

brinco
by BULTACO

Rock your body

USER MANUAL
THE ELECTRIC MOTO-BIKE



Welcome bultaquista

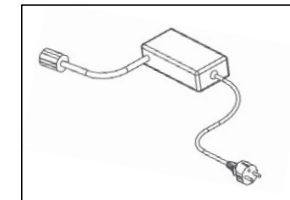
First of all, thank you for buying a Brinco. We are proud to have your confidence. The new Brinco is a new, reaching and offering concept, the Moto-Bike that you will enjoy in a way you have never dreamed of before.

For Bultaco innovation is not only to reach new technological goals, but also to offer new experiences. And Brinco is something completely new; it is the result of wanting to transport the Bultaco spirit to a new era, with a new language, whilst always being loyal to the classic brand values: passion, innovation, competition.

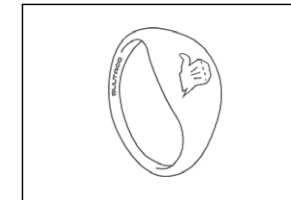
With Brinco, Bultaco proposes a whole new way to understand and live the two wheels. A striking combination between the worlds of the motorcycle and the bicycle: electric propulsion and the physical experience of pedaling, independently, or by combining the two systems. You decide at every moment how to maximise the perfect symbiosis between the handlebar and the pedals.

Whether for short or medium distances, the Brinco is above all a friend like no other, for fun, games and for getting away from it all. Because Bultaco Brinco will take you where you want, where your heart desires, further and faster than where your legs alone would be able to go.

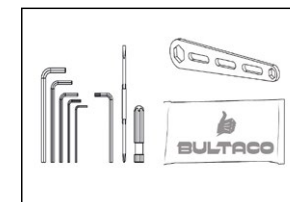
The Welcome Kit of your new Brinco contains the items listed below:



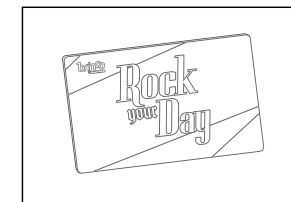
Bultaco Battery Charger
([Check](#) the Manual)



Brinco Keyless Wristband



Bultaco Tool kit
(includes keys to disassemble battery and rear wheel)



Master Key Cards
(marked with a yellow sticker)



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Important

Below you can find the most important information to enjoy your Brinco.

We recommend you to read this user manual carefully before using your Brinco for the first time and consult it again every time you have any problems or questions.

Your Brinco is a powerful and fun vehicle that can be used in many ways. Mishandling it may cause danger to life, health and possible risk of serious injury. Always ride with caution, using a helmet, gloves and protective clothing.

Be aware that you will be moving in a fast and quiet vehicle, so be careful with people and animals around you.

In this manual we will give you advice and warnings so you can take full advantage of your Brinco and keep it as good as new. That is why we recommend using original parts /accessories and getting them fitted at a **Bultaco Motors Official Dealer or Official Service**.

You must pay very close attention to our safety warnings, because we consider them essential to prevent falls and injuries.

If after reading this manual you have any doubts or need further information, please contact your **Bultaco Motors Official Dealer or Official Service**.

This user manual:

- Contains important technical and safety information.
- generally describes the most important features of your Bultaco.
- It is intended for private users, and is not prepared for use by professional staff.
- Reflects the version described at the time of printing, so there may be small differences, due to the continuous improvement of our Bultaco products.

All information in this manual is non-binding. **Bultaco Motors S.L.** reserves the right to:

- Introduce, without notice and without disclosing the reasons, changes in the technical data, maintenance services, colors, design, equipment and the vehicle materials.
- Adapt their vehicles to local conditions in certain markets and to stop production of a particular model without prior notice.

Bultaco Motors S.L. assumes no liability in connection with difficulties in the availability of vehicles, with differences between images or descriptions and the particular vehicle, nor errors or omissions in this manual. The models portrayed partly contain special equipment which is not standard.



WARNING

CHANGES MADE TO THE VEHICLE MAY AFFECT YOUR SECURITY AND PRODUCE INJURIES TO PEOPLE.

Any modification made to the vehicle without **Bultaco Motors S.L.**'s approval will have the following effects:

- Loss of warranty rights granted by the manufacturer.
- Possible need to obtain another driving licence.
- Risk of accidents and serious injuries.



INFORMATION

BEFORE USING YOUR BRINCO PLEASE CHECK ANY LOCAL REGULATIONS RELATED TO THE USE OF ELECTRICAL AND MOTOR VEHICLES.

THE BRINCO R, AS IT DOES NOT HAVE THE REQUIRED APPROVAL FOR CIRCULATION, IS NOT SUITABLE FOR USE ON PUBLIC ROADS.

Contact one of our **Bultaco Motors Official Dealer** if you have any questions.

For your information, the applicable laws may include some of the following items:

- Age requirement for vehicle use.
- Equipment required to travel on certain roads.
- Need for a special licence to use the vehicle.
- Areas of restricted use for the vehicle.

If you wish to have a printed version, please ask it to your **Bultaco Motors Official Dealer**.

This manual contains images with informational purposes and may not reflect reality.





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GENERAL SAFETY

1.1. General Warning

You are the only person responsible for the use of this motorbike. Do not allow other people to ride the vehicle without having received appropriate instructions and/or reading this manual. Remember that neither the seller of this Brinco nor **Bultaco Motors S.L.** can be hold responsible for the misuse or negligence when using the Brinco.

Your Brinco is not a competition vehicle and it is not designed for such use. Thus, its use in competition will mean the loss of the warranty provided by **Bultaco Motors S.L.**

Follow the inspection and maintenance periods indicated here, that along with good riding technique will help you to enjoy your Binco safely and reliably. Make sure you understand the importance of checking all vehicle components carefully before riding.

Before each ride, you should check the condition of the vehicle in accordance with section 3.1 as well as the battery charge level and connection.

Remember that the power components of your Brinco should be handled only by **Bultaco Motors S.L.** [See section 1.4.].

Throughout these instructions you will find different types of indications. The symbols used are described in the next section.

With these symbols we are letting you know that if you do not follow them or comply with them, you will not be using your Brinco correctly or it may not work properly. Remember that, in addition to the loss of warranty, you will endanger yourself and other people around you. Remember check warnings. [See section 1.3.]



1.2. Operational Safety

Listed below are several things to keep in mind regarding the operation of the vehicle:

- **Whenever you do not use your Brinco, put the engine stop button in the OFF position** [See section 2..3]. It is easy to forget when it is on and an accident could occur when getting on or off the bike.
- Similarly, **to move the vehicle without riding it, make sure the engine stop button is in the OFF position** [See section 2.3.].
- In order to optimize the battery life and safety, when the Brinco is not in use for more than 90 days, we recommend:
 - Charge the battery up to 80% (or more).
 - After charging, disconnect the battery from the battery charger and the Brinco.
 - If exceeding 90 days of storage with the battery disconnected, please connect it to the charger and charge it up to 80% again.
 - Leave the battery in a safety place, at room temperature, dry and apart from direct sunshine or any other heat source.

- Maximum battery performance will not be achieved until you have made at least 5 cycles of charge and discharge.



- If you do not follow the instructions for charging and storing the battery described in these operating instructions you will lose the warranty on it. These guidelines have been rigorously tested to ensure maximum efficiency and durability of the battery.



In case you want to achieve maximum performance of the Brinco, we recommend you to charge the battery prior to the ride.

1.3. Warnings

BATTERY AND CHARGER

- Do not handle the battery.
- Never leave the battery or any electrical components near heat sources.
- Keep this and any other battery out of the reach of children and / or pets.
- Do not dispose of the battery in any container. Check your local recycling point. If in doubt, contact a **Bultaco Motors Official Service** to provide you with the necessary information for recycling.
- The IEB charger has its own User Manual with instructions for storage, use and maintenance. You can find it inside the Wellcome Kit.
- Do not use the charger if any part of it is damaged.
- Do not open or remove the charger cover. Repairing and / or handling may only be carried out by qualified personnel.
- The use of extension cords, multiple plugs and sockets, surge protectors or similar devices may increase the risk of electric shock and other hazards. Do not use this type of device with charger.
- Using the charger with a damaged or worn AC outlet may result in burns or fire. Periodically check the plug to the AC outlet and charger while charging. If the plug is heated, disconnect the charger and have a qualified electrician replace the AC outlet.

- Replace the charger if the plug for the AC outlet or the cord is dama-ged. You must go to a **Bultaco Motors Official Service**.
- Do not use a portable or fixed generator to load the Moto-Bike. It can damage the charging system of the Moto-Bike, which should only be charged with the power supplied by the power grid.
- The AC outlet must have a grounded connection and will be of exclusive use. Cannot be other large electrical appliances connected to the same circuit. If it is not a dedicated circuit, it could exceed the current of the circuit breaker in the outlet and cause it to jump or to open.
- If you manipulate any electrical component of your Moto-Bike, there is a risk of electric shock which can lead to personal or even fatal injury.
- Never open the battery nor the charger.
- Do not destroy the battery or immerse it in any liquid.
- Do not let the battery to fall dawn (if this happens, as well as a possible fall of the Moto-Bike, please check if the battery has any external damage. If it is not working properly, it switches off prematurely or overheats, please proceed to your Official Service. Do not use it nor charge it again. In this case do not storage it inside.

Manufacturer's web

Charger's web

User manual

TIRES

- Front and rear tires must be of the same brand, design and measurements; otherwise, the characteristics of the vehicle may be different and could cause an accident.
- If you drive with incorrect tire pressure you can lose control, resulting in serious personal injury or fatal accident.
- Tire pressure must be checked and adjusted with cold tires (when the tire temperature equals ambient temperature).
- If tires are excessively worn, have them changed at a **Bultaco Motors Official Distributor or Service**. The use of the vehicle with excessively worn tires is illegal, reduces stability and you can lose control.
- Drive at moderate speeds after changing a tire. A new tire must allowed time to bed in, before its optimum characteristics are available.

BRAKES

- The malfunction of the brake lever indicates a danger condition in the brake system. Do not use the Moto-Bike until a **Bultaco Motors Official Service** has checked or repaired the brake system.

TRANSMISSION

- The transmission chain should be lubricated periodically, after washing the Moto-Bike or using it in rainy or wet areas.

DRIVING AND TRANSPORTATION

- The maximum authorized weight to your Moto-Bike is 100 kg (passenger + luggage) and 142 kg (Moto-Bike + passenger + luggage).
- This Moto-Bike is designed for a driver. Do not exceed the maximum authorized weight.
- This Moto-Bike is not designed to have a child chair **pero sí** luggage rack. If you wish to add any accessory to it, please ask your **Bultaco Motors Official Distributor**.
- This Moto-Bike is not designed to tow a trailer or attach a sidecar.
- This Moto-Bike is not designed for extreme use.
- Do not immerse this Moto-Bike in rivers, lakes, marshes or a large body of water.
- Do not drive the Moto-Bike with the side stand lowered or if it cannot be raised correctly, otherwise the side stand may touch the ground, with the risk of losing control. Therefore, check this system regularly and if it does not work properly, repair it at a **Bultaco Motors Official Service**.
- If you do not become familiar with the controls you can lose control, with the consequent risk of accident or personal injury.
- This Moto-Bike must be moved on a platform. It cannot be towed or pushed from vehicle to vehicle.

- An incorrect transport of the Moto-Bike may cause damage. If the Moto-Bike is damaged, it should be carried on a platform.
- The original Moto-Bike, driver and accessories can never exceed the maximum authorized weight.
- No animal can be transported.
- Never overload the vehicle. Overloaded vehicle could cause an accident.
- Make sure your Moto-Bike including the original accessories does not exceed the maximum authorized weight.
- Make sure the vehicle load is properly secured. Items may be thrown and cause personal injury or damage to the vehicle.

CLEANING AND MAINTENANCE


- Before cleaning the Moto-Bike ask your **Bultaco Motors Official Distributor or Service**. If you use a brush, chemicals or strong detergents to clean it, the parts will scratch or damage. Also, avoid applying wax to the outer parts.
- Do not use wheel cleaners with high acid content. If you use these products, do not leave the cleaner on the affected area for longer than indicated in the instructions. Also rinse the area thoroughly with water, dry it immediately.

- Improper cleaning can damage plastic parts. For cleaning the plastic use only a soft clean cloth or a sponge with water. However, if the plastic parts are not cleaned well with water, a mild detergent can be diluted in it. All detergent residue must be removed with plenty of water, as this is detrimental to plastic parts.
- Do not use chemicals products for plastic parts. Do not use cloths or sponges that have been in contact with strong or abrasive cleaners, solvents or thinners, fuel (gasoline), dioxidants or antioxidants, brake fluid, antifreeze or electrolyte.
- Do not use pressure washers or steam cleaners, water could enter and deteriorate elements or electrical components of the Moto-Bike.
- If the service maintenance is not carried out or if it is performed incorrectly, it can increase the risk of personal injury or a fatal accident during the maintenance or use of the Moto-Bike.
- Always perform the service maintenance of your Moto-Bike in a **Bultaco Motors Official Service**.
- If you do not have the original tools or experience to perform a particular job, you should give it to a **Bultaco Motors Official Service**.
- Turn off the Moto-Bike and disconnect the battery for any maintenance work. With the engine running, moving parts can damage parts of the body and electrical components can cause shock, eye injury, burns or fire.

- If you notice any damage to the front fork or it does not work smoothly, it must be checked or repaired by a **Bultaco Motors Official Service**.
- To avoid personal injury or damage in the Moto-Bike, firmly support the vehicle.
- To avoid damage or fire on the electrical system, do not use a fuse with higher amperage than recommended. To repair it you must go to a **Bultaco Motors Official Service**.
- Avoid damaging the headlight optics: Do not stick any colored film or adhesives on the headlight optics.
- Do not handle any electrical component.
- This Moto-Bike is designed to use **Official Bultaco Motors** accessories and spare parts only.



If you suffer any damage contact the emergency services in your country.

- Please follow every indication and make the recommended maintenance. If you do not follow them, you may lose your warranty.
- Pay special attention to every warning described in the manual with the symbol , it will avoid personal fatal damage and assure the good functioning of your Moto-Bike.



In case of fire (on the vehicle or near it), immediately contact the firefighters and inform them that the fire is on/near a vehicle that contains Ion Lithium batteries.



Do not approach the vehicle if it is on fire. The cells could be projected due to the fire.

1.3. Power Components' location

The power components handle voltages up to 59V that can be health hazards and potential risks of serious injury:

Their handling (except for assembly / disassembly and charging the battery and engine disconnection to handle the rear wheel) must only be carried out by a **Bultaco Motors Official Service**.

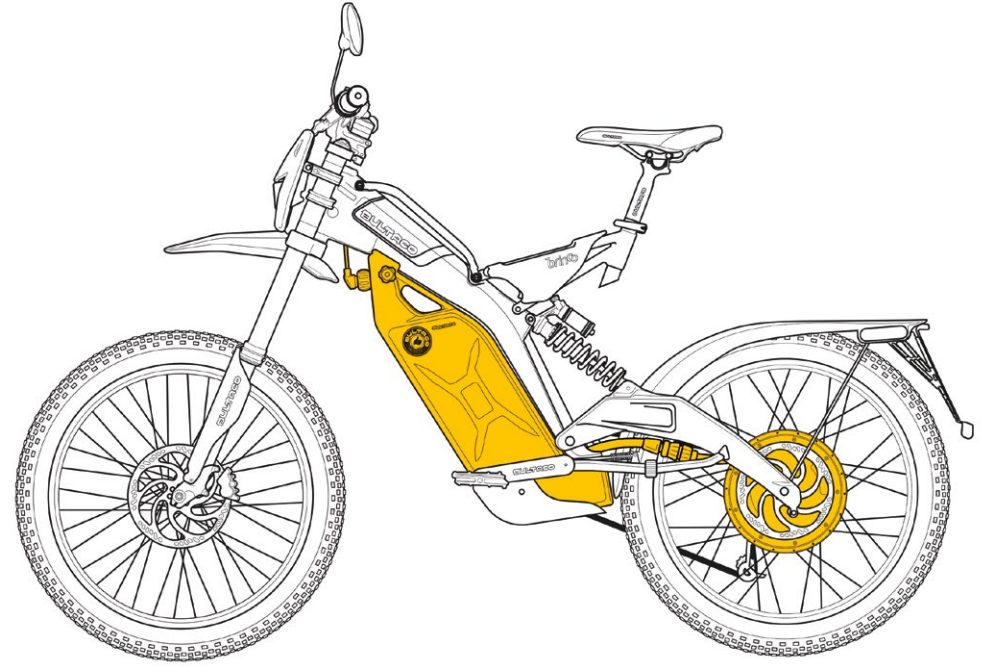
Any damage to any of the power components must be repaired immediately by a **Bultaco Motors Official Service**.



POWER PARTS WILL REMAIN ACTIVE
FOR A PERIOD OF TIME AFTER THE
VEHICLE HAS BEEN SWITCHED OFF.



**NEVER CUT WIRES OR HANDLE THE
POWER COMPONENTS.**



Power zones



2

VEHICLE DESCRIPTION

2.1. Presentation

The Bultaco Brinco surprises with its innovative design, technology and the effectiveness of each of its elements. The Bultaco engineering and design teams have worked together to create the first Moto-Bike with a spectacular, very sporty and beautiful result.

From the first time you see a Bultaco Brinco it is clear that it is something new and incomparable to everything we knew before. Its features might resemble those of a competition mountain bike, a dirt bike, a crossbike or an urban trail bike, but its design and the engineering solutions that define it reveal it as a special machine that exceeds the established labels.

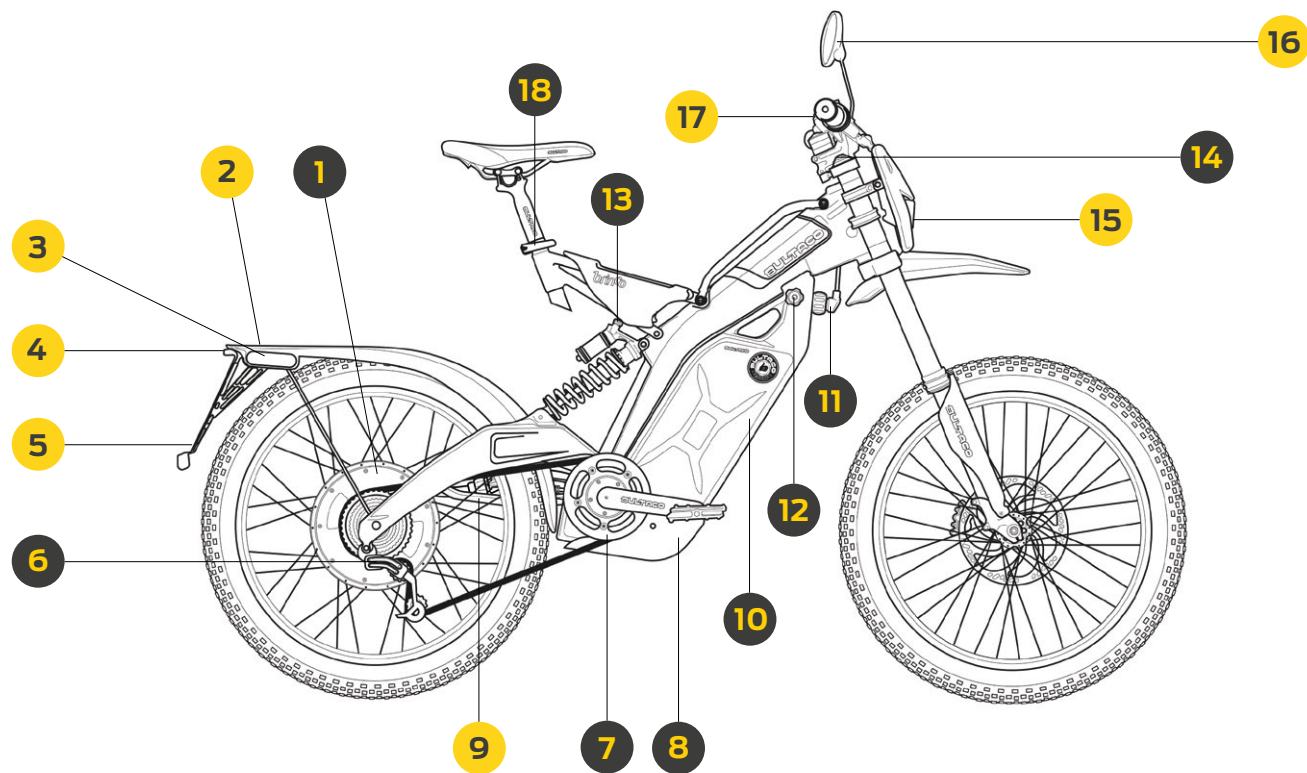
Brinco opens the door to multiple riding choices, offering everyone the opportunity to decide how "to equalise" the best motor/pedal combination for their Brinco under every situation: engine, independent pedaling or a combination of both.

Thanks to its impressive torque of 60Nm, weighing just 39 kg. and with a range of up to 100 km, the Brinco offers pure fun.

Brinco is 100% Bultaco enthusiasm for all ages. Brinco is hyperlight, hyperconnected and hyperfun.



2.2. Location of Components



1 Three-phase Permanent Magnet Motor
[See section 2.8.]

2 Mudguard

3 Reflective parts

4 Rear Light

5 License plate holder

6 Rear shifter
To prevent the deralleur from coming loose always lean on its left side.

7 Planetary gearbox
[See section 3.5.]
Possibility of Change: Overdrive - Low Range Gearbox (2) by touching the button located at the base of the rod: By pressing it with the right foot it changes to the gear ratio of higher speed.

8 DC / AC Three Phase Controller
[See section 2.8.]

9 Retractable side stand

10 Power Cell Li-Ion Matrix Battery
[See section 3.2.]

11 Battery Connector
[See section 3.2.1.]
Disconnect your battery power system quickly with a simple twist of the connector in a counterclockwise direction.

12 Battery safety lock
[See section 3.2.1.]
The battery has a single key safety lock for each vehicle. The battery will be attached to the chassis and the key is required to remove it.

13 Rear suspension adjustment
[See section 4.1.]

14 Front suspension adjustment
[See section 4.2.]

15 Front Light
Check proper operation before starting to drive.

16 Rear side mirror
Check proper operation before starting to drive.

17 Horn

18 Seat Adjustment
[See section 2.9.]
With the standard sub-chassis, the seat can reach a minimum height of 1 metre from the ground (cutting the seat bar). There is also the option to purchase a Low Seat sub-chassis that allows you to further reduce the seat height. Ask to your **Bultaco Motors Official Distributor**.

 Specific element for homologated version.

2.3. Handlebar Controls



1 Dashboard

2 Horn Control

3 Rear side mirror

Check proper operation before starting to drive.

4 Front brake lever

[See section 4.3.]

Check the brake position properly. The front brake lever is on the right handlebar grip.

5 Rear brake lever

[See section 4.3.]

Check the brake position properly. The rear brake lever is on the left handlebar grip.

6 Throttle control

Always make sure that the accelerator returns correctly to its initial position when you release it after accelerating before switching ON your Brinco.

7 Stop button

[See section 3.3.]

Always check that the vehicle is turned off after use. Button in OFF position.

8 Power Control Button

[See section 2.6.]

It allows you to select and set a cruise power level so that constant electric power is used without operating the throttle.

9 Shifter

[See section 3.5.]

9-speed gear ratio.

 Specific element for homologated version.

2.4. Dashboard



WHENEVER THE DASHBOARD IS ILLUMINATED
YOUR BRINCO WILL BE ON BUT IT ONLY
 WILL BE IN RUNNING CONDITION WHEN THE
 STOP BUTTON IS ON.


1 Speedometer (km/h - mph)
 [See section 2.5.]

2 Driving mode. ECO - SPORT - TOUR
 [See section 2.5.]
 On the right of the mode the instantaneous power is shown in W.

3 Battery Level
 When the battery level falls below 2 bars (25% battery), the low battery indicator will be shown.

4 Odometer / Trip
 [See section 2.5.]

5 In-use Indicator 
 Will be alight when the Brinco is powered on.

6 Low battery Indicator 
 Will be alight when 2 or less battery bars are displayed.

7 Warning Indicator !
 [See section 2.5.]
 This light flashes when you turn on your Brinco and testing is being performed. Once testing has finished, the light will remain on until the motorbike is put in driving position (and the power button is ON).

Normally, the light will be off. If this light is on it will mean that something on your Brinco is not working properly, that it is in self-protection mode or that a system failure has been detected.

8 MODE Function
 [See section 2.5.]

9 SET Function
 [See section 2.5.]

10 NFC Antenna to lock/unlock your Brinco
 The antenna is connected to the "Biker Manager", a system to start the vehicle by means of a pilot wristband/card.



2.5. Dashboard Configuration

COMMUTATION KM/H - MPH



Press the “MODE” and “SET” buttons simultaneously for more than 4 seconds.



The measurement unit will change automatically.

CHANGING DRIVING MODE

ECO MODE



TOUR MODE



SPORT MODE



The riding mode when starting the vehicle will be **ECO by default**.

The riding mode can be changed by pressing shortly the “MODE” button.

The viability of the mode change takes into account the following parameters:

- Battery level between 2 bars (25%) - 8 bars (100%)

Possible changes ECO — to → TOUR
 TOUR — to → SPORT
 SPORT — to → ECO

- Battery level from 1 bar (11%) - 2 bars (25%)

It allows change from ECO — a → TOUR

- Battery level between 0 bars (0%) - 1 bars (11%)

Allows ECO mode only

ODOMETER - TRIP 1- TRIP 2

This option can be changed by pressing the “MODE” button for more than 4 seconds **until the display shows ODO – TRIP1 – TRIP2**.

The **TRIP can be reset** once selected by pressing the “SET” button for more than 2 seconds.

SUMMARY OF FEATURES

Display	DASHBOARD BUTTONS			
	Long press “MODE” (4 sec.)	Short press “MODE”	Long press “SET” (2 sec.)	Long press “MODE” & “SET”
ODO	TRIP 1	Change driving mode	-	Change measurements units
TRIP 1	TRIP 2		TRIP 1 reset	
TRIP 2	ODO		TRIP 2 reset	

2.6. Using the POWER CONTROL Button

The Power Control button [See section 2.3] allows you to **select and maintain the same level of power during your ride.**

To use the power button, you accelerate to achieve the desired power level (you can check its value on the dashboard) and then press the Power Control button to maintain that power level.

Once this is done you can stop accelerating and the vehicle will continue its ride at the desired power.



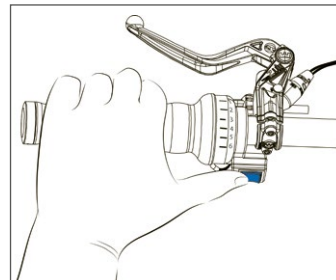
RIDE WITH EXTREME CAUTION WHENEVER POWER CONTROL IS ON.

To turn off Power Control you just need to press any brake lever or press the “Power Control” button again.

When in the Power Control mode you can accelerate to exceed the value of cruising power if necessary.

In normal riding mode (with Power Control off), you can view the instantaneous power level on the display, on the right of the driving mode (“POT” in the image shown).

Once the cruise power is selected it will be set and displayed on the dashboard display until Power Control is turned off.



POWER CONTROL WILL BE DEACTIVATED BY:

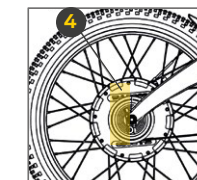
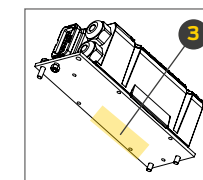
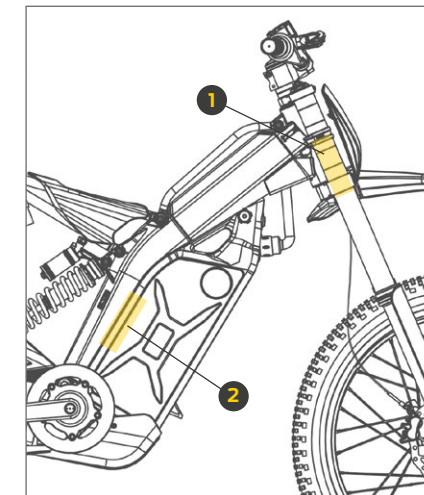
- PUSHING THE POWER CONTROL BUTTON
- PRESSING ANY OF THE BRAKE LEVERS

2.7. Identification Numbers

- 1 Vehicle Identification Number VIN (Serial number)**
The VIN is a 17 digit code that is printed on the right side of the steering tube.
- 2 Battery Identification Number**
On the lower side of the battery there is a warranty seal with safety instructions and its identification number.
- 3 Controller Identification Number**
The controller identification number is engraved on the chassis aluminum support plate.
- 4 Engine Identification Number**
The engine identification number is engraved on the left side of the engine.



DO NOT CHANGE ANY OF THE IDENTIFICATION NUMBERS OF YOUR BRINCO NOR BREAK THEIR SAFETY SEALS, OTHERWISE YOU WILL LOSE YOUR WARRANTY.

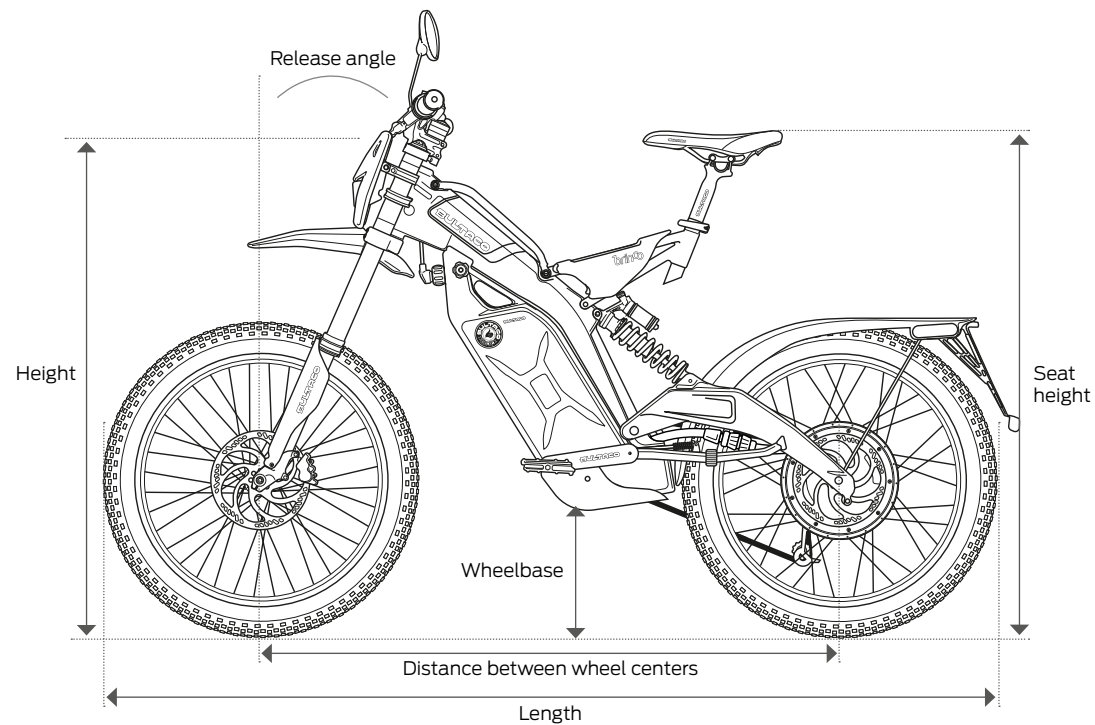


2.8. Technical Specifications

	BRINCO R	BRINCO R-E	BRINCO C	BRINCO S
Motor	Brushless / Permanent magnets / AC / On rear wheel			
	Built-in self-protection and diagnostic system			
Max. Power	2 kW			
Controller	3 Riding Maps (Sport – Tour – Eco) Max. Speed.: 60 km/h	3 Riding Maps (Sport – Tour – Eco) "45 Version" Max. Speed: 45 km/h 2 Riding Maps (Tour – Eco) "25 Version" Max. Speed: 25 km/h		
Battery	CAPACITY: 1.3 kWh / CELLS: High durability Lithium-Ion / BMS (Battery Management System) CAN Bus / INPUT: 58,8V			
Charger	Off Board @8A 465W / INPUT: 110 VAC - 240 VAC / OUPTUT: 58,1 VDC / WEIGHT: 1,5Kg / CHARGE TIME: 3h (95%)			
Transmission	9 Gears + Overdrive (ratio 1 : 1.65) / Plate Z34		9 Gears	
Connectivity	NFC Keyless, DISPLAY: Backlit digital / DIAGNOSIS: CAN Bus			
Chassis	Aluminum central tube frame and swingarm			
Kickstand	-	SIDE		
Front suspension	Adjustable inverted fork			
	180 mm		130 mm	
Rear suspension	Adjustable monoshock (compression / extension and preloading)			
	217 mm (Yellow Spring)		150 mm (Black Spring)	

	BRINCO R	BRINCO R-E	BRINCO C	BRINCO S
Handlebars	Sport – 760 mm		Touring – 730 mm	
Front brakes	Hydraulic - Disk Ø 203 mm, with 4-piston caliper (integrated switch normally open)			
Rear brakes	Hydraulic - Disk Ø 203 mm, with 2-piston caliper (integrated switch normally open)			
Front wheel	RIM: Off-Road 24" / TIRE: 24 x 3" (Off-Road)			RIM: Touring 24"
Rear wheel				TIRE: 24 x 2,35" (road)
Front light	-	M99 Pure+ 1.100 Lumen / 200 Lux and Automatic Sensor (day / night)		
Tail light	-	LED (Position - Brake)		
Pedals	Anti-slip cover with reflector and sealed bearings			
Seat	Sport			Comfort
Certification	No	L1e-Moped 2002/24		
Colours	Red / Blue	Red / Blue	Green	White/ Black

2.9. Dimensions



	BRINCO R	BRINCO R-E	BRINCO C	BRINCO S
Width	768 mm		738 mm	
Wheelbase	1.200 mm		1.189 mm	
Length	1.856 mm		1.854 mm	1.846 mm
Seat height	SUBCHASSIS STANDARD: Max 1.164,2 - Min 1.061 mm SUBCHASSIS LOW SEAT: Max 1.140,2 - Min 1.011 mm		SUBCHASSIS STANDARD: Max 1.114,2 - Min 1.011 mm SUBCHASSIS LOW SEAT: Max 1.090,2 - Min 961 mm	
Height	1.115 mm		1.098 mm	1.090 mm
Base height to ground	273,6 mm		223,6 mm	
Weight	39 kg	40 kg	42,6 kg	
Release angle	23,2°			











3

GENERAL OPERATION

3.1. Prior checks

To make sure your Brinco is ready for use, you must perform the following checks:

-  1. Adapt the **seat and handlebar position** to your size so that they are in a safe and comfortable position. Make sure all items are well secured and that they are in the proper position.
-  2. Adjust the position of the **rear side mirror** to have a clear vision (just in case it is equipped with it).
-  3. Adapt the position of the **brake levers** so that you can always reach them easily. Make sure you are very familiar with the brake lever configuration (front brake to the right / rear brake to the left). [See section 4.3]
-  4. Check the **operation of the brakes**. Press each brake lever individually while pushing the vehicle to check that the wheels lock completely. [See section 4.3]
-  5. Check **tyre condition and pressure** periodically. [See section 4.4]
-  6. Set both the front and the rear **suspension** as you prefer.
-  7. With the **engine stop button in the off position** [See section 2.3] operate the accelerator control and release it to check that it returns to its initial position.
-  8. Check the **condition of the sprockets, transmission plate and the chain lubrication** [See section 4.5]. Make adjustments if necessary.



DETERIORATED TYRES OR TYRES WITHOUT THE CORRECT PRESSURE CAN CAUSE THEM TO BURST UNEXPECTEDLY AS WELL AS A LOSS OF CONTROL OF THE VEHICLE. LOW PRESSURE WILL REDUCE THE RIDE RANGE SIGNIFICANTLY.



AFTER A FALL OR A MOTO-BIKE ROLLOVER, YOU MUST PERFORM A COMPREHENSIVE REVIEW BEFORE RIDING THE VEHICLE AGAIN AND VISIT A BULTACO MOTORS OFFICIAL SERVICE FOR A PROFESSIONAL INSPECTION.



9. Check the **electrical system** of the vehicle (battery, motor, controller, power wiring, front light (just in case it is equipped with it)). All wires and elements must be in perfect condition and external connectors correctly positioned. Check the **battery charge level** on the dashboard. [See section 2.4]

If after reading these instructions you still have questions, contact your **Bultaco Motors Official Dealer**, who will be happy to help.

BATTERY AND CHARGER

The battery incorporates a **Management System (BMS)** that monitors the cell's status and optimises charging to provide maximum performance and a longer lifespan.

Fully charge the battery before the first use. During charging, the charger LED light will be yellow. When the battery is fully charged, the charger LED light will turn green, meaning that the battery is ready to use.

The battery range may vary considerably depending on conditions such as the slope of the road and pedaling. [See section 3.4]

If **during a long ride** the level of the battery charge drops to 25% of the total capacity (2 bars on the dashboard), the battery management system will switch to ECO mode automatically. The system will be deactivated before a complete battery discharge occurs.



NEVER CUT WIRES OR MODIFY ANY OF THE POWER COMPONENTS. IT CAN CAUSE SERIOUS INJURY.



THE BATTERY HAS A SAFETY SEAL WITH SAFETY WARNINGS. AS IT IS A POWER ELEMENT, IT CAN BE HANDLED BY A BULTACO MOTORS OFFICIAL DEALER ONLY.



IF THE SAFETY SEAL IS BROKEN IT WILL RESULT IN THE AUTOMATIC LOSS OF THE WARRANTY.

FULLY CHARGE THE BATTERY BEFORE FIRST USE.

3.2. Battery Charge

Connect the **Bultaco original charger** to the battery and the power outlet (240 V AC 50Hz / 110 V AC 60Hz). **Remember** that this can be done with the batteries on the vehicle or with them removed, as shown below.

3.2.1 Removing the battery

1. Unplug the power cord from the battery by hand turning the connector housing a quarter turn counterclockwise and pulling it out carefully.

2. Enter the key provided by Bultaco to unlock the battery safety lock.

3. Remove the retaining screw while firmly holding the battery pack. You can loosen it by hand or with a 5 Allen key.

4. Hold the battery firmly and rotate it slightly on its base to release the chassis anchorage.

5. Once the battery is disconnected from the lower support, lift the battery to fully remove it.

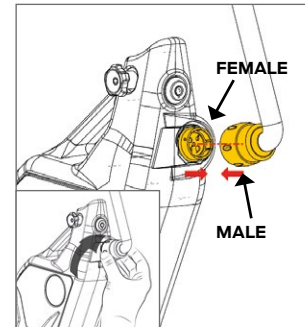
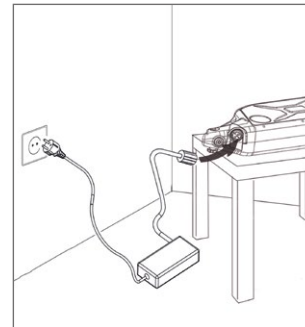
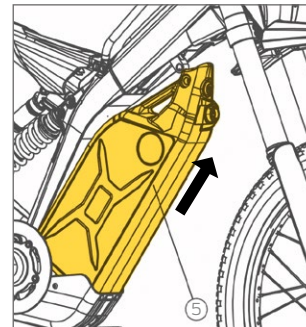
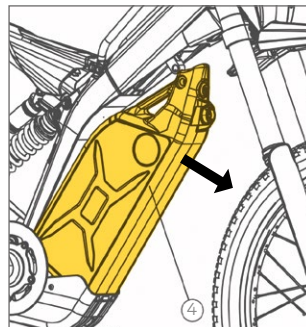
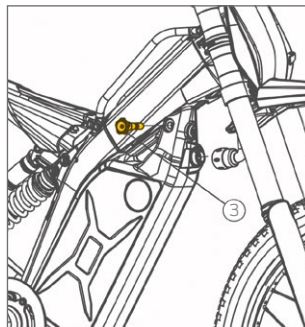
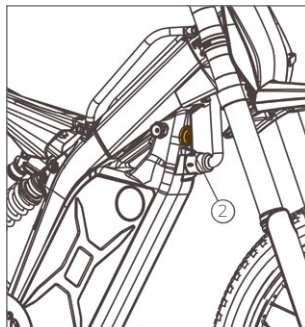
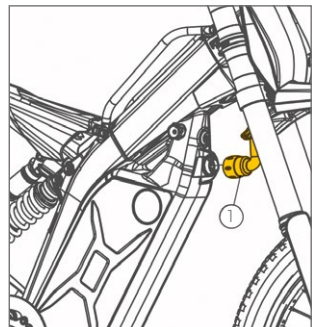
6. Make sure the battery is placed horizontally, in a safe position close to the socket. Connect the charger to the battery and to the electrical network. Charging will start automatically.

7. When you plug the male connector to the battery, either the Moto-Bike's or the charger's connector, be careful not to damage it.

Note that both connectors, male and female, have notches on the inside that must match. Fully introduce the male connector into the female connector and then rotate its housing clockwise a quarter turn to secure it in place.

8. Once the charger is connected, a verification test will be done before it starts to charge automatically. The next section explains what the charger's warning lights mean.

[See section 3.2.2]



ALWAYS CHARGE THE BATTERY
WITH THE ORIGINAL BULTACO
BATTERY CHARGER.



BEFORE REMOVING THE BATTERY
ALWAYS MAKE SURE YOUR
BRINCO IS DISCONNECTED.



TO REASSEMBLE THE BATTERY,
FOLLOW THE STEPS DESCRIBED
IN REVERSE ORDER.



IF YOU WANT TO **CHARGE YOUR BATTERY WITHOUT REMOVING IT FROM THE VEHICLE**, YOU MUST FOLLOW ONLY STEPS 1 AND 6.

IT IS RECOMMENDED THAT **THE BATTERY SCREW IS TIGHTENED USING A 5 ALLEN KEY PROVIDED IN OUR TOOLKIT**, TO PREVENT THE SCREW FROM COMING LOOSE.

3.2. Battery Charge

3.2.2. Battery charging

CHARGER INDICATOR



The battery is charging.



The battery is fully charged.



Failure during charging.
Check charger instructions.

Once the charger is connected, the charging process starts automatically after 15 seconds. Do not forget to turn off or unplug the charger after use. To do this you have to press the button for 2-3 seconds and disconnect it from the network.

Charging can be paused with a short press of the button . The green and yellow LEDs will light alternately. In this state the power socket cannot be disconnected. To continue charging make a short press on the button - or wait for 1 minute.



ONCE THE BATTERY IS CHARGED (GREEN INDICATOR), **FIRST DISCONNECT THE CHARGER FROM THE NETWORK AND THEN DISCONNECT THE BATTERY CHARGER.**



DO NOT INTERRUPT THE CHARGING PROCESS UNTIL THE BATTERY IS FULLY CHARGED. INTERRUPTING THE BATTERY CHARGING PROCESS COULD CAUSE A LOSS OF CAPACITY OR PREMATURE BATTERY FAILURE.

In order to optimize the battery life and safety, when the Brinco is not in use for more than 90 days, we recommend:

- Charge the battery up to 80% (or more).
- After charging, disconnect the battery from the battery charger and the Brinco.
- If exceeding 90 days of storage with the battery disconnected, please connect it to the charger and charge it up to 80% again.
- Leave the battery in a safe place, at room temperature, dry and apart from direct sunshine or any other heat source.



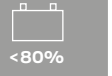



MAXIMUM BATTERY PERFORMANCE WILL NOT BE ACHIEVED UNTIL **YOU HAVE MADE AT LEAST 5 CYCLES OF CHARGE AND DISCHARGE.**







THE BATTERY **MAY BE DAMAGED IF FULLY DISCHARGED** (BELOW MINIMUM LEVEL OF USE).



3.2.2. Battery charging

LED INDICATOR LIGHTS					
Operating condition during charging	 <80%	 >80%	 100%		Comments
Start with total discharge	Flashing				
Main charge	X				
Further load		X			
Final charge / charge conservation			X		

LED INDICATOR LIGHTS					
Operating condition during charging	 <80%	 >80%	 100%		Error number
Missing battery				X	1
Battery failure	Flashing			X	2
Time failure	X			X	3-4
Regulating failure		X		X	10-14
Temperature failure			X	X	6

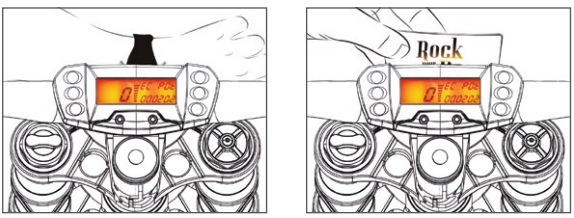
TROUBLESHOOTING	
Error number	Procedure
1, 2, 3, 4	Check battery and battery wiring
6, 11-13	Ask for the charger to be checked at your Bultaco Motors Official Service

3.3. Starting your Brinco

After performing the checks described in paragraph 3.1.1., your Brinco is ready for the ride.

To start it you must follow the procedure described below:

1. Place the Bultaco card or wristband in the front of the dashboard where the NFC antenna is (both dashboard and wristband/card must have physical contact) until the dashboard lights up [See section 2.4].



2. When you turn the system on your Brinco will perform a test and an intermittent warning light will flash on the dashboard.

Clarification:
If the power button is ON, the warning light will be illuminated permanently and you must operate any of the brakes before you set off.



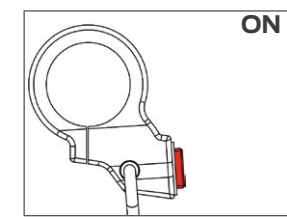
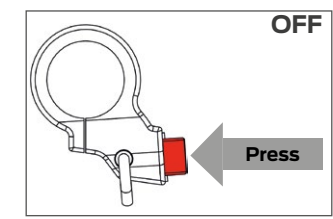
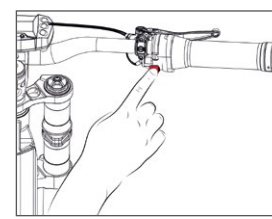
WITH YOUR BRINCO, YOU WILL RECEIVE A **MASTER CARD**, IDENTIFIED WITH A **YELLOW POINT**, WHICH WILL ALLOW YOU TO CREATE COPIES OF YOUR CARD / WRISTBAND. [SEE SECTION 3.3.1]



FOR SAFETY REASONS WE RECOMMEND YOU TO START YOUR BRINCO USING THE BRAZALET PROVIDED. KEEP THE MASTER CARD IN A SAFE PLACE
O CON UNA SEGUNDA TARIETA.

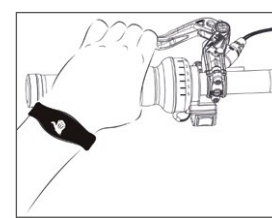


3. Once the check is finished the warning light on the dashboard will turn off and you have to put [See section 2.4] the power button in the ON position. [See section 2.3]



4. With the button in the ON position, press one of the brake levers. [See section 2.3]

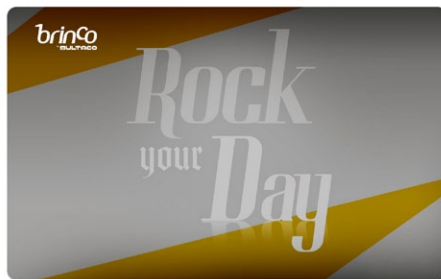
Once the warning indicator is off [See section 2.4], you can speed up and enjoy the Brinco ride.



THE LACK OF NOISE FROM THE MOTOR MAY BE MISLEADING ABOUT THE **LACK OF NOISE FROM THE MOTOR MAY BE MISLEADING** WITH REGARDS TO THE VEHICLE'S POWER.

3.3.1. Starting Card / Wristband Copy

We will provide you with a Brinco Master card. This card allows you to make up to 10 card/wristband copies.



To make a copy from your Master card you should purchase a blank card or wristband at your **Bultaco Motors Official Dealer or Service** and follow these steps:

1. Turn on your Brinco using the Master card.
2. Turn off your Brinco using the blank card/wristband. At this time your copy will be complete.
3. Turn on your Brinco again with the new copy of the card/wristband to check if it works properly.



REMEMBER THAT YOU CAN MAKE **10 COPIES** FROM YOUR MASTER CARD.



IF YOU LOSE YOUR MASTER CARD GO TO YOUR BULTACO MOTORS OFFICIAL DEALER OR SERVICE.

3.4. During the ride

The Brinco is designed for **combined riding** by both pedaling and with electrical assistance from the engine incorporated into the rear wheel.

By default, the system is in **ECO mode after starting up**. Press the “MODE” button (short press) to change to TOUR or SPORT mode [See section 2.5].

The prolonged use in non-combined mode (without pedaling), at high engine torque in steep terrain, as well as riding for a long time in SPORT mode will lead to greater energy consumption that could cause the engine, controller or battery to overheat. In these situations a **self-protection system** will be automatically activated which progressively reduces the maximum power available as a function of the temperature and external stress.

Activation of this self-protection system is displayed on the dashboard through warning lights for the various phases:

- A first phase with a slow flashing light will slightly reduce performance.
- A second phase with a rapid flashing light that will further reduce performance.
- A third phase with a continuous light that will stop the vehicle.

If the flashing warning light appears, it is recommended that the Brinco power level is reduced and assisted by pedaling so that the warning level with a continuous light, that would lead to a complete stop of the vehicle, is not reached.

If this state is reached the self-protection system will completely disconnect the engine's power source. **You should wait for some time until the temperature returns** to normal operating values before starting the vehicle again.



*IF THE PERFORMANCE DEMAND EXCEEDS THE PHYSICAL LIMITS OF THE BRINCO, THE **POWER WILL BE TEMPORARILY DISCONNECTED** UNTIL THE SYSTEM TEMPERATURE DROPS SUFFICIENTLY ENOUGH BEFORE RESTARTING THE VEHICLE.*



***ECO MODE** IS THE MOST RECOMMENDED TO USE IN AREAS WITH STEEP, LONG SLOPES.*

*IF YOU ONLY USE YOUR BRINCO IN **ELECTRIC MODE**, CONSUMPTION AND TEMPERATURE WILL INCREASE AND RIDING RANGE WILL DROP.*

PLAN YOUR ROUTE IN ADVANCE.



3.5. Gear shift / Transmission

To get the most out of pedaling, your Bultaco Brinco has a transmission comprised of a **planetary low range gearbox and a cassette of 9 sprockets.**

By combining the different gear ratios you will get the performance you need at all times.

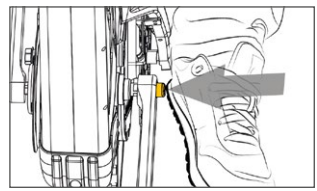
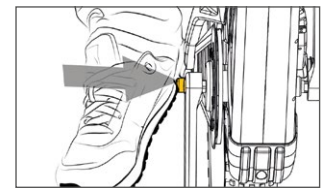


FOR ANY QUERY OR ADJUSTMENT YOU NEED TO DO, PLEASE CONTACT YOUR **OFFICIAL DISTRIBUTOR OR SERVICE OF THE BULTACO MOTORS NETWORK.**

OVERDRIVE - LOW RANGE GEARBOX

OVERDRIVE: High gear ratio (faster). It is operated by pressing the button on the base of the right foot rod.

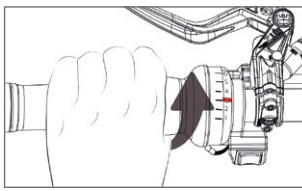
LOW RANGE GEARBOX: Low gear ratio (increased torque requirement). It is operated by pressing the button on the base of the left foot rod. It can be done with the vehicle in motion.



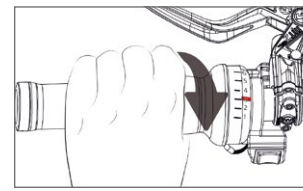
CASSETTE

9 sprockets selectable from the handlebar gear shifter:

HIGHER SPEED
1 - Large sprocket for short gear ratio (increased torque requirement).



HIGHER TORQUE
9 - Small sprocket for long gear ratio (high-speed situations).



COMBINATIONS

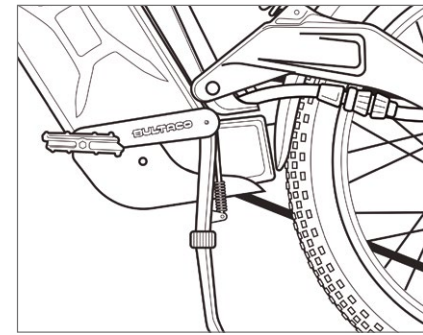
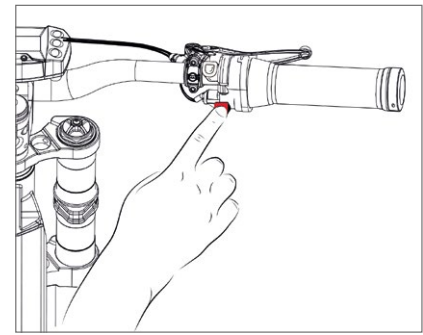
OVERDRIVE + Sprocket 9 ▶ Maximum speed

LOW RANGE GEARBOX + Sprocket 1 ▶ Maximum torque

3.6. Stop your Brinco

1. **Release** the accelerator and brake the vehicle until it stops.
2. Press the **stop button** and put it in the OFF position.
3. **Leave the Moto-Bike leaning on the retractable side stand** (just in case it is equipped with it).

Interchangeably, you can disable your Brinco by placing your card or wristband on the front of the dashboard until the dashboard turns off.



THE STOP SWITCH MAY BE USED IN AN EMERGENCY IF YOU WANT TO TURN OFF THE ENGINE.



GET THE MOST OUT OF THE BATTERY. **RECHARGE IT IMMEDIATELY AFTER EACH RIDE.**



THE BATTERY **MAY BE DAMAGED** IF FULLY DISCHARGED.



MAKE SURE THE VEHICLE IS COMPLETELY TURNED OFF AFTER DISABLING IT.



3.7. Riding instructions

From Bultaco we would like to give you the following riding tips:

- 1 Avoid improper braking. It can cause serious damage to the brakes and even make you lose control of the vehicle while riding.
- 2 Do not ride under the influence of alcohol or any drugs or medicines that may alter your reaction time.
- 3 Always use proper equipment including helmet, footwear, gloves, etc.
- 4 Do not hang objects from the handlebar or other vehicle parts. Use the accessories provided by Bultaco for transporting packages.
- 5 Adjust the position of the rear side mirror to have a clear vision (just in case it is equipped with it).
- 6 Do not carry passengers. The Brinco is designed to transport one person.
- 7 Never ride the vehicle when being towed.
- 8 When on a descent, remember to keep your weight towards the back and as low as possible.
- 9 Please respect the environment and traffic regulations and road safety. Pay special attention to pedestrians, cyclists and animals. By not making noise, you may not be seen, and cause damages and / or accidents.
- 10 If the warning light flashes, remember to reduce the level of performance demand and assist the Brinco by pedaling before the light becomes a continuous one, which is when the self-protection system disconnects the power.
- 11 Rock your Brinco!

3.8. Parking Instructions

The Brinco is designed to operate under every normal environmental condition but heat or extreme cold can affect it when running or when left parked outside.

If the batteries are exposed to too low temperatures when the Brinco is parked outside, the rider may see a **temporary reduction in range** or maximum power delivered when riding.

Avoid parking the vehicle in places where ambient temperature is below -10°C/-4°F.

Heat is also important. **Charging your battery at a temperature above 40°C/104°F can damage the battery and shorten its lifespan.**

When riding, the electrical components are subjected to maximum demand that will cause its temperature to rise. You must take this into account and refer to section 3.4. For this reason and to ensure the proper functioning of the battery, **the operating temperature range for your Brinco is between -10°C/-4°F and 55°C/131°F.**



REMEMBER THAT THE TEMPERATURE RANGE FOR CHARGING IS **0 TO 40°C.**



THE OPERATING TEMPERATURE RANGE FOR YOUR BRINCO IS BETWEEN -10°C / -4°F AND 55°C / 131°F.



4

MAINTENANCE




4.1. Adjusting the rear suspension: Shock Absorber

The shock absorber compresses under pressure and rebounds to recover its original length. The compression dampening is the setting that determines how fast or slow it is compressed. The rebound dampening (or bounce) is the setting that determines how fast or slow it stretches.

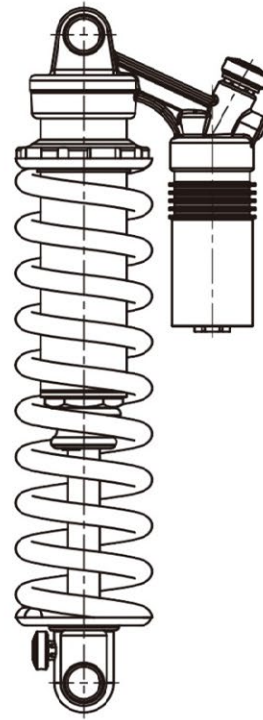
Getting the correct suspension preload is essential for good performance of the vehicle. **The sag is the cushion stroke caused by the rider's weight while seated on the vehicle in their normal position.**

Each rider must adjust the sag under their weight by changing the spring's preload. It is recommended that the shock stroke be set at 10-15 mm for normal riding and 15-20 mm if going downhill.

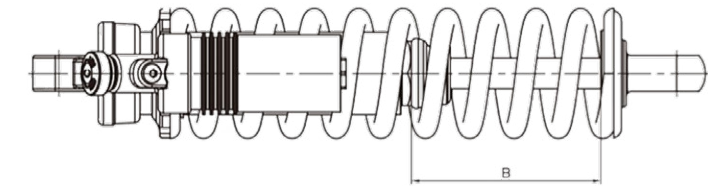
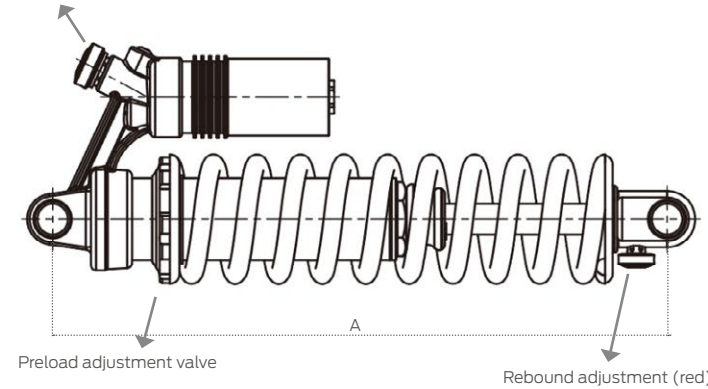
Recommendations for the shock absorber:

-  **Do not try to remove the shock absorber.** Visit a **Bultaco Motors Official Service** if it does not operate normally. Damage caused by misuse or removal will void the warranty.
-  The shock absorber is preloaded with 5.5 to 6.8 bar (80-100psi). **To prevent air leaks do not try to remove the valve.**
-  If you have been through a muddy trail, carefully clean the main shaft, dust cover and rubber stopper.

* Manufacturer's recommendations. For more information consult the DNM BURNER RCP-2 manual.



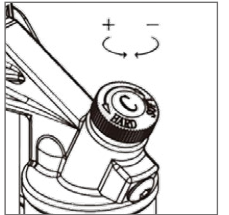
Compression adjustment valve (blue)



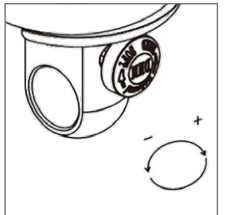
	LENGTH	TRAVEL
Brinco R / R-E	240 mm ± 2 mm	76 mm
Brinco C / S	220 mm ± 2 mm	66 mm



SHOCK ABSORBER SETTINGS



COMPRESSION ADJUSTMENT VALVE
Towards + Increases compression (hard)
Towards - Decreases compression (soft)



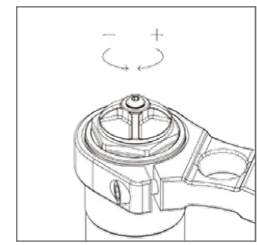
REBOUND ADJUSTMENT VALVE
Towards +, Increases retention (slow)
Towards - Decreases retention (fast)

4.2. Adjusting the front suspension: Fork

The front fork compresses under load and rebounds to recover its entire length. The rebound dampening (or bounce) is the setting that determines how quickly or slowly the fork rebounds.

Regular maintenance, cleaning and inspection are required according to the condition of the vehicle to maintain the best performance of the fork.

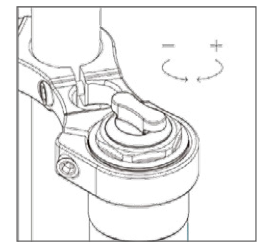
i ADJUSTING THE FORK.



REBOUND ADJUSTMENT VALVE

Turning towards +:
Increases retention (slow).

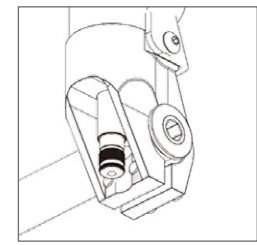
Turning towards -:
Decreases retention (fast).



PRELOAD ADJUSTMENT MANDO

Turning towards +:
Increases spring preload.

Turning towards -:
Decreases spring preload.



MAIN AIR CHAMBER

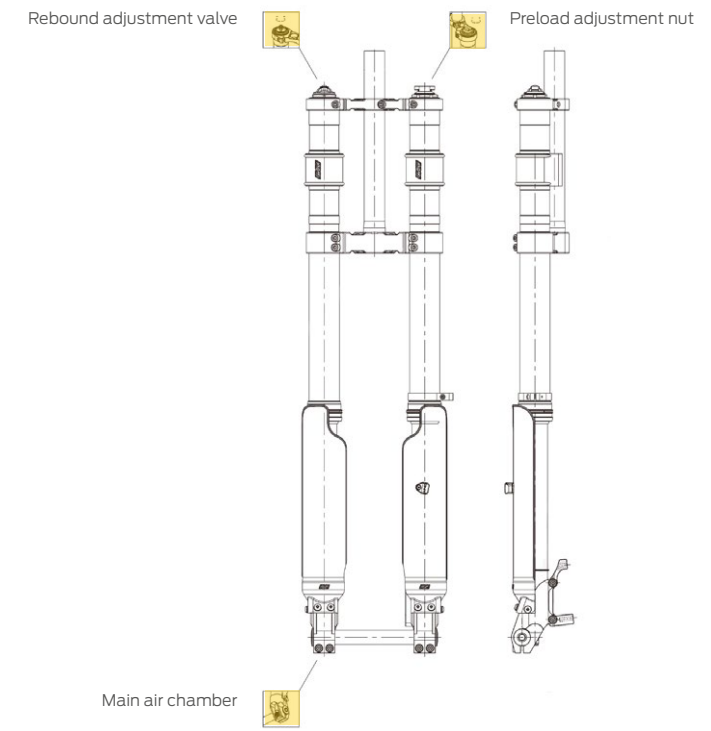
Fill with air according to the suggested pressure table values. Para ello, quita el tapón rojo para acceder a la cámara de aire. Utiliza sólo una bomba de aire de alta presión y nunca una para neumáticos o un compresor.



RUNNING-IN PERIOD: 20 HOURS OF RUNNING-IN ARE REQUIRED FOR A NEW FORK, IT WILL RUN MORE SMOOTHLY AFTER THIS PERIOD.



CHECK TORQUES AND MAINTENANCE TABLE ON PAGES 66 & 67.



**SUGGESTED PRESSURE:
7-10 BAR
PSI: 100-150**



4.3. Brakes

Before using your Moto-Bike for the first time you should **check the condition of both brakes**. First, carefully do some brake tests away from normal traffic, on a flat and non-slippery surface. Increase the brake power, little by little.



Brand new braking pads require some running-in to achieve the highest levels of braking power. To do this, accelerate the vehicle 30-50 times up to 30 km/h, and brake to stop it completely. The running-in process ends when the manual force required to break no longer decreases.



On disc brakes, the pressure point must be stable immediately. If the pressure point is not reached after two thirds of the brake lever's travel, press the lever several times (the so-called "pumping") until the pads touch the disc. If the pressure point changes in the output, you must go to your **Bultaco Motors Official Service** to purge the brake system.



Dirty brake pads and discs can significantly reduce the braking force. So do not let oil or other liquid penetrate the brake, for example, during vehicle cleaning or lubricating the chain. You should never clean dirty pads. They must be replaced with new ones. The discs, however, can be cleaned with a special brake detergent or with hot water and a commonly used detergent.



BRAKE PADS REQUIRE A RUNNING-IN PROCESS.



DIRTY BRAKE PADS AND DISCS CAN SIGNIFICANTLY REDUCE THE BRAKING FORCE.



Check the thickness of the discs. The minimum thickness is noted on the disc itself (1.8 mm). The thickness of the discs should not be less than this value throughout the entire friction surface. Otherwise, you will need to change the disc immediately.



To adjust the brake levers, sit in the saddle and place your hands on the levers. Adjust the tilt of the levers so that your fingers are in a straight line with your arms when they are placed on the levers.



Adjust the aperture of the lever using the adjusting screw and a T25 Torx wrench so that you can put your finger's first phalanx on the lever.



Moisture reduces the effectiveness of the brakes and wheels skid with ease. Bear in mind that the stop travel distance is greater when wet; so reduce the riding speed and put on the brakes with care.



CHECK THE THICKNESS OF THE DISCS.



VERIFY THAT THE PRESSURE POINT OCCURS BEFORE THE GRIPPING SURFACE IS PARALLEL TO THE HANDLEBAR.



TAKE GREAT CARE WHEN BRAKING IN WET AREAS OR IN RAINY CONDITIONS.

Continuous braking without interruption, especially if it is done with a single brake, **can reduce the braking power** and even lead to the total failure of the brake in extreme situations.

On long downhill sections you should get used to breaking with both brakes at the same time, in a brief and strong manner. Avoid continued braking by releasing the brake regularly after each time you break. **Stop at the first sign of overheating**, i.e. if it seems that a higher manual force is required, or there is a smell or noise. Let the brakes cool down before continuing riding.

BRAKE MAINTENANCE	
Check the wear of the pad	Before each use (min. thickness including the bracket: 2.5 mm)
Check the wear of the disc	Monthly and before every long range trip (min. thickness 1.8 mm)
Check the hydraulic brake cable	Before each use (there should be no breaks in the cable)
Check the hydraulic brake cable connections	Before each use (there should be no loss of fluid)
Clean the brake	If it is very dirty
Change the brake fluid	It is not necessary



DO NOT TOUCH THE DISC OR THE CALIPER IMMEDIATELY AFTER A PROLONGED DOWNHILL RUN BECAUSE THERE IS A RISK OF GETTING BURNED.



FOR YOUR OWN SAFETY GO TO A BULTACO MOTORS OFFICIAL SERVICE IF YOU DETECT ANY ABNORMALITY WITH THE BRINCO BRAKES OR IF YOU NEED TO PERFORM ANY MAINTENANCE WORK.

4.4. Wheels and tyres

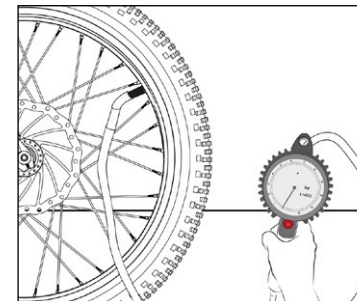
Proper tyre maintenance is very important. Check that there are no cuts, cracks, rips, lumps or bumps on the body of the tyre before each use.



IF YOU NOTICE ANY ABNORMALITY IN ANY OF THE TYRES REPLACE IT IMMEDIATELY.

Check and adjust the tyre pressure with each use of the vehicle. Always do this when the tyres are cold, which means that they have not been used in the hours prior to checking them.

Please check wheel misalignment. Remember they have to be always aligned with the chassis to avoid driving problems.



INADEQUATE PRESSURE OR POOR TYRE CONDITION CAN CAUSE:

- Unexpected bursts.
- Loss of vehicle control.
- Reduction of efficiency in the case of too low pressure.

Respect the minimum depth of the profile and if it is less, change the tyre. Make sure that the spoke tension is correct since that can cause unstable behavior.

Check that all spokes are tight.

In the event of any spoke is not tight enough, go to your **Bultaco Motors Official Dealer or Service.**



SUGGESTED PRESSURE:
BRINCO R / R-E / C: 1,8 BAR front – 2,2 BAR rear
BRINCO S: 2,2 BAR front – 2,5 BAR rear

MINIMUM PROFILE DEPTH:
BRINCO R / R-E / C: ≥ 1,5 MM
BRINCO S: ≥ 1 MM

4.4.1. Wheel Change

REMOVING THE FRONT WHEEL

- A** **Disassembles the rear side mirror.** Unscrew the Allen M5 screws in the handlebar. Remove the rear side mirror assembly from the handlebar.
- B** Turn your Brinco upside down and place the seat and handlebars on a flat surface. Place a wooden block or similar under the handlebar grips to prevent the display from touching the ground. You should also place a cloth on the seat so that it does not get stained or damaged. You must take special care not to hit the side stand or the rear light during the turn, as the support may be damaged if it is struck.
- C** Whenever the Moto-Bike is with the side stand unfolded, the vehicle must not be moved backwards. Otherwise, the pedal may cause the shock between the connecting rods and the sidestand pickup springs, causing damage to the connecting rod and springs. The recommended position would be, leaving the pedal just in front of the side stand. In this way, the maximum safety margin will be reached, before crushed the connecting rod with the side stand unfolded.
- D** Loosen the nuts from the wheel shaft slightly (1) with a 10 Allen key until both have been disengaged a few millimeters from the shaft. Remove one of the nuts completely.
- E** Loosen the 4 bolts from the bottom of the fork (2) with a 5 Allen key (they do not need to be removed completely).
- F** Hold the wheel by pulling it slightly upwards so that the axle stops supporting all of its weight. Hold the axle by the nut that was not removed (3) and pull to remove it completely from its housing.



BEFORE ANY OPERATION, ENSURE YOUR BRINCO IS TURNED OFF.



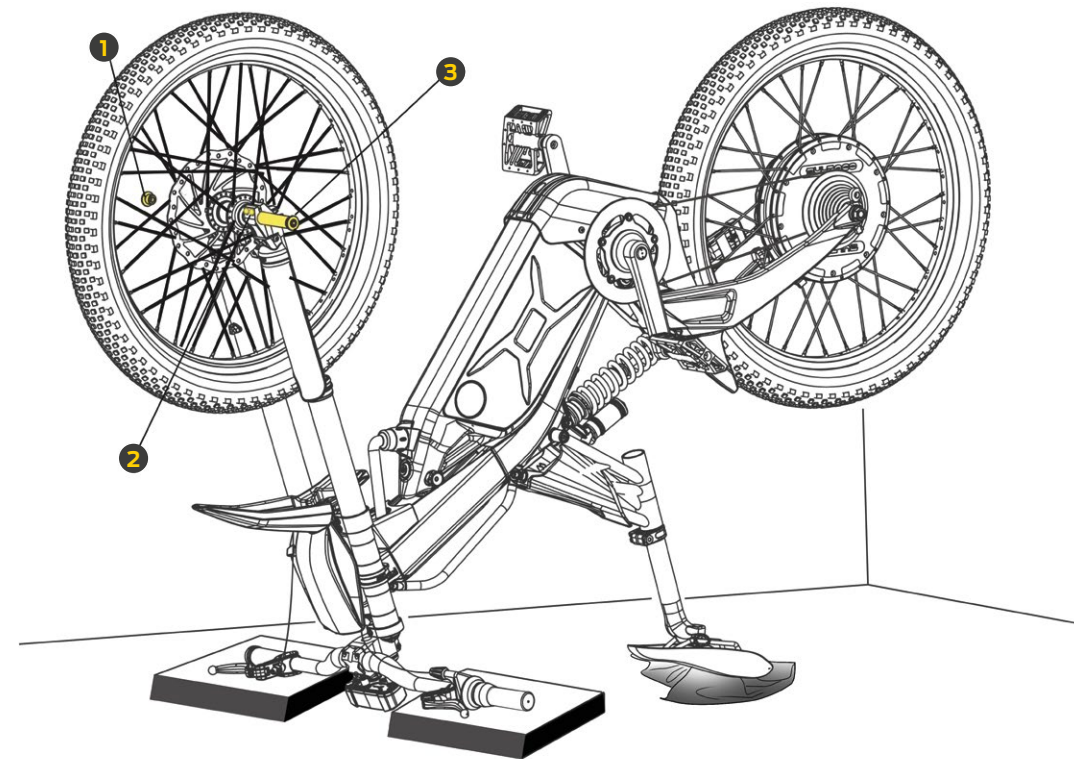
BE CAREFUL BECAUSE AS YOU REMOVE THE AXLE, THE WHEEL WILL START TO COME LOOSE.



TO MOUNT THE WHEEL PERFORM THE PROCESS IN REVERSE ORDER.



WHEN YOU MOUNT THE WHEEL BACK YOU SHOULD BE CAREFUL WHEN INSERTING THE DISC BETWEEN THE PADS OF THE BRAKE CALIPER.





BEFORE ANY OPERATION, ENSURE YOUR BRINCO IS TURNED OFF.

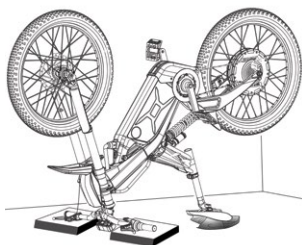


WE RECOMMEND CARRYING OUT THIS WORK WITH THE **BRINCO BATTERY DISCONNECTED.**

REAR WHEEL DISASSEMBLING

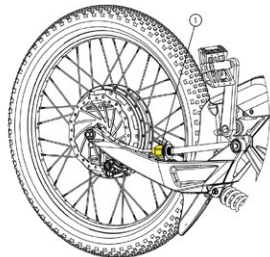
A

Turn your Brinco upside down and place the seat and handlebars on a flat surface. Place a wooden block or similar under the handlebar grips to prevent the display from touching the ground. You should also place a cloth on the seat so that it does not get stained or damaged. You must take special care not to hit the side stand or the rear light during the turn, as the support may be damaged if it is struck.



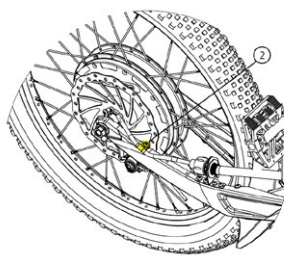
B

Whenever the Moto-Bike is with the side stand unfolded, the vehicle must not be moved backwards. Otherwise, the pedal may cause the shock between the connecting rods and the sidestand pickup springs, causing damage to the connecting rod and springs. The recommended position would be, leaving the pedal just in front of the side stand. In this way, the maximum safety margin will be reached, before crushed the connecting rod with the side stand unfolded.



C

Unplug the motor connector (1) which is anchored in the swing arm support. It will be as easy as slightly rotating it a quarter turn. [See section 3.2.1 to see how to unplug the connector].



D

Unscrew the bolt (2) that holds the engine cable on the swing arm with a T25 Torx wrench.

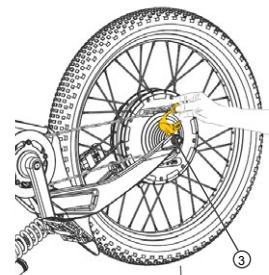


- **IMPORTANT! VERIFY THAT THE TORQUE ON THE WHEEL AXLE NUT IS 85 NM WHEN YOU MOUNT IT BACK.**
 - **DO NOT REMOVE THE WHEEL IMMEDIATELY AFTER A JOURNEY: THE ENGINE GETS HOT AND YOU COULD GET BURNT.**
 - **THE HEX WRENCH SUPPLIED BY BULTACO IS FOR EMERGENCY USE IN CASE OF A PUNCTURE DURING A JOURNEY.**

REAR WHEEL DISASSEMBLING

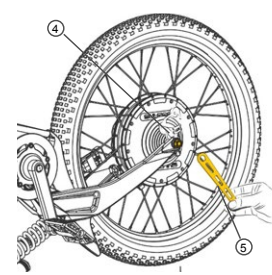
E

By pulling the derailleur (3), the chain will lose tension. Release the chain from the sprockets. Be careful however, as the chain is oiled and you may get dirty. Using gloves is recommended.



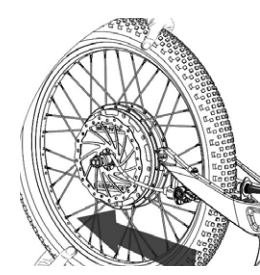
F

Loosen the nuts from the wheel axle (4) with a 19 hex key. They do not need to be removed completely from the axle. **IMPORTANT:** The key provided by Bultaco in your Toolkit (5) is only for emergency situations, such as for example, a puncture while on a mountain.



G

Move the wheel backwards and decouple it from the swing arm. Remember that the engine is integrated into the wheel, so take care when handling it so that it is not damaged.



ALL THE IMAGES IN THIS SECTION SHOW YOUR BRINCO IN AN **INVERTED POSITION (UPSIDE DOWN).**



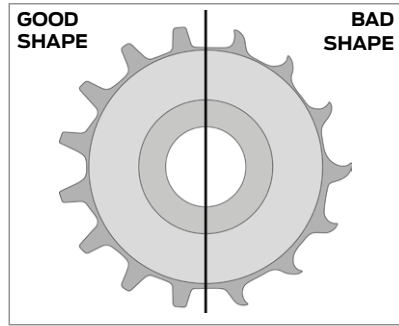
BEWARE. REMEMBER THAT WHEN YOU REMOVE THE REAR WHEEL YOU ARE ALSO REMOVING THE ENGINE.



WHEN YOU MOUNT THE WHEEL BACK, BE CAREFUL WHEN INSERTING THE DISC BETWEEN THE PADS OF THE BRAKE CALIPER.

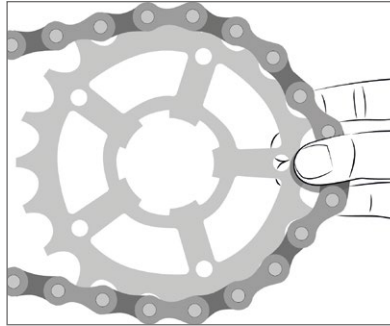


4.5. Transmission: Chain and Bottom Bracket



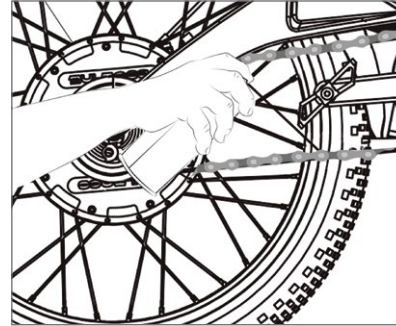
Check the wear on the gear rim and sprockets.

If you happen to notice that one of them has sprockets in poor condition (as indicated in the picture), go to a **Bultaco Motors Official Service** for a replacement.



Check the wear on the chain.

Periodically review the chain play. You must pull it carefully as indicated in the picture (for ease we recommend doing this in the area of the chainring). If in doing so you can see at least half-a sprocket of the drive chainring, go to a **Bultaco Motors Official Service** for a replacement.



Clean and lubricate the chain.

Remove dirt from the chain after each use. It is very important to maintain a suitable level of grease by regularly using appropriate products.

4.6. Washing

Regular cleaning of your Brinco is recommended to extend its lifespan and to ensure proper performance.

You must be careful not to damage any of the components. In order to do so we recommend:

- 1 Before cleaning, check that all electrical components are properly connected and the vehicle is turned off. **NEVER wash your Brinco with the battery removed from the vehicle.**
- 2 **DO NOT use pressure washer or steam appliances** that may cause the water to penetrate the seals, bearings and power components. We recommend applying soap with a soft sponge. **DO NOT directly wet any of the electrical power parts** [See section 1.3] or controls/connectors located on the handlebar [See section 2.3]. You can use a damp cloth to clean these areas.
- 3 The plastic parts should be washed with a soft sponge and soap. Never use abrasive products, solvents, or products that may scratch or damage them.
- 4 After washing, dry the vehicle with a clean dry cloth.
- 5 Once finished, **wait until your Brinco is completely dry before using it.**
- 6 After cleaning and before using the vehicle, try the brakes. Apply pressure to both brakes several times to remove the humidity in the pads.



BE CAREFUL WITH THE ELECTRICAL COMPONENTS WHEN WASHING YOUR VEHICLE.

4.7. Torques

Assembled part	Assembly thread and quality	Torque (Nm)	Safety	Max. torque (Nm)
Power arm with steering post	ALLEN BOLT M6x1 DIN 912 8.8	8-10	YES	10
Handlebar with power arm	ALLEN BOLT M6x1 DIN 912 8.8	8-10	YES	10
Upper locking plate with bar	ALLEN BOLT M6x1 DIN 912 A2-70	8-10 Sealed	YES	10
Fork tip lock	ALLEN BOLT M6x1 DIN 912 A2-70	8-10 Sealed	YES	10
Steering stem bolt	ALLEN BOLT M6x1 DIN 912 12.9	8-10	YES	10
Hand grip with chassis	HEXAGONAL BOLT M8x1.25 TITANIUM	22-24	NO	28
Subframe saddle with chassis	HEXAGONAL BOLT M8x1.25 TITANIUM	22-24	YES	28
Upper battery bracket with chassis	ALLEN BOLT M5x0.8 ISO 14583 8.8	4.5 -5.5 Sealed	YES	5.5
Swivel screw with rocker shaft	HEXAGONAL BOLT M8x1.25 8.8	22-24 Sealed	YES	24
Rear shock absorber with chassis	HEXAGONAL BOLT M8x1.25 TITANIUM	22-24	YES	28
Rear shock absorber with rocker	HEXAGONAL BOLT M8x1.25 TITANIUM	22-24	YES	28
Front wheel axle with fork	ALLEN BOLT M16x1.5 Al-6061	15-20 Sealed	YES	30
Front brake disc with spool	TORX BOLT M5x0.8 8.8	4.5 -5.5 Sealed	YES	5.5
Motor shaft with rocker	NUT M14x1.5	80-85	YES	120
Rear brake disc with engine	TORX BOLT M5x0.8 8.8	4.5 -5.5 Sealed	YES	5.5
Front brake caliper support with fork	ALLEN BOLT M6x1 DIN 912 A2-70	8-10 Sealed	YES	10
Front brake caliper with wheel fork	TORX BOLT M6x1 8.8	8-10 Sealed	YES	10
Rear brake caliper with rocker	TORX BOLT M6x1 8.8	8-10 Sealed	YES	10
Pedal rods to axis pedals	HEXAGONAL BOLT M10x1 10.9	50-55	YES	65
With rod pedal	THREAD 9/16 x 20 PPI	48-54	YES	55
Left housing Schlumpf box with chassis	THREAD D31x1	140-160	YES	160
Screw shift button	ALLEN BOLT M3x0.5 8.8	1.1-1.3	NO	1.3
Derrailleur with chain support cradle	ALLEN BOLT M10x1 Al-6061	17-20 Sealed	YES	20
Controller with chassis	TORX BOLT M5x0.8 8.8	4.5-5.5 Sealed	YES	5.5
Flange saddle with chassis saddle	ALLEN BOLT M6x1 DIN 912 8.8	8-10	NO	10
Biker manager with chassis	SELF TAPPING SCREW D4.2	3.5-4	NO	4
Side stand with support	ALLEN BOLT M6x1 8.8	8-10	NO	10
Side stand support with chassis	ALLEN BOLT M6x1 10.9	11-13 Sealed	YES	13
Claxon with support	TORX BOLT M6x1 8.8	8-10	NO	10
Front light with support	ALLEN BOLT M6x1 8.8	8-10	NO	10
Rear light with support	ALLEN BOLT M4x0.7 8.8	2.5-3	NO	3
Rear mudguard support	ALLEN BOLT M4x0.7 8.8	2.5-3 Sealed	NO	5.5
Mirror bracket with handlebar	ALLEN BOLT M5x0.8 8.8	4.5-5.5	NO	3
Mirror with bracket	NUT M8x1.25	15-18	NO	24
Motor covers with rotor	TORX BOLT M4x0.7x12 ISO-14581 INOX A2	3.5-4 Sealed	YES	4

4.8. Maintenance table



Task to be carried out by the user.



Scheduled maintenance by Bultaco.

	Component	Task to perform	👤	👤	🔧
			Before each use	After each use	Every 310 miles or 12 month
Chassis	Chassis	Check general state of the structure.	X	X	X
	Headset	Check for play on the headset bearings. Adjust if necessary.	X		X
	Headset	Check for proper tightness of the handlebar stem. Adjust if necessary.	X		X
	Seat clamp	Check tightness of quick release seat clamp.	X		X
Swing arm	Seat post	Check for play on the seat tube.	X		X
	Swing arm	Check general state of the structure and dropouts.	X	X	X
	Swing arm	Check for play on the swingarm bearing. Grease every 4,971 miles.			X
	Swingarm axle	Check tightness of swingarm axle. Adjust if necessary.		X	X
Transmission	Bottom bracket / Crankset	Check for play on the bottom bracket and crankset.			X
	Chain	Check for play and lubrication, clean and apply oil.	X	X	X
	Chain, chainring, cassette	Check for wear, replace if required.			X
	Deraillleur	Check for accurate shifting, clean and lubricate. Check state of the cable.	X	X	X
Brakes	Schlumpf	Lubrication of gear system.			X
	Brakes	Check braking power.	X		X
	Brake levers	Check brake lever travel, lubricate.	X		X
	Pads - discs	Check state.	X		X
Wheels	Pads - discs	Check wear, replace if necessary.			X
	Cables	Visual inspection. Search for damage or leaks.	X		X
	Tyres	Check pressure.	X		X
	Tyres	Check state and wear of the tyre.	X		X
Suspension	Wheels	Check for play on the wheel axle.			X
	Rims	Check spoke tension.	X		X
	Shock absorber	Check upper and lower bushings.			X
	Shock absorber	Check for oil leaks.			X
Electrical system	Fork	Check shock absorber adjustments and dust wipers.			X
	Fork	Lubricate with specific grease.*			X
	Fork	Check for oil leaks.			X
	Controller	Check state. Read DTC.			X
Hardware	Cables and connectors	Check state of the cables and correct connection of all systems.	X	X	X
	Battery	Check state of charge.	X		X
	Battery	Charge the battery.		X	
	Accelerator grip	Check if it can turn freely.	X		X
Nuts and bolts	Check all the recommended tightening torques.			X	

* You must always use the original **Bultaco** spare parts, as well as the grease recommended by the manufacturer. For more information, please contact your **Official Distributor or Service from the Bultaco Network**.



You must carry out every maintenance service recommended by **Bultaco Motors S.L.** If you do not follow them in the indicated dates, you will lose your warranty.



5

■ TROUBLESHOOTING

5.1. Troubleshooting

In spite of the fact that each Brinco has been carefully inspected prior to leaving the factory, there may be circumstances beyond our control that may cause some kind of failure.

In the event that your Brinco suffers a problem, we have provided the following indications that may help you though it. However, we recommend that you go to your **Bultaco Motors Official Dealer or Service** in the event of a fault.



IN THE EVENT OF A FAULT GO TO YOUR BULTACO MOTORS OFFICIAL DEALER OR SERVICE.

ALERT INDICATOR			
TYPE OF ALERT SIGNAL		EFFECT OF THE ALERT	CAUSE OF THE ALERT ACTION TO BE TAKEN
Slow flashing		The vehicle slightly reduces the performance level as part of the protection system.	It indicates that you must reduce the level of performance requested from the Brinco and assist by pedaling.
Quick flashing		The vehicle reduces the performance level even more as part of the protection system.	It indicates that you must reduce the level of performance requested from the Brinco and help more with the pedaling, otherwise, the vehicle will stop.
Continuous light		The vehicle stops.	If it appears after the flashing light, the vehicle has been stopped as part of the protection against a situation of excessive temperature in any of the power elements. Allow some time for the temperature to drop and restart your Brinco.
Very slow flashing		The vehicle only works in ECO mode.	It indicates that there has been a break in the engine temperature sensor. You must go to your Bultaco Motors Official Dealer .

BRINCO DOES NOT TURN ON

1. Check that the battery is sufficiently charged y **está correctamente conectada.**
2. Make sure that you have successfully passed the wristband/starting card close to the dashboard's NFC antenna.
3. Check that the stop button is in the ON position.
4. Verify that the battery connector is correctly plugged in.
5. Visually check that all the connectors are plugged in and that the cables are in perfect condition.

BRINCO HAS STOPPED

If this occurs during a ride it is possible that:

1. The battery is empty. Check the battery level displayed on the dashboard and if so, look for a main supply to charge the battery.
2. The overheating protection system has been activated on any of the power elements (battery, motor, controller). Turn the vehicle off and wait for it to cool down. Turn it on again after a while

5.2. The Ultimate Brinco

Power Control:

Power Control lets you maintain constant power, always providing the same thrust. Use it to optimise energy consumption and battery life.

Overdrive:

Use the Overdrive when riding at higher speeds. Activate it with a simple movement of your right leg.

Dual traction:

Although the pedaling and motor systems are independent, they can be combined for enhanced riding pleasure.

3 RIDING MODES		
SPORT	TOUR	ECO
Up to 50 km*	Up to 75 km*	Up to 100 km*

*Depends on terrain, weight, version and use of the pedals and throttle.

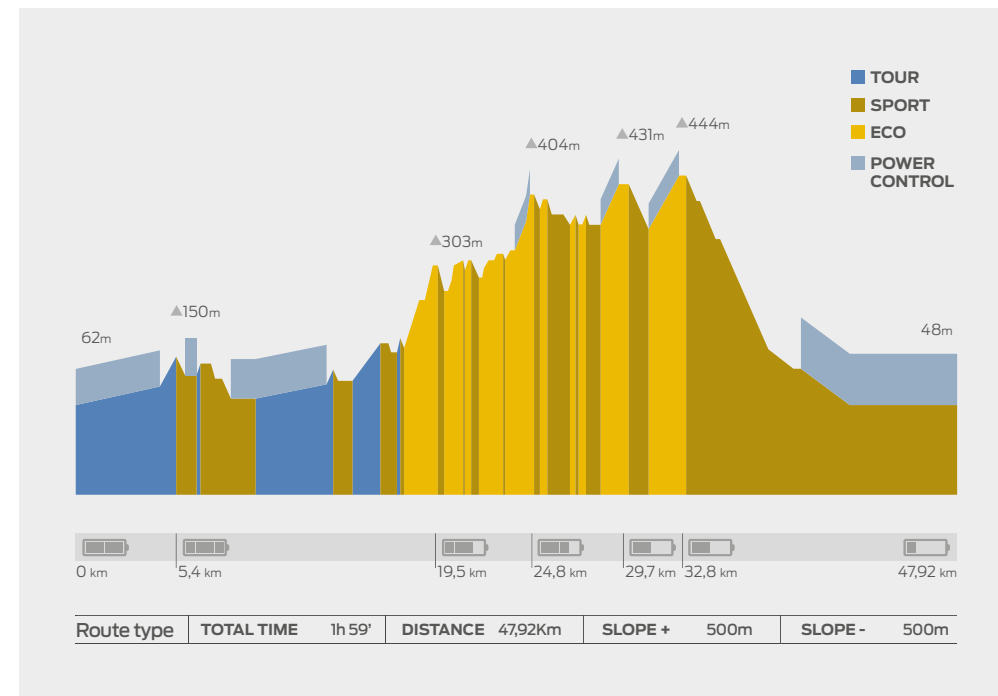
5.3. Tips from our riders

On this sample route, on which you cover a variety of terrain, with flats, grades and descents, our riders tell you how to combine riding modes with the pedaling system, Power Control and Overdrive. 100% Bultaco fun guaranteed for two hours!

Keep in mind that this is just an example. You decide how far you can go on your ride, which will depend on how you combine the three modes.

- The pedaling and motor are independent, but you use them both throughout your ride to get the very most out of the Brinco.

- ▶ To attack hills always use the ECO Mode in combination with the pedals.



A man with a grey beard and hair, wearing a dark wetsuit, is shown from the chest up. He is holding a surfboard under his arm. The background is a bright, yellowish beach scene with a clear sky and a sandy shore. The overall color palette is dominated by warm, golden-yellow tones.

brinco

by BULTACO

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