

ADNTY

E-49



OWNER'S MANUAL

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INTRODUCTION

WELCOME TO THE MONTY FAMILY

Firstly, we would like to welcome you and thank you for choosing the Monty brand.

This “User’s Manual” for your new Monty Ebike E49, contains important information which you will need to keep your bike in good condition. It has been designed so that you can enjoy your E-Bike safely, making the most of your time. Please read this manual carefully before using your electric bike and save this manual for future reference. If you have any doubt or questions, please contact your authorized Monty dealer. The E-49 includes a long-lasting, top-quality engine which is not to require much maintenance from your side. Its innovative design and safe construction is to provide you with km and km of satisfaction.

Parents or guardians should explain the contents of this manual to any minors using the E-Bike to ensure that they have understood its contents. The drawings and images may not correspond exactly to your model. They are used solely to facilitate your understanding. We apologize if any part of this manual does not correspond with the precise characteristics of your E-49.

At Monty, we always strive to improve our products, as such; we may incorporate other new technical components to its models or change pieces without prior notice.

The Monty family is constantly innovating to offer its clients a top-quality product made from the best materials. Our new E-Bikes are a clear example. They provide a new means of light and fun transport which is also ecological, silent and does not pollute. For this reason, we want to thank you for choosing us, a decision which will benefit the environment and all of us.

Always give this manual to any future bicycle owner.

Thank you as well for dedicating a few minutes to reading this manual. We hope that we have succeeded in making a product to your liking.

For further information about our products, visit the Monty web site:

<http://www.monty.es>

IMPORTANT WARNING

NON-FULFILLMENT OF THE INSTRUCTIONS DETAILED IN THIS MANUAL MAY LEAD TO MECHANICAL FAILURES, A LOSS OF CONTROL AND POSSIBLE FALLS, WITH SERIOUS PHYSICAL INJURIES TO THE USER OR OTHERS, INCLUDING EVEN DEATH. INCORRECT USAGE MAY ALSO RISK YOUR PHYSICAL INTEGRITY AND THAT OF OTHERS.

SAFETY WARNING

DO NOT OPEN OR MANIPULATE THE BATTERY, DOING SO WILL FORFEIT THE WARRANTY ESTABLISHED IN THIS MANUAL. IF YOU OPEN OR MANIPULATE THE BATTERY, CHARGER OR ELECTRICAL CIRCUIT, YOU MAY PROVOKE A SHORT-CIRCUIT AND POSSIBLE INJURIES (SHOCK OR BURNS).

IT IS RECOMMENDED TO USE A HELMET WHILE RIDING.

WARRANTY WARNING

MODIFYING THE TRANSMISSION, FORK OR ANY OTHER COMPONENT IMPLIES THE E-49 NO LONGER IS TO BE CONFORMED TO THE MONTY SPECIFICATIONS AND THEREBY ANNULS THE WARRANTY. MANIPULATING THE ELECTRIC BIKE'S ELECTRICAL COMPONENTS WILL ALSO FREE MONTY OF ANY POSSIBLE LIABILITY.

THE E-BIKE IS PROVIDED WITH A FRAME NUMBER WHICH CAN BE FOUND UNDER THE CRANK.

CE (European Conform)

1. DISPLAY AND KEY

1.1 Mounting/dismounting of the display

Mount the display in the center positioned holder by inserting it at a 45° angle and then rotate it clockwise.

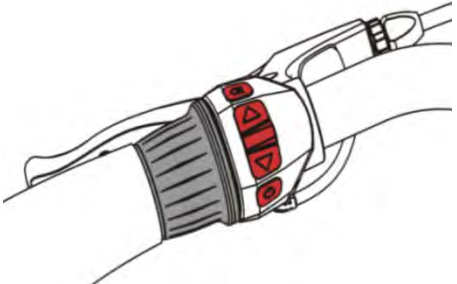
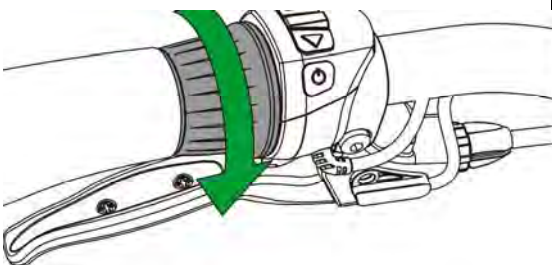
Remove the display by rotating anti-clockwise. When the display is inserted, it activates the electrical system.

In other words the display also functions as a key to the electrical system. After the display is inserted turn on the battery. If the display is not mounted on the e-bike, the e-bike will work like a conventional bike.

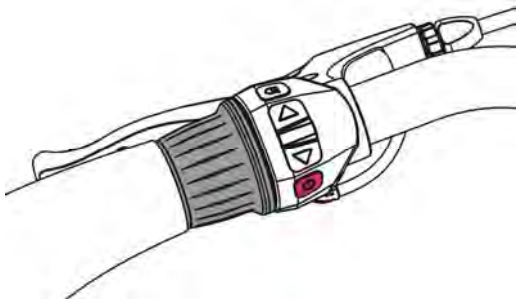

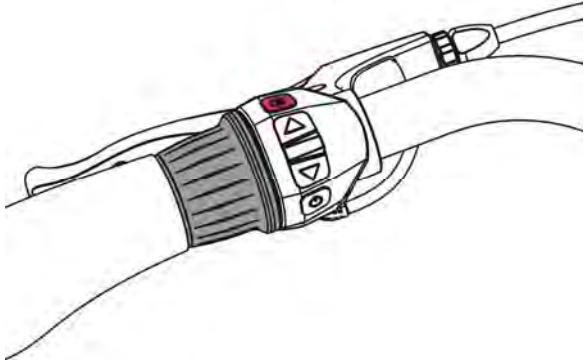
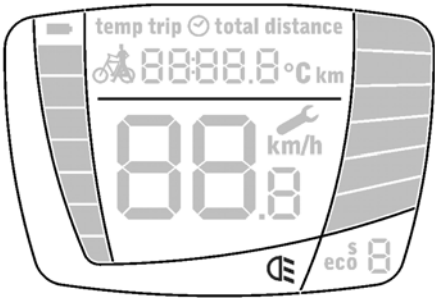



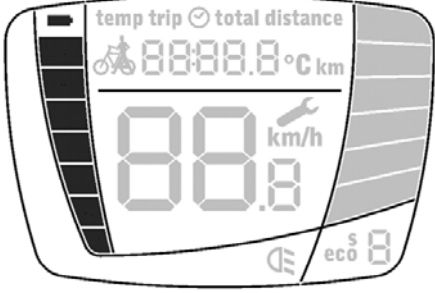
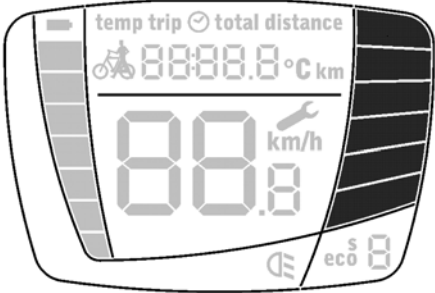

Please note that the display must be removed from the holder after use as otherwise it will tap the battery power.

1.2 Operation of the display and the throttle

<p>To operate the display, use the 5 setting buttons and the throttle in the left lever on the handlebars.</p>	
<p>To operate the throttle, turn the lever as shown in the figure to the right.</p>	
<p>For a detailed description of the settings please see Section 1.3</p>	

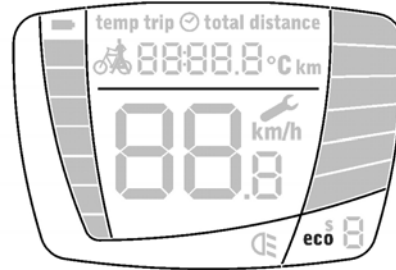
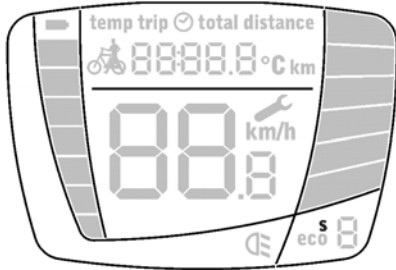
1.3 Display settings

<p>On and off</p> <p>The display is turned on and off by pressing the on/off button in the left lever.</p>	
<p>Sleep mode</p> <p>When turning off the display, it goes into "sleep" mode. Press the on/off button again to activate the display.</p>	
<p>Front and rear light</p> <p>Turn on the front and rear light by pressing the light button on the left lever.</p> <p>The brightness of the display can also be adjusted by pressing the light button persistently.</p>	
<p>When the front and rear light is on, the light indicator is shown in the display.</p>	

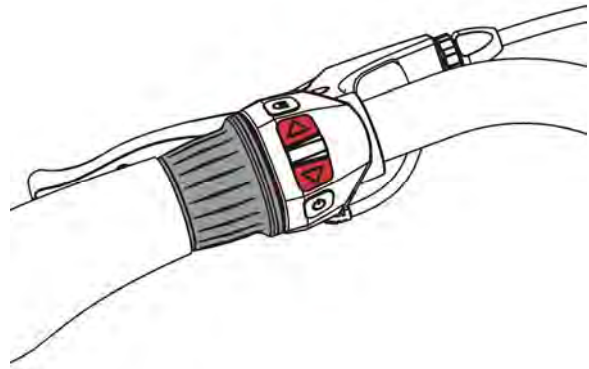
<p>Driving speed</p> <p>The current driving speed is shown in the display center area.</p>	 <p>The instrument cluster display shows a battery level indicator on the left, a temperature gauge on the right, and a central speedometer. The speedometer displays '00.0 km/h'. At the top, it shows 'temp trip total distance' and '8888.8 °C km'. At the bottom right, it shows 'eco' and a gear icon.</p>
<p>Battery indicator</p> <p>The battery indicator is shown in the left side of the display. The indicator indicates the approximate battery level.</p>	 <p>The instrument cluster display is identical to the first image, but the battery level indicator on the left side is highlighted with a dark background.</p>
<p>Assist level</p> <p>The selected assist level is shown in the right side of the display.</p>	 <p>The instrument cluster display is identical to the first image, but the assist level indicator on the right side is highlighted with a dark background.</p>
<p>"Walk-assist" feature</p> <p>When the pedals are not activated, it is possible to use the "walk-assist" feature by turning the throttle on the left lever. The corresponding indicator is shown in the display.</p>	 <p>The instrument cluster display is identical to the first image, but the walk-assist indicator on the left side is highlighted with a dark background.</p>
<p>For a detailed description of the function please see section 1.4</p>	

Assist options

It is possible to choose between 2 assist options – “speed mode” and “eco mode”.



Press the up/down buttons on the left lever for 3-5 seconds to switch between the 2 assist options. Please see section 3.4 for further information about the 2 assist options.



Trip information




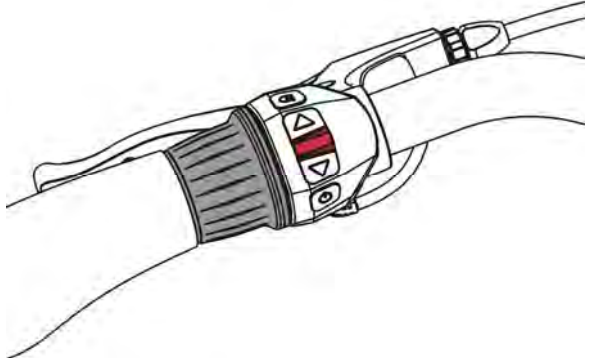
In the upper display center area it is possible to view different information of relevance for the trip:

Temperature



Trip distance



<p style="text-align: center;">Actual time</p> 	<p style="text-align: center;">Trip time</p> 
<p style="text-align: center;">Total distance</p> 	
<p>Press the “Mode” button on the left lever to switch between the different options. “Trip time” can be reset by pressing 3-5 seconds on the “mode” button on the left lever.</p>	

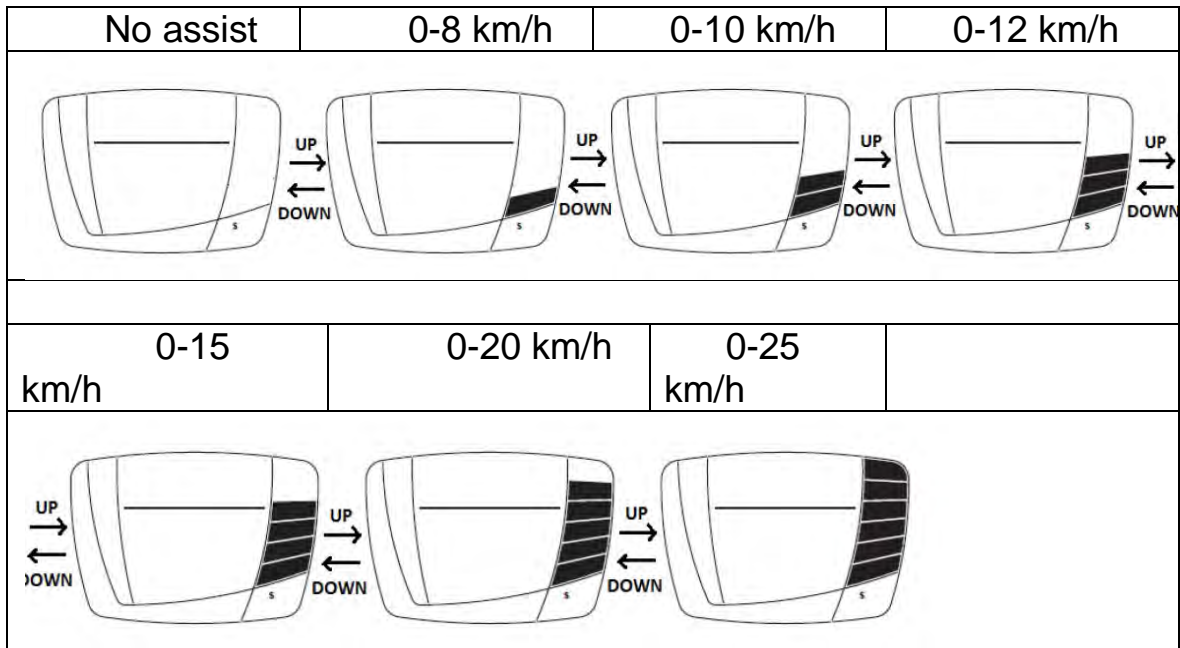
1.4 Assist function

The MONTY E49 has 3 different assist options:

- a) **Speed mode** with 6 assist levels
- b) **Eco mode** with 3 assists levels
- c) **Throttle** with variable speed

To switch between “speed mode” and “eco mode” pres the arrow buttons on the left lever for more than 3 seconds. The throttle has a “booster” effect which allows the throttle to overrule other assist settings regardless of the “speed mode” or “eco mode” being enabled. When the throttle is released the system will automatically return to the previous setting.

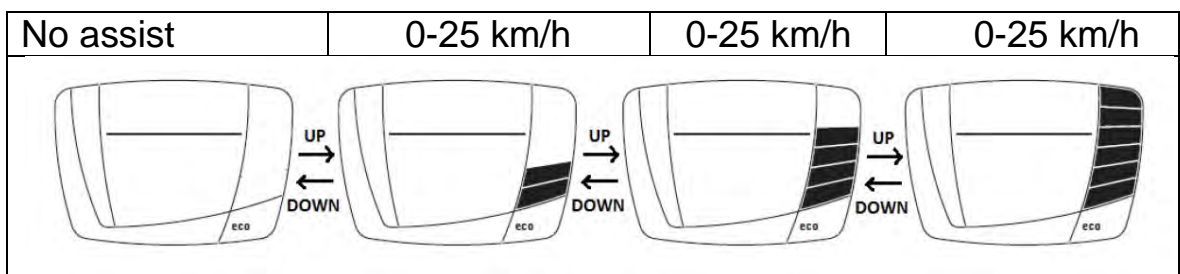
- **Speed-mode:**



“Speed mode” has 6 assist levels.

Choose “Speed mode” if you want to ride at a constant speed which is lower than the top speed. By pressing the up/down buttons on the left lever you may choose the appropriate assist level.

- **Eco-mode:**



”Eco mode” has 3 assist levels.

Choose “eco mode” if during your ride you only want limited motor assistance and thus to a high degree want to ride the bike through your own efforts. With this combination a longer range is achieved per charge.

By pressing the up/down buttons on the left lever you may choose the appropriate assist level.

- **Throttle:**

When not pedaling, the “walk assist” feature can be activated by turning the throttle. This feature is well suited for pulling the e-bike uphill. When the pedals and the throttle are activated simultaneously it is possible to variably adjust the speed up to max. speed level. It is advisable to use the throttle when driving in heavy traffic. This is suitable for brief accelerations in connection with overtaking of slow-moving cyclists and will allow you to react promptly.

The motor will disconnect at a speed of 24.6 km/h.

1.5 Troubleshooting

The error indicator will appear in the display to show possible system errors. A code and a wrench symbol will show the error type.



The error code will appear in the “speed indication” space in the centre of the display. Error code numbers range from 01 to 13 indicating the different error types.

Final error diagnosing requires skilled personnel. Contact your dealer for assistance.

The error indicator has the following error codes:

- 01: Error on the hall sensor**
- 02: Error on the speed sensor**
- 03: Error on the wiring system. Check cables and connectors.**
- 04: Errors in data transmission between the motor and controller**
- 05: Error on the controller.**
- 06: Too high voltage (>15A)**
- 07: Error on the cadence sensor**
- 10: Error in data transmission between throttle and display**
- 12: Error on display/display communication**
- 13: Voltage error. System switched off due to too high voltage.**

2. GEAR LEVER

Shift the gear by turning the gear lever placed in the right handlebar.

Choose the appropriate gear according to speed and wish.

The MONTY E49 model has 7 internal gears.



3. ADJUSTMENT OF HANDLEBARS



Push up the black button and raise the lever to allow for adjustment of the handlebars in desired position.

The height of the handlebars can be adjusted by means of an Allen key.

Important: Always remember to tighten the Allen bolts again before using the e-bike.

4. ADJUSTMENT OF SADDLE

The height of the saddle can be adjusted by loosening the Allen bolt, and then adjusting the saddle to the desired position.



5. BATTERY AND CHARGER

5.1 Mounting and dismounting of the battery



Turn the battery key (ON/OFF) to open position and take the battery out of the rack.

Mount the battery again by placing it in the rack and pushing it forward into position. Then turn the key to lock the battery.

5.2 Mounting of battery charger

Insert the plug of the battery charger into the battery. You may charge the battery while mounted in the e-bike.

You may also choose to dismantle the battery and take it indoor for recharging



5.3 Use of battery charger

1. Charging must take place indoors or under a pent roof, since the charger is not waterproof.
2. Turn the key to off position.
3. Put the plug of the charger into the socket of the battery.
4. Put the mains plug (230v) into the power socket and switch on the charger.
5. The red diode will be on, as long as charging takes place.
6. When the diode changes from red to green, charging is complete and the e-bike is ready.
7. Turn off the charger but do not remove it from the socket until you are going to use the e-bike again.

5.4 Charging

The MONTY Electric e-bike uses maintenance-free Panasonic Li-ION batteries. Please note, that the battery can be dismantled.

The charging capacity of the battery is only 40% when delivered from the factory. Before commissioning it is therefore necessary to charge the battery to full capacity using the enclosed battery charger (Green diode is on).

In order to achieve maximum battery life and range of the e-bike we recommend that charging takes place in a heated room. By temperatures below 20°C prolonged charging time must be expected, with the result that charging of the battery to full capacity cannot take place which again leads to reduced driving range. Please note that the capacity of the battery will decrease when temperatures fall below 20°C. Optimum battery charging conditions are at 20°C. If the battery is exposed to direct sunlight the battery life deteriorates considerably.

When the battery is taken indoors for charging, condensation may occur inside the battery as well as on the outside. Please therefore do not start charging until the condensation has disappeared. The battery contains a printed circuit board that controls each battery cell. If charging takes place while there is still some condensation in the battery this printed circuit board may be damaged.

Memory effect does not occur in Li-ION batteries. It is thus unnecessary to discharge the battery before starting a recharge.

Charging of the Li-ION battery at many frequent intervals may prolong the battery life. However, please note that once charging of the battery has been started you should not discontinue the process as this may have a negative influence on the battery life.

Rechargeable batteries must always be kept in dry conditions and dismantled from any equipment.

Do not pull the wires when dismantling the charger from the battery. Grab hold of the plug and pull it carefully out of the battery. Never leave the battery in the charger when the charger is off.

Never leave your battery in your Monty Electric e-bike for a longer period of time. Please note that the capacity of the battery will weaken over time and at lower temperatures. The more you use your e-bike the more the capacity will decrease thereby affecting the range. Over time the reduced battery performance will also be noticeable when driving in a hilly countryside. The battery life will normally allow charging/discharging up to 600 times.

Please also note that periods with low temperatures will influence the capacity and thus the performance of the battery nega-

tively. This will change when the temperature increases to approx. 20°C.

Other parameters of major importance for the performance/range are user weight, driving manners, terrain, surface and tire pressure. The user himself/herself may also influence the performance/range depending on how much pedal power is used.

Charging to full capacity should take place once a month (full charge = green diode on charger is on).

5.5 Storage for the winter

If you put away your e-bike for a longer period (more than one month), it will be sufficient to charge the battery once a month.

Before putting the battery away for storage you should make sure that it is fully charged, as the battery will be damaged by being left totally or partly discharged for a longer period.

5.6 Warning

- Do not heat, short, puncture or in any other way damage the battery.
- Do not divide or destroy the battery.
- Do not throw the battery into open fire.
- Do not lower the battery into water or any other liquid.
- When charging the battery only use the enclosed battery charger.
- Do not charge the battery at temperature below 0°C or above 45°C.
- Do not cover the battery charger.
- Disposal of used batteries must take place to companies with environmental approval or to public recycling centers.

5.7 Disposal of battery

According to the European Union's WEEE Directive 2002/96/EC on Waste of Electronic and Electrical Equipment special rules apply for disposal of batteries.

This symbol indicates that when the end-user wishes to discard battery products, it must be sent to separate collection facilities for recovery and recycling. By separating this product from other household-type waste, the volume of waste sent to incinerators or land-fills will be reduced and natural resources will thus be conserved.



Please contact your dealer in case you have any questions.

8. DRIVING INSTRUCTIONS

The auxiliary engine works as follows:

When the pedals are activated a sensor sends a signal to the electronic controller which then starts the motor.

The power of the auxiliary engine is adjusted according to the chosen assist level. During the ride you may adjust the assist level according to actual need.

If you drive uphill you may apply full power whereas when you go downhill you may disconnect the motor.

The electronic controller will automatically disconnect the motor when you stop pedaling. Likewise the controller will disconnect the motor when your speed exceeds 24.6 km/h.

9. EU STANDARDS

The Monty Electric e-bike is built according to the guidelines of the EU standards EN 14764 and EPAC EN 15194.

10. DECLARATION OF CONFORMITY

The Electric e-bike is CE-approved.

12. WARRANTY

A warranty is being established through the vendor in accordance with the law 23/2003, dated July 10, on the consumer sales warranties, according to the Directive normative 1999/44CE.

Additional conditions:

The warranty does not cover the E-49 parts subjected to normal use, such as tires, chain, brakes, cables etc...

The battery and charger are being covered by a guaranty as follow:

Li-ion (Lithium) battery: 1 year.

Never use any other manufacturer's components. Never repair the E-49 by oneself. Take it to the store where the vehicle was purchased or to an authorized Monty dealer. In case that this stipulation is not respected and in case of any problem or accident, Monty is not to assume any responsibility or to be held liable, and this warranty shall be rescinded.

Modifying the frame, fork or any other component implies that the E-49 no longer conforms the Monty specifications, there by annulling this warranty.

The number of the frame is under the crank

Frame number:	_____
Controlled by:	_____
Delivery date:	_____

11. TECHNICAL DATA

MONTY E49

Gear	Shimano Nexus 7 gear Coaster brake
Motor	250w brushless DC hub motor with planetary gear
Controller	PWM/microprocessor with self-diagnostic system
Overload protection	20 A
Low voltage protection	31.5 V
Mode	PAS (Pedal Assist System) (EU standard EN 15194)
Weight	23.9 kg
User weight	Max. 100 kg

Depending on battery type, the following specifications:

Battery	6,75AH 36V Panasonic Li-ION, 243 watt hours, detachable, weight 2,8 kg	9AH 36V Panasonic Li-ION, 324 watt hours, detachable, weight 2,8 kg	11,6AH 36V Panasonic Li-ION, 418 watt hours, detachable, weight 2,8 kg
Range	Up to 35 km	Up to 50 km	Up to 65 km
C	Swift mode, sealed, Charge time 6-8 hours		

12. CUSTOMER APPLYING FORM

Dear client,

If you want to be kept up-to-date on the latest Monty electric products, even everything related to the World of the Monty E-bikes, send us an e-mail with the following information to: e-bike@monty.es :

Name:

Surname:

Address

Zip code:

Town:

Country:

Telephone number:

e- mail:

Purchased model:

Sale date:

Shop (Shop or authorized dealer):

Or to send this information by standard post to:

BICICLETAS MONTY, S.A.
DPTO. E-BIKE
CALLE EL PLA, 106
08970 SANT FELIU DE LLOBREGAT
BARCELONA – SPAIN

13. MONTY OFFICIAL DISTRIBUTORS AND CONTACTS

It is recommended to get in touch with the dealer where you bought the product in case of any problem or doubt. Most information can be found on the Monty web site: www.monty.es or by phone: **+34 93.666.71.11** or by e- mail: **e-bike@monty.es**

We thank you for having dedicated some time to read this manual in order to improve the use of the new E-49. We thank you, as well, for any point of view from your side to Monty.



BICICLETAS MONTY, S.A.

El Pla, 106
08980 Sant Feliu de Llobregat
(Barcelona-Spain)
Tel. 93 - 666 71 11
Fax 93 - 666 71 12
E-mail: monty@monty.es
web:<http://www.monty.es>

NOMBRE COMPRADOR:

Esta bicicleta está homologada en España y es conforme a las exigencias esenciales de seguridad precisadas por el Decreto relativo a la prevención de riesgos resultantes de la propia utilización

GARANTIA / GUARANTEE / GARANTIE

MODELO:
MODEL:
MODØLE:

SELLO / STAMP / CACHET

FECHA ENTREGA:
DELIVERY DATE:
DATE LIVRAISON:

N. HOMOLOGACIÓN:
HOMOLOGATION N.:
N. HOMOLOGATION:

N. CUADRO:
FRAME N.:
N. CADRE: