



Shifter 125 evo

Owner's manual & warranty conditions

macbor.com

This owner's manual is a practical guide to help keep your motorcycle in top condition. The wear and durability of all components will depend on responsible use of this manual. As you may already know, at Macbor we put passion and care into every detail. We can't help it, and this manual is a good example of that. We hope you find it useful and that it helps you take your Macbor wherever you want to go. That part is up to you.

Smart yourself.

Preface

This motorcycle is designed solely for road use and is limited to one rider and one passenger. Please read this manual carefully before using the motorcycle to understand the basic functions that will allow you to ride safely and comfortably. The data, instructions and specifications in this manual reflect the latest design features of your motorcycle. Our company reserves the right to make changes to vehicle specifications without prior notice. This manual is intended as a reference guide, based on standard components. For any repairs not covered in this manual, please consult the repair manual and parts catalogue for your motorcycle. If you have any queries, contact your local Macbor service centre or authorised dealer. We will provide the best and fastest service. Use original spare parts only. No part of this manual may be reproduced by any company or individual without prior authorisation. This manual includes the following messages, each with a specific meaning:

WARNING: Indicates a potentially dangerous situation which, if not avoided, could result in serious injury or death.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may damage your motorcycle.

NOTE: Provides information to assist with maintenance or instructions.

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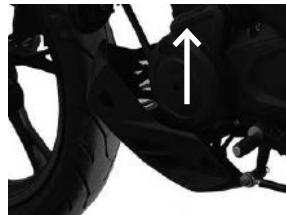
1. Vehicle Identification Number (VIN) and engine number.



- 1.**
The Vehicle Identification Number (VIN) is stamped on the right side of the steering column.



- 2.**
The identification plate is riveted to the left side of the steering column.



- 3.**
The engine number is stamped on the upper left side of the engine casing.

2. Component locations

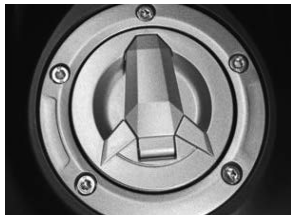
1. Headlight
2. USB Connection
3. Ignition lock
4. Fuel tank cap
5. Air filter
6. Battery
7. Tools
8. Fuses
9. Rear light
10. Number plate light
11. Rear indicators
12. Silencer
13. Passenger footrest
14. Rear brake fluid reservoir
15. Rear brake pedal
16. Oil level dipstick
17. ABS module
18. Horn
19. Front indicators
20. Clutch lever



21. Left handlebar switch (M and S buttons, lights, horn, indicators)
22. Instrument panel
23. Camera
24. Front brake fluid reservoir
25. Right handlebar switch (Run-off, start, warning)
26. Throttle
27. Front brake lever
28. Seat lock
29. Coolant expansion tank
30. Electronic fuel injection (EFI) unit
31. Gear shift lever
32. Side stand

3. Fuel and fuel tank cap

Unleaded petrol of 95 octane or higher must be used (fuel labelling E5 or E10 according to directive 2014/94/EU). To open the cap, lift the protective tab covering the lock, turn the key to the right and the cap will open. To close the cap, lower the tab and press down.



CAUTION:

1. Please switch off the engine when refuelling. Place the motorcycle on the central stand and remove the fuel tank cap. Keep away from any open flames.
2. Fill up only until the fuel reaches the lower edge of the filler neck. Overfilling may cause spillage, which could result in fire and/or damage to the vehicle.
3. Do not clean the fuel tank cap area with high-pressure water, as water could enter the tank.
4. Using leaded petrol will damage the catalytic converter in the exhaust system.

4. Use of the ignition switch

Position	Specifications
 ON position	Turn the key to this position to switch on the ignition. The key cannot be removed.
 OFF position	Turn the key to this position to cut off the power supply. The engine stops and the key can be removed.
 Steering lock	The steering is locked in this position. The motorcycle cannot be operated and the key can be removed.

4. Use of the ignition switch

To lock:

Turn the handlebars fully to the left and insert the ignition key into the lock. Press down and turn the key anticlockwise. Once this is done, the steering will lock. Remove the key.

To unlock:

Simply turn the key clockwise.



NOTE:

Park the motorcycle in a safe place and lock the steering to make the motorcycle more difficult to steal.

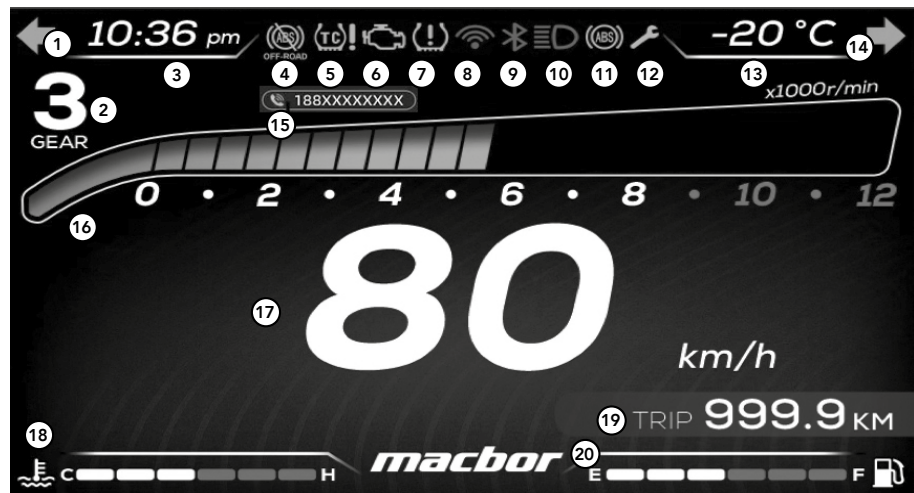
WARNING:

1. Never turn the ignition key while riding the motorcycle. Turning the key to the "OFF" position switches off the electrical system and could result in a loss of control of the vehicle or an accident.
2. Only turn the ignition key to "OFF" after the motorcycle has come to a complete stop.

CAUTION:

1. If the ignition key is left in the "ON" position for a prolonged period with the engine off, the battery may discharge and this could affect the motorcycle's ability to start.

5. Instrument panel indicators



Name	Function
1. Left indicator	Indicates that the left turn indicators are operating.
2. GEAR position indicator	Displays the selected gear (N, 1st to 6th gear).
3. Clock	Displays the time.
4. Rear wheel ABS deactivated	It lights up when the rear wheel ABS is deactivated. At the same time, the ABS warning light will flash. Deactivation of the ABS function is temporary and is only available in Off-Road mode. When the vehicle is switched off and then on again, the previously deactivated ABS function is automatically reactivated.

5. Traction Control (TCS)

When the TCS function is deactivated, this area remains blank. When the TCS function is activated, the "TC!" warning light appears. It remains lit until the vehicle exceeds 5 km/h. The self-check is then completed and the display changes to "TCS", indicating that the TCS function is operating normally. If the "TC" icon appears, it indicates a fault in the TCS system. Contact a MACBOR dealer.

NOTE: If the vehicle becomes stuck in a low-traction area (mud) and the rear wheel spins continuously without gaining traction, the TCS function will automatically deactivate after a certain period for safety reasons and the instrument panel will display the "TC" fault indication. When the vehicle is switched off and then on again, the TCS function will be reset.

6. "OBD" (check engine) warning light	When the vehicle is started, the warning light comes on and the fuel pump operates for 3 seconds. When the engine is started, the warning light turns off, indicating that there are no issues. If it remains on while the engine is running, this indicates a fault in the fuel injection system. Contact a MACBOR dealer.
7. Tyre pressure warning light	The warning light comes on when the tyre pressure is abnormal.
8. Wi-Fi connection	Lights up after establishing a Wi-Fi connection with a mobile phone.
9. Bluetooth connection	Lights up after establishing a Wi-Fi connection with a mobile phone
10. High beam	Indicates that the high beam is on.

11. ABS warning light	When the vehicle is started, the warning light remains on until the vehicle exceeds 5 km/h, after which the self-check is completed and the warning light goes out. If it remains on or flashes continuously while riding, this indicates a fault in the ABS system. Contact a MACBOR dealer.
12. Maintenance	Indicates the need for regular maintenance. It first lights up at 1000 km, then at 5000 km, and every 5000 km thereafter (11,000, 15,000, etc.).
13. Ambient temperature	Displays the current ambient temperature in °C.
14. Right indicator	Indicates that the right indicators are operating.
15. Incoming/outgoing call display	Displays information about incoming and outgoing calls if a Bluetooth connection has been established between the instrument panel and a mobile phone. Press the "Select" button to answer an incoming call and the "Enter" button to end the call. Both buttons are located on the left switch.

16. Tachometer (rpm)	Shows engine speed in revolutions per minute.
17. Speedometer (km/h–mph)	Displays the vehicle's speed. Units can be switched between kilometres and miles.
18. Engine/coolant temperature	Indicates engine coolant temperature. "C" means cold engine, "H" means hot engine.
19. "ODO" - "TRIP" (km-miles)	Briefly press the "Select" button on the left-hand handlebar switch to toggle between "ODO" and "TRIP". "ODO" indicates the total distance travelled and "TRIP" indicates the trip distance. Units can be switched between kilometres and miles. While in "ODO", press and hold the "Select" button to reset the trip distance to zero.
20. Fuel level	Indicates the fuel level in the tank. "F" = Full and "E" = Empty. If "E" flashes, the fuel level is very low and refuelling is required.

CAUTION:

1. When the maintenance indicator comes on, contact an authorised Macbor service centre to perform the scheduled tasks and reset the warning.
2. If the ABS warning light turns on, contact an authorised Macbor service centre.
3. If the OBD warning light comes on, stop the engine immediately and contact an authorised Macbor service centre.
4. Avoid prolonged high-speed riding (keep the tachometer needle out of the red zone) to prevent engine damage.

6. Operation of buttons and settings

All functions described below must be carried out with the ignition in the ON position. The left-hand handlebar switch contains the ENTER and SELECT buttons, which are used to operate the instrument panel.

Use of the ENTER button:

Its main function is to confirm a menu option. Press it briefly to access the MY VEHICLE and SETTINGS selection screen. Press and hold it to go directly to the screen for establishing the Wi-Fi connection between the instrument panel and the app (called CARBIT RIDE on this model) for mirroring (displaying your mobile phone on the instrument panel) and to scan the QR code. While in a menu, press and hold the button to exit the menu and return to the instrument panel's main screen.

Use of the SELECT button:

Its main function is to allow the selection of different options within a menu. From the instrument panel's main screen (the initial screen when the ignition is switched ON), the following functions can be performed:

- A brief press switches between ODO (total kilometres) and TRIP (trip kilometres).

- Press and hold while in TRIP to reset the trip distance to zero.
- Press and hold while in ODO to change the speed units between km/h and mph and the distance units between km and mi.

Resetting trip distance and MY VEHICLE data: As indicated above, this can be done using the SELECT button.

Changing units: Within the SETTINGS menu or via the SELECT button (as indicated previously).

Changing language: This can be done from the SETTINGS menu.

Adjusting the clock: This can be done from the SETTINGS menu.

Screen settings: This can be done from the SETTINGS menu.

Rear wheel ABS deactivation: This can be done from the SETTINGS menu.

Traction Control System (TCS) deactivation: Can be done from the SETTINGS menu

Tyre pressure sensor (TPMS) learning: This can be done from the SETTINGS menu.

Resetting maintenance warning: This can be done from the SETTINGS menu.

NOTE:

1. It is recommended that the maintenance warning be reset by an authorised Macbor service centre after the corresponding maintenance has been completed.

7. Instrument panel navigation

Once the ignition is switched ON and the main (initial) screen is displayed, briefly press the ENTER button to access the two main menus: MY VEHICLE and SETTINGS.



NOTE: The screens are shown with the two possible background modes: Dark mode and Light mode.

Briefly press the SELECT button to switch between MY VEHICLE and SETTINGS.

In MY VEHICLE, press and hold the ENTER button to display the next screen, which shows six parameters (in addition to fixed values such as speed, gear, time, rpm, etc.).

7. Instrument panel navigation



1. Average fuel consumption (L/100 Km)
2. Battery voltage (V)
3. Rear tyre pressure (KPa-Bar-psi)
4. Estimated range (km-mi)
5. Engine temperature (°C)
6. Front tyre pressure (kPa-bar-psi)

If you press and hold the ENTER button, you will return to the MY VEHICLE and SETTINGS screen. If you press and hold the ENTER button again, you will return to the main screen.

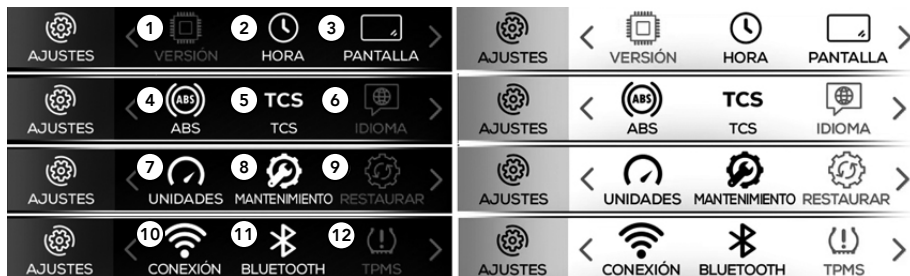
NOTE: If you remain on the MY VEHICLE and SETTINGS screen without doing anything for about 5 seconds, it will automatically return to the main screen.

7. Instrument panel navigation



From the MY VEHICLE and SETTINGS main screen, briefly press the SELECT button and select SETTINGS.

In SETTINGS, briefly press the ENTER button to display the next screen, where the different menus are displayed. Briefly press the SELECT button to cycle through the different menus.



The available menus or screens are:

1. VERSION
2. TIME
3. SCREEN
4. ABS

5. TCS
6. LANGUAGE
7. UNITS
8. MAINTENANCE
9. RESTORE
10. CONNECTION
11. BLUETOOTH
12. TPMS

Once in the desired menu, briefly press the ENTER button to enter that menu. Briefly press the SELECT button to navigate through the available options, and briefly press the ENTER button to confirm your selection. To exit this menu, press and hold the ENTER button.

NOTE: When the current menu or option is shown in white (white if the selected screen background is black, and black if the selected screen background is white), this indicates that it is the currently selected value.

NOTE: When the current menu or option is shown in red, this indicates that this value has been saved.

NOTE: If you are on a menu screen without doing anything for about 5 seconds, it will automatically return to the main screen.

Menu description

Main menu	Submenu	Description
VERSION	--	Displays the software and hardware versions of the instrument panel. This option is useful for authorised Macbor service centres. To exit this menu, press and hold the ENTER button. Alternatively, briefly press the SELECT button to navigate to the other main options (Time, Display, etc.).



Menu description

Main menu	Submenu	Description
TIME	12h or 24h	There are two options: 12h or 24h. To scroll through the options, briefly press the ENTER button. To confirm your selection, briefly press the ENTER button. To set the time, briefly press the ENTER button (the option will turn white*) and then briefly press the SELECT button to move to the first digit. Briefly press the ENTER button to make the digit blink. Use the SELECT button to increase or decrease the value. Briefly press the ENTER button to set the value. Use the SELECT button to move to the second digit and briefly press the ENTER button to make the digit flash. Use the SELECT button to increase or decrease the value, and briefly press the ENTER button to set the value. Repeat the above instructions for the remaining digits. Finally, press and hold the ENTER button to exit this menu (you will still be within SETTINGS), or wait 5 seconds without doing anything to return to the initial screen.



Menu description

Main menu	Submenu	Description
SCREEN	Mode or Brightness	There are two options. Mode or Brightness, which change the screen background and brightness. In the first option (Mode), the background can be set to light (white), dark (black) or automatic (the instrument panel light sensor will automatically switch between the two according to the ambient light conditions). In the brightness option, there are three levels and an automatic setting. The latter changes automatically according to the ambient light detected by the light sensor. Briefly press the ENTER button to enter the Mode function (it will turn white). Briefly press the SELECT button to enter the Brightness option (it will turn white). Within Mode or Brightness, once the option is shown in white, briefly press the ENTER button to select the different options. Once the desired option has been selected, briefly press the ENTER button and the option will be saved (highlighted in red). Finally, press and hold the ENTER button to exit this menu (you will still be within SETTINGS), or wait 5 seconds without doing anything to return to the initial screen.

NOTE: *White if the wallpaper used is black.

NOTE: It is recommended to use the automatic settings.

Menu description

Main menu	Submenu	Description
ABS	Off road o Road	Sets the ABS operating status. There are two options: Off Road (ABS deactivated on the rear wheel) and On Road (ABS active on both wheels). Briefly press the ENTER button to access the previously saved function (it will turn white). Briefly press the SELECT button to switch to the other option (it will turn white). Within Off Road, briefly press the ENTER button and then briefly press the SELECT button to select the ABS deactivated option. Press and hold the ENTER button to activate the Off Road option and return to the initial screen.

NOTE: *White if the wallpaper used is black.

NOTE: If you wish to change the ABS mode, you must do so while the vehicle is stationary.

NOTE: If Off Road mode is selected, the ABS deactivated icon will be displayed on the main screen.

NOTE: Once the ignition is switched OFF, the ABS mode will always revert to Road (ABS active on both wheels).

Menu description

Main menu	Submenu	Description
TCS	TCS activated, TCS deactivated, and TCS always deactivated	Sets the operating status of the Traction Control System (TCS). There are three options: TCS activated, TCS deactivated (temporarily), and TCS always deactivated (permanently). Briefly press the ENTER button to access the previously saved function (it will turn white). Briefly press the SELECT button to switch to the other options (they will turn white*). Within the desired option, briefly press the ENTER button to memorise that option. Finally, press and hold the ENTER button to exit this menu (you will still be within SETTINGS), or wait 5 seconds without doing anything to return to the initial screen.

NOTE: *White if the wallpaper used is black.

NOTE: If you wish to change the TCS mode, you must do so while the vehicle is stationary.

NOTE: If TCS is deactivated, switching the ignition OFF will restore the TCS mode to TCS activated.

NOTE: If TCS activated is selected, the initial TCS test icon will not be displayed on the main screen.

Menu description

Main menu	Submenu	Description
LANGUAGE	English, Spanish, French, Portuguese, Italian, and German	There are six options. English, Spanish, French, Portuguese, Italian, and German. Briefly press the ENTER button to access the previously saved function (it will turn white*). Briefly press the SELECT button to switch to the other options (they will turn white). Within the desired option, briefly press the ENTER button to memorise that option. Finally, press and hold the ENTER button to exit this menu (you will still be within SETTINGS), or wait 5 seconds without doing anything to return to the initial screen.

NOTE: *White if the background used is black.

Menu description

Main menu	Submenu	Description
UNITS	Metric or Imperial	There are two options. Metric or Imperial. In the first option, kilometres are used as the unit of measurement, and in the second, miles are used. Briefly press the ENTER button to access the previously saved function (it will turn white). Briefly press the SELECT button to switch to the other option (it will turn white*). Within the desired option, briefly press the ENTER button to memorise that option. Finally, press and hold the ENTER button to exit this menu (you will still be within SETTINGS), or wait 5 seconds without doing anything to return to the initial screen.



NOTE: *White if the background used is black.

Menu description

Main menu	Submenu	Description
MAINTENANCE	--	Allows the maintenance reminder mileage to be reset. The reminder will appear at the first service (1,000 km), at the second service (5,000 km total), and for subsequent services every 5,000 km (10,000, 15,000, etc.). A confirmation message will appear. You must select the option YES or NO. Briefly press the ENTER button to select YES (it will turn white*). Briefly press the ENTER button again to confirm and the message "Maintenance deleted" will appear. After a few seconds, the display will return to the initial screen and the maintenance indicator will have been deleted. If you enter this menu by mistake, when the YES option is shown in white, briefly press the SELECT button to switch to the NO option (it will turn white). Press and hold the ENTER button to exit this menu (you will still be within settings) or wait 5 seconds without doing anything to return to the initial screen.

NOTE: *White if the background used is black.

NOTE: The maintenance warning should only be cleared after the corresponding service has been carried out by an authorised MACBOR service centre.

Menu description

Main menu	Submenu	Description
RESTORE	--	
		Allows you to restore the instrument panel to its factory settings. A confirmation message will appear. You must select the option YES or NO.
		Briefly press the ENTER button to select YES (it will turn white*). Briefly press the ENTER button again to confirm and the message "Factory settings restored" will appear. After a few seconds, the display will return to the initial screen and the maintenance indicator will have been deleted.
		If you enter this menu by mistake, when the YES option is shown in white, briefly press the SELECT button to switch to the NO option (it will turn white). Press and hold the ENTER button to exit this menu (you will still be within settings) or wait 5 seconds without doing anything to return to the initial screen.

Menu description

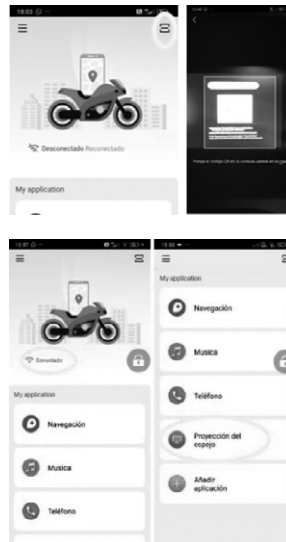
Main menu	Submenu	Description
CONNECTION	--	This option is used to connect a mobile phone to the instrument panel via Wi-Fi. The default navigation app is Carbit Ride, which can be downloaded from Android or iOS app stores. If you do not download the app from those sources, scanning the QR code displayed on the instrument panel for the first time will take you directly to the app download page. Once the app is installed on your mobile phone, scan the QR code using the scan function in the Carbit Ride app (top right corner) and establish the connection. Once paired (the app is connected and the Wi-Fi icon appears at the top of the instrument panel), the connection will be established. You will be able to use the Carbit Ride navigator (free of charge for a limited period only) and other functions, such as mirroring (projecting your mobile phone onto the instrument panel), and use applications such as the navigation app you normally use on your phone (Maps, etc.). Press and hold the ENTER button to exit this menu (you will still be within settings) or wait 5 seconds without doing anything to return to the initial screen.

NOTE: This connection option, in addition to being accessible from the SETTINGS menu, has a direct screen for accessing the instrument panel's Wi-Fi connection (pairing) with your mobile phone. To access it, switch the ignition ON and, from the main (initial) screen, press and hold the ENTER button.

7. Instrument panel navigation

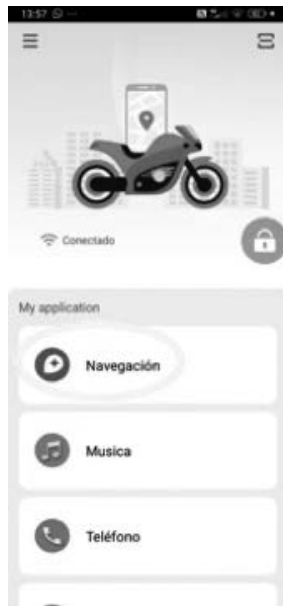
This image shows the QR code being scanned from within the Carbit Ride application.

The following image shows the app's connection status with the instrument panel (Connected) and the Mirror Projection button (for projecting your mobile phone onto the instrument panel).



7. Instrument panel navigation

This image shows the Navigation option button, which uses the application's own navigator (Carbit Ride).



7. Instrument panel navigation

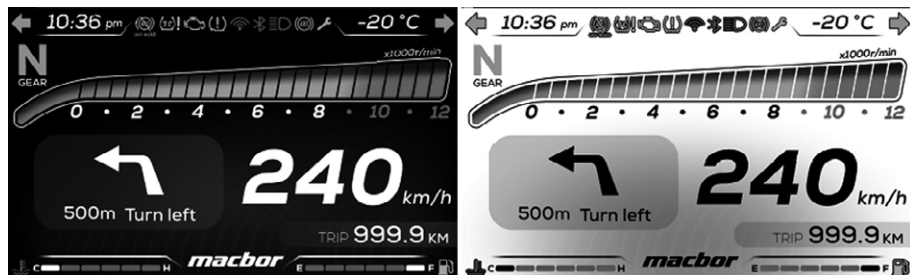
This image shows the Carbit Ride navigator on the instrument panel screen. Once the starting point and destination have been set, it will guide you along the route like any other navigator.



NOTE: The Carbit Ride navigator is free only for a limited period (screen mirroring is not time-limited).

7. Instrument panel navigation

Within the Carbit Ride application, the Navigation button gives access either to full-screen navigation (described on the previous page) or to Simple Navigation, which uses arrows to guide you to your destination.



Menu description

Main menu	Submenu	Description
BLUETOOTH	--	This option allows your mobile phone to be connected to the instrument panel via Bluetooth (with or without the Carbit Ride navigation app). Once this pairing is made, messages and incoming calls from the mobile phone will be displayed. To pair the devices, Bluetooth must be switched ON. Briefly press the ENTER button to select ON (it will turn white*). Briefly press the ENTER button again to confirm and a name such as Macbor-025544 will appear. Enable Bluetooth on your mobile phone and search for the instrument panel's Bluetooth name. Once the pairing is established, the blue Bluetooth icon will appear at the top of the instrument panel. Press and hold the ENTER button to exit this menu (you will still be within settings) or wait 5 seconds without doing anything to return to the initial screen.

NOTE: *White if the wallpaper used is black.

NOTE: Use the SELECT button to answer an incoming call and the ENTER button to reject or end the call.

Menu description

Main menu	Submenu	Description
TPMS	Units, front and rear	This option allows you to set the units displayed by the tyre pressure sensors (bar, kPa and psi), view the identification codes of each pressure sensor and pair the tyre pressure sensors. This last function is only used when a tyre pressure sensor is replaced or has become unpaired. Briefly press the ENTER button to select the Units option (it will turn white*). Briefly press the ENTER button again to confirm. Select the units by briefly pressing the SELECT button. Once the desired unit is displayed, briefly press the ENTER button. Each tyre should display a 12-digit code (letters and numbers), for example AC2025800098. Conversely, if it shows "unpaired", that sensor is not reporting the tyre pressure. If the Units option is shown in white, briefly press the SELECT button to select either the front or rear tyre. Briefly press the ENTER button to confirm the tyre selection. Next, press and hold the ENTER button and the pairing message will appear. At this point, inflate the tyre until the 12-digit code appears. Press and hold the ENTER button to exit this menu (you will still be within settings) or wait 5 seconds without doing anything to return to the initial screen.



NOTE: *White if the selected screen background is black.

NOTE: It is recommended that the sensors be paired by an authorised Macbor Technical Service.

NOTE: The tyre pressure sensors send information to the instrument panel only when the wheels are moving. Therefore, if the vehicle is stationary, it is normal for the tyre pressure values not to be displayed on the MY VEHICLE screen.

8. Left and right handlebar switch

Name	Function
High beam button 	Activates the high beam in this position.
Low beam button 	Activates the low beam in this position.
Flash-to-pass button 	While pressed, the high beam flashes to alert drivers ahead when overtaking.
Indicator button 	Move the switch to the left or right to activate the indicators.
Horn button 	Activates the horn when pressed.
ENTER button	Short or long presses perform different functions in the instrument panel.
SELECT button	Short or long presses perform different functions in the instrument panel.

Engine stop button

Set as  to stop the engine,  to enable engine start.

Start button

Press to activate the electric start system.

Hazard warning button

Press to activate all 4 indicators.

8. Left and right handlebar switch



Left handlebar switch.



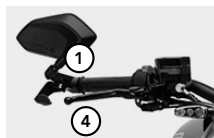
Right handlebar switch.

CAUTION:

1. Do not overuse the electric starter. When starting the motorcycle, do not press the starter button for more than 5 seconds at a time. Wait at least 10 seconds before trying again.
2. If the engine does not start after several attempts, contact an authorised Macbor dealer to check the system.

9. Operating the controls

1. Throttle	Allows the engine speed to increase or decrease
2. Gear shift pedal	Used to select any of the 6 gears, including neutral. Close the throttle before changing gear.
3. Clutch lever	Fully pull the clutch lever when changing gear.
4. Front brake lever	Press to operate the front brake system.
5. Rear brake pedal	Press to operate the rear brake system.



CAUTION:

1. This motorcycle uses a manual clutch. To start the engine, if the gear selector is not in the neutral "N" position, shift it to that position. If this is not possible, hold the clutch lever fully while pressing the start button to start the engine.
2. If the clutch slips (engine revs increase but the bike does not move) or does not disengage fully, we recommend taking the motorcycle to a Macbor service centre.
3. Brakes are essential for safety. Regular maintenance is required to ensure safe riding. We recommend having your motorcycle serviced regularly by an authorised Macbor centre.

WARNING:

1. Be especially careful when braking on low-traction surfaces such as wet asphalt, dirt or gravel. Sudden braking and wheel lock can cause a fall.

10. Pre-ride inspection

To ensure your safety, perform a general inspection every day before riding. Check:

No.	Item	Inspection
1	Fuel system	Fuel level and possible fuel leaks.
2	Engine oil	Oil level. It must never be below the minimum mark. Add oil if necessary to return to the correct level.
3	Cooling system	Coolant level. The expansion tank must not be below the minimum mark. Add coolant if necessary to top up to the correct level. Only top up when the engine is completely cold.
4	Clutch lever	Must engage and disengage smoothly.

10. Pre-ride inspection

5	Gear shift pedal	Check that the lever moves freely to change gear.
6	Throttle	Check smooth operation and free play (2 to 6 mm).
7	Steering	Handlebar must turn freely in both directions.
8	Drive chain	Ensure that it is lubricated and that the free play is between 28 and 35 mm.
9	Tyres	Check pressure and wear.
10	Lights/Indicators	Check the condition of all lights and indicators.
11	Brakes	Check for wear and braking efficiency.
12	Side stand	Check for deformation and correct return movement.
13	Bolt and nut tightness	Check that all key bolts and nuts are secure.

NOTE:

1. Inspect and maintain your motorcycle at a Macbor service centre. Perform the tasks shown in the maintenance schedule: first at 1,000 km, then every 5,000 km.

2. The vehicle warranty does not cover damage caused by engine over-revving due to misuse or by insufficient engine oil and/or coolant.

11. Starting and warm-up

When using the electric starter, each attempt should not exceed 5 seconds, and the interval between attempts should not be less than 10 seconds. If the engine does not start after 3 attempts, check the motorcycle. Follow these steps for cold starting and warm-up:



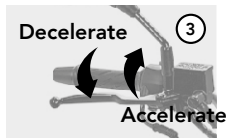
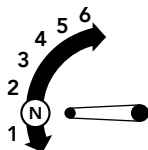
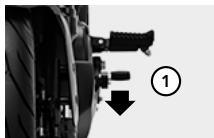
1. Turn the ignition switch key to the "ON" position. Put the gear in neutral "N".
2. Press the electric start button with your right thumb without twisting the throttle.
3. Once the engine is running, warm it up at idle for 3 to 5 minutes.
4. Do not rev the throttle excessively until the warm-up is complete.

CAUTION:

1. When starting, make sure the gear is in neutral or pull the clutch lever. If the neutral "N" indicator does not light up while the gear selector is in that position, take the motorcycle to an authorised Macbor service centre for inspection.
2. If the engine does not start, wait a few minutes to protect the battery before trying again. Do not hold the start button for more than 5 seconds per attempt.
3. When starting from cold, it is not advisable to operate the throttle while pressing the start button, as this may make starting more difficult by weakening the air/fuel mixture.
4. To extend engine life, let the motorcycle run for 3–5 minutes after a cold start. Do not ride at high speed during this period.
5. Idle speed is not adjustable. It is controlled by the electronic control unit (ECU). If the idle speed is incorrect, take the motorcycle to an authorised Macbor service centre for inspection.

12. Riding the motorcycle

1. After starting the engine and allowing it to warm up, raise the side stand. Pull in the clutch lever (2) and press the gear pedal (1) down with your left foot to shift into first gear.
2. Twist the throttle grip (3) slowly in the accelerating direction while gradually releasing the clutch lever so that the motorcycle begins to move. After fully releasing the clutch lever once the motorcycle reaches a certain speed, shift to a higher gear.



NOTE:

1. The engine is equipped with a 6-speed gearbox that operates as shown in the diagram. To change gear properly, pull in the clutch lever and decelerate. Each time a gear is selected, the gear lever returns to its original position, ready for the next gear change. Push upwards to increase the gear (2nd, 3rd, etc.) and downwards to decrease it (4th, 3rd, etc.). Neutral is located between 1st and 2nd gear.

CAUTION:

1. If the clutch slips or does not disengage fully, the motorcycle must not be ridden.

WARNING:

1. Before riding, the rider must wear protective gear (helmet, gloves, goggles, protective clothing, etc.).
2. Never twist the throttle or release the clutch suddenly when accelerating.

13. Breaking in new vehicles

After purchasing a new vehicle, users must pay close attention to how it is ridden. The first 1,000 km is the running-in period. Use the odometer as a reference. Running in is very important for a new engine and directly affects its lifespan. During the first 1,000 km, keep engine speed below 6,500 rpm in all gears and always ride at a suitable speed.

Once the running-in period is complete, carry out the scheduled maintenance to ensure future performance and durability. Change the engine oil at the recommended intervals. If the engine malfunctions during the breaking-in period, contact your dealer or an authorised Macbor service centre.

14. Safe riding guide

1. **Riding on slopes.**

When riding uphill or downhill on mountain roads, change gear appropriately and avoid overloading the engine.

1.1. When climbing steep slopes, use lower gears to increase engine torque. Shift quickly to prevent the engine from stalling.

1.2. When riding downhill, use higher gears to prevent the engine from overheating. Control engine speed and avoid staying in neutral for long periods while descending without using the throttle.

2. **Things to look out for when riding on wet or slippery roads (rain or fog).**

Rain and fog reduce visibility and tyre grip, increasing the risk of accidents. Follow these safety tips:

2.1. Maintain a steady speed. Do not accelerate or brake suddenly. Do not use worn tyres. If tyre wear exceeds 2 mm, reduce speed and avoid sudden braking.

2.2. Ride at low speed on slippery roads and avoid sudden starting, accelerating, braking or turning.

3. **Things to look out for when riding on icy or snowy roads.**

If riding on icy or snowy roads, fit chains to the wheels or use anti-skid tyres.

- 3.1 Ride at low speed. Do not accelerate, brake or turn suddenly. Slow down using the throttle grip, which will improve brake efficiency. Do not press hard on the brake pedal to brake.
- 3.2. When cornering, reduce speed and turn the handlebars gently. Do not ride at high speed.

4. Points to note when riding and braking.

The higher the speed, the longer the braking distance. Therefore, use the brakes in line with the motorcycle's speed.

4.1. Rain and fog reduce visibility and tyre grip, making it harder to control the steering and brakes. Therefore, reduce speed on rainy or foggy days. When riding through tunnels or mountain passes or overtaking other vehicles at high speed, crosswinds may affect the motorcycle. In these cases, control your speed to avoid unexpected jolts. To brake, first apply the rear brake and then the front, controlling your speed.

4.2. Place the tips of your fingers on the front brake lever and the tip of your foot on the brake pedal (without pressing them) to reduce reaction time and avoid accidents while riding. After washing the motorcycle, ride at low speed and apply the brakes intermittently to dry them. Clean the brakes (with water only or with suitable products) after riding on muddy roads to avoid damaging them.

4.3. When riding down a steep or long slope, do not hold the brake pedal down for too long or brake too often, as this may cause the brakes to overheat or reduce their effectiveness (fading). Brake the motorcycle according to real conditions. Do not ride at high speed on wet or rainy roads.

5. Points to note on exhaust gas emissions and pollution.

Do not inhale exhaust fumes as they contain CO, which is harmful to health. Make sure the exhaust gases are flowing freely and unobstructed, which helps with emission. Inspect the exhaust silencer for leaks and ensure that exhaust gases are exiting from the end of the exhaust pipe.

WARNING:

1. Avoid inhaling exhaust gases.
2. Do not start or ride the motorcycle in garages or other enclosed spaces.

CAUTION:

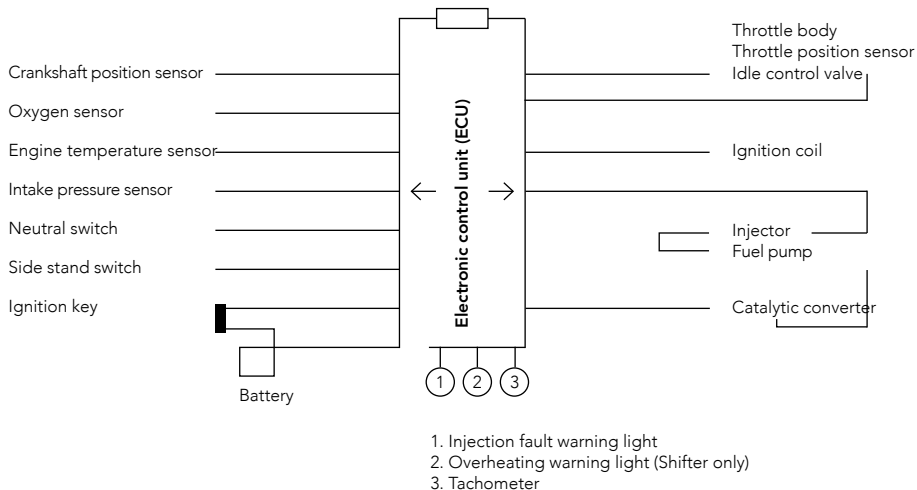
1. Using leaded petrol will irreversibly damage the catalytic converter in the exhaust system.

15. Electronic fuel injection system (EFI)

Your motorcycle is fitted with an Electronic Fuel Injection system (EFI), which atomises the fuel and then directs the air-fuel mixture to the combustion chamber. This system is composed mainly of an electronic control unit (ECU), injector, throttle body, pressure/air temperature sensor, throttle position sensor, crankshaft position sensor, oxygen sensor, fuel pump, idle control valve and ignition coil.

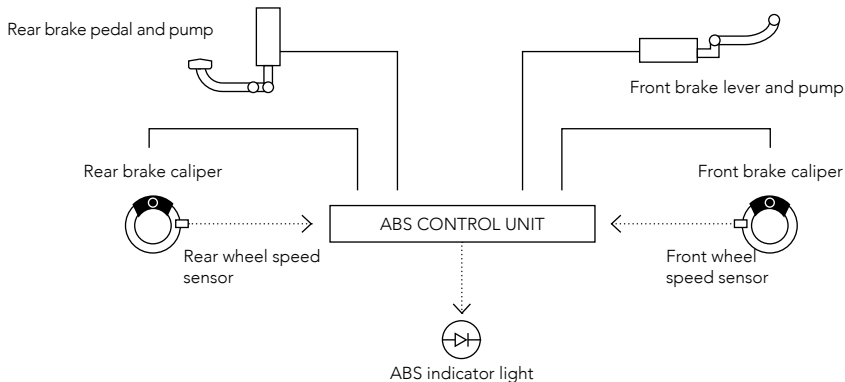
(Diagram on next page)

15. Electronic fuel injection system (EFI)



16. Anti-lock braking system (ABS)

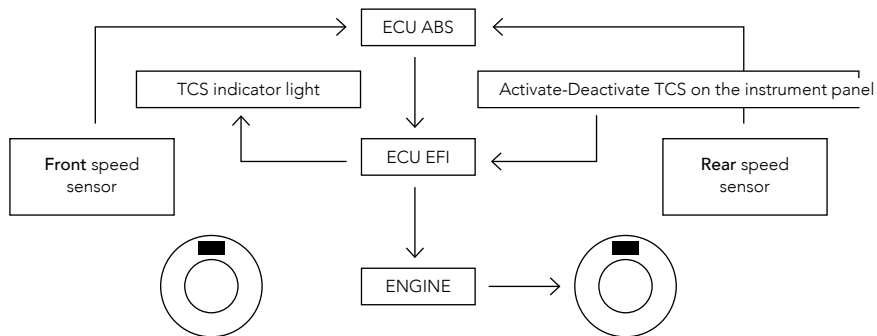
The ABS (Antilock Brake System), as the name suggests, is designed to prevent the wheels from locking during sudden braking or on low-grip surfaces such as wet roads.



17. TCS System

Traction Control Systems (TCS), as the name suggests, is used to control the engine's output torque to avoid or reduce rear wheel slippage when the motorcycle starts or accelerates, in order to maintain directional stability.

If the ABS unit (ABS ECU) detects via the wheel speed sensors that the speed difference between the rear and front wheel is too great, and sends a signal to the fuel injection control unit (EFI ECU), which immediately determines that the traction force is excessive, and instantly reduces engine torque by adjusting the ignition angle or cutting off the fuel supply, thereby reducing traction and lowering the rear wheel's slip rate.



When the ignition is switched ON and the instrument panel completes its initial test, the TCS indicator will remain lit. It will turn off as soon as the vehicle starts moving and exceeds 5 km/h.

If the TCS system activates while riding, the TCS warning light will flash on the instrument panel to indicate that it is operating.

Your motorcycle is equipped with the option to deactivate the TCS system via the dedicated menu on the instrument panel.

To deactivate it, follow the instructions in Chapter 7. Once the ignition is switched ON, wait until the instrument panel completes the initial test. From the main screen, press the TCS button for 5 seconds. Upon release, you will see the TCS indicator with a strike-through line inside it, indicating that the system is deactivated.

NOTE:

1. The TCS system is factory-set so that once it has been deactivated and the ignition key is turned to OFF, the next time the key is turned to ON, the system will remain active. You will need to repeat the previous procedure to deactivate it again.
2. Deactivating the TCS system is not recommended unless it is for a very good reason, such as being unable to move off due to the rear wheel being on a surface with low grip (mud, gravel, etc.). If riding with the system deactivated, be aware that the rear wheel may skid on low-adhesion surfaces.

18. Front camera

Your motorcycle is fitted with a front camera, which records continuously from the moment the ignition key is turned to ON and will not stop recording until the key is turned to OFF. The camera is controlled via a dedicated unit installed on the motorcycle (behind the right-hand side cover). The SD card is located inside it.

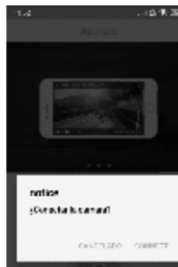


You must install an app on your smartphone to manage the recorded footage. The app is called Roadcam.

This app can be downloaded directly from the usual sources, such as Google Play Store (Android) or the Apple App Store (iOS).



The application allows you to view what the camera is capturing directly on your smartphone, take screenshots and manage the files (view, download and delete photos or videos recorded on the microSD card without having to remove it). The app communicates wirelessly via Wi-Fi with the unit that controls the camera. To do this, switch on Wi-Fi on your smartphone and search for a unit named MTXXXXX. Once you have located it, use the password 12345678 to pair the devices.



NOTE:

1. The Roadcam app is available free of charge for a limited period.

19. USB ports

Your motorcycle is equipped with USB Type-A and Type-C ports, which allow you to charge devices. These ports are located in the handlebar area. To access them, you must remove the protective covers that shield them from external elements (water, dust, etc.).

It is very important to replace the protective covers after use. The specifications of these ports are 5 V and a maximum output of 2000 mA (2 A).



20. Maintenance table

Items to check	Odometer km reading					
	1st Serv. At 1,000 km (odo)	2nd Serv. At 5,000 km (odo) and every 5,000 km thereafter	3rd Serv. At 10,000 km (odo) and every 10,000 km thereafter	4th Serv. At 15,000 km (odo) and every 15,000 km thereafter	5th Serv. At 20,000 km (odo) and every 20,000 km	Annual service
1. Engine air filter*		C	R: every 10,000 km or 1 year			I
2. Strainer (internal engine mesh) oil filter				C: every 15,000 km		
3. Oil filter (Centrifugal)				C: every 15,000 km		
4. Engine oil*#	R	R	R: every 5,000 km or 1 year			R
5. Engine oil level	I: every 1,000km					
6. Emissions control system		I	I: every 5,000 km			
7. Spark plugs			R: every 10,000 km			

20. Maintenance table

8. Valve clearance			I: every 10,000 km			I
9. Idle speed	I	I	I: every 5,000 km			I
10. Hoses, clamps and radiator of the cooling system #		I	I: every 5,000 km or 1 year			I
11. Coolant#					R: every 2 years or 20,000 km	I
12. Coolant level	I	I: every 1,000 km				I
13. Fuel system/hoses#	I	I	I: every 5,000 km or 1 year			I
14. Sprocket/Crown/Drive chain*	I/G: every 500km					I
15. Brake operation	I	I	I: every 5,000 km			I
16. Brake fluid#					R: every 2 years or 20,000 km	I
17. Brake fluid level	I	I	I: every 5,000 km			I
18. Brake hoses		I	R: every 4 years or 40,000 km			I
19. Brake discs/pads*	I	I	I: every 5,000 km			I
20. Front/rear suspension operation***	I	I	Front suspension oil R: every 2 years or 20,000 km			I

20. Maintenance table

21. Wheels and tyres#	I	I	I: every 5,000 km or 1 year			I
22. Tyre pressure	I	I: every 1,000 km				I
23. Steering column bearings	I		I		G: every 20,000 km	I
24. Shafts, joints and cables	G	G	G: every 5,000 km			G
25. Throttle function	I	I	I: every 5,000 km			I
26. Clutch function	I	I	I: every 5,000 km			I
27. Bolt and nut tightness	I	I	I: every 5,000 km			I
28. Side stand	I/G	I/G	I/G: every 5,000 km			I/G
29. Electrical system	I	I	I: every 5,000 km			I
30. EFI/ABS system fault code reading	I	I	I: every 5,000 km			I

I: Inspect and/or adjust. Replace if necessary.

C: Clean Replace if necessary.

R: Replace

G: Grease

Odo: Kilometres read on the instrument panel.

NOTE: First service at 1,000 km total mileage, second service at 5,000 km total mileage (4,000 km after the first), and the third and subsequent services every 5,000 km.

- *: Increase service frequency when riding in adverse conditions, such as dust, humidity, mud, etc.
- #: Service the motorcycle annually or at the indicated odometer intervals, whichever occurs first.
- **: When the total kilometres read on the instrument panel exceed those shown here, repeat the maintenance work for the corresponding interval.
- ***: It is recommended that the front suspension oil be changed every 2 years.

IMPORTANT:

Check tyre pressure, oil level, and coolant level every 1,000 km. Engine overheating caused by running with low oil and/or coolant levels is not covered by the warranty.

Requirements to keep the warranty valid:

The maintenance plan must be carried out at Macbor authorised service centres. Unauthorised personnel may not make adjustments or repairs. The maintenance plan must be followed using original parts and oil recommended by Macbor. If the mileage indicated for services is not reached, an annual service is required.

Recommendations:

Request a detailed invoice for the services carried out by the official Macbor service centre. Ask the official Macbor service centre to record the vehicle's service history on the Macbor website.

21. Engine oil inspection and replacement

1. Inspection

- A. Position the motorcycle upright on a firm, level surface.
- B. Start the engine and let it warm up for a few minutes.
- C. Stop the engine and let the oil settle for a few minutes. Keep the motorcycle upright, as any tilt will result in an incorrect reading.
- D. Remove the dipstick (1) and clean it. Insert it into its housing without screwing it in and check whether the oil level is below the minimum mark. If so, add oil until the level is between the minimum and maximum marks.
- E. Screw the dipstick into the engine.

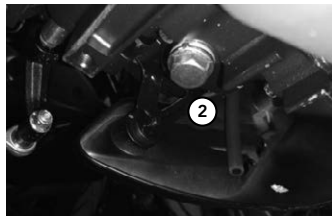


2. Replacement (oil change only)

Replace the engine oil regularly.
Please follow the steps below:



- A.** Position the motorcycle upright on a firm, level surface.
- B.** Start the engine and let it warm up for a few minutes.
- C.** Stop the engine.
- D.** Before draining the oil, place a container under the engine and then remove the drain plug (2).
- E.** Remove the dipstick (1) to facilitate oil drainage.
- F.** Once all the oil has been drained, fit the plug (2) with a new sealing washer and tighten it to 45 N·m (4.5 kg·m).
- G.** Add 1 L of engine oil that meets SAE 10W40 or API SJ specifications.
- H.** Follow the inspection process described above to finish adjusting the oil level.



3. Replacement (oil change and oil filter cleaning)

Replace the engine oil and regularly clean the oil filters (mesh and centrifugal) as indicated in the maintenance table.

This engine is equipped with internal oil filters located behind the right side cover of the engine, which can be cleaned.

One is a mesh filter (1) and the other is a centrifugal filter (2). Once the engine oil has been drained, remove all the screws securing the right-hand engine cover and then remove the cover itself to gain access to both filters.



- A. Once the filters have been cleaned, fit the drain plug and tighten it to 45 N.m (4.5 kg).
- B. Fit the right engine cover (with a new gasket) and secure it with the 12 screws.
- C. Add 1 L of engine oil that meets SAE 10W40 or API SJ specifications.
- D. Follow the inspection process described above to finish adjusting the oil level.

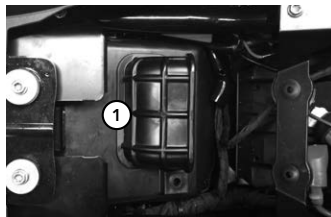
CAUTION:

1. Cleaning the oil filters requires a certain level of technical knowledge, so it is recommended that this operation be carried out only by an authorised Macbor service centre.
2. When refitting the right-hand engine cover, a new engine cover gasket must be fitted.

22. Air filter cleaning

A dirty air filter will reduce power, increase fuel consumption, and make the fuel mixture richer. Therefore, inspect, clean and replace the filter regularly.

1. Insert the ignition key into the seat lock and turn.
2. Remove the seat to gain access to the air filter cover (1).
3. Remove the screws securing the air filter box cover. You will need to remove the fuel tank to access the front screws of the cover.
4. Remove the filter from the air filter box.
5. Clean or install the new filter.
6. Refit the air filter cover and tighten the screws.
7. Refit the fuel tank and the seat.



CAUTION:

1. Fit the filter in the correct position. If you regularly ride in dusty areas, reduce the maintenance interval for the air filter.
2. Do not clean the filter with: petrol, solvents or diesel.
3. Do not start or ride the motorcycle until the filter is installed.
Otherwise, this will cause wear to the piston, piston rings and cylinder.
4. Clean, service or replace the filter periodically at an authorised Macbor service centre.

23. Inspection and adjustment:

23.1. Spark plug

23.2. Hydraulic brake system

23.3. Coolant

23.4. Wheels and tyres

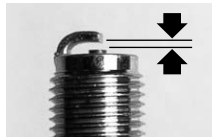
23.1. Spark plug

1. Inspection

- A. Remove the cap and then the spark plug.
- B. Grey or whitish deposits on the spark plug indicate an overheated engine. This may be because the heat range of the plug is too low or the mixture is too lean (not enough fuel).
- C. If the spark plug electrode is blackened or there are carbon deposits, this indicates a rich mixture (not enough air). Clean the air filter.
- D. If the spark plug electrode is brown, it means the engine combustion is correct.

2. Adjustment

- A. Clean any carbon deposits from the centre electrode using a non-metallic brush.
- B. Measure the spark plug gap with a feeler gauge and adjust it to the specified value (0.9 mm).
- C. Tighten the spark plug to the specified torque of 12–16 N·m (1.2–1.6 kg·m).
- D. Refit the spark plug cap.



0.9 mm

WARNING:

1. The engine is extremely hot after riding. Allow the vehicle to cool completely before removing the spark plug to avoid any damage.

CAUTION:

1. Use the recommended NGK LMAR8A-9 spark plug. Using an unsuitable spark plug may cause serious engine damage.
2. Have the spark plug inspected and adjusted at an authorised Macbor service centre.

23.2. Hydraulic brake system

Hydraulic brake system inspection

1. Check that the brake lever and pedal have the correct feel and travel.
2. Check the front brake fluid level.
3. Check the rear brake fluid level. The level must be between the "UPPER" (maximum) and "LOWER" (minimum) marks.
4. If the brake fluid level is below or close to the minimum mark, it indicates that the brake pads have reached their service limit and must be replaced.
5. Check the wear of the brake pads in the front and rear brake calipers. The brake pad wear limit is 2 mm. If this limit is reached or nearly reached, replace the brake pads.



CAUTION:

1. If the level is at the minimum and there is no apparent fluid loss, do not add brake fluid.
Take the motorcycle to a Macbor service centre to have the brake pads replaced.
2. Regularly inspect and adjust the brake system at a Macbor service centre.

CAUTION:

1. Recommended brake fluid: DOT4.

23.3. Coolant

1. Inspection

- A. Place the motorcycle upright on a firm, level surface.
- B. Check that the coolant level is between the "UPPER" (maximum) and "LOWER" (minimum) marks on the expansion tank.

2. Filling

- A. Add fluid through the expansion tank cap and do not remove the radiator cap.
- B. Remove the expansion tank cap and add coolant (minimum 50% antifreeze concentration).
- C. Make sure that no foreign objects enter the expansion tank.
- D. Do not add coolant above the "UPPER" mark.
- E. Refit the expansion tank cap.



3. Replacement

- A. Replace the coolant at a Macbor service centre unless you have the right tools and technical knowledge.

NOTE:

Coolant must be replaced every 2 years.

WARNING:

1. Removing the radiator or expansion tank cap when the engine is hot may cause coolant splashes and result in serious burns.
2. Always let the engine and radiator cool before removing the radiator or expansion tank cap.

CAUTION:

1. If the coolant level is frequently low or the expansion tank is empty, there may well be a leak. Have your motorcycle inspected at a Macbor service centre.
2. Use coolant suitable for aluminium radiators with a minimum antifreeze concentration of 50%.

23.4. Wheels and tyres

Inspection of wheels and tyres

1. High tyre pressure will reduce ride comfort and accelerate component wear.
2. Low tyre pressure will increase the rolling resistance of the wheel, increasing fuel consumption. If the wear is severe, the tyre will wear rapidly and become damaged.
3. The tyre has wear indicators (1) positioned around its circumference to allow the tread wear to be checked.
4. If the tyre valve is leaking, replace it. If the tyre is leaking, repair or replace it.
5. Check the condition of the wheel spokes. Take your motorcycle to an authorised Macbor service centre for inspection and adjustment.



	Pressure	
1 person	Front: 1.9 kg/cm ²	Rear: 2.1 kg/cm ²
2 people	Front: 1.9 kg/cm ²	Rear: 2.1 kg/cm ²
	Tyre wear limit	
Front	2.0 mm	
Rear	3.0 mm	

WARNING:

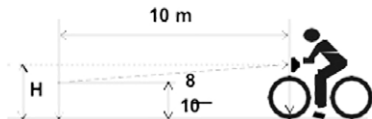
1. Over-inflated, under-inflated, worn, deformed or damaged tyres can make the motorcycle difficult to control and may even cause an accident.

24. Adjust the headlight beam.

You can adjust the headlight vertically to ensure correct beam alignment.

1. Inspection.

- A. Find a wall on which to project the headlight beam.
- B. Make a mark on the wall at height "H" (the distance from the ground to the centre of the headlight when seated on the motorcycle).
- C. Position the motorcycle 10 m away from the wall, measuring from the front wheel axle.
- D. Sit on the motorcycle.
- E. The correct headlight beam height is $\frac{8}{10} H$ (see illustration). If it is higher or lower, it must be adjusted.



NOTE:

Standard values: $H = 700 \text{ mm}$ | $\frac{8}{10} H = 560$

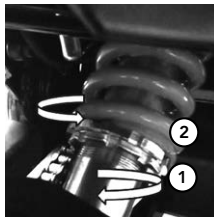
2. Adjustment

To adjust the headlight beam, turn the adjustment screw (1) located at the rear of the headlight on the right-hand side. If turned clockwise, the headlight beam height decreases; if turned anti-clockwise, it increases.



25. Rear suspension adjustment

The rear suspension of your motorcycle features an adjustable spring preload. The shock absorber spring has a factory preload setting of 6 mm. The preload adjustment range is 2 to 9 mm and can be adjusted according to your needs. To adapt the preload to new load conditions or road conditions, slightly loosen the locknut (1) by turning it anti-clockwise with the hook wrench, then loosen nut (2). To increase the spring preload (stiffen the suspension), turn nut (2) clockwise. To reduce it (soften the suspension), turn it anti-clockwise using the hook wrench. Once nut (2) is in the desired position, use the hook wrench to tighten locknut (1) by turning it clockwise.



CAUTION:

1. Do not turn the nuts beyond their stops (threaded onto the shock absorber body), as this may damage the preload setting.

NOTE:

1. Suspension adjustment requires a certain level of expertise, so we recommend contacting an authorised Macbor service centre to have it adjusted.

26. Adjustment of the front brake and clutch levers

Your motorcycle is equipped with front brake and clutch levers that can be adjusted to four positions to accommodate different hand sizes. Position 1 places the end of the lever furthest from the grip, and position 4 places it closest to the grip.

1. Adjustment

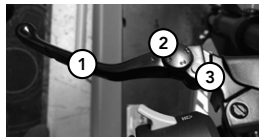
Press the lever (1) forward. Without releasing the lever, turn the adjusting wheel (2) in either direction until the desired number (position) aligns with the mark (3). Release the lever and check that it operates correctly.

NOTE:

1. Make sure it operates properly while wearing the gloves you normally use.

CAUTION:

1. Ensure that the brake lever does not touch the throttle grip when it is applied.



27. Cleaning and adjusting the drive chain

1. Cleaning

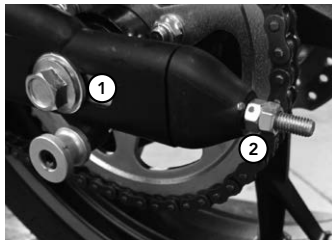
Clean dirt and mud from the chain with a brush and a cotton cloth and apply grease (clean and lubricate the chain at least every 500 km), or remove the chain and soak it in a suitable chain cleaner for 30 minutes. Then, clean it and let the chain dry. Finally, refit the chain and grease it.

2. Adjustment

Standard free play of the drive chain: 28mm - 35mm.

If it is less than the specified value, the chain will wear very quickly, may break, and may damage the gearbox bearings.





If the value is above standard, the chain will rub against the swingarm, create noise, and cause wear to the swingarm, drive sprocket and driven sprocket. In both cases the chain's free play must be readjusted. At the same time, check for wear on the drive and rear sprockets. If excessive, replace the whole set. Check that the free play is within the specified range. To do this, place the motorcycle on its side stand (engine off and transmission in Neutral) and measure the deflection between the chain and the swingarm. Carry out this check at several points along the chain by rotating the rear wheel.

To adjust the chain free play, place the motorcycle on the centre stand. Turn the rear wheel until you find the point where the free play is at its lowest. Then loosen the rear axle nut (1). Adjust the tensioners (2) located on each swingarm to achieve the specified free play. Check that the marks on the chain adjusters on both sides of the swingarm are aligned. Finally, tighten the rear axle nut to a torque of 90 N.m (9 Kg.m).

CAUTION:

1. If the adjuster marks are not aligned, the wheel will be misaligned, causing abnormal wear on the chain and on the drive and driven sprockets.

28. Cable adjustment

28.1. Throttle

28.2. Clutch

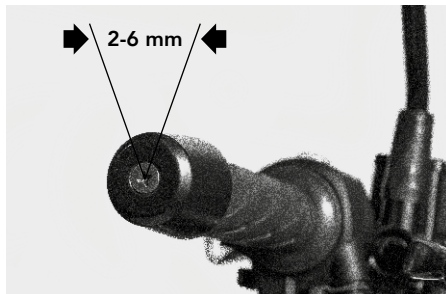
28.1 Throttle

Throttle cable adjustment

To adjust the throttle grip free play, adjust the throttle cable by turning the adjustment nut (2).



1. If the throttle grip free play is outside the standard range of 2–6 mm, adjust it (see page 93).
2. To adjust the free play: First, remove the dust boot from the cable closest to the front wheel. Loosen locknut (1).
3. After making the adjustment, without starting the engine, check that nothing interferes with the movement of the throttle grip when it is turned from its initial position to fully open. When releasing the throttle grip, it must return automatically to the starting position.
4. Start the engine and let it idle. Turn the handlebars from side to side, from one stop to the other. The engine should not accelerate.

**CAUTION:**

1. If the inner throttle cable is obstructed or worn, remove the throttle grip and the cable to clean or replace it and apply grease.

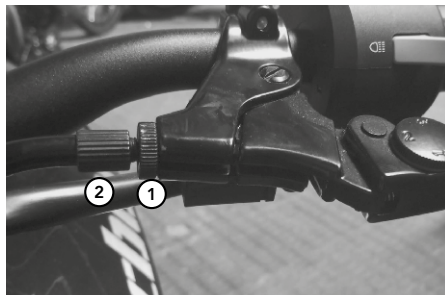
WARNING:

1. If you ride without properly adjusting the throttle grip free play and it does not return automatically to the rest position when released, it may cause an accident by not reducing engine speed.

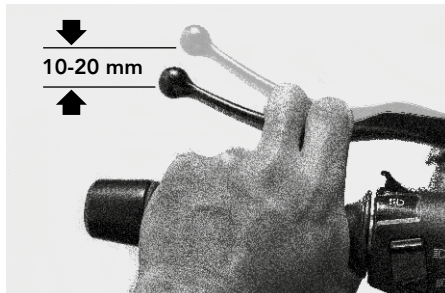
28.2. Clutch

Clutch cable adjustment

To adjust the clutch lever free play, adjust the clutch cable by turning the adjustment nut (2).



1. If the lever free play is above or below the standard limits of 10–20 mm, it needs to be adjusted.
2. To adjust the free play: First loosen the locknut (1), then turn the adjustment nut (2) until the free play reaches the standard value.



29. Battery

Check the condition of the battery regularly.

If the vehicle remains unused for more than 15 days, the battery will gradually discharge. Keeping the battery fully charged is the owner's responsibility. Failure to do so may cause the battery to fail and prevent the engine from starting. If you use the motorcycle infrequently, check the battery voltage weekly with a voltmeter. If the voltage falls below 12.0 V, use an electronic charger to recharge the battery.



CAUTION:

1. Have the battery checked periodically by an authorised Macbor service centre. Replace the battery if the terminals show sulphation or heavy deposits are visible underneath.
2. Charge the battery in a well-ventilated area away from fire. Stop charging when the electrolyte temperature exceeds 45 °C.
3. Take the used battery to a recycling centre as required by regulations. Discarded batteries are pollutants.
4. If you need to disconnect the battery, first remove the cable from the negative terminal. When reconnecting the battery, first connect the cable to the positive terminal.

NOTE:

1. The battery installed in the vehicle is a YTX7L-BS MF (12 V–6 Ah) type and does not require distilled water.

WARNING:

1. The battery contains electrolyte (diluted sulphuric acid); therefore, avoid contact with skin, eyes or clothing. Go immediately to hospital if electrolyte splashes onto your skin or into your eyes.

30. Replacing fuses

If the electric current exceeds the specified value, the fuse will blow to protect the battery and other electrical components. The fuses are located under the seat. There are four fuses, with the following ratings according to the model:

20A: Main fuse (POWER LOCK)

15A: Injection fuse (EFI)

15A: ABS fuse (ABS 1)

25A: ABS fuse (ABS 2)

The 15A, 20A and 25A side fuses are spare fuses.



CAUTION:

1. If the fuse blows, replace it with one of the same type (amperage). If it blows repeatedly, take your motorcycle to a Macbor technical service centre for inspection.
2. Replacing a fuse with one of higher amperage than specified is strictly forbidden, as is using a metal object or similar to bridge the terminals. This can cause serious damage to the vehicle's electrical system.
3. Always replace fuses with the motorcycle's ignition switch in the "OFF" position.

31. Horn adjustment

If the horn volume decreases, take your motorcycle to an authorised Macbor service centre to have the adjustment screw adjusted.



32. Cleaning and storage

1. Cleaning

- (1) Before cleaning the vehicle, cover the end of the silencer. Clean dust and dirt off with low-pressure water. Do not apply excessive pressure, as it could remove grease from some parts (e.g. steering bearings).
- (2) After washing the vehicle with water, dry the motorcycle and parts with a clean cotton cloth.
- (3) Lubricate the drive chain and moving parts.
- (4) Apply wax to the surface of painted parts and anti-corrosion oil to chromed parts.
- (5) Remove the silencer cap, start the motorcycle, and leave it idle for a few minutes.

2. Storage

- (1) If storing the vehicle long-term (over 60 days), clean it thoroughly first. Drain the fuel tank, the fuel line and spray anti-corrosion oil inside the fuel tank. Then, close the fuel cap.
- (2) Remove the spark plug, add 5 ml of 10W40 engine oil to the cylinder and reinstall the spark plug. Press the starter button several times so the lubricating oil spreads evenly throughout the combustion chamber, lubricating the cylinder walls. Reinstall the spark plug.
- (3) Remove the drive chain, clean it and lubricate it. Reassemble the chain or store it in a plastic bag.
- (4) Seal the end of the silencer with a plastic bag to prevent moisture or contamination from entering.

- (5)** Remove the battery, charge it slowly, and store it in a dry, dark place. Do not store the battery in a hot or humid environment: below 0 °C or above 30 °C.
- (6)** Disconnect the control cables and lubricate them.
- (7)** Raise the wheels off the ground using a wooden block and inflate the tyres to the recommended pressure.
- (8)** Store the vehicle in a well-ventilated, dry, clean place, sheltered from sun and rain. Keep away from flammable materials and corrosive chemicals.
- (9)** After a period of storage, clean and inspect the vehicle thoroughly, clean the fuel tank and refill it with fuel. Charge the battery slowly. Change the engine oil if the vehicle has been unused for more than 4 months.

33. Specifications

Model	Shifter 125 Evo
Specifications	
Length	2020 mm
Width	945 mm
Height	1075 mm
Wheelbase	1375 mm
Minimum ground clearance	161 mm
Dry weight	126 kg
Seat height	800 mm
Engine Type	4-stroke, single-cylinder with balance shaft
Valve timing	4 valves, 1 chain-driven overhead camshaft

33. Specifications

Cooling system	Liquid
Bore x stroke	54 x 54.5 mm
Engine displacement	124.8 cc
Compression ratio	12:1
Maximum power	11 kW at 9500 rpm
Idle speed	Automatically adjusted by the injection system
Fuel supply	Electronic fuel injection (Bosch MSE8.0)
Fuel type	Unleaded petrol (95 octane or higher) E5–E10
Ignition	Electronic (Bosch MSE8.0)
Starting system	Electric
Front suspension	35 mm upside-down telescopic fork 110 mm travel
Rear suspension	Monoshock with spring preload adjustment

33. Specifications

Clutch	Manual, multi-disc in oil bath
Transmission	6-speed manual transmission and final chain drive
Front tyre	110 / 70 R17" 54H Tubeless with TPMS
Rear tyre	140 / 60 R17" 63H Tubeless with TPMS
Rims	Aluminium alloy Front: MT 3.00x17" Rear: MT 3.75x17"
Tyre pressure	1 person: Front: 1.9 kg/cm ² . Rear: 2.1 kg/cm ² . 2 people: Front: 1.9 kg/cm ² . Rear: 2.1 kg/cm ² .
Front brake	Single 260 mm wavy disc with a 4-piston caliper. ABS (Sori RL-300)
Rear brake	240 mm wavy disc with a 2-piston caliper. Switchable ABS (Sori RL-300)
Power outlet	USB Type-A and Type-C ports, 5 V, 2000 mA

33. Specifications

Headlight (high and low beam)	LEDS
Position light	LEDS
Rear light (brake and position)	LEDS
Indicators	LEDS
Number plate light	LEDS
Engine oil capacity	1 L (oil change only), SAE 10W40, API SJ, JASO MA
Fuel tank capacity	12.5 L
Fuses	15A, 20A and 25A
Spark plug	NGK LMAR8A-9 (0.9mm)
Battery	YTX7L-BS MF (12v-6Ah)

34. Warranty conditions

Dear customer,

With the “Macbor Warranty” we aim to eliminate the possibility of any potential material, assembly or manufacturing defects causing inconvenience or expense. This warranty is intended to offer you the highest level of protection, in exchange for your commitment to follow the established maintenance schedule, using the original materials and recommended oil, and always through an official Macbor dealer or authorised Macbor service centre. Following this maintenance schedule will help extend the service life of your vehicle while ensuring you enjoy it in the best possible condition. The warranty has no mileage limit and is valid throughout Spain.

FAILURE TO CARRY OUT THE REVISIONS SET OUT IN THE MAINTENANCE SCHEDULE WITHIN THE INDICATED TIMEFRAME WILL INVALIDATE THE WARRANTY.

GENERAL WARRANTY TERMS

1. **Warranty conditions**

Macbor guarantees that the vehicle covered by this warranty is free from defects in materials and construction. If any issue arises during the warranty period, you must go to an official Macbor dealer or authorised Macbor workshop to carry out the necessary repairs to ensure the proper functioning of your vehicle.

THE WARRANTY IS VALID THROUGHOUT SPAIN.

The warranty covers the replacement or repair of defective parts, including the labour required to carry out the operation.

There is no limit to the number of repairs.

2. **Duration**

Your motorcycle is covered for the period established by the applicable legal warranty in force on the date of registration. If the vehicle is unregistered, the warranty will start from the date of sale to the user.

3. **Warranty limitations**

The warranty will apply in all cases where the Macbor Technical Assistance Service finds anomalies in the vehicle's performance due to material or assembly defects originating from the factory, excluding the parts listed under the "Exclusions" section.

4. **Exclusions**

The following are excluded from the warranty:

- Vehicles used in sporting competitions or for rental purposes.
- Vehicles that have been totally or partially modified.
- Vehicles repaired outside the authorised Macbor network.
- Vehicles repaired or modified using non-original Macbor parts.
- Vehicles modified with kits, even if manufactured or sold by Macbor, or in any way that alters the vehicle's original features.
- Vehicles that have not followed the established maintenance schedule.
- Vehicles not used according to the instructions provided by Macbor in the owner's manual and maintenance guide.
- Vehicles with tampered identification numbers on the chassis.
- Vehicles with damage due to misuse or improper handling.
- Noises caused by wear.
- The cost of the necessary maintenance services and the specific operations required (spark plug replacement, oil change, etc.).

PARTS, OPERATIONS AND DAMAGE NOT COVERED BY THE WARRANTY

Wear and consumable materials

Spark plugs, gaskets, seals (except engine seals), clutch, brake pads, brake shoes and brake discs, tyres and inner tubes, bulbs, LEDs, fuses, transmission and control cables, hoses and other rubber parts, bearings, starter motor brushes, air and fuel filters, petrol and oil, chain, secondary transmission sprocket and pinion, tools, fasteners, piston rings.

Brake fluid and lubricants

Oil, grease and other fluids specified by Macbor.

Aesthetic defects

Paintwork, bodywork and any aesthetic issue that does not cause serious safety defects or affect performance, as well as damage caused by weather conditions (rust, corrosion, colour changes, peeling adhesives, etc.) due to lack of maintenance, care or cleaning of the vehicle.

Damage

- Caused by **overheating** of the engine due to improper use or insufficient engine oil or

coolant.

- Caused to **people or property** by traffic accidents or any other event, or in any case resulting from damage covered by Macbor's warranty.
- Resulting from **incidents or falls** not attributable to manufacturing defects and/or caused by careless driving or improper use of the vehicle.

5. Important notes regarding warranty validity

- These warranty conditions must be kept in their entirety and shown to the official Macbor dealer or Macbor authorised workshop together with the confirmation that the periodic checks have been carried out for each repair request.
- The warranty may be transferred to future owners until the end of the warranty period.
- Macbor reserves the right to introduce modifications or improvements to any of its models without being obliged to apply such modifications to vehicles already in circulation.

6. How to request a repair

- G. Go to an official Macbor dealer or authorised Macbor service centre.
- H. Check whether the part(s) causing the fault are covered by the warranty.
- I. Ensure that the warranty conditions have been met.
- J. Submit:
Copies of invoices for the periodic maintenance checks recommended by Macbor.
- K. The dealer will report the fault to Macbor's Warranty Service, which will analyse the issue and inform the dealer of the outcome.

7. Maintenance instructions

The description and frequency of the regular maintenance required for your motorcycle are provided in the user manual supplied with the motorcycle. It is the owner's responsibility to ensure that maintenance is carried out at the intervals specified by Macbor. The cost of maintenance checks are borne by the customer.

ATTENTION

To avoid invalidating the warranty, it is essential to:

- Perform the periodic maintenance checks specified by Macbor.
- Have them carried out at an official Macbor dealer or authorised service centre.

8. Transfer of ownership

The warranty may be transferred to subsequent owners until the end of the original warranty period.

9. Disclaimer

Macbor shall be released from the obligation to provide this warranty, in addition to the cases outlined in section "4. Exclusions", in the event that a repair request is found to be false, misleading and/or dishonest regarding the defect, the stated mileage, and/or any other inaccurate claim. If it becomes clear during the course of the repair that the issue is not covered under this warranty, the full cost incurred up to that point must be borne by the vehicle owner, even if Macbor initially agreed to proceed with the repair on a provisional basis.

10. Reservation of Rights

Macbor reserves the right to inspect the vehicle and/or the part causing the defect in order to determine whether the warranty is applicable. It is the responsibility of the Macbor Warranty Service to notify the customer of this requirement within 7 days of receiving the repair request.

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