

brinco
by BULTACO

Rock your Way

User Manual

THEELECTRIC MOTO-BIKE



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Welcome bultaquista

First of all thanks for buying a Bultaco. We are proud of having your confidence. The new Brinco is a new and groundbreaking concept, the Moto- Bike, that you will enjoy as never before dreamed.

For Bultaco innovation is not only to reach new technological goals, but also to offer new experiences. And their Brinco is something completely new, ground-breaking, it is the result of the will to transfer the Bultaco spirit to a new era, with a new language, but always true to the classic brand values: passion, innovation, competition.

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

Whether short or medium distances, the Brinco is above all a play, evasion and fun mate as no other. Because Bultaco Brinco will take you where you want, where your head wishes, further and faster than where your legs alone would be able to reach.

USER MANUAL

1st Edition, August 2015

Important

Listed below is the most important information to enjoy your Brinco.

We recommend to read carefully this user manual 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 helmet, gloves and protective clothing.

Consider that you move in a fast and quiet vehicle, therefore be careful with people and animals around you.

In this manual we will give advice and warnings so you can take full advantage and keep your Brinco as brand new. Therefore we recommend to use original parts /accessories and mounting them at a Bultaco Motors Dealer.

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

If after reading this manual you have any doubt or miss any information, please contact your Bultaco Motors Dealer.

This user manual:

- Contains important technical and safety information.
- Describes generally the most important functions 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 continuous improvement of our Bultaco products.

All information in this manual are 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.

LEGAL PROVISIONS



WARNING!

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

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 of obtaining another driving license.
- Risk of accidents and serious injuries.



INFORMATION

BEFORE USING YOUR BRINCO LOOK AT YOUR LOCAL REGULATIONS RELATED TO THE USE OF ELECTRICAL AND MOTOR VEHICLES.

THE BRINCO, NOT HAVING TYPE APPROVAL ELEMENTS REQUIRED FOR CIRCULATION, IS NOT SUITABLE FOR USE IN PUBLIC WAYS.

For any questions, you can contact one of our Bultaco Motors Dealers.

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

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



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General Warning

1.1. General Warning

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

Your Brinco is not a competition vehicle and 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 safely and reliably your Brinco performance. Make sure you know the importance of checking all items carefully before riding the vehicle.

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

Remember that the power components of your Brinco should be handled only by authorized personnel of Bultaco Motors S.L. [See 1.3].

Throughout these instructions you will find different types of indications. Following the symbols used are detailed.

With them we are letting you know that if you do not follow or break them you will be conducting a misuse or your Brinco will not work correctly. Remember that, in addition to loss of warranty, you will endanger yourself and other people who share your way.



INDICATES THE **EXISTENCE OF POSSIBLE DANGERS** TO THE VEHICLE OR OTHER PARTIES.



WARNS OF **HEALTH HAZARD** AND POSSIBLE RISKS OF **SERIOUS INJURIES**.



INDICATES THE EXISTENCE OF **USEFUL TIPS** AND SPECIAL INFORMATION.

1.2. Operation Safety

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

- **Whenever you do not use your Brinco, place the engine stop button in OFF position** [See 2.3]. It's easy to forget that it is on and an accident could occur when getting on or off it.
- Similarly, **to move the vehicle without riding it**, place the engine stop button in OFF position [See 2.3].
- **If you are not going to use the vehicle for more than 30 days**, we recommend unplugging the battery from the moto-bike and keep it connected to the charger during the parking. If you cannot keep it plugged in, we recommend that at least once every 30 days a full battery charge is performed. Leave the battery plug in whenever it is possible, use always the cable / charger supplied by us, it has been designed to use with the electrical components of this moto-bike [See 3.2].



ALWAYS USE THE ORIGINAL BULTACO BATTERY CHARGER.

- To get the most out of the battery, recharge it immediately after each ride. If you leave the battery discharged it could be damaged.



THE BATTERY MAY BE DAMAGED IF FULLY DISCHARGED.

- 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.



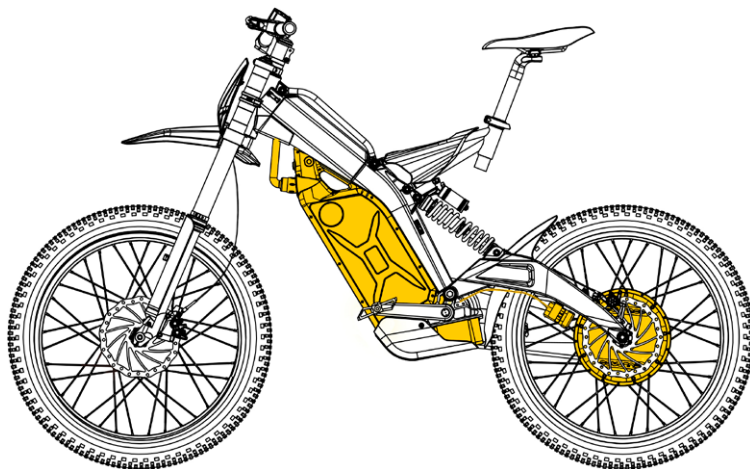
FOLLOW THE INSTRUCTIONS FOR BATTERY CHARGE AND STORAGE.

1.3. Locating Power Components

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

Manipulation (except for assembly / disassembly and battery charging and engine disconnection for handling the rear wheel) must only be made by a Bultaco Motors Dealer.

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



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



NEVER CUT CABLES OR MANIPULATE POWER PARTS.

Power Zones



Vehicle Description

2.1. Presentation

The Bultaco Brinco surprises with its innovative design, its technology and the effectiveness of each of its elements. 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 look, the Bultaco Brinco makes clear that it is something new and is not comparable to the segments previously known. Its features might remind those of a competition mountain bike, a dirt bike, a cross motorcycle or an urban trail, but its design and the engineering solutions that define it reveal it as a special machine that exceeds the established labels.

Brinco opens space to multiple riding choices, offering to everyone the opportunity to decide how “to equalize” the best motor / pedal combination for every situation: engine, independent pedaling or a combination of both.

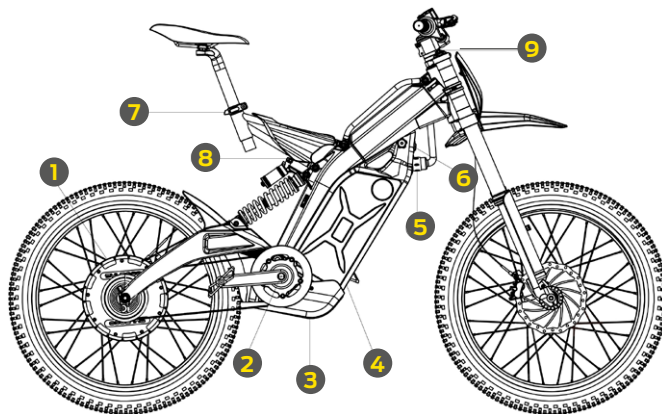
Thanks to its impressive torque of 60Nm, weighing just 39 kg and a range of up to 100 km, Brinco offers pure fun.

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

Rock your Dau



2.2. Location of Components



1 Three-phase Permanent Magnet Motor. [See 2.9]

2 Planetary gearbox [See 3.5]

Possibility of Change: Overdrive - Low Range Gearbox (2) by touching the button located at the base of the rod. By right foot it goes to the gear ratio of higher speed.

3 DC / AC Three Phase Controller [See 2.9]

4 Power Cell Li-Ion Matrix Battery [See 2.9]

5 Battery Connector [See 3.2.1]

Disconnect your battery power system quickly with a simple twist of the connector counterclockwise.

6 Battery safety lock [See 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 to remove it is required.

7 Seat Regulation [See 2.9]

With the standard sub-chassis, the seat can reach a minimum height of 1 meter down to ground (cutting the seat bar). There is also the option to purchase a LowSeat sub-chassis that allows you to further reduce seat height.

8 Rear Suspension Regulation [See 4.1]

9 Front Suspension Adjustment [See 4.2]

2.3. Handlebar Controls



1 Dashboard [See 2.3]

2 Front brake lever [See 2.9 - 4.3]

IDENTIFY CORRECTLY BRAKES POSITIONING. The front brake lever is on the right handlebar grip. Switching ON your Brinco, that the accelerator returns correctly to its position when you release it after accelerating.

3 Rear brake handle [See 2.9 - 4.3]

IDENTIFY CORRECTLY BRAKES POSITIONING. The rear brake lever is on the left handlebar grip.

4 Throttle control

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

5 Stop button [See 3.3]

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

6 Power Button Control [See 2.6]

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




7 Shifter [See 3.5]

9-speed gear ratio.

2.4. Dashboard



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

- 1 Speedometer (km / h - mph)** [See 2.5]
- 2 Driving mode: ECO - SPORT – TOUR** [See 4.5 - 2.9]
To the right of mode you will see that instantaneous power is shown in W.
- 3 Battery Level**
When the battery level falls below 2 bars (22% battery), the low battery indicator will light.
- 4 Odometer / Trip** [See 2.5]
- 5 Activation indicator** 
Will be lighting when Brinco is powered on.
- 6 Low battery indicator** 
Active, when 2 or less battery bars are displayed.
- 7 Warning Indicator** [See 5] 
This light flashes when you turn on your Brinco and testing is being performed. Once testing has finished, the light will remain fixed until the moto-bike is ON (power button is ON).

Normally, the light will be off. If this light is on it will mean that something is not working properly in your Brinco, that self-protection mode is on or that a system failure has been detected.
- 8 MODE Function** [See 2.4]
- 9 SET function** [See 2.4]
- 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 bracelet/card.

2.5. Dashboard Configuration

SWITCHING BETWEEN KM / H - MPH



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



The measurement unit changes automatically.

CHANGING RIVING 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 with a short press the **"MODE"** button.

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

- Battery level between 2 bar (22%) - 8 bar (100%)

It allows change from ECO ——— to ———> TOUR
 TOUR ——— to ———> SPORT
 SPORT ——— to ———> ECO

- Battery level from 1 bar (11%) - 2 bars (22%)

It allows change from ECO ——— to ———> TOUR

- Battery level between 0 bar (0%) - 1 stick (11%)

Only allows ECO mode

ODOMETER - TRIP 1 - TRIP 2

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

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

SUMMARY OF FEATURES

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

2.6. POWER CONTROL Button

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

To use the power button, you should accelerate to achieve the desired power level (you can check its value in the dashboard) and press the Power Control button to keep it. After this moment you can stop accelerating and the vehicle will continue its ride at the desired power.



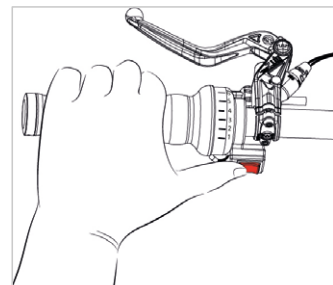
WHENEVER POWER CONTROL IS ON, RIDE USING EXTREME CAUTION.

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

With Power Control active, you have the possibility to operate the accelerator and overcome the value of cruising power if necessary.

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

Once you select the cruise power, it will be set and displayed in the dashboard until Power Control is turned off.



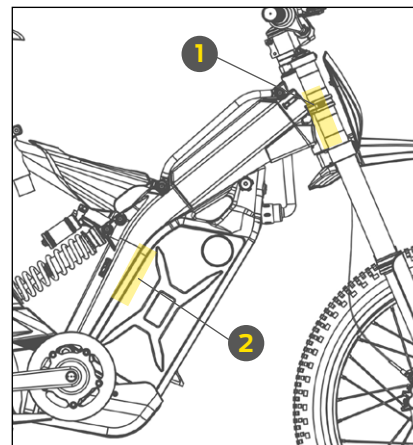
POWER CONTROL WILL BE DEACTIVATED WHEN:

- PUSHING THE POWER CONTROL BUTTON
- PRESS ANY OF BOTH BRAKE LEVER

2.7. Identification Number

1 Vehicle Identification Number VIN (Serial number)

The VIN is a number of 17 digits printed on the right side of the steering tube.

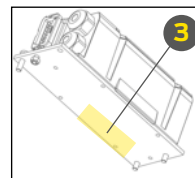


2 Battery Identification Number

On the lower side of the battery there is a warranty seal with safety instructions and its identification number.

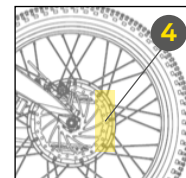
3 Controller Identification Number

The controller identification number is engraved on the chassis supporting aluminum 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

ENGINE	
Type	<p>Three-phase permanent magnets brushless motor. (Maximum power 2.0kW).</p> <p>PMAC Brushless radial flow with passive air cooling with integrated speed and temperature sensors.</p>
Control Unit	<p>Three-phase DC/AC controller (50V-55A Maximum power)</p> <p>Three selectable driving modes:</p> <p>SPORT: 2 kW TOUR: 1.5 kW ECO 0.9 kW</p> <p>Regenerative deceleration Self-diagnostic system</p>
Max speed without assisted pedaling	> 60 km/h

POWER SYSTEM	
Type	Lithium-ion cells battery with integrated management system "Power Cell Li-Ion Matrix" (1.3 kWh).
Nominal Capacity	26,1 Ah
Charger	<p>Portable with high performance specific for the Power Cell Li-Ion Matrix of Bultaco Brinco.</p> <p>Power 465W Input 110 Vac - 240 Vac Output 58.1 Vdc / 8A</p>
Charging time (standard)	<p>0%-100% - 3,5h 0%-95% - 3h 0%-80% - 2h</p>

RANGE

Road - Mountain	ECO mode (avg speed 25 km/h) until 100km
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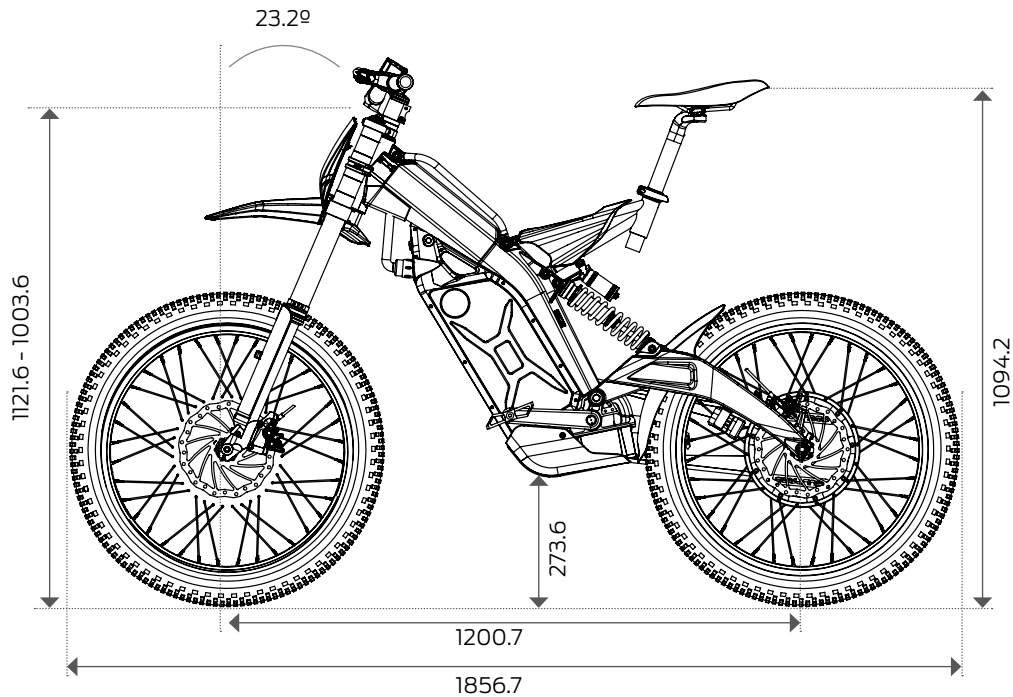
TRANSMISSION

Pedaling	Manual 9 synchronized speed grip + Overdrive – Reduction system with pedals.
Engine	Direct Drive System

CHASSIS / SUSPENSIONS / BRAKES

Frame	Type central spine with light aluminum alloy.
Swingarm	Mono-Shock of light aluminum alloy.
Front suspension travel	180 mm.
Rear suspension travel	217 mm.
Front brake	Hydraulic system with 4-piston caliper and disc diameter of 203 mm.
Rear brake	Hydraulic system with 2-piston caliper and 203mm disc diameter.
Front tire	Off Road Tyre 24x3" [507-75 ERTRO]
Rear tire	Off Road Tyre 24x3" [507-75 ERTRO]
Front wheel	Aluminum - 24" [25x507 TYPE C ERTRO]
Rear wheel	Aluminum - 24" [25x507 TYPE C ERTRO]
Front suspension	Inverted telescopic fork with adjustable preload spring and hydraulic extension.
Rear suspension	Aluminum mono-shock with separate tank. Adjustable preload and compression hydraulic spring.

2.9. Dimensions



DIMENSIONS

Distance between axis	1.200,7 mm
Seat height	1.121,6 - 1.003,6 mm
Release angle	23,2°
Bottom height to ground	273,6 mm
Total length	1.856,7 mm
Width	760 mm
Height	1.094,2 mm

WEIGHTS

Vehicle (Without battery)	31,5 Kg
Vehicle (With battery)	39,5 Kg
Load Capacity	100 Kg



General Operation

3.1. Prior checks

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



1. Adapt **seat and handlebar height** 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. Adapt the position of the **brake levers** so that you can always easily reach them. Make sure you're well acquainted with the allocation of the brake levers (front brake to the right / rear brake to the left). [See 4.3]



3. Check the **operation of the brakes**. Press each brake lever individually while pushing the vehicle to check that the wheels lock completely. [See 4.3]



4. Check **tire condition and pressure** periodically [See 4.4]



5. With the **engine stop button in off position** [See 2.3] operate the accelerator control and release it to check that it returns to its initial position.



6. Check the **status of the sprockets, transmission plate and the chain lubrication** [See 4.5]. Make adjustments if necessary.



IMPROPER PRESSURE OR BAD SHAPE OF THE TIRES CAN CAUSE UNEXPECTED BREAK OF THEM AS WELL AS A LOSS OF CONTROL OF THE VEHICLE. LOW PRESSURE WILL REDUCE THE RANGE SIGNIFICANTLY.



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



7. Check the **electrical system** of the vehicle (battery, motor, controller, power wiring). All wires and elements must be in perfect condition and external connectors positioned correctly.



8. Check **battery level charge** through the dashboard. [See 2.4].

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

BATTERY AND CHARGER

The battery incorporates a **Management System (BMS)** that monitors cells status and optimizes the charging to provide maximum performance and longer lifespan.

Fully charge the battery before first use. During charging, the charger LED will light yellow. When the battery is fully charged, the charger LED will light green so that the battery is ready for use.

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

If **during a long trip** the level of the battery charge achieved 25% (2 bars on the dashboard) of total capacity, the battery management system would switch to ECO mode automatically. The system would be deactivated before total battery discharge occurred.



NEVER CUT WIRES OR MANIPULATE POWER COMPONENTS. IT CAN CAUSE SERIOUS INJURY.



THE BATTERY HAS A SAFETY SEAL WITH ADVICES. BEING A POWER ELEMENT IT CAN ONLY BE HANDLED BY A BULTACO MOTORS DEALER.



BREAKING THE SAFETY SEAL SHALL RESULT IN AUTOMATIC LOSS OF 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 / 110V AC 60Hz). **Remember** that this operation can be performed with the batteries on or off the vehicle 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 carefully.

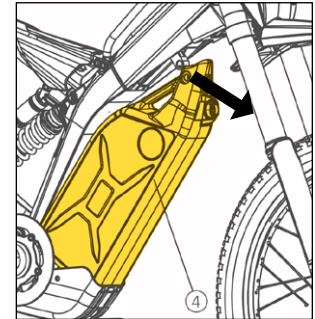
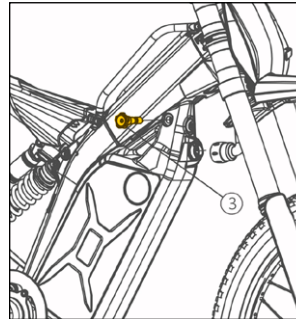
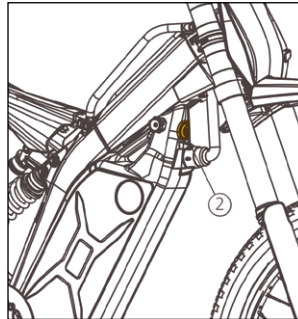
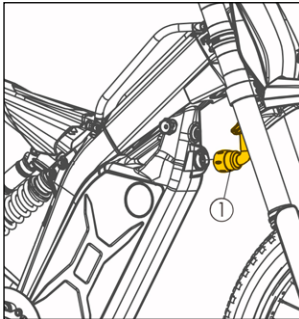
2. Enter the key provided by Bultaco to unlock the battery safety lock.

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

4. Hold the battery firmly, rotate it slightly on its base to release the anchoring with the chassis.



ALWAYS CHARGE THE BATTERY WITH THE ORIGINAL BULTACO BATTERY CHARGER





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

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

6. Place the battery horizontally in a safe position and close to the socket. Connect the charger to the battery and to the electrical network. Charging will start automatically.

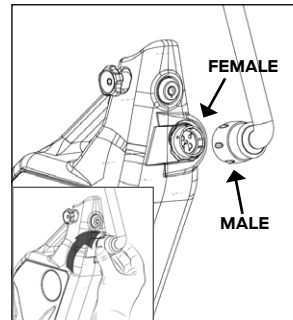
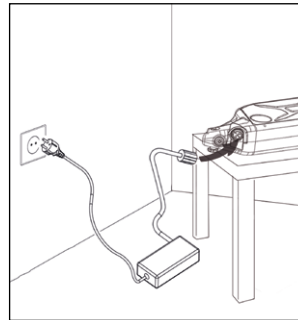
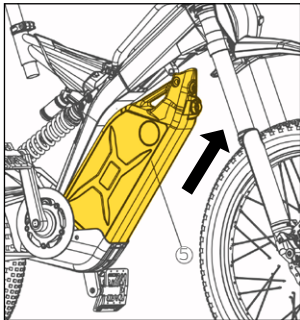


TO REASSEMBLE YOUR BATTERY, FOLLOW THE STEPS DESCRIBED IN REVERSE ORDER.

7. When you plug the male connector to the battery, either the moto-bike's or the charger's, be careful not to damage it. Note that both connectors, male and female, have notches on the inside that must match. Introduce the male into the female connector until it stops and then rotate its housing clockwise a quarter turn to secure it.

8. Once the charger is connected, it will perform a verification test before beginning to charge automatically. Following is a list of the indications on the charger.

[See 3.2.2]



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

IT IS RECOMMENDED TO **TIGHT BATTERY SCREW USING ALLEN 5 WRENCH PROVIDED WITHIN OUR TOOLKIT,** TO PREVENT GETTING LOOSE THE SCREW.

3.2. Battery Charge

3.2.2 Battery recharge

CHARGER INDICATOR



The battery is charging.



The battery is fully charged.




Failure during charging.
Check charger indications.





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 UNTILL THE BATTERY IS FULLY CHARGED. BATTERY CHARGE INTERRUPTION COULD CAUSE LOSS OF CAPACITY OR PREMATURE BATTERY FAILURE.

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 must press the button  for 2-3 seconds and disconnect from the network.

To pause the charge makes a short press the button . The green and yellow LEDs will light alternately. In this state the power socket cannot be disconnected. To continue charging you must make a short press on the button  - or wait 1 minute.

Although the battery is fully charged, if it continues plugged, the charger will **check the state of charge periodically to ensure that the charge is complete**. If the charger does not indicate that the battery is fully charged, it will still try to charge fully.

If you will not use the vehicle for long periods of time you must disconnect the battery from the moto-bike, but we recommend to keep the Brinco battery connected to the charger **if it is not going to be used for more than 30 days**. In case you decide not to keep the battery connected to the charger, make sure you remember to perform a charge of at least two hours every 30 days.







TO IMPROVE BATTERY LIFE AS MUCH AS POSSIBLE AND OPTIMIZE ITS PERFORMANCE, RECHARGE IT REGULARLY.

TO REACH MAXIMUM BATTERY PERFORMANCE AT LEAST 5 CYCLES OF DISCHARGE AND CHARGE ARE REQUIRED.







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

3.2.2 Battery Recharge

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

LED INDICATORS

Operating condition during error	 < 80%	 > 80%	 100%		Error number
Missing battery				X	1
Battery failure	Flash			X	2
Time failure	X			X	3-4
Adjustment failure		X		X	10-14
Temperature failure			X	X	6

FAULT CLEARANCE

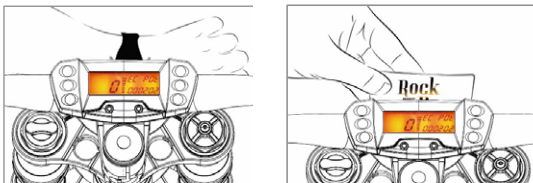
Error number	Procedure
1,2,3,4	Check battery and battery wiring
6,11-13	Ask for charger verification at your Bultaco Motors Dealer

3.3. Start your Brinco

After performing the checks described in paragraph 3.1.1., your Brinco is ready to start riding.

For its start you must follow the following procedure:

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



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

Clarification:

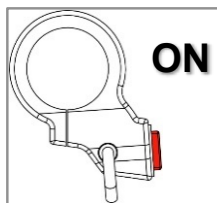
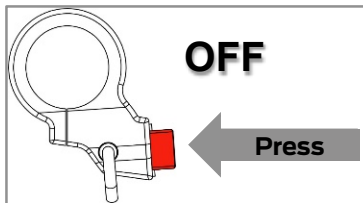
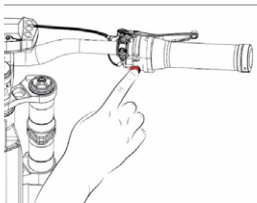
If the power button is ON, the warning light will be illuminated permanently and you must operate any brake before starting off.



YOU WILL RECEIVE A "MASTER" CARD WITH YOUR BRINCO WHICH WILL ALLOW YOU TO CREATE COPIES OF YOUR CARD / BRACELET [SEE 3.3.1]

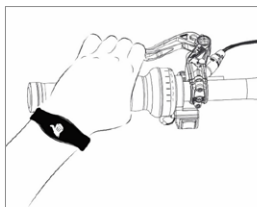


3. Once the check is finished the warning light on the instrument panel will turn off and you have to place [See 2.4] **the power button in ON position**. [See 2.3]



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

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



USE THE THROTTLE CONTROL WITH CARE. THE **ABSENCE OF NOISE MOTOR** **MAY BE MISLEADING** ON THE POWER OF THE VEHICLE.

3.3.1- Starting Card / Bracelet Copy

We will provide with your Brinco a Master card. This card allows you to make up to 10 copies of cards/bracelets.



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



IF YOU LOSE YOUR MASTER CARD GO TO YOUR BULTACO MOTORS DEALER

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

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

3.4. During the ride

The Brinco is designed for a **combined ride** using both pedaling and electrically assistance thanks to its engine integrated in the rear wheel.

By default, after starting up, the system is activated in **ECO mode**. To change into TOUR or SPORT mode you have to shortly press the “MODE” button [See 2.5].

A prolonged use in non-combined mode (without pedaling), at high engine torque in steep terrain as well as continued riding in SPORT mode regimes produce **greater consumption of energy** that could lead to engine, controller or battery overheating. In these situations, a self-protection system that progressively reduce the maximum power available as a function of external stress and temperature of the powertrain components will be automatically activated.

Activation of this system of self-protection is displayed on the instrument panel by means of a warning light through several phases:

- A first phase of slow flashing with slightly reduced performance.
- A second phase of rapid flashing with further reduced performance.
- A third phase of steady light that will stop the vehicle.

If the flashing warning light appears, it is recommended to reduce the level of performance required from the Brinco and help by pedaling in order to not achieving the status of steady warning light that would completely stop the vehicle.

If you reach this situation, the self-protection system will disconnect completely the power from the engine. **You must wait a while until the temperature is restored** to normal operation values to start it again.



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



***ECO MODE** IS THE MOST RECOMMENDED ONE FOR USE IN AREAS WITH STRONG AND LONG HIKES.*

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

PLAN YOUR ROUTE IN ADVANCE.

3.5. Gear shift / Transmission

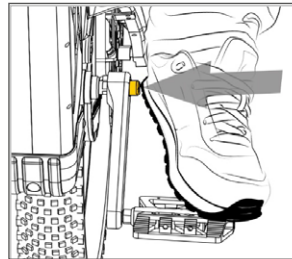
To get the most out of pedaling, your Bultaco Brinco has a transmission composed of a **planetary low range gearbox and a cassette of 9 sprockets**.

By combining the different gear ratios you'll get the performance needed at all times.

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 need of torque). It is operated by pressing the button on the base of the left foot rod. It can be done with the vehicle moving.



CASSETTE

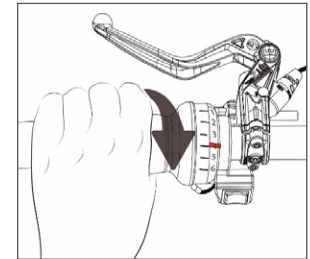
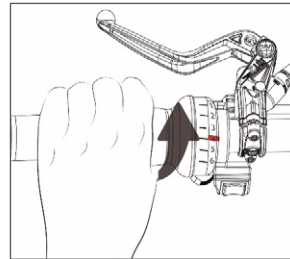
9 sprockets selectable from the handlebar gear shifter:

HIGHER SPEED

1 - Big sprocket for short gear ratio (increased need of torque).

HIGHER TORQUE

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



COMBINATIONS

OVERDRIVE + Sprocket 9 ▶ Max Speed

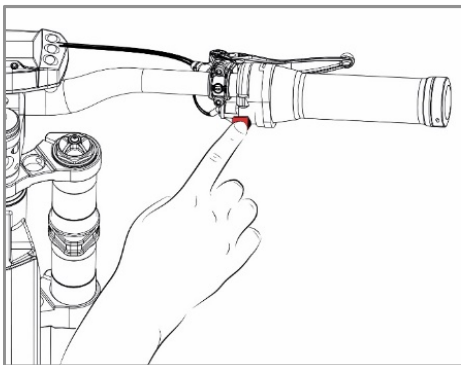
LOW RANGE GEARBOX ▶ Max Torque

3.6. Stop your Brinco

1. **Release** the accelerator and brake the vehicle until it stops.

2. Press the **stop button** and place it in OFF position.

Interchangeably, you can disable your Brinco using your card or bracelet on the front of the dashboard until the dashboard goes out.



MAKE SURE THE VEHICLE IS COMPLETELY OFF AFTER DISABLING IT



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



GET THE MOST OUT OF THE BATTERY, **RE-CHARGE IT IMMEDIATELY AFTER EACH RIDE**



THE BATTERY MAY BE DAMAGED IF FULLY DISCHARGED.

3.7. Directions for use

From Bultaco we want to convey the following tips while riding:

- 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, and medicines that may alter your reaction capability.
- 3 Always use proper equipment including helmet, footwear, gloves, etc.
- 4 Do not hang objects from the handlebar or other vehicle parts. Use accessories prepared for the transport of packages provided by Bultaco.
- 5 Do not carry passengers. Brinco is designed to transport one person.
- 6 Never ride the vehicle being pulled by somebody.
- 7 If you perform a descent remember to keep your weight back and as low as possible.
- 8 Please respect the rules and the environment.
- 9 If the warning light flashes, remember to reduce the level of performance demand that you are applying to your Brinco and help by pedaling before the light becomes steady since then, the protection system disconnects power.
- 10 Rock your Brinco!

3.8. Directions for Parking

Brinco is designed to operate under every normal environmental conditions but heat or extreme cold can influence when it is running or 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 delivery when riding. **Avoid parking the vehicle in places where ambient temperature is below -20 °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.**

During the ride, the electrical components are subject to a 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, **temperature range for operating your Brinco is between -20/-4 °F and 55 °C/131 °F.**



IN WINTER, IF YOU'RE NOT USING YOUR BRINCO, WE RECOMMEND TO LEAVE IT CONNECTED TO THE CHARGER CONTINUOUSLY.



IN SUMMER, REMEMBER THAT THE TEMPERATURE RANGE FOR CHARGING IS 0 TO 40 °C.



TEMPERATURE RANGE FOR OPERATING YOUR BRINCO IS BETWEEN -20 °C / -4 °F AND 55 °C / 131 °F.



Maintenance

4.1. Adjusting the rear suspension: Shock Absorber

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

To get the correct preload of the suspension 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 preload. It is recommended that the shock stroke be 10-15 mm for normal riding and 15-20 mm if going downhill.

Recommendations on the shock absorber:



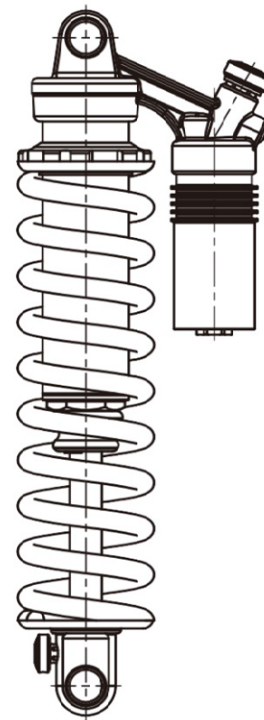
Do not try to remove the shock absorber. If it does not operate normally go to a Bultaco Motors Dealer. Damage caused by misuse or removal will cause loss of warranty.



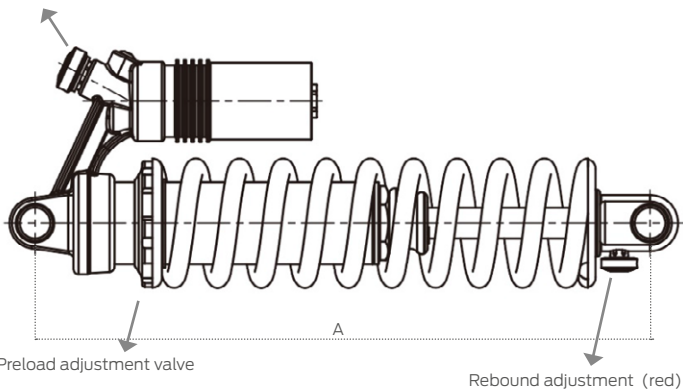
The shock absorber is preloaded with 5.5 to 6.8 bar (80-100psi). **Do not try to remove the valve to prevent air leaks.**



If you have gone a muddy trip, carefully clean the main shaft, dust cover and rubber stopper.

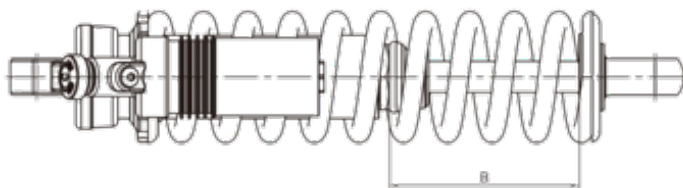


Compression adjustment valve (blue)



Preload adjustment valve

Rebound adjustment (red)

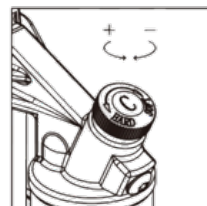


SPECIFICATION

A LENGTH ▶ 240+/-2	B TRAVEL ▶ 76+/-2
---------------------------	--------------------------



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 damping (or bounce) is the setting that determines how quickly or slowly the fork rebounds.

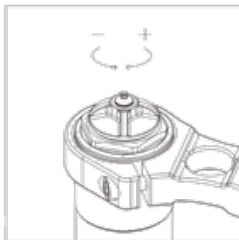
Regular maintenance, cleaning and inspection are needed according to the condition of use of the vehicle to maintain the best performance of the fork.



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



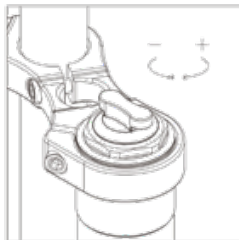
ADJUSTING THE FORK



REBOUND ADJUSTING VALVE

Turning towards +:
increases retention (slow)

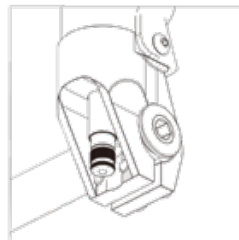
Turning towards -:
decreases retention (fast)



PRELOAD ADJUSTMENT NUT

Turning towards +:
increases preload

Turning towards -:
decreases preload



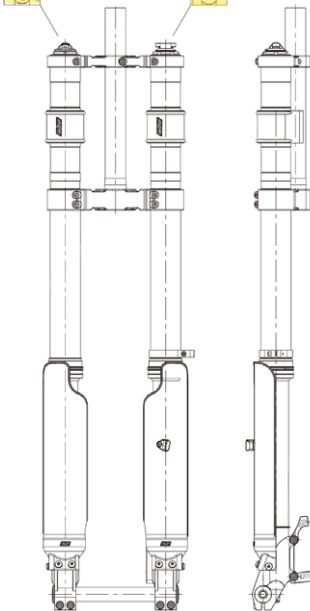
MAIN AIR CHAMBER

Filled with air according to suggested pressure table.

Rebound adjustment valve.



Preload adjusting nut



Main air chamber.



SUGGESTED PRESSURE: 7-10 BAR

4.3. Brakes

Before the first use of your Brinco you should **check the condition of both brakes**. First perform with care some brake tests outside the normal traffic, on a flat and non-slip surface. Go step by step increasing braking power.



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 necessary to break no longer decreases.



On disc brakes the pressure point must be stable immediately. If the pressure point is not produced after two thirds of the travel of the brake lever, actuate the lever several times (the so-called “pumping”) until the pads touch the disk. If the pressure point changes in the output, you must go to your Bultaco Motors Dealer for purging the brake system.



Dirty brake pads and discs can significantly reduce the braking force. So do not let oil or other liquid penetrate in the brake, for example, during vehicle cleaning or chain lubricating. In no case you should clean dirty pads. These must be replaced with new ones. The discs, however, can be cleaned with a special brake detergent or with hot water and commonly used detergent.



BRAKE PADS REQUIRE A RUNNING-IN PROCESS.



DIRTY BRAKE PADS AND DISCS CAN GREATLY REDUCE BRAKING FORCE.



Check the thickness of the disks. The minimum thickness is indicated on the disk itself (1.8 mm). The thickness of the disks should not be less than this value on all the friction surface. Otherwise, you will need to change the disk immediately.



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



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.



Moisture reduces the effectiveness of the brakes and wheels skid with ease. Keep in mind that the stop travel is greater in case of rain; so please reduce the running speed and activate the brakes with care.



Move the handle on the hand-lebar so you can **grab the end with one or two fingers.**



CHECK **THE THICKNESS** OF THE DISCS.



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



EXTREME CAUTION WHEN BRAKING IN **WET AREAS OR IN RAINY CONDITIONS.**

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

In long downhills, just get used to break with both brakes at the same time, in a brief and strong manner. Avoid continued braking by releasing the brake regularly between braking and braking. **Stop at the first sign of overheating**, i.e. if you perceive high manual force, smell or noise. Let the brakes cool down before continuing the march.



DO NOT TOUCH THE DISK OR THE CALIPER IMMEDIATELY AFTER PROLONGED DOWNHILL BECAUSE THERE IS A RISK OF BURN.

BRAKE MAINTENANCE	
Check the wear of the pad	Before each use (min. thickness including the bracket: 2.5 mm)
Check the wear of the disk	Monthly and before every long range trip (thickness min. 1.8 mm)
Check the hydraulic brake cable	Before each use (there should be no break 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



*FOR YOUR OWN SAFETY GO TO A BULTACO MOTORS DEALER. **IF YOU DETECT ANY ABNORMALITY ON THE BRAKES OF YOUR BRINCO OR IF YOU NEED TO PERFORM ANY MAINTENANCE OPERATION.***

4.4. Wheels and tires

Good tire maintenance is very important. Please check before each use that there are no cuts, cracks, rips, lumps or bumps on the body of the tire.



IF YOU NOTICE ANY ABNORMALITY IN ANY OF THE TIRES REPLACE IT IMMEDIATELY

Check and adjust the pressure of the tires on each use of the vehicle, always with cold tires, which implies that they have not been used in the hours prior to the measurement.



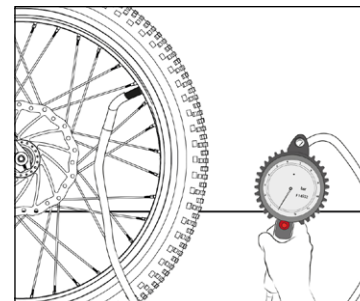
INADEQUATE PRESSURE OR A BAD TIRE CONDITION CAN CAUSE:

- Unexpected tear
- Loss of vehicle control
- Reduction of efficiency in case of too low pressure

Respect the minimum depth of the profile and in case of it being lower, change the tire. Make sure that the spokes tension is correct since there could be an unstable behavior.

Checks that all spokes are tight.

In the event of any check that is not tight enough, go to your Bultaco Motors Dealer.



SUGGESTED PRESSURE:

1.8 - 2.2 BAR

MINIMUM DEPTH OF THE PROFILE:

≥ 1.5 MM

4.4.1- Wheel Change

REMOVAL OF FRONT WHEEL

- 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 avoid that the display is struck with the ground. You should also place a cloth on the seat so that it does not stain and deteriorate.
- B** Loosen slightly the nuts from the wheel shaft (1) with a 10 Allen wrench until both have been disengaged a few millimeters from the shaft. Remove one of the nuts completely.
- C** Loosen the 4 screws from the bottom of the fork (2) with a 5 Allen wrench (it is not necessary that they be removed completely).
- D** Hold the wheel by pulling it slightly upwards so that the axle stops supporting all its weight. Hold the axle by the nut you did not remove (3) and pull to remove it completely from its accommodation.



BEFORE ANY OPERATION, ENSURE YOUR BRINCO IS OFF



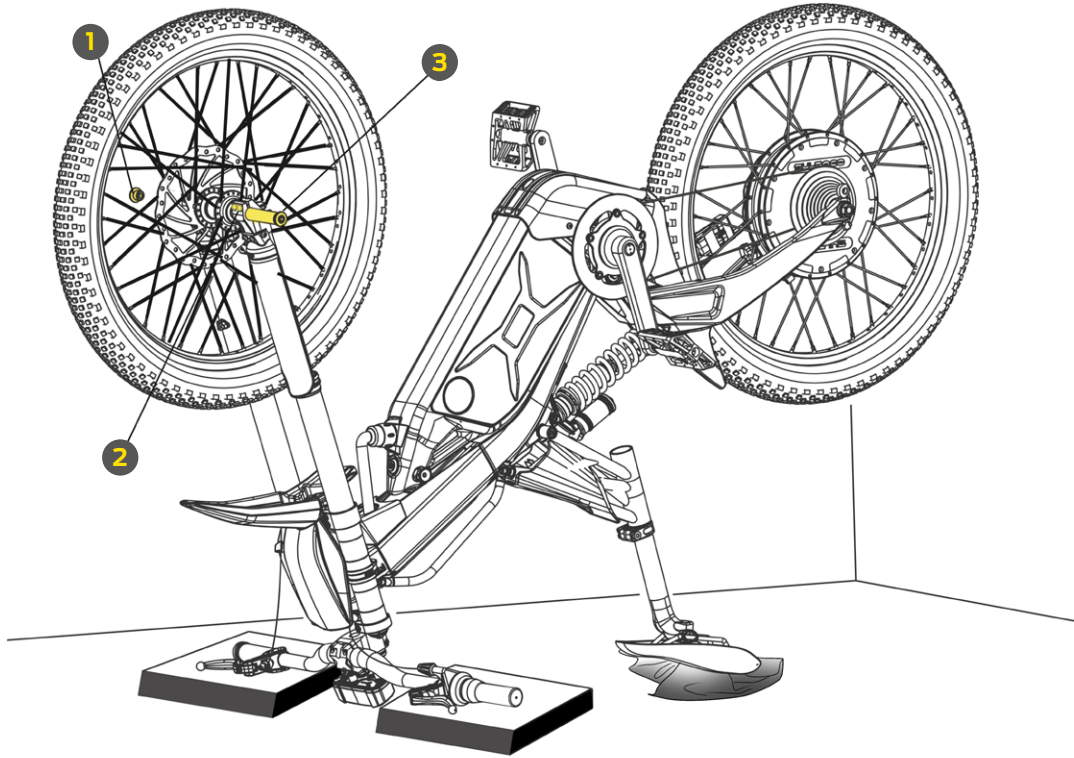
BE CAREFUL BECAUSE AS YOU REMOVE THE AXLE, THE WHEEL WILL START LOOSING FASTENING.



TO MOUNT THE WHEEL PERFORM THE PROCESS IN REVERSE ORDER.



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





**BEFORE ANY OPERATION,
ENSURE YOUR BRINCO IS OFF**

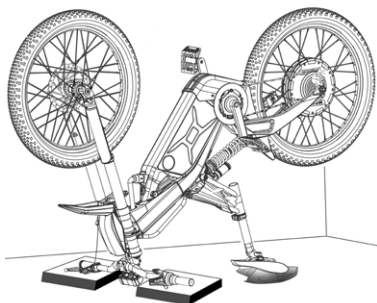


**WE RECOMMEND TO PERFORM THIS OPERATION WITH
THE BRINCO BATTERY DISCONNECTED**

REMOVAL OF REAR WHEEL

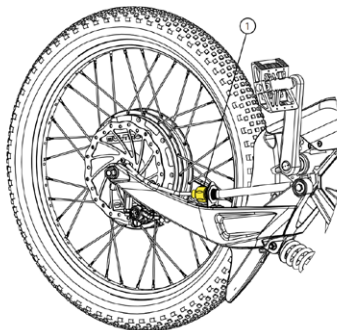
A

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 avoid that the display is struck with the ground. You should also place a cloth on the seat so that it does not stain and deteriorate.



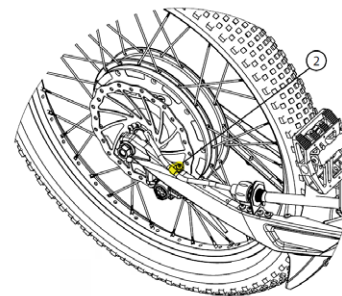
B

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



C

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



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

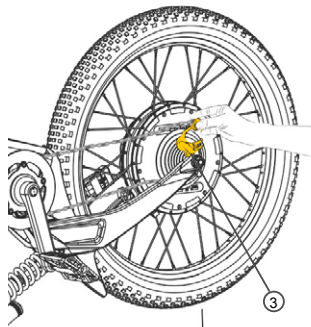


- **IMPORTANT! VERIFY THAT THE TORQUE ON THE NUT OF THE WHEEL AXLE IS 85 NM WHEN YOU MOUNT IT BACK**
- **DO NOT REMOVE THE WHEEL IMMEDIATELY AFTER A JOURNEY: THE ENGINE GETS HOT AND YOU COULD GET BURNT**
- **THE HEX WRENCH SUPPLIED BY BULTACO IS FOR EMERGENCY USE IN CASE OF A PUNCTURE IN THE MIDDLE OF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

REMOVAL OF REAR WHEEL

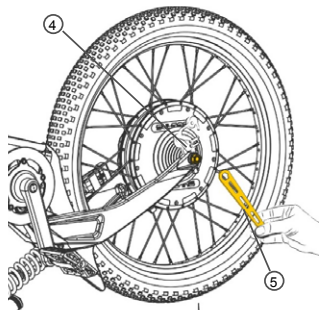
D

By pulling the derailleur (3) make the string lose tension. Release the chain of sprockets. Be careful, however, as the chain is oiled and you getting dirty. We recommend that you use gloves.



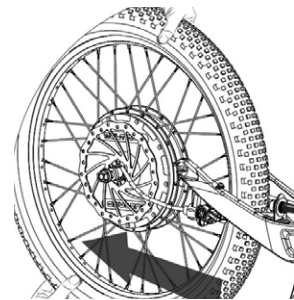
E

Loose the nuts from the wheel axle (4) with a 19 hex key. It is not necessary that they 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 in the mountain.



F

Move the wheel backwards and decouple it from the swing arm. Remember that the engine is integrated into the wheel and therefore you must be careful when handling it so that it is not damaged.

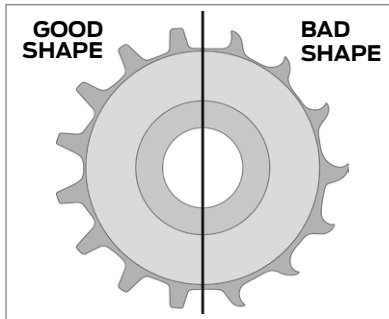


BEWARE, REMEMBER THAT WHEN YOU REMOVE THE REAR WHEEL YOU'RE ALSO REMOVING THE ENGINE.



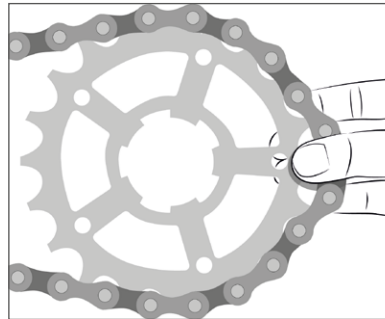
WHEN YOU MOUNT BACK THE WHEEL, BE CAREFUL WHEN INSERTING THE DISK BETWEEN THE PADS OF THE BRAKE CALIPER.

4.5. Transmission: Chain and Bottom Bracket



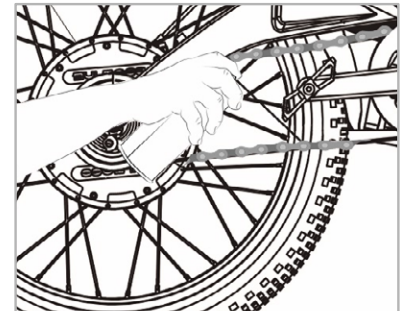
Check the wear on the gear rim and sprockets.

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



Check the chain wear.

Periodically review the clearance in the chain. 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 Dealer for a replacement.



Clean and lubricate the chain.

Removes the dirt from the chain after each use. It is very important to keep it in a suitable level of grease regularly using appropriate products.

4.6. Washing

We recommend a regular cleaning to extend the lifespan of your Brinco and always ensure a proper performance.

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

- 1 Check before starting the washing that all electrical components are properly connected and the vehicle is turned off. **NEVER wash your Brinco with the powerful battery removed from the vehicle.**
- 2 **DO NOT use appliances of pressurized water or steam** that may cause the water to penetrate the seals, bearings and power components. We recommend to apply soap with a soft sponge.
DO NOT wet directly any of the electrical power parts [See 1.3] or controls/ connectors located on the handlebar [See 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 washing, **wait until your Brinco is completely dry before operating it.**
- 6 After cleaning and before using the vehicle, test 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

TORQUES				
Mounting Designation	Mounting Thread and Quality	Torque (Nm)	Security	Maximum Torque (Nm)
Power arm with steering post	SCREW ALLEN M6x1 DIN 912 8.8	8-10	YES	10
Handlebar with power arm	SCREW ALLEN M6x1 DIN 912 8.8	8-10	YES	10
Upper deck with bar	SCREW ALLEN M6x1 DIN 912 8.8	8-10	YES	10
Fork tip Cerraje	SCREW ALLEN M6x1 DIN 912 8.8	8-10	YES	10
Address with seatpost Screw	SCREW ALLEN M6x1 DIN 912 8.8	11-13	YES	13.5
Hand Grip with chassis	SCREW ALLEN M8x1,25 TITANIUM	22-24	--	28
Subframe saddle with chassis	SCREW ALLEN M8x1,25 TITANIUM	22-24	YES	28
Upper Bracket with chassis battery	SCREW ALLEN M5x0,8 DIN 912 8.8	4.5 - 5.5 Sealed	YES	5.5
Swivel screw with rocker shaft	SCREW HEXAGONAL M8x1,25 8.8	22 - 24 Sealed	YES	24
Rear shock absorber with chassis	SCREW ALLEN M8x1,25 TITANIUM	22-24	YES	28
Rear shock absorber with rocker	SCREW ALLEN M8x1,25 TITANIUM	22-24	YES	28
Front wheel axle with fork	M16x1,5 Al-6061	15-20	YES	30
Brake Disc ditro. with spool	SCREW TORX M5x0,8 8.8	4.5 - 5.5 Sealed	YES	5.5
Motor Shaft rocker with	NUT M14x1,5	80-85	YES	120
Rear brake disc with engine	SCREW TORX M5x0,8 8.8	4.5 - 5.5 Sealed	YES	5.5
Front brake caliper with wheel fork	SCREW M6x1 8.8	8 - 10 Zeyad	YES	10
Rear brake caliper with rocker	SCREW M6x1 8.8	8 - 10 Zeyad	YES	10
Pedal rods to axis pedals	SCREW M10x1 10.9	50-55	YES	65
With rod Pedal	THREAD 9/16 x 20 PPI	48-54 SQM	YES	55
Hans-ulrich Schlumpf Bowl left box with chassis	THREAD D31x1	140-160	YES	160
Diverter with ear chain support	M10x1 Al-6061	17-20 Sealed	YES	20
With Controller chassis	SCREW ALLEN M5x0,8 8.8	4.5 - 5.5 Sealed	YES	5.5
Flange saddle with chassis saddle	SCREW ALLEN M6x1 DIN 912 8.8	8-10	--	10
Biker manager with chassis	SCREW THREAD PLATED4.8	3.5 - 4	---	4

4.8. Table of maintenance

	Component	Task to Perform	Operation to be performed by the user		Scheduled maintenance by Bultaco	
			After each use 	After each use 	1000 miles or 6 months 	Every 2500 km or 12 months 
Chassis	CHASSIS	Check the general condition of the whole structure	X	X	X	X
	STEERING	Check clearance of the bearing of the steering tube	X		X	X
	STEERING	Check clearance of power of handlebar	X		X	X
	SADDLE AND SEATPOST	Check quick lock	X		X	X
	SADDLE AND SEATPOST	Check clearance of seatpost	X		X	X
Swingarm	SWINGARM	Check the general condition of the whole structure	X	X	X	X
	SWINGARM	Check clearance of swingarm bearing			X	X
	SWINGARM PIVOT	Check torque of nuts in-engine wheel axle.		X	X	X
Transmission	BOTTOM BRACKET	Check clearance of bottom bracket			X	X
	CHAIN	Check clearance/lubrication, clean and lubricate if necessary	X	X	X	X
	CHAIN, GEAR RIM, SPROCKETS	Check for wear, replace if necessary				X
	CONNECTING RODS	Check clearance of rods	X		X	X
	DIVERTER	Check operation, clean and lubricate	X	X	X	X
Brakes	SCHLUMPF	Lubricate gear systems				X
	BRAKES	Check braking power	X		X	X
	LEVERS	Check stroke of the handle	X		X	X
	PADS - DISKS	Check condition	X		X	X
	PADS - DISKS	Check for wear, replace if necessary				X
Wheels	LEADS	Visual inspection. Search for deterioration or leaks	X		X	X
	TIRES	Check pressure	X		X	X
	TIRES	Check condition of the tire, profile height	X		X	X
	WHEEL	Check clearance of wheel bearings			X	X
	WHEEL	Check spoke tightness	X		X	X
Suspension	SHOCK ABSORBER	Check the setting of upper and lower bearing			X	X
	SHOCK ABSORBER	Check for oil leaks			X	X
	FORK	Check the setting and dust cover			X	X
	FORK	Check for oil leaks			X	X
Electrical System	CONTROLLER	Check status of the controller. Reading of data			X	X
	WIRING AND CONNECTORS	Check cables' condition and correct connection of components	X	X	X	X
	BATTERY	Check status of charge	X		X	X
	BATTERY	Battery charge		X	X	
	HANDLEBAR GRIP	Check the spin	X		X	X
Hardware	SCREWS AND NUTS	Check all the tightening torques			X	X



5



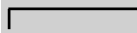

■ Troubleshooting

In spite of the fact that each Brinco has been carefully inspected prior to their departure from 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 provide you with the following indications that may help you though, although we recommend that, in the event of a fault, you go to your Bultaco Motors Dealer.



**IN THE EVENT OF A FAULT GO TO YOUR
BULTACO MOTORS DEALER**

ALERT INDICATOR			
TYPE OF ALERT SIGNAL		EFFECT OF THE ALERT	CAUSE OF THE ALERT - ACTION TO TAKE
Slow Flashing		The vehicle slightly reduces the performance level as a protection system	It indicates that you must reduce the level of performance requested from the Brinco and help more by pedalling.
Rapid flashing		The vehicle reduces even more the performance level as a 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.
Fixed light		The vehicle stops.	If it appears after the flashing light, the vehicle has been stopped as a protection from a situation of excess 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 Dealer.

BRINCO DOES NOT TURN ON

1. Check that the battery is enough loaded.
2. Make sure that you have successfully passed the bracelet/starting card close to the NFC antenna of the dashboard.
3. Check that the stop button is on ON position.
4. Verify that the battery connector is correctly plugged in.
5. Visually check that all the connectors are plugged in and 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 mains supply to charge the battery.
2. The overheat protection system has been activated on any of the power elements (battery, motor, controller). Turn off the vehicle and wait for it to cool down. Turn it on again after a while.



Warranty

6.1. Warranty

The guarantor is the company **BULTACO MOTORS Ltd.**, with registered offices at Av. Gregorio Peces Barba, 1. Technology Park. 28918 Leganés (Madrid). Spain. The guarantee applies only to moto-bikes have been initially placed on the market through Bultaco Motors Dealers, in his country, meeting the regulatory requirements of each country. This warranty does not limit or prejudice the rights and legal safeguards that apply to consumers under national mandatory standards and is independent of the legal guarantee provided Bultaco.

This warranty covers all components of the moto-bike (See exclusions in the corresponding period) and all original accessories installed at the time of purchase by a Bultaco Motors Dealer.

The beneficiary of this warranty is the person who at the time of exercising the rights of is the owner or holder of the moto-bike.

Battery warranty policy

The amount of energy the battery can store diminish over time and kilometers driven. Depending on the use, the battery capacity may decrease during the warranty period. A Bultaco Motors Dealer, will determine whether the storage capacity is within the proper limit, depending on the time, mileage and number of recharges made.

It is important to follow the maintenance instructions in this manual to extend the life of the battery. Failure to follow them can significantly decrease the battery life.

Also it considered mandatory charging the battery with the specified charger supplied by Bultaco.

6.2. Warranty Exclusions

Service operations and maintenance intervals are excluded from the guarantee, ie the replacement of parts subject to wear and tear or maintenance, are not covered by the warranty.

There are operations that cannot be covered by the maintenance plan because its frequency will vary depending on the conditions of use:

- Wheel Alignment
- Aligning body components
- Elimination of noise / vibration or adjustments of wheels, brakes, front suspension and/or rear seat, set changes/chain, etc.

In addition, wear and tear elements are excluded from the warranty as of damage for normal use. Some components may have additional wear depending on the conditions of use and driving habits. To repair damage caused by this cause will not be covered under warranty.

The following components are generally subjected to use/wear, so are excluded from the warranty:

- Brake pads
- Tires
- Stickers

In addition, these claims are excluded form warranty in the following situations:

- If scheduled maintenance according to Bultaco Maintenance Program and the damage was caused by the failure or delay of it is performed.

- If repairs are not made in time or if not performed according to the specifications of Bultaco Motors LTD and the damage was caused by a delay of reparation.
- If there are directly or indirectly non original parts assembled in the moto-bike or if the moto-bike has been modified without the approval of affected items by Bultaco Motors LTD.
- If liquids and/or lubricants are used erroneously.
- If the moto-bike is used in competitions, races, tests or activities without the consent of Bultaco Motors LTD, as well as improper use outside the conditions of use set by this manual.
- If the identification number of the bike (VIN) has been altered, modified, or deleted or cannot be identified in the moto-bike.
- If the security seal, present into some components, is broken.
- If damaged parts (guaranteed or not) are caused by frost, water, or the accumulation of pollutants, sediments, waste or other external agents that prevent the proper functioning of the components are produced.
- If the odometer has been modified, altered or disconnected.
- If there is a breach of the specifications on care / maintenance of moto-bike as specified in this manual.
- If indications show in this manual are ignored or omitted.
- If you have manipulated the electric motor.
- If handling or overload the moto-bike.

- If repairs or services performed by individuals and/or workshops outside a Bultaco Motors Dealer LTD.
- If any defect is detected in the delivery of the moto-bike or posteriorly and not reclaimed and repaired immediately, may cause damage to major consequences.
- If the owner fails to undertake the necessary steps to remedy the damage.
- If you have not followed the instructions of battery maintenance as indicated in this manual.

6.3. Management of consultations relating to the Warranty

All warranty formalities must be made through the nearest Bultaco Motors Dealer or through the one that performed the delivery of your new Bultaco. You can check the dealers list on our web site www.bultaco.com

6.4. Rights of the owner of the warranty in its condition of consumer.

Bultaco Motors, Ltd. by this document ensures the end-user that the motorcycle manufactured by Bultaco Motors, LTD. is free of defects and manufactured following the highest quality standards. Consequently, the warranty covers both parts and labor in case of repair of any defect in materials or manufacture detected in a new motorcycle, within the warranty period and without further limitation that the exclusions that are reflected in this manual, and whenever the maintenance requirements and revisions marked by Bultaco Motors, LTD. have been followed according to the conditions contained herein.

Bultaco Motors, Ltd. is responsible to the purchaser for any lack of conformity which exists at the time of delivery of the product. When the product is not correct, the buyer is to decide if they want to repair or replace the product. This decision of the buyer, when communicated to the seller, requires both parties to fulfill it with one exception: if the cost of the repair or replacement is disproportionate to the value of the product a more reasonable solution will be taken into account.

Every form of sanitation will be considered disproportionate if it imposes costs on the seller that, in comparison with the other form of sanitation, are not reasonable, taking into account the value of the good if there was no lack of conformity, the significance of the lack of conformity and if the form of alternative sanitation could be performed without any kind of inconvenience. The repair will be disproportionate when it is uneconomical, i.e. the repair is more expensive than the value of the asset. In this case, the consumer may choose a price reduction or resolution of the contract. The resolution will not be considered appropriate when the lack of conformity is of little importance.

6.5. Term of the warranty

Bultaco Motors, LTD. responds of the faults that are found in a term of two years from the delivery date, but if the lack of conformity is manifested after the sixth month, the consumer must prove that the defect was in origin and already existed at the time of delivery of the product.

The action to claim compliance with the provisions of the warranty will expire six months from the end of the warranty term.

The action to claim expires three years from the time of delivery, which is effected in the day appearing in the “CERTIFICATION AND INSPECTION OF DELIVERY”, or in the purchase invoice, should this be later.



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