior of the motorcycle.

NOTE

- In case of a key loss, report it as lost and, if necessary, head to the Service Centre for locks replacement.

Ignition Switch

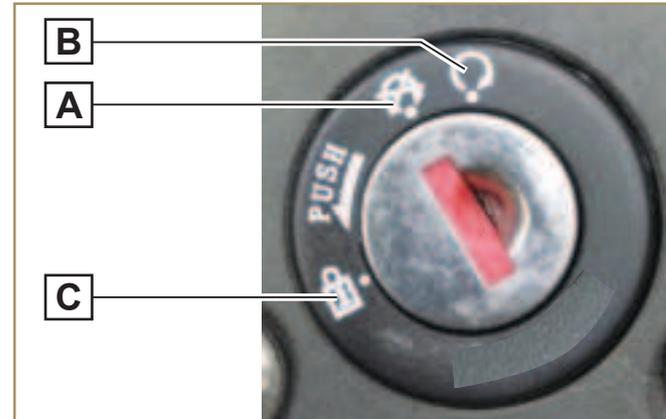
- The three-position switch is located between the handlebars and the fuel tank.
- The positions can be activated through the key.

Location instruction:

- A. No power, the circuit is disconnected;
- B. Ignition powered: all the electric equipment is operational;
- C. Steering lock.

NOTE

To avoid discharging the battery, start the engine as soon as possible after turning the ignition key to “” position; if it is left in “” position for a long period of time, the battery may discharge.



IMPORTANT

The key can be extracted only when it is rotated to switching off  or engagement of the steering lock position.

Once inserted, the ignition key can be rotated and moved between the various modes. To activate the steering lock, the key must be pressed while it is rotated anticlockwise in the corresponding position;

Fuel Tank Cap

Opening

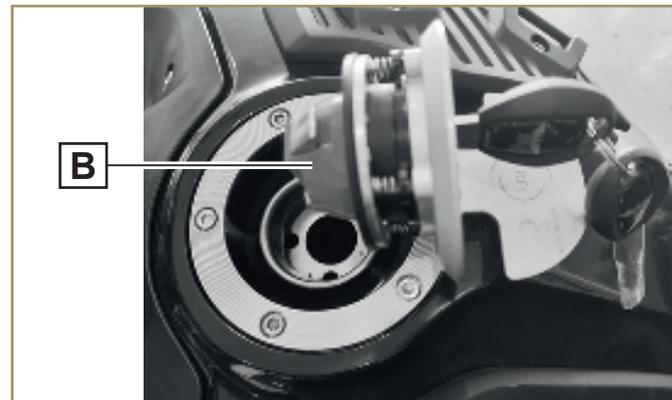
Before opening the fuel tank cap, pull up the keyhole cover; insert the ignition key(A) into the fuel tank cover, push it into place, turn the key clockwise, and then tilt the cap(B) back;

Close

To close the fuel tank cap(B), turn the key(A) clockwise and push the fuel tank cap until it makes a "click" sound. To remove the key, turn it counter-clockwise to the initial position, remove it, and then close the keyhole cover.

NOTE

After each refueling, check the cap is properly closed.



Passenger seat

Passenger seat removal

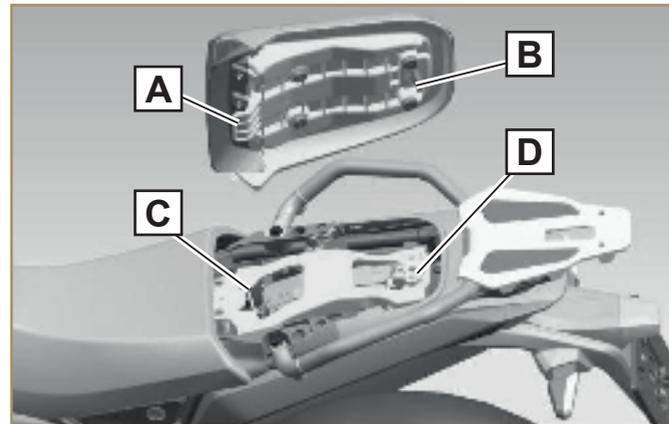
Insert the ignition key into the lock (E) and turn it clockwise until the lock clicks into position. You can pull up the rear part of the passenger seat and move the passenger seat backward to remove it.



Assemble the passenger seat

Insert the hook (A) into the front part of the passenger seat underneath the chassis bracket (C), then insert the bayonet (B) into the lock (D) and push rear part of the passenger seat downwards until the seat lock emits a "click" sound.

- A. Hook;
- B. Bayonet;
- C. Bracket;
- D. Lock.



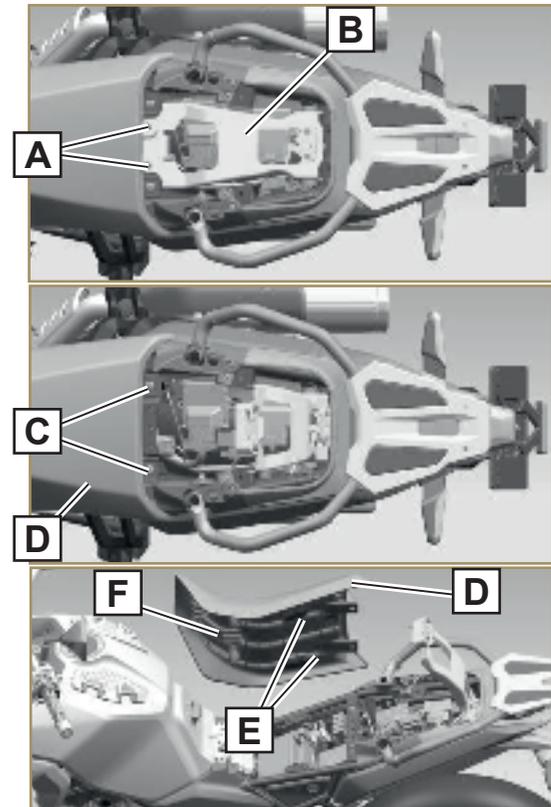
Main seat

Removing the rider's seat

After removing the rear seat, use a tool to remove the two screws (A) and lift the metal bracket (B). Undo the two screws (C), lift the rear part of the driver's seat (D) and move it backwards to remove it.

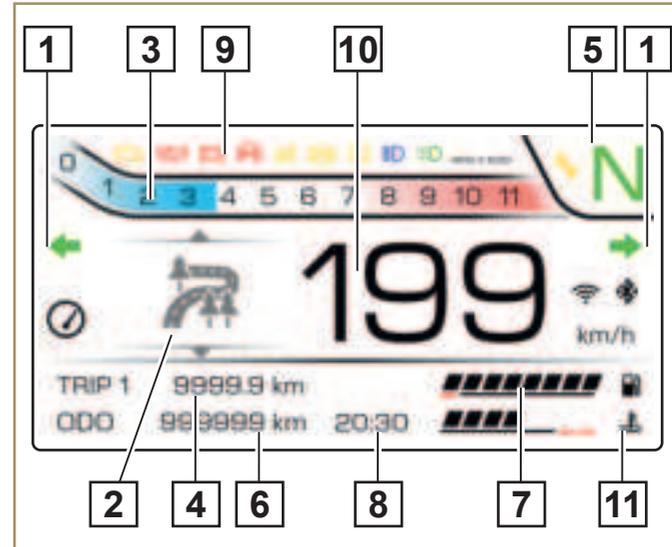
Fitting the rider's seat

Insert the right and left hooks (E) of the rider's seat into the frame bracket, insert the front hook (F) into the fuel tank bracket, push the rear of the rider's seat forward, and use a tool to fasten the two screws (C). Refit the bracket (B) and tighten the screws (A).



Dashboard

No.	Instruction
1	Direction indicator lights
2	Vertical menu
3	Speedometer
4	Trip meter
5	Gear indication
6	Total mileage
7	Fuel gauge
8	Time
9	Indicator lights
10	Tachometer
11	Coolant temperature gauge



NOTE

After turning the key to “ON”, the display checks the functions; at the end of the check, the main page is displayed with the active functions.

Indicator light (Specific function)

No.	Warning light	Description	State	Instruction
1		Engine warning indicator (yellow)	Turn on	Turn on the ignition switch , the icon should be lit up,
			Flashing	Indicates that the DFI system is malfunctioning. Ask an authorized Moto Morini dealer to check
2		ABS indicator light (yellow)	Turn on	Turn on the ignition switch: the indicator light will turn on after the self-check; when the driving speed reaches or exceeds 5 km/h (3.1 mph), the indicator light turns off to show that the ABS system is working normally.
			Turn on	The ABS is malfunctioning. Except for the traditional brake function, ABS does not work. Ask an authorized Moto Morini dealer to check the ABS.
			Flashing	This model is equipped with an ABS turn-off system, which means that the ABS system has been turned off by the customer.
3		Front fog lamp indicator (green)	/	When the current fog lamp is on, the indicator light is on FUNCTION NOT AVAILABLE IN EVERY COUNTRY
4		Left turn signal indicator (green)	/	When the turn signal switch is pushed to the left, the left indicator light flashes.
5		Daytime running light indicator (green)	/	When the daytime running light is on, the indicator light is on

No.	Warning light	Description	State	Instruction
6		Battery indicator light (red)	On	It lights up when the ignition key is turned to the "ON" position and goes out when the engine is started. If it lights up with the engine running, it indicates that the battery charging system is not working properly.
7		Abnormal tyre pressure indicator		The indicator light turns on when the front tyre pressure is $< 170\text{Kpa} \geq 290\text{Kpa}$ and the rear tyre pressure is $< 190\text{Kpa} \geq 290\text{Kpa}$.
8		Maintenance symbol		When the maintenance mileage is ≤ 100 km, the indicator light turns on.
9		High beam indicator (blue)	/	When the front light is in the high beam, the indicator light is on.
10		Right turn signal indicator (green)	/	When the turn signal switch is pushed to the right, the indicator light flashes.
11		Oil pressure warning indicator (red)	Turn on	When the oil pressure is dangerously low, or the engine is not running, the ignition switch is "ON" and the indicator light is on. If the indicator light is still on when the engine speed is at normal idling speed or over, stop the engine immediately and check the engine oil level. If the amount of oil is insufficient, add oil. If the amount of oil is sufficient, please check the engine with an authorized Moto Morini dealer.

No.	Warning light	Description	State	Instruction
12		Emergency stop switch indicator light	On	This lights up when the emergency stop switch is pressed.
13		TCS warning light * (yellow)	/	The warning light comes on when the ignition switch is turned on and the TCS function is active.
			Flashing	The TCS function is not working correctly.
14		Neutral indicator (green)	/	When the transmission is in neutral, the indicator light is on.

NOTE



The ABS indicator (yellow) remains on in the following cases:

- 1. At the start-up of the engine with side stand raised, the rear wheel rotating and the front wheel still;*
- 2. When the motorcycle is exposed to strong electrical interferences;*
- 3. When using a tire with a different size from the standard, replace the standard size tire;*
- 4. When the ABS indicator light is on, turn the motorcycle off, then turn it on again and drive at a speed of 5 km/h (3.1 mph) or higher.*

The ABS indicator light should go out. If not, please go to an authorized Moto Morini dealer to check the ABS.

Device connection

To connect the device to the dashboard:
activate Bluetooth on the device, search for Bluetooth on the dashboard (MLN-XXXXXX), then connect; the Bluetooth symbol "  " appears on the dashboard.

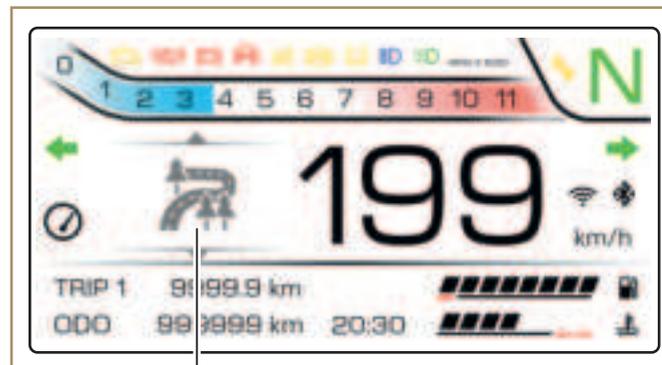
Basic information in the vertical menu

The display is provided with a quick menu (A) which, using the buttons (B) "▼" or "▲", can be used to display the following information while driving:

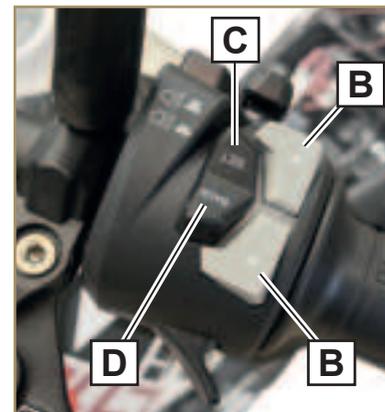
1. Pictogram navigation function with via Bluetooth connectivity.
2. ALLTRHIKE mode
3. ABS enabled/disabled
4. TCS enabled/disabled

To scroll through the menu items, press buttons (B), to access the function press button (C) "Set" to confirm your choice and exit press button "D" Back.

With Bluetooth activated and phone paired, it is possible to display the track currently playing and change the track currently playing by pressing the buttons (B) "▼" or "▲"



A

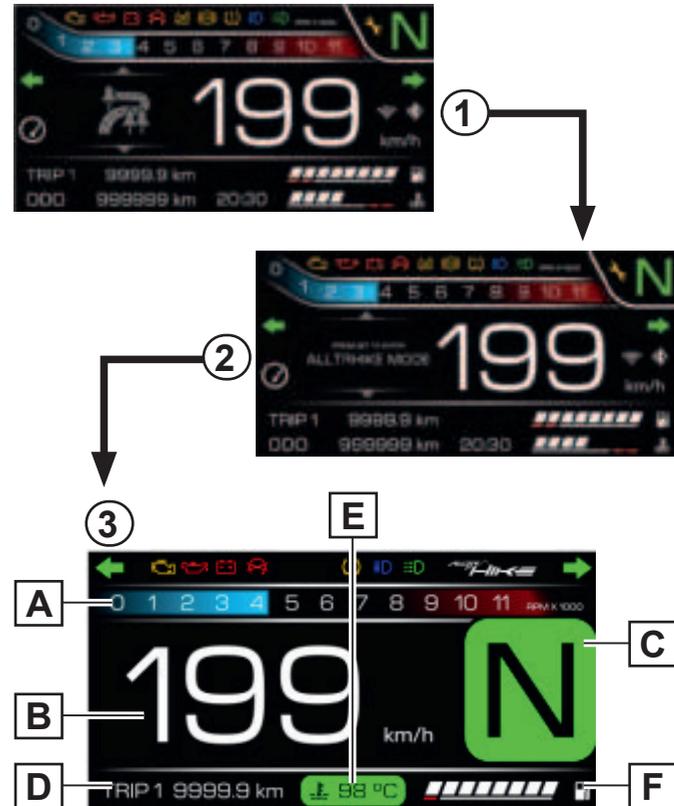


"ALLTRHIKE" off-road function page display (2)

1. Press button "▼" to access the quick menu.
2. Select "ALLTRHIKEMODE" and press the "SET" button.

The specific page for off-road operation is displayed where the following information is displayed:

- Engine speed
 - Speed
 - Gear engaged
 - TRIP 1, TRIP 2 can be displayed in this part of the display. Remaining range, ODO, ABS settings, and TCS settings.
 - Coolant temperature gauge
 - Fuel level.
3. Press the "BACK" button and hold until you exit the function and return to the *Standard* page.



ABS activation/deactivation (3) - Quick menu

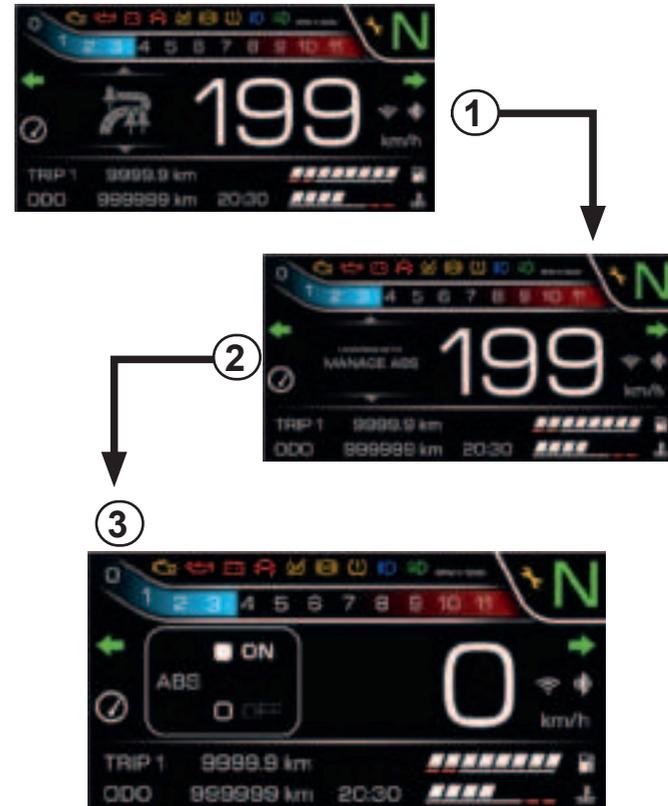
1. Press button "▼" to access the quick menu.
2. Select "ABS" and press the "SET" button
3. Press "▼" or "▲" to select the status, then press "SET" to confirm.

The enabled option is displayed by the black symbol .

A confirmation window is displayed when the "SET" button is pressed.



4. Press the "BACK" to end the call.

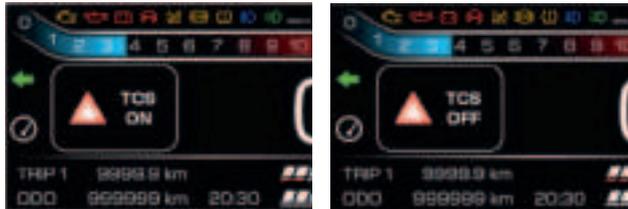


TCS activation/deactivation (4)

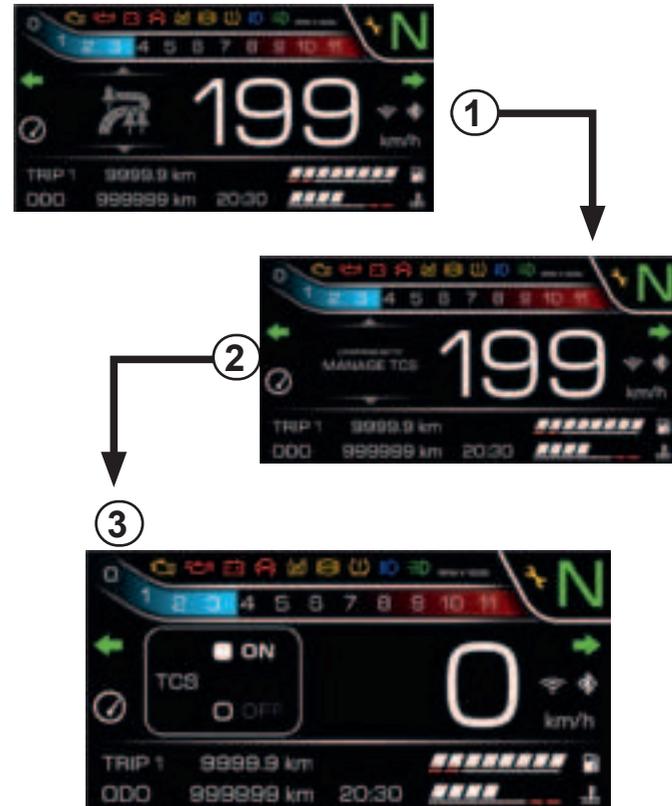
1. Press button "▼" to access the quick menu.
2. Select "TCS" and press the "SET" button
3. Press "▼" or "▲" to select the status, then press "SET" to confirm.

The enabled option is displayed by the black symbol .

A confirmation window is displayed when the "SET" button is pressed.



4. Press the "BACK" to end the call.

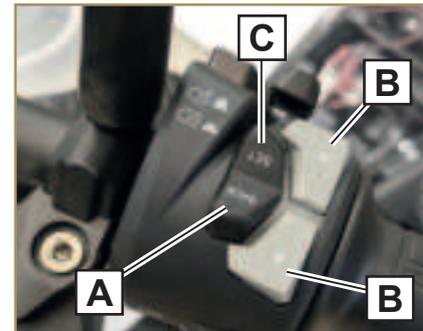
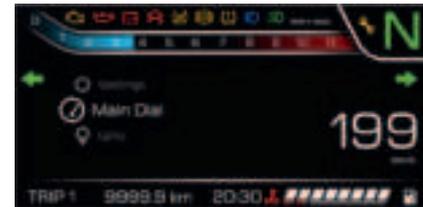
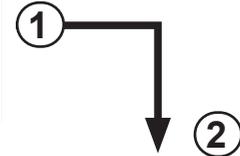


Basic information in the main menu

1. Press the "BACK" button to access the main menu (A).
2. To scroll through the menu items, press button (B), to access the function press button (C) "SET" to confirm your choice and exit press button (A) "BACK".

The functions in the main menu are:

1. Main Dial (Main Page)
2. GPS
3. Music
4. Setting
5. Phone

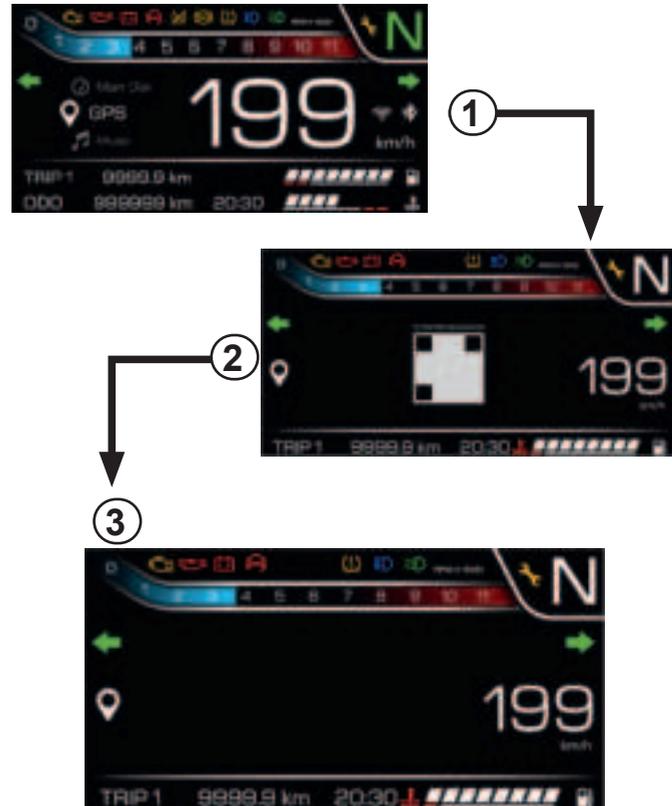


GPS (2)

1. Press the "BACK" button to access the main menu, select "**GPS**" and press the "SET" button.
2. You can use the navigation function via the dedicated "Carbit ride" app, via Bluetooth connection to your mobile phone.

For the first connection, scan the QR code to download and install the app software. After the first successful Bluetooth pairing, the device will connect automatically whenever the app is opened again; if the connection does not happen automatically, scan the QR code again or connect manually.

3. During navigation, the relevant page is displayed.

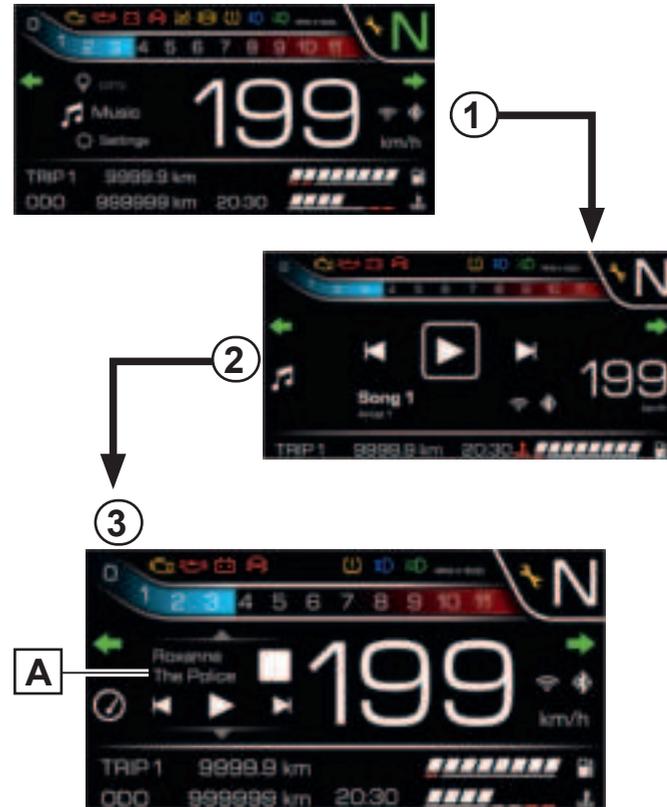


Music (3)

1. Press the "BACK" button to access the main menu, select "**MUSIC**" and press the "SET" button.
2. With a mobile phone already paired via Bluetooth, the current track is displayed and the buttons "▲" (⏮) or "▼" (⏭)" can be used to scroll through the stored tracks. Press the "SET" button to stop or restart playback.
3. The currently playing track is displayed in the quick menu area (A) when the motorcycle is in use.

NOTE

Enter the "Setting" menu to adjust the volume. Once adjusted, the volume remains as set whenever music is turned on. Enter the ""Setting" menu again to change the volume.

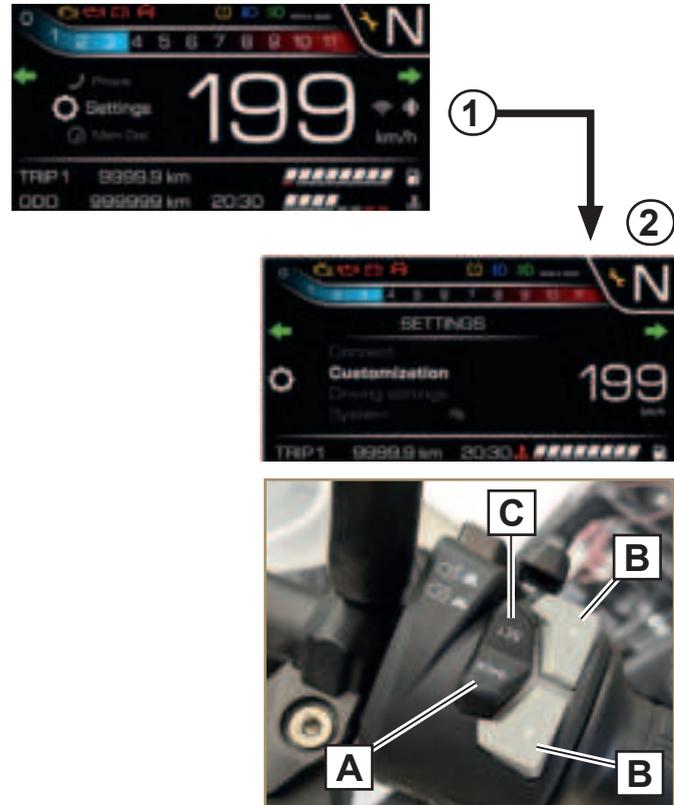


Setting (4)

1. Press the "BACK" button (A) to access the main menu, select "**SETTING**" and press the "SET" button.
2. To scroll through the menu items, press button (B), to access the function press button (C) "SET" to confirm your choice and exit press button (D) "BACK".

The functions in the "SETTING" menu are:

- 4a. Connect (Info)
- 4b. Customisation
- 4c. Driving Setting
- 4d. System



4a. Connect (Info)

This page displays information about the vehicle:

1. km / miles to next service deadline.
2. Battery charge status.
3. Bluetooth vehicle code for connection
4. Coolant temperature
5. Tyre pressure
 - F = front tyre
 - R = rear tyre



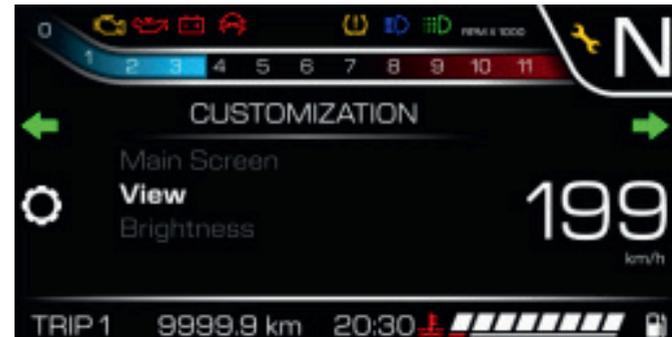
4b. Customisation

It is possible to change the settings and screen display on this page.

The functions are:

- Screen
- View
- Brightness

Select the function and press "SET" to enter.

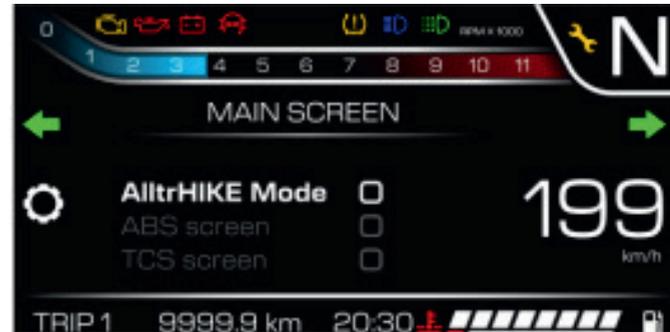


Screen

This function enables/disables functions that can be opened from the quick menu

By entering the page, you can view the functions that can be opened in the quick menu.

1. Select the function to be enabled/disabled using the buttons "▼" or "▲" then press "SET" to enable or disable the display, to confirm your choice press "BACK".
2. The enabled option is displayed by the black symbol .

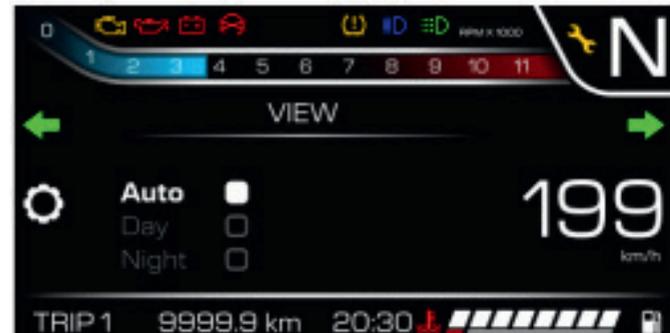


View

This function can be used to choose the screen view.

By setting automatic, the screen view is automatically switched between day and night via the sensor present.

1. Select the function to be enabled/disabled using the buttons "▼" or "▲" then press "SET" to enable or disable the display, to confirm your choice press "BACK".
2. The enabled option is displayed by the black symbol .



Brightness

This function can be used to choose the screen brightness.

By setting automatic, the screen brightness is automatically switched via the sensor present.

1. Select the function to be enabled/disabled using the buttons "▼" or "▲" then press "SET" to enable or disable the display, to confirm your choice press "BACK".
2. The enabled option is displayed by the black symbol .
3. Selecting "manual" will open a page and pressing the buttons "▼" or "▲" will increase or decrease the brightness. Then press "BACK" to confirm.



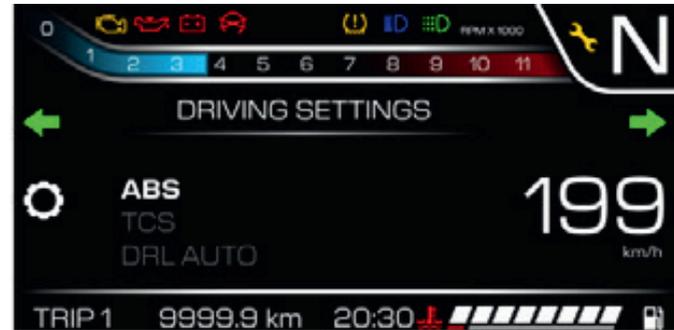
4c. Driving Setting

This page can be used to enable or disable functions and display data.

The functions are:

- ABS
- TCS
- TRIP 1
- TRIP 2
- DISTANCE

Select the function and press "SET" to enter.



ABS

1. To enable/disable the function.
2. The enabled option is displayed by the black symbol .



TCS

1. To enable/disable the function.
2. The enabled option is displayed by the black symbol .



TRIP 1 / TRIP 2

The following information is displayed on this page:

Odo at start indicates the km / miles at the beginning of the trip setting (TRIP)

Total indicates the km / miles travelled since the start of the trip (TRIP)

Average consumption indicates the average fuel consumption during the trip

To reset the km / miles travelled during the trip (TRIP), press and hold the "SET" button for a few seconds.



Distance

The remaining distance that can be covered with the fuel in the tank is displayed.



4d. System

The following functions can be set on this page:

- Language
- Units of measurement
- Time
- TPRS
- Software

Select the function and press "SET" to enter.



Language

1. Select the desired language using the buttons "▼" or "▲" then press "SET" to enable it and press "BACK" to confirm your choice.
2. The selected language is displayed by means of the black symbol ■.

Unit

1. Select the desired unit of measurement between "Metric" or "Imperial" and between "km/h" or "mi" (mph) using the "▼" or "▲" buttons, then press "SET" to enable it and press "BACK" to confirm your choice.
2. The chosen option is displayed by the black symbol ■.

Time

1. Select the time display type ("12H" or "24H") using the buttons "▼" or "▲" then press "SET" to enable it and press "BACK" to confirm your choice.
2. The chosen option is displayed by the black symbol ■.
3. To change the hours and minutes, use the buttons "▼" or "▲" and/or the "SET" button.



TPRS

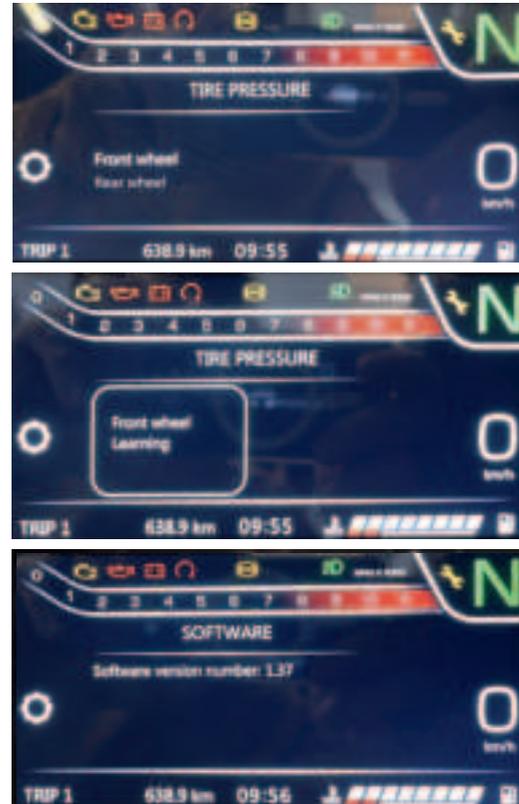
This function can be used to vary the tyre pressure limit depending on how the motorcycle is used using the self-learning function.

For example, if the motorcycle is used off-road and you want to decrease the tyre pressure, proceed as follows to prevent the low pressure alarm from appearing:

1. Inflate the tyres to the desired pressure;
2. Enter the function and select "Front wheel". Hold the "SET" button pressed, the following page indicating the pressure self-learning function is displayed. Wait a few seconds then press the "BACK" button to store the pressure.
3. Repeat the same operations for the rear wheel.

Software

The software version is displayed when this page is opened.



Basic information of display function

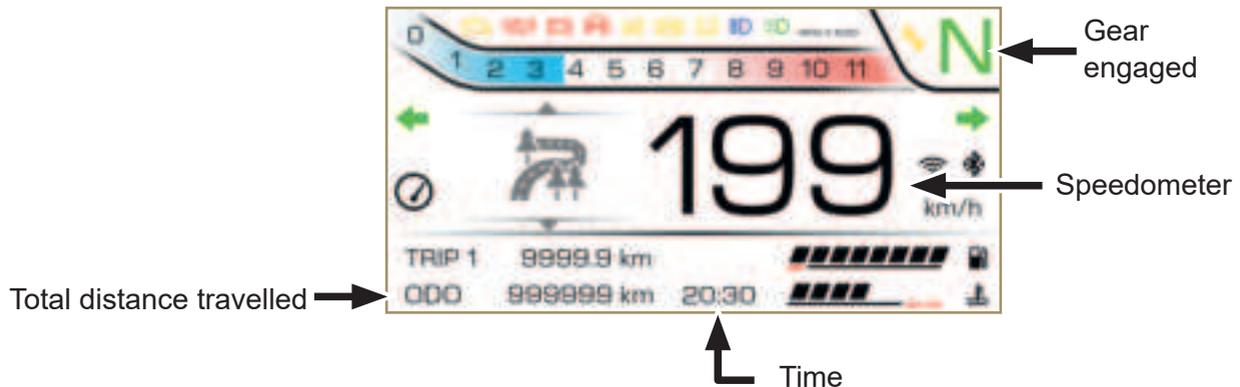
Time: the visualization of time changes according to the setting, 24 hours or 12 hours. For the method of adjustment, consult the "Time" paragraph.

Indication of engaged gear: Shows the engaged gear in real time, on the display appears the engaged gear from "1 to 6" or "-" which indicates that neutral gear is engaged, in this case, the neutral indicator "N" lights up on the display.

Total mileage: ODO displays the total distance travelled by the vehicle. The display range is 0-999999Km (620999Mi). When the total mileage reaches 999999Km, it will be reset to 0 Km.

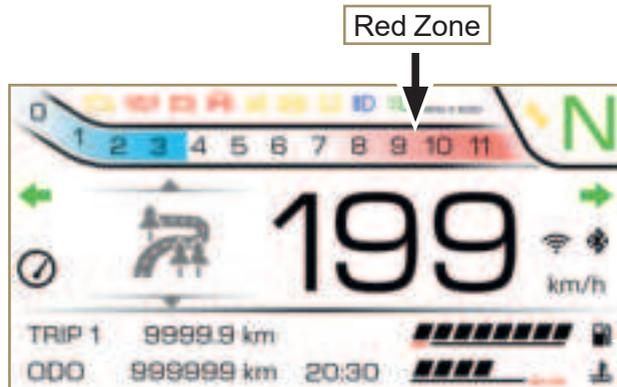
Speedometer: The speedometer is digitally displayed and can be set according to km/h or mph. The unit setting should be changed according to local regulations.

Please be sure to set the unit (km/h or mph) correctly before driving.



Rev counter: the rev counter displays the revolutions per minute of the engine (revolutions per minute, RPM).

The rev counter lights up in function of the reached revolutions: the displayed value increases with the number of revolutions. When the speed is greater than 9000RPM, the display is in the red zone.



NOTE

Avoid reaching the red area of the overspeed.
Running in the red zone will overload the engine
and may cause serious damage to the engine.

Fuel gauge: the fuel quantity is indicated by eight segments. The notch is displayed in red when the last notch is reached. When the fuel gauge has no display segment, the remaining fuel available is about 2.0L. Please refuel as soon as possible.

When the fuel sensor is faulty, the fuel gauge is displayed in red for the first and eighth segments.

Coolant temperature indication: display the temperature status of the engine coolant. When the temperature reaches the corresponding value, the display segment will be displayed (see the figure below). When the temperature of the coolant rises to a value between 110°C (230°F) and 118°C (244°F), the temperature indicator segment will turn red and the corresponding warning LED will light up on the display to warn the driver that the normal temperature value has been exceeded. When the temperature reaches 118°C (244°F) and above, the second red warning will appear on the display segment and the 118°C temperature display will appear on the screen. At this time, the engine needs to be turned off. After the engine has cooled down, check the coolant level in the storage tank and check whether the cooling system is faulty. For detailed information about the coolant, please refer to the vehicle information in the setup menu.



Basic information of warning function

Bluetooth:

After the mobile phone is connected to the Bluetooth of the instrument, " will display on the main interface of the instrument, indicating that the connection is normal, and the music and call functions can be performed by pressing the button.

Maintenance warning:

When the distance to the next maintenance is 100Km, a prompt " will appear on the instrument interface, and the user needs to maintain the vehicle as soon as possible. The first maintenance mileage is 1000 km, and each subsequent maintenance distance is 6000 km travelled/1 year. For details of maintenance, please refer to the vehicle information under the setting menu.

Tire pressure warning:

When the tire pressure value is not bigger than 180KPa or not less than 320KPa, a yellow " will appear. When the symbol is prompted, the user should check and repair the tire according to the specific situation.

Left hand switch

1. "Overtaking(passing) lights" button

Press this button to turn on the high beam and send a signal to the driver ahead to warn that the motorcycle is about to overtake; release the button to turn off the high beam.

2. Horn button

Press the button and the horn starts to work;

3. Direction indicator selector

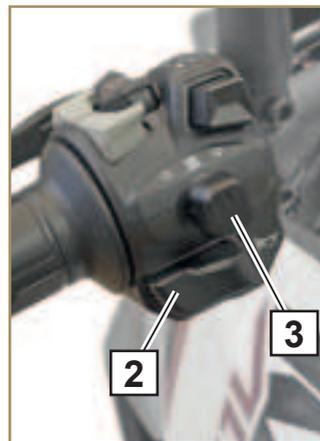
When the direction indicator selector is in the left (←) or right (→) position, the corresponding indicator lights start flashing continuously. Press the button to turn off the direction indicators.

4. Light switch button

High beam/low beam: choose between high beam or low beam using the selector (4). When the front light is high beam (☰), the high beam indicator turns on;

5. Instrument operation buttons

See instrument instructions.



Right-hand switch

1. Electric start switch

When the gear is in neutral position, the ignition button can be used to start the engine "↻";

In gear engaged position, withdraw the stand, pull the clutch lever and simultaneously press the ignition button to start the engine.

2. Light selector

Turn the selector switch to "☘●" to turn on the daytime running light.

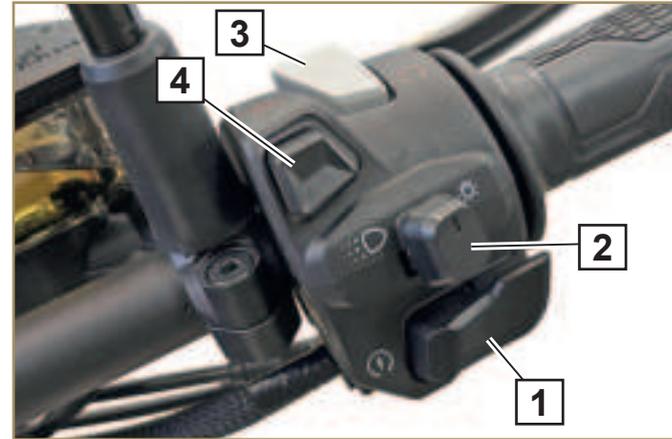
Turn the selector switch to "☘☉" to turn on the low beam headlight.

3. Flameout switch

When set to "↻", the engine is running; the engine shutdown switch is an emergency switch, if necessary, move this switch to the  position.

4. Emergency warning switch

All turn signal lights and turn signal indicator lights begin to flash continuously;



NOTE

The engine stop switch does not shut down all circuits.

Use the ignition key to turn off the engine.

Clutch lever

- Pull the clutch lever (A) towards the handlebars to interrupt transmission from the engine to the clutch (and to the rear wheels).



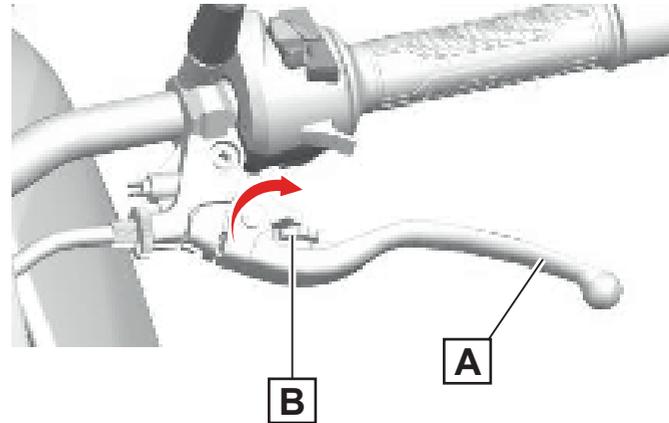
IMPORTANT

To avoid premature damage to the clutch components, do not pull the clutch lever when the engine is accelerating.

Distance adjustment

The distance between the clutch lever and the handlebars can be adjusted in function of the size of the driver's hand, the gloves thickness or of other specific needs.

Turn the adjustment screw (B); turn the screw clockwise to distance the clutch lever from the steering wheel or turn it anticlockwise to move it closer.

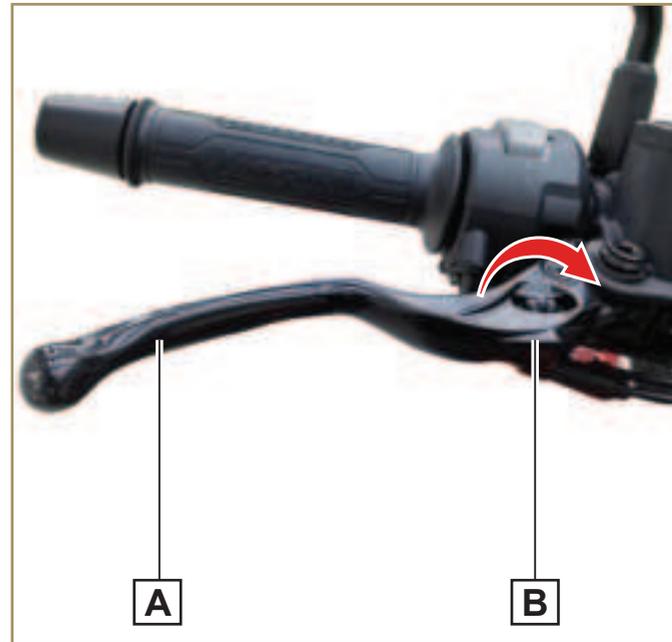


Front Brake lever

- Pull the front brake lever (A) towards the handlebar to activate the two front brake calipers;

Distance adjustment

The distance between the brake lever and the steering handle can be adjusted by rotating the adjusting screw (B) according to the size of the driver's hand, the thickness of the glove or other special needs or riding habits; Turn the screw to the brake pump side, and the lever keep far away from the handlebar, and the opening will increase; on the contrary, the opening will decrease;



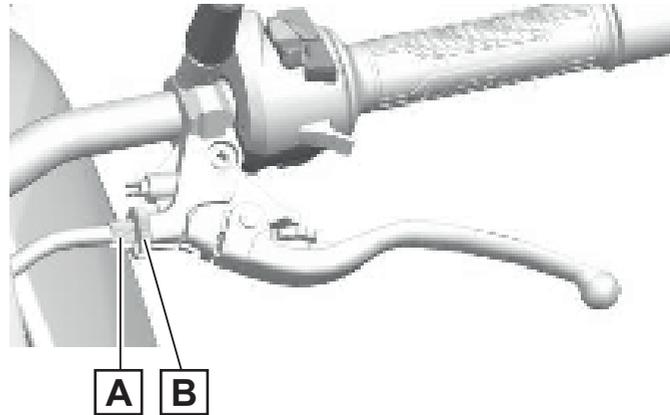
Check of the clutch cable

The clutch lever located on the left hand side of the handlebars is equipped with cable adjustment.

Adjustment of the clutch cable

The clutch cable can be adjusted increasing or decreasing its extension.

- Loosen the ring nut (A).
- Adjust the effective useful length of the cable by rotating the regulator (B).
- Tighten the ring nut (A).



NOTE

Do not pull the clutch cable too much as it may change the engine idle speed.

NOTE

The excess or absence of clearance may cause loosening of the cable.

Front fork

NOTE

The front fork is set according to the driver's weight of 75 kg at the factory, and can be adjusted according to actual conditions or special riding requirements during actual use.

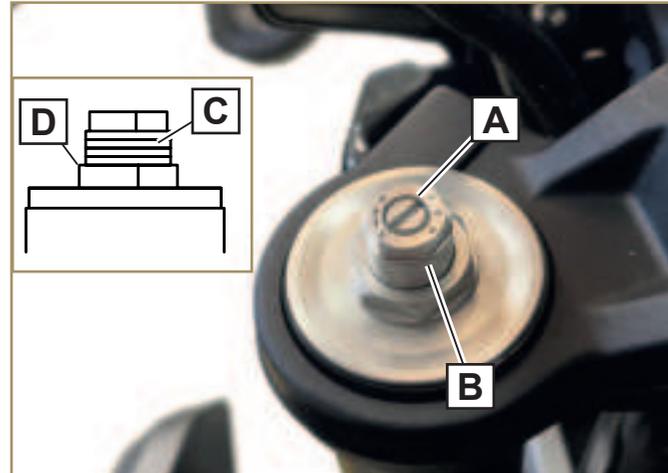


INTERVENTIONS

Spring preload

The spring preload (for the two front forks) is set by the adjuster (A).

- Tighten (clockwise) to increase preload.
- Loosen (counterclockwise) to reduce preload.
- The reference notches (C) show the preload setting.
- The factory setting is with the fourth notch (C) at the same level as the reference plane (D).



NOTE

The left front fork and the right front fork must be adjusted in the same way.

Compression damping (adjustment (E) - right fork)

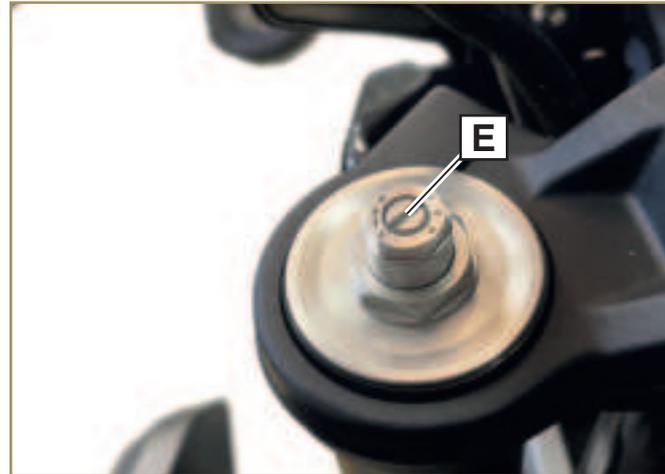
- The compression ratio can be changed using the adjustment screw (E) at the right-hand end. Turn counterclockwise from the full initial position of the adjuster to adjust the damping.

NOTE

Turn the adjustment screw (E) clockwise to reduce the compression (the suspension stiffens).

Rebound damping (adjustment (E) - left)

- The extension ratio can be changed using the adjustment screw (E) at the left-hand end. The factory setting corresponds to the fully tightened position.



NOTE

Turn the adjustment screw (E) clockwise to reduce the extension (the suspension stiffens).
To set the factory position, turn the adjustment screw fully clockwise as far as it will go.

Rear shock absorber

- The rear shock absorber is equipped with a regulator for setting the shock absorption parameters according to different load conditions.

NOTE

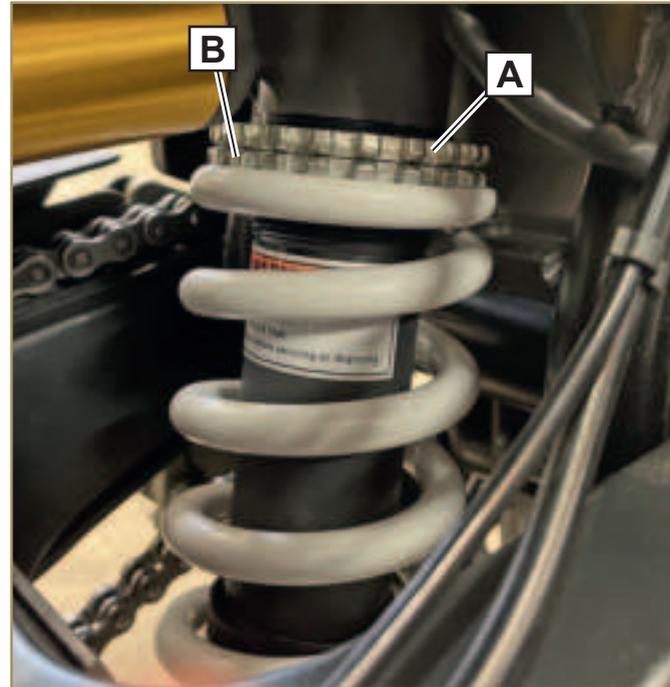
The factory default setting of the rear shock absorber is calibrated based on a riding weight of 75 kg.



INTERVENTIONS

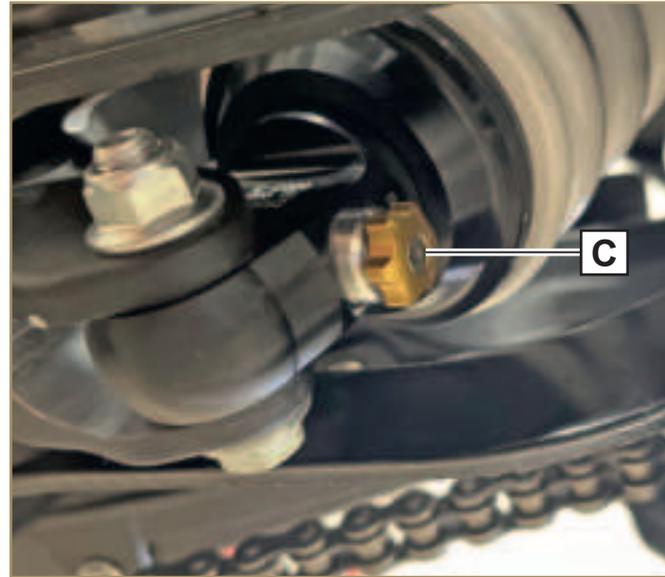
Spring preload adjustment

- Loosen the lock ring (A) and turn the ring nut (B) to increase or decrease the preload.
- Turning the ring nut (B) clockwise increases the preload and vice versa decreases it.
- When the adjustment is complete, fasten the ring nut (B) by tightening the lock nut (A).



Rebound adjustment

- Use the adjustment knob (C) to adjust the extension speed of the rear shock absorber.
- Turn the knob clockwise to gradually decrease the extension speed.
- Turn the knob anticlockwise to gradually increase it.
- The standard position is 11 **CLICKS COUNTER CLOCK WISE FROM FULLY CLOSED SETTING**; the compression resistance is not adjustable.



WARNING!

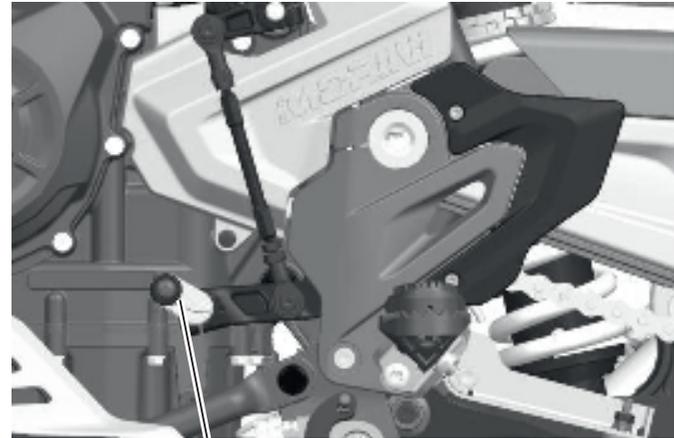
After making any adjustments to the suspension, it is recommended to drive at a low or medium speed first to be familiar with the driving experience of the newly set vehicle.

Gear shifting lever

- Every time the shift lever pedal (A) moves up and down corresponding to engaging different gears (one gear at a time).

Start

- a. Check that the side stand is in the raised position;
- b. Pull the clutch handle;
- c. Pull the clutch lever;
- d. Press the gear shifting lever (A) to engage the gear 1;
- e. Operate the throttle handgrip, let enough fuel enter the engine in order to avoid its switching off, then gradually loosen the clutch lever.



A

Gear shift:

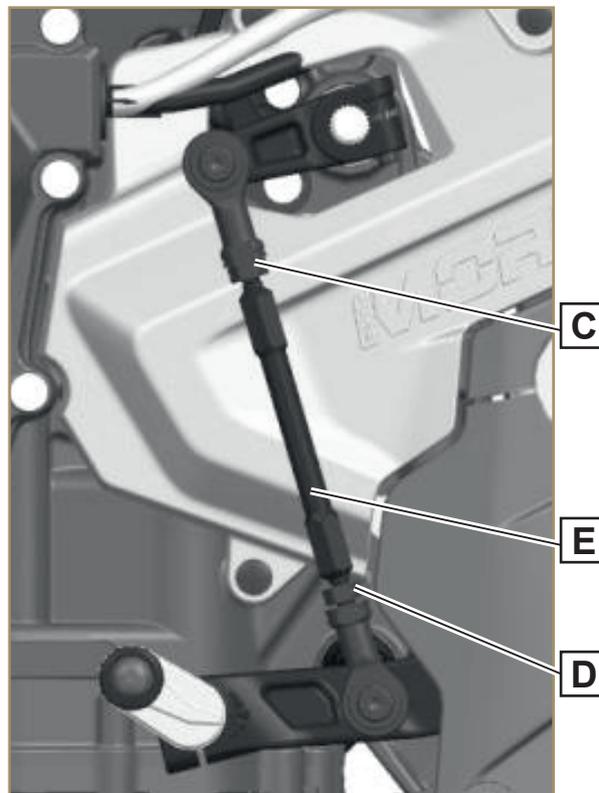
- a. Loosen the throttle handgrip and pull the clutch lever;
- b. Raise or press the gear shifting lever to switch to a higher or lower gear;
- c. Turn the throttle knob and simultaneously release the clutch lever.

Position adjustment

- The shift pedal can be adjusted according to the requirements of the rider.

The adjustment method is as follows:

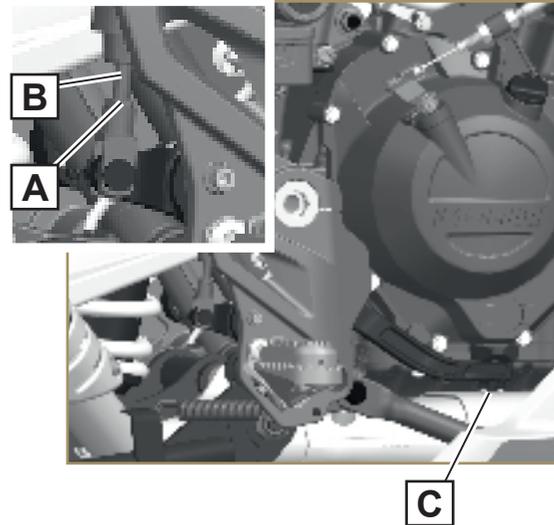
- Use a wrench to loosen the nut (C) and nut (D);
- Work on the adjustment bar (E) to lower or raise the gear shifting lever position based on the respective needs;
- Sit in the main seat to check if it is in the right place;
- Tighten nut (C) and nut (D) completely.



Rear Brake Pedal

The rear brake is activated by hydraulic pressure on the pedal.

- Loosen the throttle handle completely and step on the brake pedal (except when shifting gears) to reduce the speed of the motorcycle;
- When braking, the front brake handle and rear brake pedal should be used at the same time. The frequency of use of front brake is generally higher than that of rear brake;
- Do not lock the brakes, otherwise the tires will slip. When turning, please reduce the speed first and try not to brake;
- During emergency braking, no need to down-shift.



Adjust the position of the rear brake pedal

- Adjust the ground clearance of the rear brake pedal by loosening the lock nut (A) and operating the adjuster (B) until the brake lever reaches the desired position.
- Sit on the seat and check the position. The front and rear position of the pedal can be adjusted by loosening the two lock nuts (C).
- Tighten the lock nut (A).

Side Stand



IMPORTANT

Before operating the side stand, check compactness and uniformity of the support surface. Lawn, muddy or rugged terrain, softened asphalt and other ground can cause the motorcycle to tip over and cause serious damage;

If it is a steep slope, park the motorcycle with the front wheel facing up;

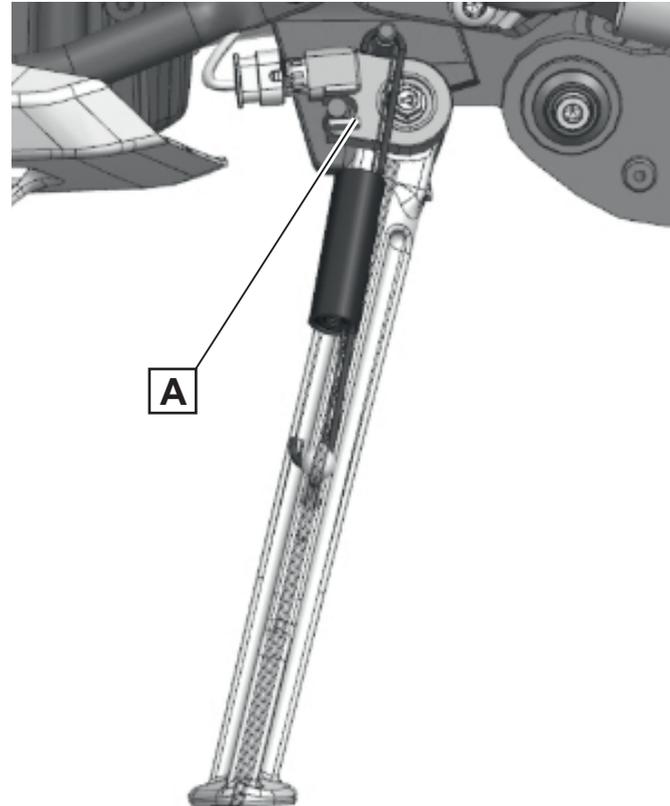
When lateral inclination or bumps occur, park the side stand on the most possible flatroad;

Regularly check whether the spring return and the safety sensor (A) are working properly;



WARNING!

Do not sit on the seat when parking the vehicle with side stand.



Tires

Type: **Tubeless tire**

- Front 90/90 -21;
- Rear 140/70 R18.

	Tire pressure (bar)	
	front	rear
Only driver	2,25	2,25
With passenger	2,25	2,5



NOTE

Check and restore tire pressure with cold tires.



IMPORTANT

In terms of load (that is, the total weight of the motorcycle), sufficient tire pressure is an extremely important factor to ensure safe driving.



IMPORTANT

Check the condition of the tires every time you drive. Whenever there are cuts, cracks, bulges, etc., the tires should be replaced immediately. When the tire tread is worn out, the tire becomes easy to puncture and malfunction; tire tread marks are an important reference for tire replacement.



WARNING!

In order to ensure safe and stable driving, please use the recommended standard tires and rims, and inflate the tires to standard pressure.



Fuel Tank

Refueling

- Only after stopping the engine and placing the motorcycle on the side stand can allow to open the fuel tank cap.
- Do not smoke, keep open flames away or start the engine when refueling.

Fuel tank	Liters
Total volume	18,7



IMPORTANT

Immediately wipe off the fuel spilled from the fuel tank or other parts of the motorcycle.



Terms of use



WARNING!

- The owner of the motorcycle is personally responsible for maintaining the best condition of the motorcycle.
- Improper maintenance, long-term non usage and exposure to bad weather can cause serious damage and threaten the lifespan and performance of the motorcycle.
- Leaking of fuel tanks or flat tires can cause serious consequences. Therefore, it is very important to thoroughly inspect the motorcycle and its main components before use.
- If the motorcycle is not operating normally, the driver must stop immediately and turn off the engine.
- Contact the affiliated service center and/or road assistance.

Run-in (500 km)



IMPORTANT

Good running-in is essential to the service life of all moving parts to ensure their long-term normal operation. During the running-in period, it is recommended not to drive with the throttle control lever always in the same position.



WARNING!

Remember to perform the first maintenance after driving 1000 kilometers.

Check items before use

Description	Check
Fuel	Remaining quantity
Engine oil	Optimal liquid level and no leakage
Coolant	Optimal liquid level and no leakage
Tires	Pressure-wear-potential damage
Steering	Free rotation in both directions
Suspension	Adjustment and no leakage
Brake	Operation-wear-no leakage
Chain	Proper tension and lubrication
Throttle control	Please control the throttle gently, without unnecessary operation, lubricate and adjust if necessary.
Lights and indicator lights	Check whether the operation is correct.

Riding skills

- Let the engine idle for a few minutes before riding;
- Do not let the engine idle for a long time;
- Do not start the engine indoors or in a poorly ventilated space. Exhaust gas is extremely toxic;
- Don't accelerate too fast when starting, and don't turn the throttle handle suddenly;
- When turning or changing lanes, always use direction indicators to indicate ,etc.;
- Do not accelerate when the brake is working;
- Under normal road conditions, it is best to use the front brake;
- After travelling a long distance under hot conditions, it is advised to let the engine run at idling speed for a few minutes before switching it off.

Safety precautions for the first use of motorcycles

Until the mileage does not exceed 300 kilometers-in all gears, do not exceed 5500 rpm.



IMPORTANT

It is recommended to change the engine speed frequently without exceeding the specified limit. It is also recommended to check the chain tension and lubrication frequently.



IMPORTANT

To ensure that the friction materials (brake pads and brake discs) run in correctly, excessive and prolonged braking should be avoided. The mileage from 300 kilometers to 500 kilometers 7500 rpm in all gears should not be exceeded.



IMPORTANT

After reaching the first 1000 kilometers, go to a MOTOMORINI authorized service center for the first inspection.

Info before start



IMPORTANT

Before starting the engine for the first time, be familiar with the control operation, because every action must be smooth and without any interference.

**WARNING!**

Never start the engine indoors. Exhaust gas is highly toxic and may cause coma and death.

Start the engine

- As long as the engine is in neutral gear and the clutch lever is pulled, the engine can be started with the side stand down;
- To start the engine when it is in gear, you must pull the clutch lever and retract the side stand;
- Do not turn the throttle handle.

NOTE:

The engine start does not require any manual cold start device. The electronic control unit manages the engine start and automatically determines the most suitable idle speed according to the temperature, humidity, atmospheric pressure and the internal temperature of the engine.

Engine Start

- Turn the key to the "on" position;
- Turn on the emergency flameout switch (1) to the operating position "↻";
- Press the start button (2) to start the engine, if the engine fails to start within 5 seconds, please release the start button, press the start button again after 3 seconds, and repeat the above actions.

NOTE

If the engine fails to start within 3 times, please check the battery level.



IMPORTANT

A few seconds after the engine is started, the oil pressure warning light will automatically go out. If the indicator light is still on, immediately turn off the engine and check the oil level. If the oil level is correct, please contact MOTO MORINI Service Center



IMPORTANT

Do not run the engine at an excessively high speed. The oil must gradually heat up in order to reach all parts that need to be lubricated.



WARNING!

When the engine is started, the warning light (ABS) is on. If it exceeds 5km/h, the warning light is off.

If the light stays on, stop the engine immediately and restart the motorcycle. If the warning light does not turn off, please contact a Moto Morini Authorized Service Center.

It is recommended to keep the **ABS** system on at all times. However, **ABS** (anti-lock braking system) can be disabled. To disable the anti-lock braking system, follow these steps:

- Put the motorcycle steady.
- Insert the key into the ignition switch and turn on the dashboard.

The menu option of the instrument is **ABS OFF** (refer to the chapter "ABS Basic Information"), the **ABS OFF** prompt appears on the instrument panel, and the LED light flashes at the same time;

NOTE

The slowly flashing LED indicates that ABS is disabled.

To restart the ABS system, please refer to the chapter "ABS Basic Information": at the end of the program, the LED will remain off.

Acceleration

- As already hinted, after starting the engine it is necessary to let it run at idling speed for a few minutes. To start motion, completely pull the clutch lever and firmly push the gear shifting lever to engage the first gear.
- Slowly release the clutch lever, accelerating gradually;
- To switch to the second gear, release the throttle, pull the clutch lever, raise the gear shifting lever with your foot, release the clutch lever and accelerate at the same time. Follow the same process for all the other gears. To shift down the gears, release the throttle command, pull the clutch lever, then engage the lower gear and release the clutch lever.



IMPORTANT

On winding roads, such as mountain roads, when the engine speed decreases, downshifts should be carried out in time according to the vehicle speed.

Deceleration and Braking

- Except for sudden obstacles, the brakes must be used gently to avoid locking the wheels and prevent the motorcycle from losing control.
- Decelerate by shifting gears and using engine brakes, and then adjust the braking force by using two brakes.
- On slippery or bumpy roads, roads with holes, poorly repaired roads, granular debris, etc., it must be adjusted to the corresponding mode. In fact, in this case, the traction will undoubtedly be affected, so the brakes must be used carefully.
- On long and steep slopes, shift gears and rely on the braking ability of the engine. use the brake briefly; continuous use will inevitably cause the friction material to overheat, which will reduce the braking efficiency.

Stop the vehicle

- Release the throttle command to decelerate gradually. Pull the clutch lever, shift down gears and engage neutral gear (position between the 1st and the 2nd gear), then use the brake to stop the motorcycle.



IMPORTANT

When the engine is off, do not leave the key in the vehicle to avoid damage to the electrical components.

Parking the vehicle.

- Put down the side stand of motorcycle;
- Lock the steering lock;
- Do not park the motorcycle near heat sources;
- When parking for a short time in low visibility conditions, please keep the parking light on;
- Do not leave the light on for a long time to avoid draining the battery;
- Do not leave the ignition key in the vehicle, and do not leave the motorcycle unattended, even for a few minutes;
- Do not park the vehicle on dry leaves, plastic materials or wooden surfaces, because the high temperature of the silencer with catalytic may cause fire;
- Do not park your vehicle under a tree. In some seasons, resin residue, fruits or leaves may fall off the tree. These elements may contain chemicals that can damage paint and plastic parts.

General cleaning



IMPORTANT

- Do not wash the motorcycle immediately after use. Water that evaporates in close contact with hot surfaces may cause stains;
- Do not wash the motorcycle under direct sunlight, especially in summer, because the wash liquid may dry out before rinsing, resulting in damage to the paint;
- Avoid high-pressure water or high-pressure air from entering electrical components, vents, edges of exhaust silencers, instrument panels.



IMPORTANT

If the engine parts are very dirty, please use a specific degreasing product. Avoid contact with painted parts, chains, sprockets, brake discs, etc. When cleaning plastic and rubber parts, never use solvents or diluents.

NOTE

In order to maintain the gloss of painted and metal parts, if the motorcycle is used under the following conditions or situations, it should be cleaned regularly: atmospheric pollution, high atmospheric salinity and humidity, contact with salt or deicing products used in winter. Pay attention to whether there are industrial powder residues, tar stains, dead insects, etc. on the motorcycle body.

To remove dirt on painted parts, use a low-pressure water jet to moisten thoroughly, and remove dirt with the help of a soft sponge and vehicle wash liquid. Always use high-quality organic products and avoid harsh cleaners and solvents. Rinse with clean warm water and carefully dry all surfaces with a deerskin cloth.



WARNING!

After cleaning, the brake may not work properly. Because there is water on the friction surface of the brake system, it may temporarily affect the braking, and the brake disc must be cleaned with a special cleaning agent for motorcycles (oil-free solvent).

Long-term parking

Before storing the motorcycle for a long time, such as in winter, do the following:

- General cleaning
- Raise the motorcycle so that the tires can be lifted from the ground and deflate.
- Remove the battery, the battery must be charged periodically (check and recharge every month).

Cover the motorcycle with a suitable cover to protect the vehicle paint and prevent moisture.

Maintenance

In order to keep the motorcycle in good running condition, regular maintenance must be carried out in accordance with the maintenance chart;

○ Periodic inspection - ● Regular replacement

Replace	Frequency	* Total mileage display km/miles								
		every	1000 600	6000 3700	12000 7400	18000 11100	24000 14800	30000 18500	36000 22200	42000 25900
Engine										
Check the valve clearance									○	
Check the timing chain	○ 2 years							○		
Check the spark plugs	● 1 year			●		●		●		●
Change engine oil and oil filter (first change after 1000 km)	● 6 months	●	●	●	●	●	●	●	●	●
Fuel supply system										
Check the fuel pipe for damage	● 4 years									●
Check the fuel pipe installation	○ 1 year	○		○		○		○		○
Check for fuel leaks	○ 1 year	○		○		○		○		○
Throttle body cleaning			○	○	○	○	○	○	○	○
Minimum control		○		○		○		○		○



Check the throttle play	<input type="radio"/> 1 year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coolant										
Check the coolant level	<input checked="" type="radio"/> 2 years	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Check for coolant leaks	<input type="radio"/> 1 year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Check the radiator, check for pipe damage	<input type="radio"/> 1 year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Check the cooling system pipes	<input type="radio"/> 1 year	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Check the radiator and pipe installation	<input type="radio"/> 2 years	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Check that the radiator fan is working		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air intake system										
Check the air filter element, clean the air intake system	<input checked="" type="radio"/> 2 years	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bodywork system										
Check the frame	<input type="radio"/> 2 years					<input type="radio"/>				<input type="radio"/>
Check the linkages	<input type="radio"/> 2 years					<input type="radio"/>				<input type="radio"/>
Check the linkage bearing play	<input type="radio"/> 2 years					<input type="radio"/>				<input type="radio"/>

Lubricate all moving parts (e.g. side brackets, handles, chain bars... chain...) and check for smooth operation	○ 2 years						○				○
Clutch and drive chain											
Check clutch operation (play, engagement, disengagement)		○	○	○	○	○	○	○	○	○	○
Lubricate the drive chain - check		○	○	○	○	○	○	○	○	○	○
Check the chain, rear sprocket and drive sprocket		○	○	○	○	○	○	○	○	○	○
Check the drive chain tension		○	○	○	○	○	○	○	○	○	○
Worn drive chain anti-friction blocks - check		○	○	○	○	○	○	○	○	○	○
Tyres and rims											
Damaged rims and tyres - check		○	○	○	○	○	○	○	○	○	○
Check the condition of the tyres		○	○	○	○	○	○	○	○	○	○
Tread wear, abnormal wear - check		○	○	○	○	○	○	○	○	○	○
Check the tyre air pressure		○	○	○	○	○	○	○	○	○	○
Check the spoke tightening		○	○	○	○	○	○	○	○	○	○
Crown seat bumper block				○		○		○			○
Sprocket block bearings - check				○		○		○			○



Braking system										
Brake fluid leaks - check		<input type="radio"/>								
Brake fluid hose damage - check	● 4 years	<input type="radio"/>	●							
Brake pad wear - check	● 2 years	<input type="radio"/>	●	<input type="radio"/>	<input type="radio"/>					
Brake fluid hose installation - check	● 3 years	<input type="radio"/>								
Brake master cylinder rubber seal	● 4 years									●
Brake fluid level - check/change	○ 6 months	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	●	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	●
	● 2 years									
Brake operation (braking force, play, flexibility) - check	○ 1 year	<input type="radio"/>								
Brake disc	● 2 years	<input type="radio"/>	●							
Brake light switch operation - check		<input type="radio"/>								

Suspension system										
Front fork operation (smooth damping) - check		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Rear suspension movement check (smooth damping)		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Check the shock absorbers and forks for leaks; depending on the vehicle	<input type="radio"/> 1 year	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Steering system										
Check the steering play	<input type="radio"/> 1 year	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Steering bearings - lubricate	<input type="radio"/> 2 years	<input type="radio"/>				<input type="radio"/>				<input type="radio"/>
Electrical system										
Light and switch operation - check	<input type="radio"/> 1 year	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Lighting and indicator systems	<input type="radio"/> 1 year	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Frame systems										
Frame components - lubricate		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Check the tightening torque of bolts and nuts		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Tighten the exhaust pipes and silencers		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Tighten the frame nuts		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
Tighten the wheel bolts		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>

Daily maintenance

These maintenance tasks must be considered and must be strictly performed by the owner; the long life and performance of the motorcycle depend to a large extent on these operations.

NOTE

Routine maintenance operations are usually carried out by the owner, but often require sufficient technical training and specific tools; if in doubt, it is recommended to contact the MOTOMORINI authorized service center, which will provide safe and competent services.

Before starting any maintenance work or inspection, place the motorcycle on a flat, solid ground in a well-ventilated protective space, and check whether the engine and exhaust system are sufficiently cooled to avoid spontaneous combustion.



INTERVENTIONS

The maintenance operations marked with this symbol are the exclusive rights of authorized personnel and must be done in the MOTOMORINI authorized service center;

If these rules are not followed, the manufacturer will waive all responsibilities and claims and will invalidate the warranty (if it has not expired), as this is considered a "vehicle modification". MOTOMORINI also does not encourage you to perform these operations yourself, because they may cause serious damage or death.

Engine oil

First replacement after 1000 km and then every 6000 km or 1 years.

- The oil level must be checked for cold or warm engines; if the engine is overheated, wait a few minutes for the oil to stabilize in the oil sump.

Keep the motorcycle perpendicular to the ground.

- The liquid level can be checked from the view glass (A) and is correct when it is in the middle of the window.
- If the level of oil is lower than the central line of the indicator, top it up from the top filling cap (T).
- Oil: 10W40-SN grade fully synthetic motor oil



NOTE

Check the oil level before a long trip.

NOTE

If you use a funnel or similar tool when filling engine oil, please check whether it is clean; foreign matter or water entering the engine may cause serious damage.

- After topping up, remount the filling cap, start the engine and let it run at idling speed for a few minutes, then check that there is no oil leakage and that the indicator on the dashboard switches off after a few seconds. If that does not happen, stop the engine and perform the necessary checks.
- About three minutes after turning off the engine, check the oil level again.



WARNING!

Do not mix different incompatible oils to avoid damage to the engine. If there is no recommended engine oil, please use a compatible engine oil. The oil compatibility can usually be checked on a specific chart at a gas station or specialty store.

MOTOMORINI is not responsible for any damage caused by the use of oil with different characteristics from the recommended oil.

Brake fluid

Brake fluid DOT 4



IMPORTANT

Under normal braking conditions, check every 10,000km

Brakes are the most important component to ensure driving safety, and they must always be in perfect condition. Both wheels of the motorcycle are equipped with hydraulic disc brakes.



WARNING!

Brake fluid is extremely corrosive and can cause serious injury to the rider or damage the motorcycle. The fluid level must always be higher than the one signaled by the "min" indicator on the two fluid tanks. Too low brake fluid level may result in low efficiency of the braking system.



IMPORTANT

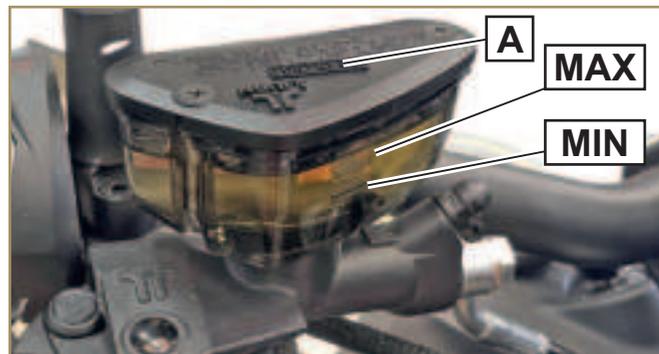
Be sure to use the recommended liquid taken from an unopened container. Be careful not to let foreign objects, water, etc. enter together with the liquid. If the oil brand needs or must be changed, the entire system must be drained. This operation can only be performed by authorized personnel.

Never mix different and possibly incompatible liquids.

Check the brake fluid level

Lean the motorcycle to let the liquid be placed horizontally.

- **Front brake:** Check that the level in the front brake fluid reservoir (A) is between the “MAX” and “MIN” marks. Check that the brake fluid level in the oil reservoir is above the lower level "MIN" mark.
- **Rear brake:** Check that the brake fluid level inside the oil tank (B) of the rear brake is between the "UPPER" and "MIN" LOWER.



WARNING!

If the brake fluid decreases, do not use the motorcycle, do not fill up the brake fluid, and immediately contact the Moto Morini Authorized Service Center.



Coolant

- The coolant expansion tank (A) is located on the right-hand side of the motorcycle.

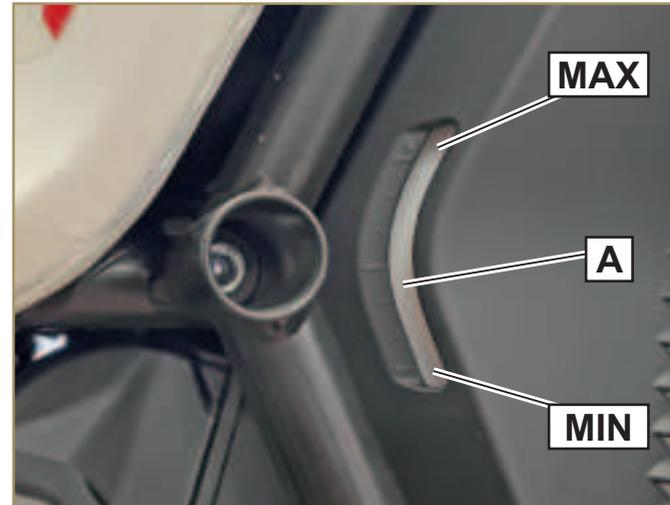
Liquid level check:

- Check the level of coolant inside the expansion tank with the engine and the motorcycle perpendicular to the ground.

NOTE

Engine must be cold.

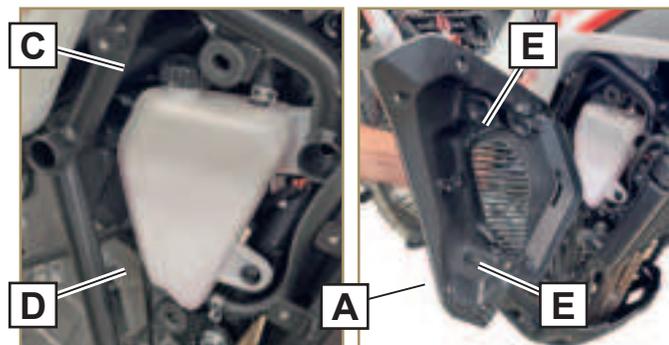
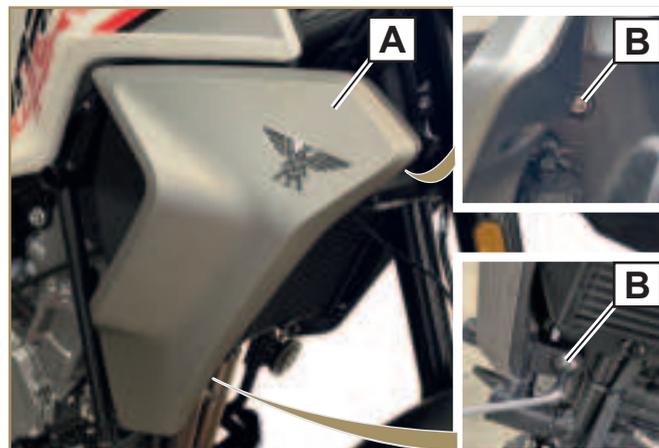
- The correct coolant level is between the "MIN" and "MAX" marks, visible on the outside surface of the tank on the right side of the motorcycle.



Proceed as follows to reset the coolant level:

- Remove the panel (A) by undoing the screws (B) and pulling it outwards by releasing it from its retainers.
- Remove the cap (C) and introduce the amount of coolant to restore the level in the reservoir (D), then refit the cap (C).
- Refit the panel (A), taking care to insert the pins (E) correctly into their rubber seats, then tighten the fixing screws.

Coolant type: **G40**



**WARNING!**

Unless there is an obvious emergency, don't add water.

NOTE

If the coolant temperature is too high, the fan is automatically operated and it's protected by a fuse.

**WARNING!**

If the coolant consumption is irregular or the cooling system leaks, please do not use the motorcycle and contact a MOTOMORINI authorized service center.

Brake pads

Wear check

Check frequently.



IMPORTANT

Used on dusty roads, wet roads, winding roads or mountain roads, the brake pads of motorcycles need more frequent wear inspections.

- It is not necessary to remove the brake pads when performing the inspection.
- There are indicating grooves on the friction material of the front brake pads to determine whether to replace the brake pads;
- When the brake pads are still in good condition, the grooves can be seen.



INTERVENTIONS

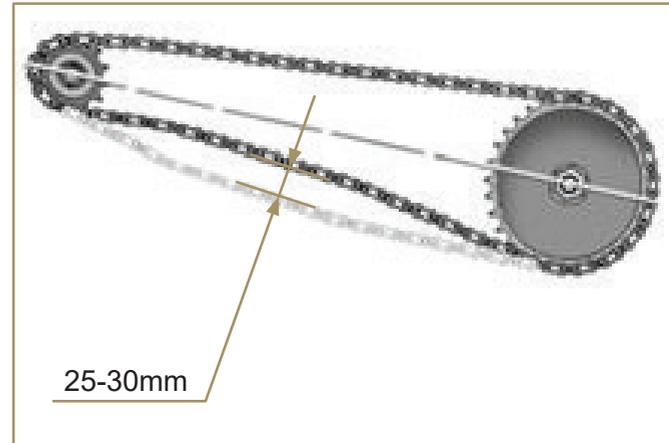
The minimum thickness of the brake pad friction material is 1 mm. If one brake pad is excessively worn, both brake pads must be replaced at the same time, and the original brake pads must be used.

Transmission Chain

NOTE

Users need to check the tension and lubrication of the transmission chain frequently.

- Park the motorcycle on level ground;
- Press the chain upward at the middle part of the lower chain;
- Observe the displacement of the chain to judge the tightness; usually the displacement is 25-30mm. If there is a high degree of slack, please adjust the chain tension at the MOTOMORINI authorized service center.



WARNING!

The inappropriate tension of the chain may cause the premature wear of the pinion, crown and of the chain itself.

Lubricate every 700 kilometers (or more frequently when driving long distances on dusty or wet roads). Use special products for lubrication, and carefully follow the terms of use on the product packaging.

Use the special lubricants for motorcycle chains to lubricate.

Electrical components

Fuses

- Remove the passenger seat;
- Undo the screws (A) and lift the support (B).
- Open the fuse box cover;
- Before replacing the fuse, try to solve the problem that caused the fuse to "burn out";
- Find and remove the blown fuse, and then replace it with a fuse of the same rating.

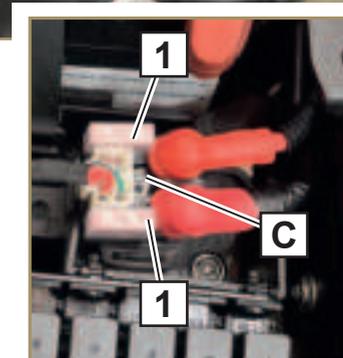
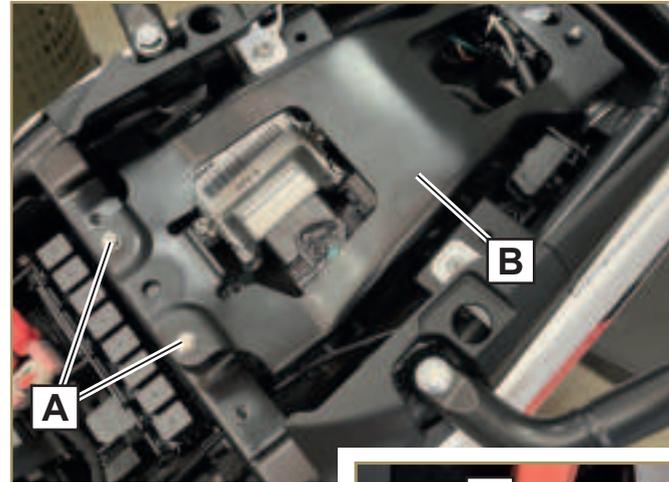


WARNING!

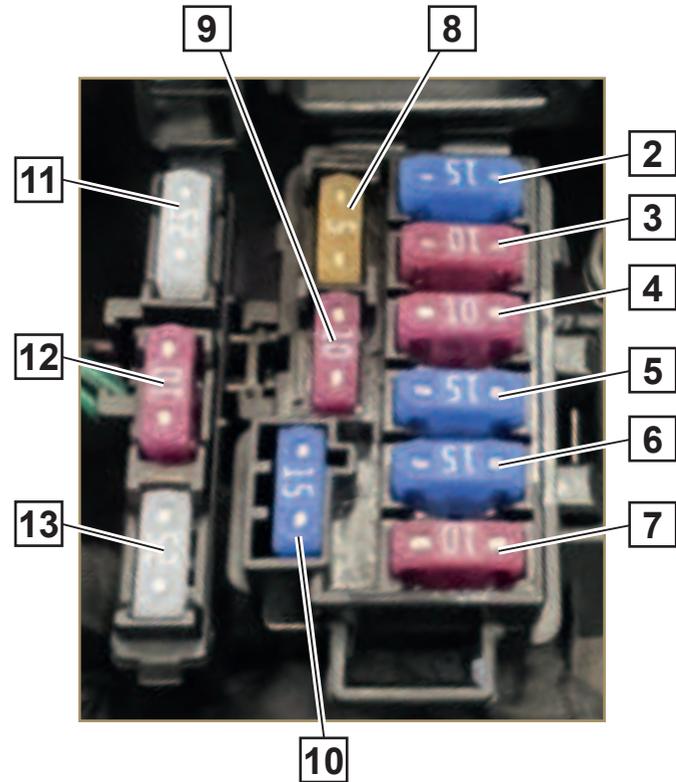
When replacing the fuse, be sure to use a fuse of the same rating, because it may seriously damage the electrical system and cause a fire due to a short circuit.

Starter relay (C).

N.	Ah	Functions
1	30	Starter motor fuse and spare fuse



N.	Ah	Functions
2	15	Headlights and signalling system
3	10	ABS
4	10	Oxygen sensor heating
5	15	Fuel pump relay, main relay
6	15	Fan relay/starter auxiliary relay
7	10	ECU, instruments, OBD
8	5	Spare fuse
9	10	Spare fuse
10	15	Spare fuse
11	25	Spare fuse
12	10	ABS
13	25	ABS





Battery

The battery installed on the motorcycle is a wet maintenance-free type, so there is no need to check the battery electrolyte level or add distilled water.

NOTE

Do not remove the sealing strip, otherwise the battery will be damaged. Do not install traditional batteries on the motorcycle, otherwise the electrical system will not work properly.

Battery Maintenance

It is the owner's responsibility to maintain sufficient power in the motorcycle battery.

Otherwise, it may cause the battery to lose power and cause the motorcycle to break down.

If your motorcycle is not used for a long time, you should use an appropriate charger to charge the battery or remove the vehicle battery.



WARNING!

Do not charge or place the battery near a heat source or open flame; keep out of the reach of children. The battery can only be charged with a dedicated charger, which can be charged in your motorcycle dealership store.

Remove the battery

- Make sure the ignition switch is turned off.
- Remove the driver's saddle (to remove the driver's seat, please refer to the section "Remove the driver's seat" in the section on basic information).
- Remove the screws that secure the cables to the battery terminals.
- Disconnect the battery cable, first disconnect the negative (-) terminal, then the positive (+) terminal
- Remove the battery.



WARNING!

Do not open the battery, do not add distilled water or electrolyte.

Re-Install the battery

- Position the battery in its respective seat.
- Connect the positive (+) cable to the positive (+) terminal, and then connect the negative (-) cable to the negative (-) terminal.
- Tighten the screws that fix the cable to the battery terminals.
- Cover the positive (+) terminal with red insulation.



WARNING!

Connecting the negative wire to the positive terminal of the battery or connecting the positive wire to the negative terminal of the battery will cause serious damage to the electrical system.



IMPORTANT

Pay attention to the location of the terminals and the polarity of the cable.

Red = positive (+)

Black = negative (-)

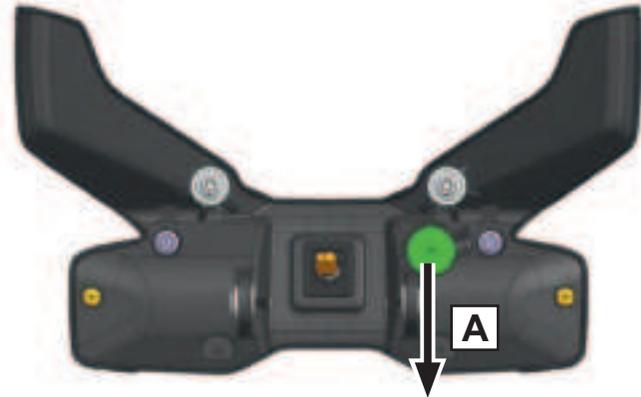
Headlamp



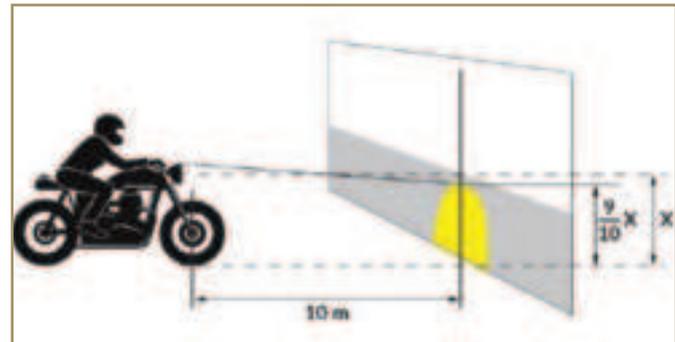
INTERVENTIONS

Regularly check the beam pattern of the headlights at MOTO MORINI authorized service centers or trusted service centers.

- Increase or decrease the inclination of the light beam by adjusting the internal screw (A) underneath the headlight.
- Adjust the light beam as indicated in the figure.
- Parking light: 6,5W.
- Low beam/high beam: LED-10,2W/24,6W.



Adjustment device





Indicator lights

The direction indicator uses a set of non-replaceable LEDs. If the indicator does not work, the entire indicator must be replaced at a MOTOMORINI authorized service center.

License plate light

The license plate light uses a set of non-replaceable LEDs. If the light does not work, the whole lamp body must be replaced at a MOTO MORINI's authorized assistance centre.

Tail light

The tail light uses a set of non-replaceable LEDs. If the light does not work, it must be replaced at a MOTO MORINI's authorized assistance centre.

