45km/h

Model

Colour display 2.8

Vers. 2.8

KLEVEr

Content:

Regen power

Power ON/OFF

High/low beam lights

Warning icon

Support level name

Support level detail

E-Key indicator

LIGHT

Power consumption

(∧)

Current speed

Info (•)

D-Info

(∨)

General warnings

Battery indicator

Bluetooth icon

Turbo (⚡)　　**E-KEY port**

* Visit your dealer if the warning signal continues to appear on the display

Image 1

ECO
32.4
cadence　59
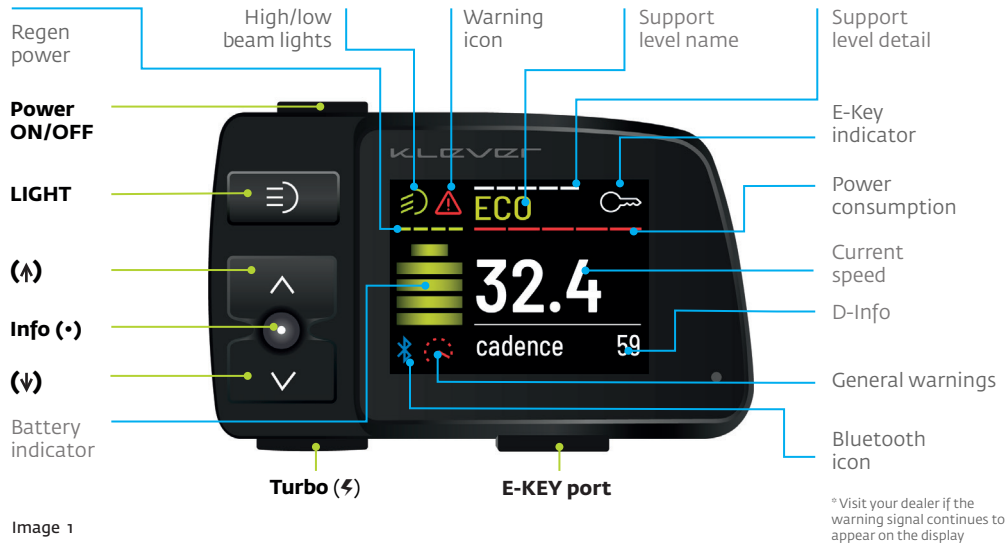
1. Quick-start

This Display (with user interface) is your gate to Klever's electric propulsion system, BIACTRON (Image 1). With the display you start and control the electric drive system.

You can start the system with or without inserting the E-KEY.

When the E-KEY pairing function is enabled, the bicycle has its own individually programmed display. In this case your Klever bike can only operate an E-KEY with the same ID. It is not possible to activate your Klever bike with an E-KEY of another bike. Each Klever bike will be delivered with two identical E-KEYs.

Every press of a button will be confirmed with a short acoustic signal.

As soon as you insert the E-KEY into the display, 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 power button (Image 1), the system runs a system check for 3 seconds - now the system is activated.

2. When you start pedalling the system will wake up automatically. After 3 seconds of system check, the electric drive will start to support.

Button	Location	Function
Power	Upper left edge	On/ Off
Info (•)	In the middle between the two arrows (button with a dot on it)	Switch between time, trip, km-day, odo, soc, kcal and cadence
Up arrow (∧)	Middle left	Increase support level
Down arrow (∨)	Lower left	Reduce support level
Lightning sign	Lower left edge	Starting and pushing aid (at rest); strongest support (while pedalling)

2. Function of each button

Image 2

Start/ stop button (Image 2)

By pressing the POWER button 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.

By pressing 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 3

Up arrow (↟) button (Image 3)

By pressing the up arrow (↟) button you can 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 level MAX.

Image 4

Down arrow (↡) button (Image 4)

By pressing the down arrow (↡) button you can 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 level ECO.

Image 5

INFO Button (•) (Image 5)

By pressing the INFO (•) button, subsequently all rider's information can be displayed on the LCD-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 data may vary depending on bike model and software version

Press "INFO (•) button" to change D-INFO.

Image 6

Time (hh:mm) (Image 7)

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

Image 7

Trip (Image 8)

Kilometres ridden since the last reset, in this case 0.9 km. If 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. Then select 'yes', then confirm by pressing the ENTER (•) button. See page 13.

Image 8

Image 9

Km-day (Image 9)

Kilometres ridden today, starting at 00:00, in this case 3.5 km.

The daily mileage will be set to zero at midnight 00:00 every day.

Image 10

Odo (Image 10)

Accumulated kilometres during the lifecycle of your Klever, in this case 459 km. When the odo reaches 99999 km. it will be reset to 0.

Image 11

SOC (State of Charge) (Image 11)

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

Image 12

Kcal (Image 12)

The number of kilocalories burnt by the cyclist, in this case 12.0 kcal.

For proper kcal calculation please set the rider's weight. Press the INFO (•) button long and select "Rider" to input the weight number. Kcal can be reset by selecting RESET in the menu. See page 15.

Image 13

Cadence (Image 13)

The cadence is shown in rotations per minute (RPM). In other words, it shows you how many full rounds your pedals make per minute.

TURBO Button (⚡) (Image 14)

This button can be used as a walk assist to help you push the bike. The bike will be supported to a maximun speed of 6 km/h. When you release the button, the motor support instantly stops.

(!) *Please note: using the turbo mode as a pushing aid to roll your Klever bike out of the garage, or roll it up a ramp, please make sure that you have selected the ECO program. When using the pushing aid in the TOUR or MAX mode, you may have difficulty in keeping pace with the bike.*

Image 14

Image 15

3. Display content
Battery status (image 15)

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 available. Now the battery should be recharged.

When the battery icon is half of a bar only, there is less than 10% battery capacity remaining. Recharging of the battery is now urgently needed.

Display	Charging level
5 bars light up	100%
4 bars light up	80%
3 bars light up	60%
2 bars light up	40%
1 bar lights up	20%
Half of bar lights up	Less than 10%

Additionally, you can check the charging status too with the LED on the front side of the battery.

To save battery charge, 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.

Image 16

Support level (Image 16)

The bars in the upper part of the screen show the selected level of motor support.
In the right-hand column on page 11 we have listed recommended support settings, for each situation the optimal level of support. Of course, you can select the level of support to your own liking, e.g., riding across flat countryside with the highest (MAX) level of support.

Support level	Support	Driving situation (recommended)
N	No support, system is activated	Downhill
ECO	Low support	Minor support
TOUR	Medium support	Gentle slopes and headwind
MAX	High support	Big slopes and strong headwind
⚡ (TURBO while pedalling)	Strongest support	Steep ramps/ violent gusts

Speedometer (image 17)

The main display will show the current speed.

Image 17

Regeneration Power (image 18)

This will show the regeneration power you get from the system in case you have selected the Recup mode in the menu:

1. While coasting: On (levels -1,-2 ,-3, auto) or

2. While braking: On (levels -1, -2, -3, auto)

*(braking regeneration is only available on 45 km/h Speed models). The more bars you see, the more regeneration you get from the system.

Image 18

Power consumption (Image 19)

This shows the actual power consumption. The longer or more bars, the more your battery is being drained. Of course, higher consumption will decrease your range more rapidly.
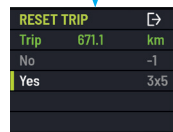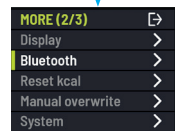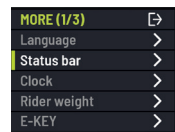

Image 19

4. Settings

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

⏰ **3"** →

Use the **(∧)** and **(∨)** keys to navigate menus, then select with **Info (•)**

BIKE SETTINGS ⏏
ASSIST/REGEN ›
RESET TRIP ›
SUMMARY ›
MORE ›

MORE (1/3)	⏏
Language	›
Status bar	›
Clock	›
Rider weight	›
E-KEY	›

MORE (2/3)	⏏
Display	›
Bluetooth	›
Reset kcal	›
Manual overwrite	›
System	›

MORE (3/3)	⏏
Factory default	Set

SUMMARY (1/2)		⏏
Trip	671.1	km
KM-Day:	0.0	km
Kcal	5488.8	km
ODO:	5299	km
SOC:	36	%

SUMMARY (2/2)		⏏
SYS	ok	km
Battery:	29	km
Motor:	28	km
Driver:	32	km
Display:	39	%

RESET TRIP		⏏
Trip	671.1	km
No		-1
Yes		3x5

ASSIST/REGEN	
Brake recuperation	ⓘ
Coasting brake	ⓘ
Assist type	ⓘ5
Setting	
(MAX:3 TOUR:3 ECO:3)	

Image 20

Setting > ASSIST / REGEN

Regen means the regeneration of energy back into the battery pack. Two recup functions: coasting regeneration and braking regeneration. The regeneration levels can be set from -1 to -3 or you can select the automatic mode; -1 = minimal regen and -3 = maximum regen. The factory default setting is off for both regen functions. Braking regeneration is only available on Speed models.

You can adjust the support levels through two options:

3x5: Five levels for each support mode (MAX, TOUR, ECO) to meet different preferences. The factory defaults for each support mode is on three.
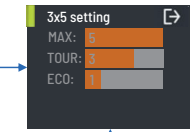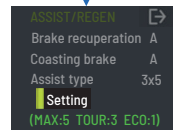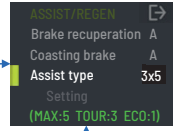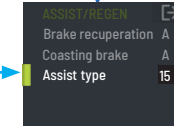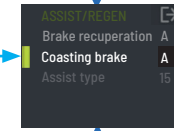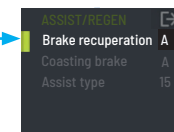
15: The support levels run up gradually from 1 to 15.

Setting > RESET TRIP

The trip distance can be reset to zero.

Setting > SUMMARY

The summary is divided over two pages. You will find an overview of all the system information.

ASSIST/REGEN	⏏
Brake recuperation	A
Coasting brake	A
Assist type	15

ASSIST/REGEN	⏏
Brake recuperation	A
Coasting brake	A
Assist type	15

ASSIST/REGEN	⏏
Brake recuperation	A
Coasting brake	A
Assist type	15

ASSIST/REGEN	⏏
Brake recuperation	A
Coasting brake	A
Assist type	3x5
Setting	
(MAX:5 TOUR:3 ECO:1)	

ASSIST/REGEN	⏏
Brake recuperation	A
Coasting brake	A
Assist type	3x5
Setting	
(MAX:5 TOUR:3 ECO:1)	

3x5 setting	⏏	
MAX:	5	1~5
TOUR:	3	1~5
ECO:	1	1~5

3x5 setting	⏏
MAX:	5
TOUR:	3
ECO:	1

3x5 setting	⏏
MAX:	5
TOUR:	3
ECO:	1

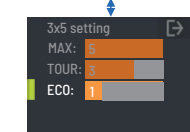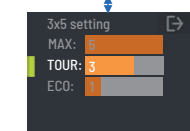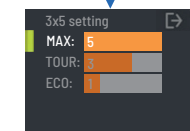| 3x5 setting	⏏
MAX:	5
TOUR:	3
ECO:	1

Setting > MORE
With the EXTRA menu you have options to change the performance of the support system, change the major information you want to see while riding, change the unit of distance / rider weight etc.

Setting MORE > Language
You can change the language to your preference. The display will be shown in the language of your choice.

Setting MORE > Status bar
Seven types of information can be shown on the major display by default. With a short press of the INFO (•) (see 2. 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 here or can be synchronised with your smartphone.

Setting MORE > Rider weight
Input the rider's weight for the proper calculation of the calorie output.

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

1. Pair (always)
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, then the alarm will set 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 the E-KEY.

2. Optional
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:
a. Once you select "no", you can continue to cycle. The next time when you turn on the system, you don't need the E-KEY to activate the system.
b. Once you select "yes", the system will be turned off and the alarm and the motor lock will be activated. In case you start to ride your bike now, the alarm will set off and the motor will be locked. In case you turn on the system with the Power button, then the display will ask you to insert the E-KEY again.

SETTING MORE > Display > Sound
You can turn the system sound ON or OFF

Setting MORE > Display > Brightness
The brightness of the display can be adjusted.

Setting MORE > Display > Light
You can decide to keep the head and tail light on or off when the system is on. Due to the EU regulations for Speed Pedelecs (45km/h), the head and tail light on Speed models will always be turned on automatically.

Setting MORE > Bluetooth
You can use your smartphone as a dashboard to show the information from the bike system by Bluetooth connection.

Setting MORE > Reset Kcal
The Kcal can be reset to zero.

Settinge MORE > Manual overwrite
You can adjust certain factory defaults as the the chosen battery model, an alternative button for high beam and the support levels. You can also activate 'Agility'. Whenever some parts of the electric system do not work well, contact your Klever dealer.

Setting MORE > System
You will find the system information of your bikes. This information is particularly important for your dealer to diagnose possible problems.

Setting MORE > Factory default
You can set your bike back to factory default.

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June 2021 edition.

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