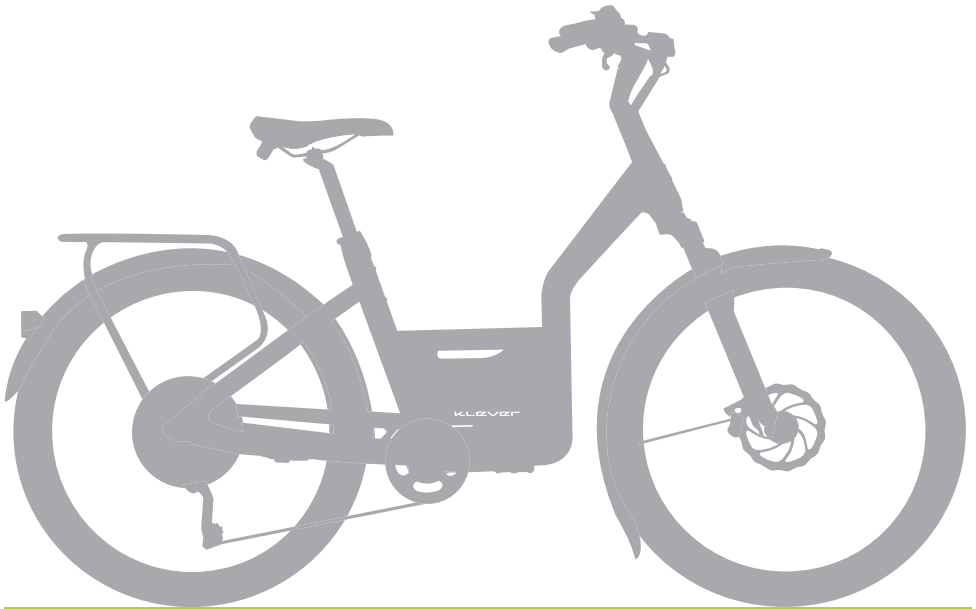


Model

Klever Y Muse 45



June 2022

This technical documentation has been compiled by: Klever Mobility NL bv.

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1. QuickStart

Dear customer,

On the first pages you will find instructions for a QuickStart with your new Klever 45 km/h E-bike. For more technical information read the additional instructions on the following pages. Should you have any further questions, please ask your local Klever dealer or contact our technical hotline. The hotline's contact details are to be found in chapter 2. and at the end of this manual.

Enjoy your Klever 45 km/h E-bike, we wish you a lot of fun,
The Klever Mobility team.



Image 1.1

Safety check

Before starting your E-bike always check the operation of the brakes and the tyre pressure.

Launch of the electric drive

You can start the system with or without inserting the dedicated E-KEY (image 1.2). Check for the function of the E-KEY section 5.4.3. Menu & submenus for settings. As soon as you insert the E-KEY into the display, the system will be activated and will start itself. With the E-KEY already in the display while the system is off, there are two ways to activate the system:

- 1. Press the on/off button** (image 1.3), after a 3 seconds system check your E-bike is ready to be pedalled.
- 2. Or just start pedalling and the electric system will wake up automatically.** After a 3 seconds system check, the electric drive will start to support.



Image 1.2



Image 1.3

N		No support, electric system active
ECO		Low support
TOUR		Medium support
MAX		Strongest support

The ⚡ (TURBO) button on the display has **3 functions**:

1. Walk-assist: actuate the ⚡ (TURBO) button while walking next to your E-bike. The maximum speed is 4 km/h.	≤ 4 km/h	Pushing aid while taking your E-bike by the hand.
2. TURBO-mode WITHOUT pedalling of the cyclist. The maximum speed is 4 km/h.	≤ 4 km/h	Additional support at standstill or in case you do not want to pedal.
3. TURBO-mode WITH pedalling of the cyclist. While actuating the ⚡ (TURBO) button in ECO- or TOUR-mode the electric support will be increased to MAX-mode.	≤ 45 km/h	Additional support while riding hills or strong headwinds.

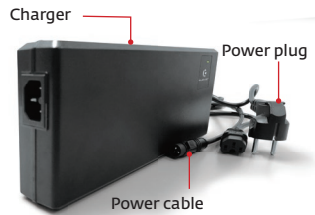


Image 1.4



Image 1.5



Image 1.6

Image 1.7

State of charge	Charger LED	Battery LED	Note
	Flashing red		Error code: check connections
	Steady red		Charger ready to charge
0%	Flashing yellow	Flashing red	Capacity very low; charging starts
< 35%	Steady yellow	Flashing red	Normal charging
35 – 75%	Steady yellow	Flashing yellow	Normal charging
75 – 90%	Steady yellow	Flashing green	Normal charging
> 90%	Flashing green	Flashing green	Final charging
100 %	Steady green	No LED colour	Fully charged

The charging of an empty rechargeable battery of 850 Wh (from 0% to 96%) will take about 3.5 hours with the dedicated 6A charger.

The charging of an empty rechargeable battery of 1,200 Wh (from 0% to 96%) will take about 5 hours with the dedicated 6A charger.

Charging the rechargeable battery

Caution! The battery should only be charged with the dedicated Klever 6A charger (image 1.4).

The battery can be charged on (image 1.6) and off bike (image 1.7). For removal of the battery from its docking station see section 5.5.3. Connect the charger with the power plug to the wall socket. If the LED on the charger shows constant red light, the charger is ready for use. Connect the charger plug of the charger to the charging socket on the battery (images 1.4 + 1.5). The charging process starts automatically. Once the LED on the charger constantly lights green the operation is completed and the battery is charged. Unplug the power plug from the wall first, then remove the charger lead from the battery charger.

2. Introduction & which type of E-bike?

Congratulations! With the purchase of this Klever 45 km/h E-bike you are the owner of a high-quality E-bike. For a trouble free, pleasurable riding experience, carefully read this manual. You will find everything you need to know in terms of specifications, operation, maintenance and care. For additional information look in the separate manuals which come with some of the components.

Pay particular attention to sections in bold which are marked with the "Caution!" symbol. The most important information is summarised. It should be observed to avoid possible accidents and danger to life and limb.

Bold sections marked with the "Please note!" symbol contain information about your E-bike, its accessories and its handling.

Operations marked with the "Tool" symbol are to be executed by authorised Klever dealers. These operations require specific expertise and dedicated tools.

Furthermore, in case you need any additional information or advice, please contact

Klever Benelux bv technical hotline at +31 (0)302102905 (Monday - Friday from 8h00 – 17h00 CET)

Or contact an authorised Klever retailer. The latest available information on our products, other technical information and videos can be found on our website: www.klever-mobility.com.

E-bikes & speed E-bikes

Over the last 15 years the E-bike category has become enormously popular. Today you will find all sorts of E-bikes. The current market of E-bikes with pedal assistance consists of two main types of E-bikes with their own legal framework:

- Regular E-bikes with a maximum pedal assisted speed up to 25 km/h, called EPAC's (Electrically Pedal Assisted Cycles).

- And Type-approved E-bikes with a maximum pedal assisted speed up to 45 km/h, called speed pedelecs or speed

E-bikes. Klever Mobility offers E-bikes in both categories, 25 km/h EPAC's as well 45 km/h speed E-bikes

EC Type-approval

Your new Klever 45 km/h E-bike is not a regular E-bike, it is a speed E-bike. It has been equipped according to the EC Type-approval Regulation 168/2013. And has been classified as a vehicle in category L1e-B. Therefore, you can safely use it on public roads in Belgium, the Netherlands and all other 25 countries of the EC.

A 45 km/h E-bike must be equipped with a well audible horn, a wing mirror on the LH-side (UK RH-side), a lighting system with quality marks for the head light and the tail light with integrated brake light, reflectors and with 2 sets of brakes independently actuating the front and rear wheel.


The electric pedal assistance is limited to max. 45 km/h, and thus complies with the statutory requirements for an L1e-B vehicle. Due to the fact that our new Klever 45/h E-bike is a type-approval vehicle it must be registered at your national road safety authority (e.g., DIV in Belgium, DREAL in France, KBA in Germany, RDW in the Netherlands, or DVSA in the United Kingdom). In addition, you will need a license plate (as proof of your local registration & insurance), a liability insurance and a driving license. Moreover, you will need to wear an approved helmet for 45 km/h E-bikes as well.


In the legal section (chapters 11. & 12.), you will find more information on the Type-approval, the EC Certificate of Conformity and the legal aspects and usage of a 45 km/h E-bike.


3. Getting started and safety check of your Klever 45 km/h E-bike.

Your E-bike has been subjected to an end-of-line-check on the assembly line of our factory. Afterwards it has been checked at your local Klever dealer. Yet, the transport and the use over time may have caused some changes. Therefore, prior to your first ride, and occasionally thereafter, you should consider to check following points.

- Make yourself familiar with this speed pedelec and the functioning of its electric motor support, before the first ride in public traffic.
- Setting of the saddle and the handlebars.
- Function of the brakes.
- Air pressure and the profile depth of the tyres.
- Proper operation of the lighting system.
- Tightness of the bolts and nuts of the wheels.
- Minimum insertion of the seat post.

 **Caution! Do not start when you identify deficiencies in one of these points. While riding a defective E-bike this can cause accidents and endanger your life. If in doubt, contact your dealer or our technical hotline.**

 **Caution! Through extreme weather and road conditions there is wear and tear in everyday riding. Because of the dynamic loads the parts & components of your E-bike experience different material fatigue and wear. Therefore, it is recommended to inspect your E-bike on a regular basis and look for wear of parts and changes in scratches or cracks, or the discolouring of parts. These could indicate damage of the part. Needless to say, that damaged parts must be repaired or replaced.**

 **Please note! Following the inspection plan in chapter 16., you best bring your E-bike to your Klever dealer for inspection, service, maintenance and repair.**



Please note! Since this Klever 45 km/h E-bike is Type-approved vehicle, make sure to only use original Klever Type-approved spare parts for replacement. The same applies to upgrades (e.g., winter tyres or suspension seat post). Only select components from the Klever Type-approval list. In case you are not sure whether to use Type-approved spare parts, always contact your official Klever dealer or otherwise call our technical hotline.

4. Behaviour in road traffic

With the help of your Klever 45 km/h E-bike's electric pedal assistance, you reach high speeds and you accelerate substantially faster and easier than you are used to with a regular E-bike. Therefore, you should intensively familiarise yourself with this 45 km/h E-bike on a traffic-calmed road or parking lot before going in public traffic. During riding on the road, you should follow these guidelines:

- It is compulsory to always wear an approved 45 km/h E-bike helmet.
- Make yourself familiar with the traffic rules and stick to the rules.
- Be ready to brake at any time and expect misconduct of others.
- Ride defensively and be considerate to other road users.
- Always keep your E-bike in a perfect condition.
- Use your E-bike only in accordance with its intended purpose (see chapter 11. Intended use).
- Do not use a mobile phone nor a headset while riding.
- Be sure to observe the maximum weight of cyclist + E-bike + luggage of 150 kg (see chapter 14. Technical Data).
- Have your E-bike checked according to the recommended service intervals by authorised Klever dealers.

5. Klever's proprietary electric propulsion – the BIACTRON system

You have purchased a 45 km/h E-bike that helps improve your day-to-day mobility with its electric propulsion. Slopes can be better managed and wind resistance can be better overcome.

Klever's electric BIACTRON system consists of the following components (image 5.1):

- Rechargeable battery
- Motor
- Control unit / Display
- Motor controller
- Torque sensor
- Pedal Sensor
- Charger (image 5.2)



Image 5.2



Image 5.1

Powerful system benefits

The brushless Klever BIACTRON rear wheel motor comes with 3 powerful advantages:

1. Contrary to centre motor drive trains, with a motor around the bottom bracket, the direct drive rear wheel motor is whisper-quiet.
2. The motor in the rear wheel is at the end of the drive train. For this reason, the electric motor support has no negative impact on the shifting performance and the wear of the drive train. By contrast, in E-bikes with a centre motor, the joined forces and torque of both cyclist + motor go through all components of the drive train. Consequently, shifting gears goes less smoothly and the wear of drive train components such as chain, chainwheel, sprockets and derailleurs goes twice as rapidly.
3. Last but not least, with the rear wheel motor the drive train has no efficiency loss. Motor power and motor torque go instantly from the tyre to the road surface without any drive train losses.

Once you turn on the system and you start pedalling, the motor will support you as long as you continue to pedal, up to a maximum speed of 45 km/h.

The five levels of motor support of the BIACTRON system can be selected according to the external circumstances (e.g., climbing uphill or riding with headwind) or to your personal preferences. Please note that a higher level of motor support consequently means a higher battery consumption. And reduces the range of the system and battery.

In case you ride faster than 55 km/h (e.g., downhill), automatically the recuperation of pedal energy (i.e., technical regeneration) will be activated. In that case the motor operates as a generator and partly re-charges the battery. The recuperation of pedal energy and battery capacity = REGENERATION will be explained in section 5.3. Recuperation of battery capacity.

5.1. Sensors and their function

This Klever 45 km/h E-bike is equipped with a torque sensor in the frame's rear dropout. In conjunction with the pedal sensor, this torque sensor precisely monitors the cycling effort of the cyclist. The motor controller then calculates the sensor values and manages precisely the amount of electric support from the motor. Hence generating a perfect synergy between cyclist and E-bike.

In addition, you can define the amount of motor support by yourself as well, choosing between ascending levels of support (N, ECO, TOUR, MAX, TURBO). This makes the system very efficient and economic, saving power consumption and maximising range.

The additional speed sensor sets the power of the electric motor to zero once you have reached a speed of 45 km/h or more. Above 45 km/h this E-bike functions like a conventional bicycle, the only way to maintain the propulsion of the vehicle is by pedalling solely.

The electric motor support only kicks in under the condition that you actively pedal. Therefore, from a standstill to get started either you have to pedal or you have to actuate the ⚡ (TURBO) button on the display. From standstill without pedalling the motor will take you to a maximum speed of 4 km/h. Convenient when starting uphill. The ⚡ (TURBO) button can also be used in case the speed E-bike has to be pushed while walking alongside your bike.

5.2 Levels of electric motor support

The BIACTRON-system offers five levels of electric motor support:

- N
- ECO
- TOUR
- MAX
- TURBO

Depending on topography, weather conditions and your personal preferences, you can choose the motor support using ↑ (Up arrow) and ↓ (Down arrow) button and the ⚡ (TURBO) button.

System level	Amount of support	Situation (recommended)
N	No support, electric system active	Downhill
ECO	Low support	Flat roads
TOUR	Medium support	Slight hills / headwind
MAX	Strongest support	Steep hills / fierce headwinds
⚡ (TURBO) (MAX) while pedalling ≤ 45 km/h.	Strongest support	Steep ramps / violent gusts
⚡ (TURBO) (MAX) without pedalling ≤ 4 km/h.	Strongest support	Starting from standstill
⚡ TURBO) (ECO) walking with your E-bike ≤ 4 km/h.	Walk-assist, low support	Walking with your E-bike or pushing it uphill

i **Please note! In case you actuate the ⚡ (TURBO) button, there are three scenarios:**

- 1. You walk alongside the E-bike and/or you push it out of your garage. While pushing the ⚡ (TURBO) button you will activate the Walk-assist mode and you will trigger a moderate electric motor support up to 4 km/h. In this way you can walk with your vehicle comfortably and easily.**
- 2. You are sitting on your E-bike and intend to start from standstill on a ramp without pedalling. Push the ⚡ (TURBO) button and you will get the strongest support up to 4 km/h.**
- 3. You are sitting on your E-bike. You are pedalling with for instance TOUR support and you need the strongest support momentarily. Push the ⚡ (TURBO) button while pedalling and you will trigger the strongest support regardless your speed (from 0 to 45 km/h).**

Please note! These 3 options will only function while you keep the ⚡ (TURBO) button pushed. As soon as you release the ⚡ (TURBO) button, the electric motor support will stop. Except in the latter case of pedalling: in that case after releasing the ⚡ (TURBO) button the level of electric motor support will go back to the preselected level (TOUR as in the example of scenario 3).

In order to save battery power, the support level will automatically be limited to the TOUR level when the battery capacity drops to 10%. When the battery capacity drops to 5% the support level will be limited to the ECO level and in the case of a battery capacity of 2% or less the level will be N. No pedal assistance, but the electric system remains active for lighting, display, motor locking and alarm.

5.3 Recuperation of battery capacity: regeneration

The Klever BIACTRON system has a unique feature: the recovery of battery capacity, also known as regeneration. Every time the drive system goes into freewheel, coasting mode, the BIACTRON system will start braking the motor. The motor friction is being converted into electricity that is being restored into the battery. The freewheel mode starts once you do not pedal and roll out to a traffic light or you coast down a hill or mountain without having to pedal.

Also, when actuating the brake levers with the built-in brake sensors, the regeneration function will be activated while the disc brakes start to brake the wheels.

Section 5.4.3 (Menu for settings) explains how this function can be activated and adjusted to your personal preferences. The regeneration function is a nice addition to the consumption and range of your battery. The more and longer you ride in a mountainous environment, the more you will benefit from this function. However, the recovery of electricity is limited and depends to a large extent on your riding behaviour, the environment and the chosen regeneration settings.

5.4 Display

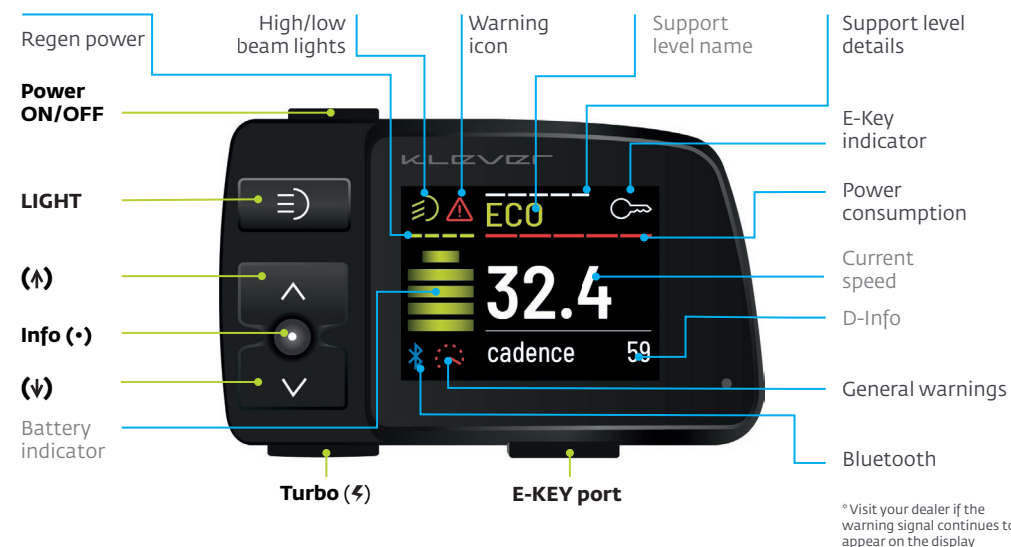


Image 5.3

With the display you start and control the BIACTRON-system. Upon purchase your Klever dealer will pair the E-bike with a set of two E-KEYS with a unique ID code. After the pairing your E-bike will only function and start with these E-KEYS with the dedicated and programmed ID code. It is impossible to activate your E-bike with other E-KEYS from other bikes.

Now you can start the system WITH or WITHOUT inserting the E-KEY (see section 5.4.3).

Every press of a display button will be confirmed with a short acoustic signal. As soon as you insert the E-KEY into the display (image 5.4), the system will start. With the E-KEY already in the display while the system is off, there are two ways to activate the system:

1. **Press the On/Off button** (image 5.3), after a 3 seconds system check your E-bike is ready to be pedalled.
2. **Just start pedalling, the electric system will wake up automatically.** After a 3 seconds system check, the electric drive will start to support.



Image 5.4

Button	Location	Function
Power	Upper left edge	On/Off system
INFO (•)	Middle left	Switch between time, trip, Km-day, odo, soc (state of charge), kcal (calories) and cadence
Up arrow (↑)	Middle left	Increase support level
Down arrow (↓)	Lower left	Reduce support level
⚡ Turbo	Lower left edge	Starting and walking aid (without pedalling) Strongest support (without pedalling) Strongest support (while pedalling)
Light	Upper left	On/Off light

5.4.1. Function of each button



Image 5.5

On/Off button (image 5.5)

Press the POWER button and you'll boot the system. The system performs a system check of 3 seconds, and the drive system is ready to operate. The electric drive will start to support depending on the level of assistance chosen. Press this button again, the system will be turned off and all settings are being stored. Press the button again, the system starts and all previous settings and levels of support are enabled again.



Image 5.6

Up arrow (↑) button (image 5.6)

Press the up arrow (↑) button and you increase the support level. For instance, when the selected level is TOUR and you press the up arrow (↑) button, the support level of the motor will increase to MAX level.



Image 5.7

Down arrow (↓) button (image 5.7)

Press the down arrow (↓) button and you decrease the support level. For instance, when the selected level is TOUR and you press the down arrow (↓) button, the support level of the motor will decrease to ECO level.

INFO (•) button (image 5.8)

Press the INFO (•) button and you enter into a loop subsequently offering all rider's data on the screen. Press the INFO (•) button shortly in order to go through the available rider's data: **time, trip, Km-day, odo, soc, kcal** and **cadence**. See below. Please note: the available rider's data may vary depending on Klever model and software version.



Image 5.8

Press "INFO button" to change the D-INFO



Image 5.9

Time (hh:mm) (image 5.10)

The time can be adjusted in the settings menu of the display, synchronising with your smartphone or with the service tool at your Klever dealer.



Image 5.10



Image 5.11

Trip (image 5.11)

The number of kilometres ridden since the last reset, in this case 0.9 km. In case you want to reset the trip distance to zero at the start of a new trip, press the INFO (•) button long and select 'Reset' in the menu. Select 'yes' and confirm by pressing the INFO (•) button (see section 5.4.3 with the submenus of the display settings).



Image 5.12

Km-day (image 5.12)

Kilometres ridden today, starting at oohoo AM, in this case 3.5 km. The daily mileage will be set to zero at midnight 00:00 every day.



Image 5.13

odo (image 5.13)

Accumulated kilometres during the entire lifecycle of your Y Muse 45, in this case 459 km. When the odo reaches 99,999 km, it will be reset to 0.



Image 5.14

SOC = State of Charge (image 5.14)

The SOC indicates the current battery capacity, in this case 49% of the total.



Image 5.15

Kcal (image 5.15)

The rider's number of kilocalories burnt while cycling, in this case 12.0 kcal. For proper kcal calculation please set the rider's weight as well. Press the INFO (•) button long and select 'Rider' in order to input the rider's weight. Kcal can be reset by selecting RESET kcal in the EXTRA-menu (see section 5.4.3 with the submenus of the display settings).

Cadence (image 5.16)

The cadence is the rider's pedal frequency shown in rotations per minute (RPM). In other words, it shows how many full rounds your pedals make per minute. In this case 59.



Image 5.16

⚡ (TURBO) button (image 5.17)

This button has three functions for three different scenarios of ⚡ (TURBO) usage:

1. As a walk-assist while walking alongside your E-bike.
2. As a ⚡ (TURBO) power assist without pedalling.
3. As a ⚡ (TURBO) power assist while pedalling.

Section 5.2 deals in detail with these three different ⚡ (TURBO) power scenarios.



Image 5.17

Please note! We recommend that you familiarise yourself with the 3 different scenarios of ⚡ (TURBO) power support prior to riding your E-bike on public roads. Try to practice these scenarios on a parking lot or in a traffic-calmed street. Once you feel comfortable using the three ⚡ (TURBO) modes, you can start riding your E-bike on public roads.

5.4.2 Display content**Battery status (image 5.18)**

The battery icon shows the charging status of the battery. One bar represents 20% of full capacity (half bar represents 10%). If only one bar is shown, only 20% of the maximum capacity of the battery is left and the bar will turn from green to orange. It is about time to recharge the battery. When only half a bar is left and it turns from orange to red, there is less than 10% battery capacity remaining. Recharging of the battery is urgently needed.



Image 5.18

Display	Capacity
5 bars light up green	≤ 100%
4,5 bars light up green	≤ 90%
4 bars light up green	≤ 80%
3 bars light up green	≤ 60%
2 bars light up green	≤ 40%
1 bar lights up orange	≤ 20%
Half bar lights up red	≤ 10%

Additionally, you can check the charging status with the LED on the battery too (see section 5.5.1 Charging of the chargeable battery). To save battery capacity, it is not possible to choose support level MAX if 10% or less battery capacity is left. With 5% or less capacity remaining, only the ECO level of support is available. At 2% remaining battery capacity the system will switch to level N..



Image 5.19



Image 5.20



Image 5.21

Level of motor support (image 5.19)

The bars in the upper part of the screen show the selected level of motor support. See section 5.2 for the various levels of electric motor support and their recommended riding situations. Section 5.4.3 Submenu ASSIST/REGEN helps to set the support levels according to your personal riding preferences.

Speedometer (image 5.20)

The main display in the centre of the screen will show the actual riding speed.

Regeneration (image 5.21)

The green bars show the actual amount of regenerative power you get from the system in case you have selected the recuperation = regeneration mode in the menu. See section 5.4.3 Submenu ASSIST/REGEN for the menu of regeneration. The more bars (max 4) the display shows, the more regeneration you get back from the system.

Battery consumption (image 5.22)

The red bars show the actual battery consumption. The more bars (max 5) the display shows, the more your battery is being drained. Of course, higher consumption will reduce your range more rapidly.



Image 5.22

5.4.3. The menu and submenu for settings

Press **INFO (•) button for 3 seconds** to enter the Settings menu.



Navigate with the arrow (↑) and (↓) buttons and confirm your choices with the **INFO (•) button**.

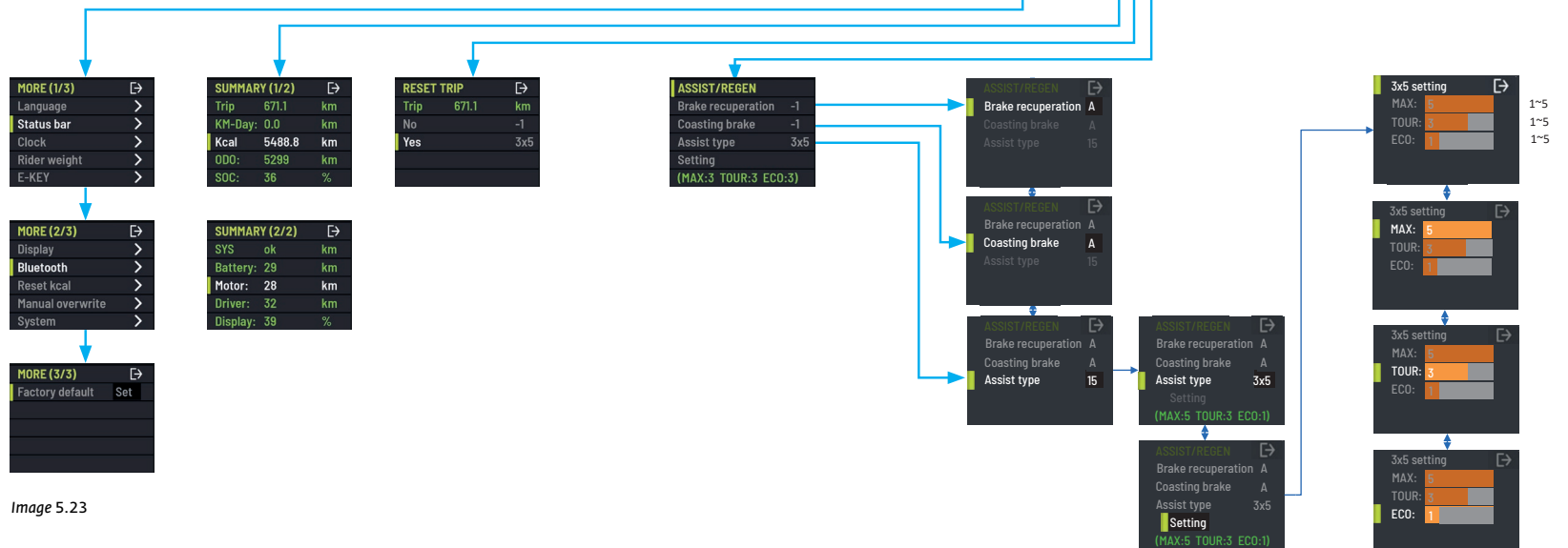


Image 5.23

Submenu ASSIST/REGEN

Setting > ASSIST

With the Assist submenu you adjust the support levels according to your own personal preferences. You have two options for Assist settings:

3x5

There are 3 basic levels of ascending motor support: ECO, TOUR and MAX. Each basic level can be set with 5 sublevels from 1 to 5 to meet your personal preferences. The factory default settings for each basic level are 3. The example of image 29 shows MAX with level 5, the strongest support and ECO with level 1 the least support. Once the levels being set, you choose with the (↑) and (↓) button the 3 basic levels ECO, TOUR en MAX in 3 steps. While riding you cannot change the settings for the sublevels. This must be done in the Assist menu again.

15

With this option the motor support levels increase gradually in 15 steps from 1 to 15. From ECO in level 1 (least support) you go with the (↑) and (↓) button in 15 steps linearly to MAX in level 5 (max support). This can be done during cycling and there is no need to go back to the Assist menu.

Setting > REGEN

Regen means the regeneration and recuperation of electric energy back into the battery pack (see section 5.3 Regeneration). There are two regen functions:

- Regeneration through braking: On/Off
- Regeneration while coasting and freewheeling: On/Off

And both braking as well as coasting regeneration have 5 levels of regeneration:

- Automatic
- -1 (light)
- -2 (medium)
- -3 (strong)
- 0 (no regeneration).

The Regen factory default setting has regeneration turned off for both braking as well as for coasting.

Submenu MORE

With the submenu MORE you can adjust following parameters: the language of the display, the information displayed during riding, the clock, weight of the cyclist, settings for the E-KEY and the display settings. Also, you can

connect your smart phone through Bluetooth with the Klever display and you can reset trip and calories to zero.

Setting MORE > Language

The display can be shown in the language of your choice (NE, DE, EN, FR, IT, US).

Setting MORE > Status bar

Seven types of information can be shown on the major display by default. With a short press of the INFO (•) button you can go through the loop of these seven types of information (see section 5.4.1. Function of each button). And you can hide any of those in case you do not need them while riding.

Setting MORE > Clock

Time can be adjusted or can be synchronised with your smart phone.

Setting MORE > Cyclist weight

Input the cyclist's weight for the proper calculation of your calorie output. You can set the weight of 2 cyclists using the same E-bike frequently

Setting MORE > E-KEY

The two E-KEYs supplied with your bike are being paired with the E-drive system by your Klever dealer upon purchase. You have two options for the E-KEY functionality:

1. E-KEY must always be inserted

When you turn on the system the display will read "insert E-KEY". You have to insert the E-KEY to activate the system. In case you start to ride without inserting the E-KEY, the alarm will go off and the motor will be locked. Once you have inserted the E-KEY and the system is being activated, you can remove it and the system will continue to operate until you turn off the system. After that the motor lock is being activated. The next time when you turn on the system again, the display will ask again for the insertion of your E-KEY.

2. Motor lock option YES or NO

The start-up procedure is the same: the display will ask to insert the E-KEY. In case you remove the E-KEY while the system is still on, the display will ask whether you want to lock the motor or not:

- Once you select NO, you can continue to cycle. After you have finished cycling, you turn off the system with the On/Off button. The next time when you turn on the system, you will not need the E-KEY to activate the system. However, in case you have turned on the system, the system does not ask to insert the E-KEY, yet you do insert the E-KEY, then you turn back in the loop of the NO/YES-choice.
- Once you select YES, the system will be turned off instantly and the alarm and the motor lock will be activated. In case you start to ride your bike now, the alarm will go off and the motor will be locked. In case you turn on the system with the Power button, then the display will ask to insert the E-KEY again. After you have inserted the E-KEY, you can take it out and put it into your pocket. Then the option menu shows again the NO/YES-choice for the Motor Lock etc., etc.

Setting MORE > Display > Sound

The system's acoustic sound can be turned ON or OFF.

Setting MORE > Display > Brightness

The brightness of the display can be adjusted.

Setting MORE > Display > Light

Setting for 25 km/h EPAC-models only: Head and tail light will be turned on automatically when the system will be turned on. You can decide to turn off the head and tail light while the system remains on.

Setting for 45 km/h speed pedelec models only: the turn ON/OFF-option is not available for speed pedelecs. These are Type-approval vehicles and therefore they must carry a head and tail light under all conditions. Even when standing still they must carry a stand light.

Setting MORE > Bluetooth

By Bluetooth connection you can use your smart phone as a dashboard to show the information from the bike system.

Setting MORE > Reset Kcal

The Kcal can be reset to zero.

Setting MORE > Manual overwrite

This setting can be adjusted by your Klever dealer.

Setting MORE > System

This is the system information relevant for your Klever dealer to execute a system diagnosis.

Setting MORE > Factory default

You can set your bike back to factory default settings.

5.5 Rechargeable battery

Your Klever E-bike has a high-quality lithium-ion battery with a big capacity. For technical details, please refer to section 11. Technical data. The status of the battery can always be checked through the LED light button, next to the charging socket of the battery (image 5.24). Press the button and the LED will light up either red, yellow or green. If no light, then the battery could be broken. Please have your local dealer check the battery.

Red	Capacity < 35%, battery should be charged
Yellow	Capacity 35 – 75%, battery can be charged
Green	Capacity > 75%, battery can be charged

The battery is automatically protected from overheating, overcharging and deep discharging. It is very user-friendly. Nevertheless, you should consider some points in order to maximise the life and performance of the battery.

- You can charge your lithium-ion battery at any time. Even if it is not completely discharged. In practice, it is even better to charge it again after short distances.
- Your battery has a lifetime of 700 charging cycles. One charging cycle means a full charge of the battery (0 – 100% capacity). Partial charges can be done more often. See chapter 9. FAQ's and chapter 12. Warranty for more information about the battery's lifetime after 700 cycles.
- When the battery is not being used for more than 2 months, it should be recharged as a low amount of self-discharge is common.
- Store the battery, if possible, in a dry, cool and dark place. The ideal storage temperature is between 5 – 20 °C. Avoid exposing the battery to direct sunlight. Temperatures over a longer period of more than 45 °C or below - 10 °C can cause permanent damage.
- In winter, you should never start with a cold battery. The capacity of a cold battery is significantly reduced and consequently will have a lower range.
- A battery which is exposed a long time to frost, should be

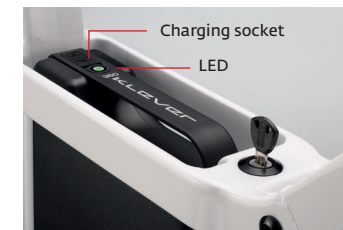


Image 5.24

gently warmed in the ambient temperature of a heated room, prior to starting.

- In case you need to park your Klever 45 km/h E-bike outside for a long time during the cold season, remove the battery and store it in a heated room. Since the battery is very easy to remove.
- Also, the battery should be charged at moderate temperatures (15 – 25 °C). Avoid charging in direct sunlight or near heaters, as well as charging outside in winter at low temperature.
- Do not expose the battery to humidity, in order to prevent corrosion of the charging socket and the plug contacts.
- Protect the battery against mechanical damage and don't drop it. Mechanical damage can cause overheating and the battery could catch fire.
- Do not use any other type of charging unit, except the dedicated Klever charger, since this may damage the battery and may cause overheating or fire.
- During charging, neither the charger nor the battery should be exposed to humidity, in order to prevent short circuits and electric shocks.
- Should the battery be broken or become defective, seal the contacts with tape and take it to your dealer or contact our technical hotline.
- Never under any circumstances open up the battery yourself. This is dangerous and could damage the battery and it may even catch fire. The warranty will be void if you do so!

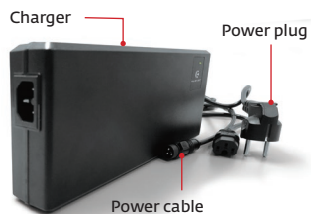


Image 5.25

! **Caution! Never place the battery on the heater and never try to heat it with a hair dryer.**

! **Caution! Charge the battery exclusively with the proprietary Klever charger which comes with your E-bike (image 5.25).**



Do not dispose of the battery into household waste. It must be disposed of properly. It is best to take it to one of our Klever dealers, who can take care of the disposal properly.



Please note! Resuming:

- **Charge the battery only with the proprietary charger.**
- **The battery can be recharged any time, even after short trips.**
- **Avoid prolonged temperatures below -10 °C and above 45 °C.**
- **Never start with a cold battery.**
- **After an extended period of storage, the battery should be recharged.**
- **Protect the battery from humidity.**
- **Protect the battery from mechanical damage.**
- **Never open the battery yourself.**

5.5.1 Charging the battery

You can charge the battery on (image 5.26) or off bike. For instance, indoors during the winter time (image 5.27). Charging at any time, even after a partial discharge (e.g., after a short distance of a few kilometres) is possible. There is no need to wait until the battery is completely discharged, as it has no memory effect. To remove the battery pack, refer to section 5.5.3. For the technical details of the charger please read chapter 11. Technical data. To charge the battery, do following:

- You can monitor the charging process on the basis of the indicator LEDs on the charger and battery.
- Connect the power cable to the charger.
- Insert the power plug of the charger into the wall socket, the LED will start to flash red.
- Once the LED lights steady red the charger is ready for charging.
- Connect the socket of the charger into the socket of the battery. The charging process will start automatically.
- The LED on the charger switches to flashing yellow light, charging begins.
- The LED indicator turns to yellow continuous light. The battery is charged to about 35%. The charging is in progress.
- The LED changes to flashing green, the battery is to about 75 – 90% charged.
- The LED is on solid green, the battery is now fully charged and the charging process is complete.
- Disconnect the power plug from the wall socket.
- Unplug the socket of the charger from the battery socket.



Image 5.26




Image 5.27

The LEDs on the charger and battery document the state of charge of the battery.


State of charge	Charger LED	Battery LED	Note
	Flashing red		Error code: check connections
	Steady red		Charger ready to charge
0%	Flashing yellow	Flashing red	Capacity very low; charging starts
< 35%	Steady yellow	Flashing red	Normal charging
35 – 75%	Steady yellow	Flashing yellow	Normal charging
75 – 90%	Steady yellow	Flashing green	Normal charging
> 90%	Flashing green	Flashing green	Final charging
100 %	Steady green	No LED colour	Fully charged

The charging of an empty rechargeable battery of 850 Wh (from 0% to 96%) will take about 3.5 hours with the dedicated 6A charger.

The charging of an empty rechargeable battery of 1,200 Wh (from 0% to 96%) will take about 5 hours with the dedicated 6A charger.

 **Please note! Make sure that the battery is no longer connected to the charger after the charging process has been completed. Likewise, the charger should be disconnected from the power supply.**


Battery and charger become warm during the charging process. Ensure adequate ventilation of the battery and charger. The vent holes should not be covered. Place the charger and battery on a clean surface. Prevent contamination of the charging sockets on the charger and the battery. Avoid humidity and direct sunlight.

 **Please note! In case the charger is damaged, contact an authorised Klever dealer. Never open the charger.**

5.5.2 Battery range

The range specification of the system as indicated in image 5.28 can only be relative, as it strongly depends on:

- The lower the selected level of motor support, the bigger the range of the electric system.
- The technical condition of the bike (oiled chain, proper tyre pressure, etc.).
- The total weight of the system (E-bike + cyclist + luggage).
- The topography of the chosen route.
- And the weather conditions (head- or tailwind, winter or summer).

 **Please note! In winter, the range can be up to 30% less capacity due to lower temperatures.**

Battery power

e-bike

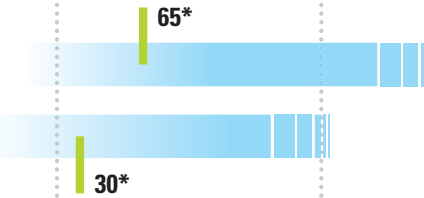
distance in Km

570Wh



25
45

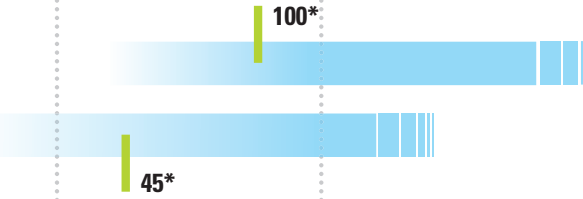
25 75 125 175 225 275 325



850Wh



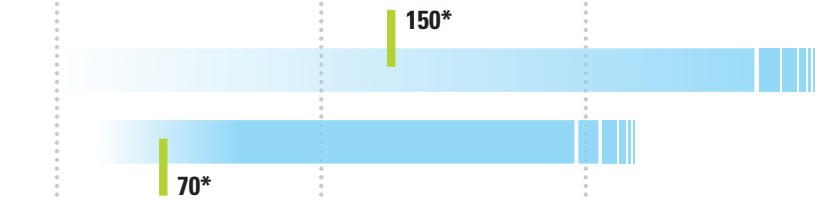
25
45



1200Wh



25
45



AVERAGE RANGE
Battery performance given a mixture of conditions.

MINIMUM EXPECTED RANGE
At low temperatures, poor weather conditions, heavy load, maximum assistance, upright riding position.

MAXIMUM EXPECTED RANGE
At most favourable weather conditions, low load, low assistance, low resistance and sporty riding position.

RANGE CALCULATION BASIS

This graph is only an indication of minimum, average & maximum ranges. Klever cannot guarantee specific ranges based on conditions that may vary per case.

Image 5.28



Image 5.29

5.5.3 Removal and mounting of the battery pack

The battery is automatically locked in place with the battery lock and thereby protected from theft. To remove the battery, first turn off the system using the On/Off button on the display. Turn the key in the battery lock clockwise up to the stop and pull out the battery with the handle from its docking station (image 5.29). Now you can charge the battery separately or store it safely for a longer break.

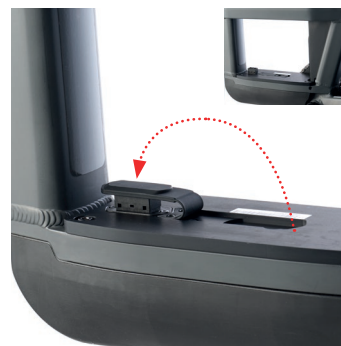


Image 5.30

Having removed the battery pack from your E-bike, please don't forget to protect the contact connector of the controller unit with the rubber cover. We advise to always use the rubber cover when the battery is taken out of the docking station (image 5.30).



Image 5.31

Mounting the battery in the docking station

Insert the battery carefully. Make sure the groove of the battery casing is carefully inserted into the rail of the bicycle frame. Then slide the battery pack gently down until you hear the lock engage and the electronic contacts are connected (image 5.31). For this operation you do not need the key of the lock. The lock will automatically snap in place and the battery will be locked. The system is ready for operation and the battery protected from being stolen.

i **Caution! Do NOT ride your E-bike without battery! Prior to starting the system, make sure to check whether the electronic contacts of the battery are engaged and locked in place. Riding your E-bike without the battery could possibly damage the Klever BIACTRON system.**

5.5.4 Transport of the battery pack

E-bike battery packs are subjected to the IATA Dangerous Goods Regulations, which are dealing with the safe transportation of dangerous goods in commerce. As the owner of a Klever E-bike you can transport the battery pack by road and train without limitations and any further requirements. However, when being transported by third parties (e.g., forwarders, post or via air) special requirements on packing and labelling of the battery pack must be observed. In that case, please consult an expert for the transport of hazardous materials.

Ship the battery only when the casing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packing. And please also observe detailed national regulations.

i **Please note! In every case of transporting a broken or damaged battery, always refer to an authorised Klever dealer. The dealer can inspect the battery and, in case necessary, forward the broken battery to Klever Mobility.**

5.6 Elementary diagnostics and troubleshooting of the electric system

The system will not turn on

Check all connections. Check whether the battery is sitting correctly in the docking station in the frame and whether the battery lock is engaged.

The system can be turned on, but does not give any electric motor support

Check all connections from and to the rear wheel motor.

i **Please note! In case it is not possible to solve the above problems, contact your local Klever dealer or our technical hotline.**

6. Bicycle parts of your Klever 45 km/h E-bike

This chapter explains function, maintenance, service and operation of the conventional bicycle components which are not part of the electric drive system. You will find additional information in the accompanying manuals of the component suppliers.



Image 6.1



Image 6.2



Image 6.3

6.1 The 45 km/h E-bike, a Type-approval vehicle with dedicated equipment

As explained in chapter 2. Type-approval (and further detailed in the chapters 11. & 12.), the Y Muse 45 is not a regular E-bike, it is a 45 km/h E-bike. It is an electrically powered vehicle with a maximum speed of 45 km/h classified in the L1e-B vehicle category. Consequently, it is a Type-approval vehicle which has to comply with the European Regulation EC 168/2013. Therefore, the Y Muse 45 comes with special equipment: a well audible horn, a brake light and a wing mirror which are in line with the higher speed of this vehicle (up to 45 km/h) and the Type-approval requirements.

6.1.1 Horn

The horn is mounted underneath the handlebar (image 6.1) and can be actuated with a pushbutton at the LH-side of the handlebar, underneath the LCD display (image 6.2). With this horn you can notify other road users of your presence on the road, especially under unclear and crowded traffic conditions.

6.1.2 Brake light

The tail light has an integrated brake light. When actuating your brake levers the brake light in the rear will start to light with higher intensity than the regular tail light (image 6.3). In this way the traffic coming from behind will be notified that you are braking and your speed is decreasing.

6.1.3 Wing mirror

Your speed pedelec is being equipped with a wing mirror on the LH-side (UK RH-side) of your handlebar (image 6.4). The mirror can be adjusted by hand according to your preferred position. With this mirror you will have eyes on the road users behind you, especially those who are faster than you and who are in the process of overtaking you. Consequently, you don't need to turn around your head and you are able to keep your attention on the traffic in front of you and on the traffic behind you at the same time.



Image 6.4

6.2 Saddle and handlebar adjustment

This E-bike comes in two frame sizes (M = Medium and L = Large). Fitting the frame size to your body can be done with adjustment of saddle, stem and handlebar. Your dealer can do this on the spot. In case you want to do the settings for yourself or for another cyclist, the adjustment is briefly described below:

! Caution! All work described requires the expertise of a bicycle mechanic and appropriate tools. Use a torque wrench to tighten the bolts and never exceed the maximum torque of the bolts. All necessary tooling and information on the recommended torque can be found in chapter 14. Technical Data.

Adjustment of the saddle height

You will find the optimal saddle height if you touch the pedal with the heel of your stretched leg, when sitting on the saddle. Without having to overstretch your leg and hip. Alternatively, you bring the ball of your foot to the centre of the pedal. Your knee should be slightly bent (image 6.5). Loosen the seat clamp bolt with a 6 mm. Allen key (image 6.6) and move the seat post with the saddle to its proper height. Align the saddle with the frame using the saddle nose and the bottom bracket or the frame tube as references. Fasten the bolt of the seat clamp again and check the correct height of the saddle. Repeat the process if necessary until you find the correct saddle height.

The distance between saddle and handlebar (by pushing the saddle forward or backward on its rails) and the saddle angle are adjusted with the 2 saddle clamping bolts of the seat post and a 5 mm. Allen key (image 6.6). Generally, the saddle should be positioned horizontally.



Image 6.5



Image 6.6



Image 6.7



Image 6.8



Image 6.9



Image 6.10

i Please note! Pay attention to the recommended torque when tightening the various bolts (see chapter 14. Technical Data).

! Caution! The seat post may never be installed over the minimum insertion mark (image 6.7). Otherwise, the post could possibly break during riding, which could lead to injuries.

Handlebar adjustment

The handlebar can be adjusted to your personal preferences, by changing the angle of the handlebar stem and the height of the handlebar. Your Klever dealer will be happy to set the handlebar to your liking. However, in case you intend to adjust the handlebar by yourself, then proceed as follows:

- Loosen the big pivotal M8 bolt of the adjustable stem with a 6 mm. Allen key and adjust the angle of the stem (image 6.8).
- With the angle adjustment you can move the handlebar towards the rider as well as further away from the rider. Once you find the proper position of the handlebar, tighten the M8 bolt with the correct torque.
- After adjusting the stem, you may have to adjust the position of the handlebar too. Loosen the 2 M5 bolts on the bottom side of the head of the stem with a 4 mm. Allen key (image 6.9).
- Please note that the adjustment of the angle of the handlebar may have altered the position of the brake levers, the display and the shifter too. If necessary, you can adjust the position of these components as well. Loosen the Allen key bolts and screws of the display, brake levers and shifter. Turn display, brake levers and shifter into the correct position. And keep in mind that your hands should be resting on the handlebar in a relaxed way and should not be forced into an unnatural position (image 6.10). Finally tighten the Allen key bolts with the correct torque.
- You may have to repeat these steps a couple of times in order to find the most convenient position according to your liking and needs.

i Caution! Please check whether the handlebar is correctly tightened. You should not be able to twist the handlebar while putting full force on the grips.

6.3 The suspension front fork

The suspension front fork of your E-bike improves the riding comfort. This front fork is pre-set with factory settings (Image 6.11).

For the long-term proper functioning of the front fork regular maintenance is required. Have your Klever dealer check the suspension front fork at least once a year during the annual inspection. Some basic tips for the fork maintenance at home:

- Clean the smooth surfaces of the stanchion tubes with a cloth and a little water.
- After cleaning spray some water-repellent oil on the stanchion tubes for lubrication of the bushings and for a plush suspension function.

! Caution! Never use a high-pressure cleaner or aggressive detergents for the maintenance of the front fork. Pay attention to the maintenance instructions in the manual of the fork supplier.

6.4 Disc brakes

Your E-bike has disc brakes (image 6.12) with an excellent braking performance, even under rainy weather and other bad weather conditions. They are low maintenance and do not wear the rim. While actuating the brake lever, the oil pressure is being transmitted through the hose into the brake calliper. This makes the brake pads contact the disc rotor.

Both brake levers have a brake switch sensor. When the brake lever is being actuated the brake switch instantly cuts off the electric motor support and at the same time activates the regeneration function (see section 5.4.3 Submenu ASSIST/REGEN).

i Please note! New brake pads must be run-in in order to achieve their best deceleration values. By braking at least 30 times from approximately 30 km/h to complete standstill the brake pads will achieve their maximum brake power.



Image 6.11



Image 6.12

Squealing brakes

Not properly run-in brakes do not reach their best deceleration values and are prone to vibrations and loud squeal. The brake pads and disc rotors must be regularly checked for wear. If rotors and brake pads are worn, they will need to be replaced. In case the brake performance is getting less and you are losing brake power or you can push the brake lever through to the handlebar without any braking effect, the brake system must be bled (purged). Bleeding and the replacement of worn brake pads and rotors is better left to authorised Klever dealers.

! **Caution! In case the brake performance is decreasing or the system shows signs of leakage, do not continue to ride your E-bike and go and see your local Klever dealer immediately.**

! **Caution! Oil or grease on the brake pads and disc rotors will reduce the effect of the brake substantially. Prevent in any case, while cleaning the bike and lubricating the chain that oil or other liquids can contaminate the brake pads and disc rotors. Contaminated brake pads cannot be cleaned and need to be replaced immediately. You can clean the disc with brake cleaner or warm water and a little detergent if necessary.**

i **Please note! Ride more cautiously under humid and rainy conditions because the stopping distance could be longer.**

More information on disc brakes, the replacement of brake pads and disc rotors and the wear of these components, can be found in the dedicated manual of the disc brake supplier.



Image 6.13

6.5 Mechanical drive train and gearshift

Your Klever 45 km/h E-bike has a 10-speed derailleur drive train. The 10 gears will help to always use the optimal transmission (pedalling & cadence) independent of terrain (flat or hilly) and independent of weather (tail- or headwind). You are always able to pedal with an optimal cadence of 60 – 80 crank revolutions per minute.

The complete drive train is composed of the crank set, rear derailleur, chain, gear shifter and 10-speed cassette (image 6.13). With the gear shifter (image 6.14) you control the rear

derailleur, which ensures that the chain can move on the 10 sprockets of the cassette. These 10 sprockets represent the 10 gears.

Your dealer has checked your bike before the handover and has adjusted the shifter. During the first miles however, the shift cable could lengthen slightly and the shifter may become misaligned and may have to be readjusted. With the cable tension screws of the rear derailleur and shifter you can readjust the tension of the shift cable. With the two positioning screws (H & L) on the rear derailleur, you can make sure that the rear derailleur is well aligned underneath the sprockets (image 6.15 & 6.16). And the chain cannot get between the smallest sprocket and the frame or between the largest sprocket and the spokes.

i **Please note! The precise adjustment of the derailleur and shifter is rather difficult and should better be done by an experienced mechanic. In case you have any problems adjusting the shifter and derailleur, please contact your local Klever dealer.**

The chain should be cleaned and greased regularly (especially after riding in the rain). So, it runs as quietly as possible, the friction losses are as low as possible, and the lifetime is maximised. Clean the chain regularly with a clean cotton cloth and lubricate it afterwards. Some minutes after you have oiled the chain, rub it with the cloth to remove superfluous oil from the outer surface. Since the chain is one of the bike parts that wears out, it should be replaced if worn. A worn chain has poor shifting characteristics and leads to increased wear of the chain wheel and the sprockets of the cassette.

🔧 **Please note! The control of the chain wear should be carried out at the dealer's workshop. They have the proper tools to measure the wear and replace the chain.**

Additional information on rear derailleur and shifter, their adjustment you will find in the manuals of the suppliers of these components.



Image 6.14

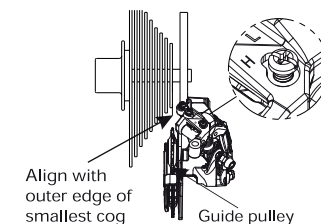


Image 6.15

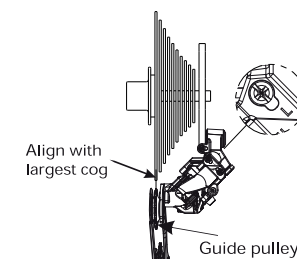


Image 6.16



Image 6.17



Image 6.18

6.6 Lighting

Your Klever 45 km/h E-bike has a lighting system which corresponds with the Type-approval regulation and has an official mark: indicated by the letter E, and a six-digit number. Power supply for the lighting comes directly from the battery pack of the vehicle. The headlight is a LED (image 6.17) with high output and stand light function. The taillight is a bright LED with stand light function too, with integrated brake light and license plate illumination (image 6.18). On the upper left corner of the display, you have a light button to manually switch from low beam to high beam. Once you release the button, the headlight changes from high beam to low beam again (see section 5.4 Display).

If there is a failure in the lighting system, please check all contacts at headlight and taillight. Check all cables for damage. In case you don't find any errors, you should be looking for repair at an authorised Klever dealer immediately.

! Caution! A non-functioning light is illegal and endangers your life on the road. E-bikes without lights are easily overlooked in the dark. You run the risk of serious accidents.

More information on the headlight and the taillight can be found in the manual from the lighting supplier.

6.7 Wheels and tyres

Wheels are one of the most stressed components of your vehicle. They contact the road; they provide propulsion and they absorb the road bumps. Due to the heavy use, they should be regularly checked. In case of radial or axial play or broken spokes, the wheels should be repaired or trued by an authorised Klever dealer.

For removal and installation of the wheels, due to a puncture or in case of transportation of your Klever E-bike, you take the steps as described below.

Removal of the rear wheel

- Shift the chain to the smallest sprocket on the cassette.
- Turn off the BIACTRON-system of the E-bike and remove the battery pack.
- Loosen the bolt of the mounting bracket of the motor connector (cable guide) on the inside of the left-hand chain stay with a 4 mm. Allen key (image 6.19). Disconnect the

plugs of the motor connector.

- Loosen the axle nuts on either side of the motor with a 19 mm. wrench (image 6.20).
- Now pull the wheel out of the dropout, while pivoting the rear derailleur and the derailleur's pulley backwards.
- Put the rear wheel aside and block the brake pads of the disc-brake by inserting the enclosed pad separator into the calliper (image 6.21). This prevents accidental compression of the pads by unintended actuation of the lever while the disc rotor is being removed.
- Now you can replace the tyre or inner tube of the rear wheel and/or mend it.
- Assembly of the rear wheel is done in reverse order.
- After having removed the pad separator, make sure to insert the disc carefully between the brake pads during assembly.

! Caution! In case you need to work on the drive train or the rear wheel of your E-bike, you need to make absolutely sure that the BIACTRON-system is turned off and the battery pack taken out of the docking station. If not turned off, your fingers could get stuck between or pinched by chain, cassette and chain ring. This could lead to serious injuries.

! Caution! Pay attention to the correct torque for the assembly of the axle nuts of the rear wheel (40 Nm). Make sure there is sufficient space (at least 5 mm.) between the disc and the wiring harness of the motor cable!

Removal of the front wheel

- Loosen the thru-axle of the front wheel counter clockwise with the QR-lever. Take it out of the front wheel (image 6.22).
- Pull the front wheel out of the front fork.
- Block the brake pads of the disc brake by inserting the enclosed pad separator into the calliper (image 6.21).
- The assembly of the front wheel is done in reverse order.
- While assembling, insert the disc brake rotor carefully between the two brake pads.
- Pay attention to the correct torque of the thru axle (max 15 Nm).

! Caution! Disc brake rotors can be very hot after riding & braking. Let them cool down prior to disassembly of the wheels.



Image 6.19



Image 6.20

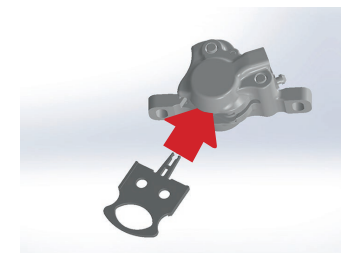


Image 6.21

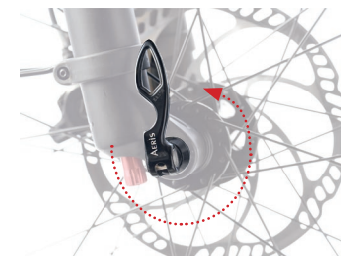


Image 6.22

Tyres

The tyre size can be found on the sidewall. It is printed in millimetres and inches: 27,5" x 2.35" and 57 – 584 mm. The wheel has a diameter of 584 mm. (27,5") and a width of 57 mm. (2.35").

! *Please note! The recommended tyre pressure is indicated on the sidewall of the tyres (2,0 – 4,0 bar; 30 – 55 Psi).*

i *Please note! Regularly check the correct tyre pressure and pressurise your tyres if necessary. The tyre uses an inner tube with Schrader valve. So, you can check and inflate the tyre at any gas station.*

! *Caution! Above or below, never exceed the recommended air pressure range. The tyre and the tube can be damaged and this may lead to sudden loss of air with risk of an accident. Too low tyre pressure causes higher rolling resistance. As a consequence, this reduces the range of your battery.*

Disassembly, repair & assembly of the tyres

Regularly check the tyres for cracks and for its thread pattern height. In case you find that cracks or sharp objects have damaged the fabric of the tyre or the thread pattern is no longer sufficient, replace the tyres. If in doubt, ask your Klever dealer who can verify the tyre and replace it.

In the case of a flat tyre, do as follows:

- Always use plastic tyre levers.
- Remove the wheel as described above.
- Deflate the tyre and push a tyre lever underneath the tyre bead opposite of the valve and lift the tyre over the rim flange.
- Push the second tyre lever underneath the tyre bead in a distance of 10 cm. from the first one (image 6.23). If the tyre is still very tight around the rim, then use a third tyre lever as well.
- Now, you can lift the tyre over the whole circumference of the rim with the help of one of the levers. The inner tube can be removed.
- In case the leak cannot be found easily, hold the inflated inner tube into a bucket of water and look for the rising air bubbles.
- Repair the tube according to the instructions on the repair kit. Or if necessary, replace it. In case of replacement, make sure you buy the correct size inner tube.



Image 6.23

- Check the inside of the tyre for sharp objects that could have caused the puncture and remove them. If the fabric of the tyre is damaged, replace the tyre too. Start the mounting of the inner tube by inserting the valve into the valve hole in the rim and inflate the tube with very little air pressure until it is wrinkle-free.
- Now mount the inner tube without any creases underneath the tyre (image 6.24).
- Starting opposite of the valve, lift the tyre bead over the flange of the rim and pull it deep into the rim. Lift the rest of the tyre by hand over the rim's shoulder. Do not use tyre levers, as this may damage the inner tube.
- Push the valve a little back into the tyre, so that the bead of the tyre is correctly seated in the rim.
- Pull the valve back again and inflate the inner tube to the recommended tyre pressure.



Image 6.24

6.8 Luggage carrier and transport of luggage

Your Klever E-bike has a robust and durable aluminium luggage carrier (image 6.25). The carrier is compatible with the majority of all standard panniers, and you can use it in conjunction with an extensive range of accessories. Please note, the maximum load capacity of the luggage carrier is 25 kg.

i *Please note! When transporting luggage make sure that you do not exceed the total maximum permitted weight of 150 kg., being the combination of speed pedelec + cyclist + luggage.*

! *Caution! The additional weight of luggage on your rear carrier changes the handling of the bike and makes the required braking distance longer as well.*




Image 6.25

6.9 Anti-theft protection

This Klever E-bike comes with a motor lock and immobiliser combined with an acoustic alarm system. The battery can only be removed from its docking station by unlocking the battery lock with the key (see section 5.5.3 Removal and mounting of the battery pack). We recommend to also use a robust and high-quality chain lock in order to be able to lock the vehicle to solid fixtures.

6.10 Accessories

Useful accessories can enhance the functionality and comfort of your E-bike and they can increase your riding pleasure too. These accessories are available at your Klever dealer.

 ***Please note! Accessories must be Type-approved accessories compatible with your Klever 45 km/h E-bike. Incompatible accessories may influence and alter the riding characteristics of your bike and can lead to accidents. Best ask your dealer for information and advice.***

7. Wear, maintenance & inspections

Wear

Your Klever E-bike consists of many components, which are all subject to normal wear due to their function. Therefore, all following components should be regularly checked and if necessary, replaced immediately:

1. **Disc brake rotors & pads** are put under stress during each braking operation and wear as a consequence. Therefore, they must be periodically inspected and if necessary, be replaced immediately.
2. **Tyres & inner tubes** are subject to function-related wear and should be checked regularly. The air pressure and the depth of the tread profile must be checked regularly too. The air pressure should always be at the manufacturer's recommended operating pressure, which is printed on the tyre sidewall. In case the tread profile of the tyre is no longer deep enough or the tyre has cracked sidewalls, it should be replaced.
3. **Rims & spokes** are stressed while braking or riding over obstacles. Regularly check the concentricity of the wheel and the spoke tension. If the wheel has radial or axial play, this should be readjusted. In the event of spoke breakage, the broken spoke should be immediately replaced and the wheel should be re-trued.
4. **Chain, sprockets, chain wheels & derailleur pulley wheels** wear out normally. Regular cleaning and lubrication of these components will extend their service life substantially. They should, however, in case they are worn be replaced.
5. **Belt, rear sprocket, front belt wheel** are very robust and wear less than the components of derailleur drive trains. Unlike derailleur drive trains, belt drive trains should not be lubricated. Just clean these components every now and then with some water. During the annual inspection your dealer should check the tension of the belt and the wear of the individual components.
6. **Shifting cables & brake hoses** must be maintained regularly and replaced if necessary. Especially in case your E-bike is often parked outdoor and exposed to the weather.

7. **Hydraulic oils & lubricants** change over time and lose their effectiveness. Therefore, all lubrication points are to be regularly cleaned and re-greased in order to minimise the wear.

Maintenance

Regular maintenance and care guarantee a longer lifespan of your E-bike. You should regularly carry out simple cleaning and care yourself. And let your dealer do the necessary inspections. Never clean the vehicle with a high-pressure cleaner or a steam cleaner, as water may enter bearings, motor and electronic contacts. Water could damage these parts due to corrosion and short circuits. Clean your bike with a damp cloth and a mild detergent. Make sure that no electrical contact gets wet. The contacts can be maintained and conserved from time to time with a little care oil. Contact spray is too aggressive and doesn't preserve. All parts liable to corrosion should be maintained and preserved appropriately.



Caution! ! During cleaning and lubrication, avoid contact with oil and fat on the brake pads and disc brake rotors. The stopping power might deteriorate and could represent a serious risk.



Please note! ! Always ensure that the tyres are inflated within the manufacturer's recommended operating pressure, which can be found on the tyre's sidewall. Never go over or under the recommended range of tyre pressure.

The entire electrical system of your E-bike, such as the motor, the sensors, the wiring harness and the battery are maintenance-free. In case you meet unexpected problems with the system, contact our technical hotline (see chapter 17. Imprint) or consult an authorised Klever dealer.



Caution! Do not open the motor, the display or the battery. It is dangerous and this will immediately void the warranty.

Inspections

In order to keep your E-bike always roadworthy and updated to the latest technical status, it should be inspected regularly. We recommend after 500 – 1,000 km. or within 1 year after purchase to carry out the first inspection. Any further inspections should be carried out after every 2 to 3,000 km. or at least once a year.



Inspections should be executed by authorised Klever dealers.



Caution! ! In case inspections are not carried out or executed unprofessionally, this may significantly impair the functions of your E-bike or may even lead to accidents.



Please note! Since this Klever 45 km/h E-bike is Type-approved vehicle, make sure to only use original Klever Type-approved spare parts for replacement. The same applies to upgrades (e.g., winter tyres or suspension seat post). Only select components from the Klever Type-approval list. In case you are not sure whether to use Type-approved spare parts, always contact your official Klever dealer or otherwise call our technical hotline.

8. Storage & transport of your Klever E-bike

Storage

Your E-bike should always be stored in a dry, covered place in order to minimise the effects of weather and avoid direct sunlight. In case you do not ride your speed pedelec in wintertime, you should consider following:

- Store your E-bike well cleaned and lubricated in a dry place and cover it with a tarp. Winter storage in a garage is not ideal. Salt from salt spraying may enter your garage with your car. And this could cause corrosion of your E-bike.
- Protect the electrical contacts with a little care oil.
- The battery should be stored separately, ideally at a temperature of 10 to 15 °C in a dry place. Fully charge the battery before the first ride in the spring.
- And after storage for more than two months, it is advised to recharge the battery (see section 5.5.1 Charging of the battery).

Transport

You can transport your E-bike by car or train. For transport by car, we recommend to use a tow bar bike rack, which is specifically designed for the transport of E-bikes and for heavier loads. Ask your Klever dealer for more specific recommendations.

Do not transport your E-bike on a roof rack. The heavier weight and the special frame tubes will make stable fixing of your E-bike on a roof rack impossible. In addition, the weight of the vehicle is usually higher than the maximum weight limit of the roof rack.

Prior to transporting your vehicle with a tow bar rack, you should remove the battery pack as well as other non-fixed accessories such as air pump and panniers. Additional protection should be given to electrical contacts of the battery connector on the frame. This can be done with a plastic bag to protect those parts from moisture and rain. Air flow may cause the moisture to enter into the electric system.

In case your car is big enough, then it is best to transport your E-bike inside the car.

Transportation of your E-bike by air will be nearly impossible. Unless you want to transport your E-bike without battery. For airlines these batteries are classified as IATA Dangerous Goods and consequently will not be transported. To be sure, ask your airline under which conditions the transport of the battery may be allowed. However, this could be quite expensive. For more information on the transport of the battery, please check section 5.5.4. Transport of the battery.

9. FAQ's

How far can I travel with one battery charge?

This depends on the outside temperature, the topography of the terrain, the technical condition and total weight of the bicycle. Tyres with low air pressure or high weight or riding in hilly terrain, reduce the range (see section 5.5.2. Battery range).

Battery	Range
850 Wh	75 – 165 km.
1,200 Wh	100 – 200 km.

This is a guesstimated indication of the range you may expect under similar conditions:

- Outside temperature 12 – 30°C.
- Flat and slightly hilly terrain.
- Total system weight between 95 – 105 kg. (cyclist's weight 70 – 80).
- Little to no wind.

Must the battery be empty before I can charge it?

No, you can charge the battery at any time, even if it is only partially discharged.

How can I protect my Klever E-bike from theft?

Your E-bike comes with starter and motor immobiliser. This electronic lock is combined with an acoustic alarm system, to be activated with the E-KEY and Lock-button on the display. The battery can only be removed from the frame by unlocking the battery lock with the key. We recommend to also use a high quality, robust chain lock in order to lock your E-bike to the solid fixtures.

Can I ride my E-bike in wintertime?

In general, there is no problem whatsoever to ride your E-bike at low temperatures. Store your battery in a warm place before you start your journey. Keep In mind that in wintertime at low outdoor temperatures the range may decrease by 30%.

Can I transport my E-bike via air?

Because E-bike battery packs are being classified as IATA Dangerous Goods for transport via air, many airlines refuse to transport the battery. In individual cases you may want to ask your airline, under which conditions and costs transport may be possible.

Do I need a liability insurance and do I need to wear a helmet?

Yes, your Klever 45 km/h E-bike is a class L1e-B Type-approval vehicle with a maximum speed of 45 km/h. Therefore, you do need a dedicated liability insurance. You do need to wear a helmet approved for speed pedelecs. Your vehicle must have a license plate and you do need to own a driver license. Your Klever dealer can advise in finding the proper insurance and speed pedelec helmet.

What to do with a defective battery pack?

Defective batteries do not belong in household waste and must be disposed of properly. It is best to take it to an authorised Klever dealer.

How many times can I charge my battery?

We guarantee that the battery after 700 full charge cycles or two years after the date of purchase still has 60% of its original capacity. Of course, you can charge the battery more often or use longer than two years. Because of the natural aging process over time the battery loses more and more capacity though.

Does the warranty void, in case I do not stick to the recommended time intervals for inspections?

No, the warranty does not void. We recommend, however, for the vehicle's service life and for your own safety to carry out all recommended inspections.

Can I charge the battery with another charger?

No, the battery may only be charged with the dedicated, supplied Klever charger.

Can I use generic bicycle spare parts for my E-bike?

No, you can only use Type-approved spare parts for replacement. The same applies to upgrades (e.g., winter tyres or suspension seat post). Only select components from the Klever Type-approval list. In case you are not sure whether to use Type-approved spare parts, always contact your official Klever dealer or otherwise call our technical hotline.

10. Y Muse 45 Type-approval & EC Certificate of Conformity (CoC)

The Manufacturer:

Klever Mobility Inc.
No. 8, Ln.76, Sec.3, Zhongyang Rd., Tucheng Dist., New Taipei City 236 Taiwan

Represented in the Benelux by:

Klever Mobility NL by
Regulierenring 15
3981 LA Bunnik
Tel.: +31 30 210 2905
infoNL@klever-mobility.com
www.klever-mobility.nl

Hereby confirms for following products:

Y Muse 45, model year 2022

Conformity with the applicable European Regulation EC 168/2013 for vehicles classified in the classified in category L1e-B. Your Y Muse 45 comes with a Klever Certificate of Conformity (CoC) with which your vehicle can be registered. Klever will register your Y Muse 45 at your local road safety authority (e.g., KBA in Germany, DIV in Belgium, RDW in the Netherlands, DREAL in France or DVSA in the United Kingdom). After registration, your Klever dealer will receive the license plate and the code for the name of the registrant. Your dealer will then assemble the license plate and ascribe the vehicle to your name and to your liability insurance. With the code for the name of the registrant you can arrange for the assignment of this Y Muse 45 to your name and insure yourself as well.

Please note! With a maximum speed of 45 km/h. this Y Muse 45 is NOT a regular electric bicycle, but it is a so-called speed pedelec. According to the Type-approval Regulation it is an L1e-B vehicle and therefore it has to comply with different road traffic regulations and it has a different position and different place within the traffic. Make sure you understand the local road traffic and safety regulations in your own country. Keep in mind that there are local differences between Belgium, France, Germany, the Netherlands and the UK. Also, you will need a license plate (as proof of your local registration & insurance), a liability insurance and a driving license. Moreover, you will need to wear an approved speed pedelec helmet as well.

Furthermore, a speed pedelec must be equipped with a well audible horn, a wing mirror on the LH-side of your handlebar (UK RH-side), a lighting system with quality marks for the head light and the tail light with integrated brake light, reflectors and with 2 sets of brakes independently actuating the front and rear wheel.

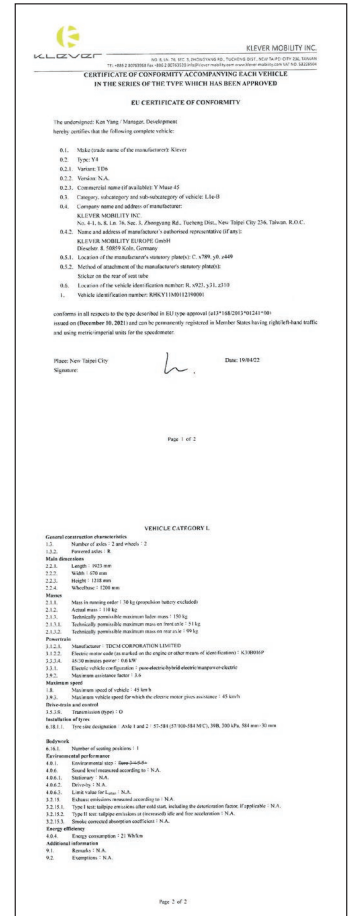


Image 10.1

11. Intended use

Your Klever E-bike is a Type-approved 45 km/h E-bike designed according to structural requirements for a particular purpose. Thus, the usage is limited to these specific areas. Your speed pedelec is designed based on the construction and equipment for use on public roads, normal paved roads. The vehicle is equipped in accordance with the Road Traffic Regulations for Type-approved vehicles. And therefore, it is allowed to ride it on public roads. In order to keep your E-bike always running and roadworthy, regular reviews and inspections are required or necessary repairs should be made immediately. Klever Mobility is not liable in case your 45 km/h E-bike is being used against its originally intended purpose nor for damages resulting from a breach of important instructions in this manual. This is particularly true in case of damage caused by overloading or off-road riding or by the improper repair of defects. The same applies to non-compliance with the maintenance, operation and maintenance requirements described in this manual.

12. Product liability & warranty

According to European warranty laws you are entitled to a period of 2 years for product liability, duty of care and warranty from the side of the manufacturer. This applies from the date of purchase or delivery of your E-bike. The proof is your proof of purchase, which should be stored carefully. You should register your bike on our website: www.klever-mobility.com. This product liability for material defects applies to all components of the entire E-bike.

Warranty claims are granted:

- In case the defect was present prior to the purchase of the vehicle.
- In case of a material, manufacturing or information defect.
- In case of function-related wear which was not caused by regular tear and wear (see chapter 7. Wear).

Warranty claims are rendered void:

- In case of damages caused by accidents or force majeure.
- In case of damages caused by misuse or improper use.
- In case claims relate to parts which are subject to functional wear (see chapter 7. Wear), except material or product defects.
- In case of damages caused by faulty and inadequate care and maintenance.
- In case of damages caused by faulty and inadequate repairs.
- In case of damage caused by components which were out of specification and assembled after purchase of the bike.
- In case of consequential damage caused by not immediately resolved, earlier identified defects.

In addition, we offer a **comprehensive warranty** that goes beyond the liability for material defects:

- **Two-year warranty** on all bike components.
- **Three-year warranty** on all components of the electrical system: motor, control unit, display and wiring harness.
- **Two-year warranty** on the battery (also refer to the points below).
- **Five-year warranty** against frame breakage.

This warranty applies only to the first owner of this E-bike on presentation of proof of purchase (sales receipt or bill showing

the purchase date). This warranty covers exclusively material and workmanship errors. In case of justified complaints, the article will be replaced or repaired. Further claims such as: replacement of property damage, downtime, cost of borrowing and renting, travel and transportation costs or loss of profits, are excluded. This warranty does not cover damages caused by misuse, by wear and tear, by accidental damage, vandalism and by improper assembly or repair.

1. Warranty repairs will be made exclusively by Klever Mobility or an authorised Klever dealer.
2. Costs from a previously executed repair of an unauthorised dealer, will not be reimbursed.
3. Parts replacement or repairs during the warranty period will not result in an extension or a new beginning of the warranty.
4. Each battery is subject to a natural aging process. Regarding the battery Klever Mobility guarantees after two years, or alternatively, after 700 charging cycles a remaining capacity of about 60% of the original capacity.
5. In case you officially register the battery of your E-bike on our website (www.klever-mobility.com) Klever extends the warranty term of your battery from 2 to 3 years. Within this term we guarantee that your battery still has 50% of its original capacity after 500 charging cycles.
6. The two-year warranty begins on the date of purchase.
7. A warranty claim must be notified immediately.

13. Disposal & transportation

Disposal

All electronic components, such as motor, display, battery and charger are to be returned to an environmentally friendly recycling. These parts should not be considered household waste or abandoned into the environment.



According to the European Directive 2002/96/EC, defective or no longer usable electrical equipment must be collected separately and returned to an environmentally friendly recycling. The same goes for batteries according to the European Directive 2006/66/EC. Please return broken or defective batteries to an authorised Klever retailer.

Transportation

Only the battery is considered to be hazardous and subject to the IATA Dangerous Goods Regulation requirements during transport or shipping by third parties (agents, air transportation or mail). Refer to section 5.5.4. Transport of the battery. The transport of all other parts of your E-bike is not particularly limited.

14. Technical data Klever Y Muse 45

Colour LCD Display
Illuminated colour LCD-display, with starter & motor immobiliser and acoustic alarm
5 levels of electric motor support: N – ECO – TOUR – MAX - TURBO
Bicycle computer: current speed, range, trip, km-day, time, Kcal, odo, cadence
TURBO button for: walk-assist/ acceleration at standstill without pedalling / while pedalling
Battery state of charge SOC with 5 bars (each bar representing 20% battery capacity)
Ambient light sensor
Actuation of buttons confirmed with acoustic beep

Rechargeable 850 Wh battery
Lithium-Ion
44.4 V/ 19.1 Ah/ 850 Watthour/ 5.5 kg.
State of charge indicated by LED: < 35% red / 35 – 75% yellow / > 75% green
Allowable discharge temperature: -20°C – +50°C
Allowable storage temperature (12 months): -20°C – +25°C; (optimal +5°C – +20°C)
Allowable charging temperature: -5°C – +45°C (optimal +5°C – +20°C)
Lockable and detachable
Charging time: 850 Wh with 6A charger 3.5 hours
Place of charging: on or off Y Muse 45
Charging cycles: 700 (one complete charging is cycle is 0 – 100% capacity)
Range: 850 Wh 75 – 165 km., under average conditions 100 km.
Lifetime: after 2 years of 700 complete cycles at least 60% of the original capacity still remains.

600 Watt Motor
Brushless DC motor in the rear hub
Control through torque sensor in the frame dropout and speed sensor in the bottom bracket
Output power – torque: 600 Watt – 49 Nm.
Operating voltage: 44.4 V
Electric motor support: until maximum 45 km/h.
Weight: 5.6 kg. – 600 Watt

Standard 6A charger
Input voltage: 200 – 240 V; 47 – 63 Hz
Output voltage: 48 V
Maximum charge current: 6A
Output power: 288 Watt
Size: 225 x 100 x 40 mm. – 6A
Weight: 1,3 kg.

Recommended tightening torque for bicycle components

Head set	Clamp bolt steerer tube	1 x M5	Allen key 4 mm.	5.5 Nm.
Stem	Clamp bolt handlebar	2 x M5	Allen key 4 mm.	5.5 Nm.
	Clamp bolt steerer tube	2 x M6	Allen key 6 mm.	9.5 Nm.
	Clamp bolt adjusting stem angle	1 x M8	Allen key 6 mm.	25 Nm
Brake lever	Clamp bolt handlebar	1 x M5	Allen key 4 mm.	5.5 Nm.
	Reach brake lever	1 x M6	Allen key 3 mm.	-
Grip	Clamp bolt handlebar	1 x M5	Allen key 3 mm.	5.5 Nm.
Display	Clamp bolt handlebar	1 x M5	Allen key 4 mm.	3.0 Nm.
Actuator horn	Clamp bolt handlebar	1 x M4	Allen key 3 mm.	3.0 Nm
Wing mirror	Clamp bolt handlebar	1 x M5	Allen key 4 mm.	5.5 Nm,
Shifter	Clamp bolt handlebar	1 x M5	Allen key 4 mm.	5.5 Nm.
Head light	Mounting bolt	1 x M5	Allen key 4 mm. + 8 mm. open wrench	5.5 Nm.
Seat post	Mounting bolt saddle	2 x M6	Allen key 5mm.	9.5Nm.
Seat post clamp	Clamp bolt seat post	1 x M6	Allen key 6 mm.	9.5Nm.
Front wheel	Thru-axle	1 x M15	QR-lever.	20 Nm.
Brake calliper	Mounting bolt	2 x M6	Torx 25	9.5 Nm.
Disc rotor	Mounting bolt	6 x M5	Torx 25	5.5 Nm.
Fender stay	Clamp bolt fork leg	1 x M4	Allen key 2,5 mm.	3.0 Nm.
Front fender	Mounting bolt front fork	1 x M4	Allen key 3 mm. + 8 mm. open wrench	3.0 Nm.
Ring lock	Mounting bolt seat stay	4 x M5	Allen key 3 mm.	5.5 Nm.
Luggage rack	Mounting bolt	4 x M5	Allen key 4 mm.	5.5 Nm.
Rear wheel	Hex nut	12 mm. as	19 mm. box key & open wrench	40 Nm.
Kickstand	Mounting bolt	2 x M6	Allen key 4 mm.	9.5 Nm.
RH pedal	RH threading	9/16" x 20 TPI	15 mm. open wrench	40 Nm.
LH pedal	LH threading	9/16" x 20 TPI	15 mm. open wrench	40 Nm.
Crank set	Mounting bolt	1 x M15	Allen key 8 mm.	40 Nm.
	Mounting bolt cover		Allen key 10 mm.	5.5 Nm.
Derailleur	Mounting bolt	1 x M10	Allen key 5 mm.	9.5 Nm.
	Mounting bolt cable	1 x M5	Allen key 4 mm.	5.5 Nm.
Motor cable	Mounting bolt	1 x M5	Allen key 4 mm.	5.5 Nm.

Recommended tightening torque for standardised metrical hexagon headed bolts (quality grade 8.8)

Bolt	M3	M4	M5	M6	M8	M10
Nm. torque	1.3	3.0	6.0	10.0	25	50

These torque indications always refer to the upper limit of the bolt's resilience. Use a proper torque wrench when tightening or adjusting a bolt. This will prevent the overcharging and failure of the bolt. Always adjust the torque key to a little more than 75% of the value stated by the manufacturer and tighten the bolt. Check the firm fit. In case the clamping connection is not strong enough, increase the value gradually in little steps. If necessary, adjust the maximum value (never exceed it) and loosen the bolt by half a revolution before finally tightening it.

Tools (image 14.1)

1. Allen keys
2. Combination wrenches
3. Sockets and bits
4. Torque wrench
5. Torx key
6. Tyre lever



Image 14.1

The gross maximum vehicle weight of the Y Muse 45 should not be more than

150 kg. = cyclist + vehicle + luggage

The payload of the Y Muse 45 = 120 kg.

Tyres

Size: 57 – 584 mm. (27.5" x 2.35")

Recommended tyre pressure: 2.0 – 4.0 bar (30 – 55 Psi)

Wheel circumference approximately 2,195 mm., the exact circumference depends on the tyre pressure and the gross weight of cyclist + vehicle.

15. Klever E-bike Passport

Fill out all data immediately after purchase of your E-bike in order to present the pass in the case of warranty claims, together with proof of purchase. In case your vehicle ever gets stolen, these data will facilitate the work of the police as well.

Name

Street

Postal code / residence

Phone

E-mail

Klever model

Frame size

Frame colour

Frame serial number

Key serial number

Battery serial number

Charger serial number

Date of purchase

Signature

16. Klever inspection plan

1. Inspection & maintenance

Date:

After 500 – 1,000 km or no later than 1 year after purchase.

Date

Stamp / signature

Repairs

Components replaced

2. Inspection & maintenance

Date:

After 3,000 – 4,000 km or no later than 2 years after purchase.

Date

Stamp / signature

Repairs

Components replaced

3. Inspection & maintenance

Date:

After 5,000 – 7,000 km or no later than 3 years after purchase.

Date

Stamp / signature

Repairs

Components replaced

4. Inspection & maintenance

Date:

After 7,000 – 9,000 km or no later than 4 years after purchase.

Date

Stamp / signature

Repairs

Components replaced

17. Imprint

Editor, photography, text, graphic design and text:

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