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INTRODUCTION

Many thanks for choosing a Gazelle with the Panasonic system. This innovative electric drive system provides you with assistance while you cycle. This will make your day-to-day rides a great deal more enjoyable, even with strong headwinds. You can choose yourself how much of a boost you would like.

This manual will help you discover all the advantageous features of your bike and how to use the bike correctly.

We strongly advise you to read through this manual attentively. This manual constitutes a supplement to the general user manual. Keep this manual so you can refer to it in future for information.

MANUAL LAYOUT

In the enclosed "Quick start", you will find brief instructions if you want to get going at once. Even if you want to start cycling at once, you need to read this chapter through in every case for your own safety. The chapters that follow describe the major components of the bike in comprehensive detail.

In *chapter 11 - "Technical specifications"*, you will find technical data for your bike. This user manual only covers specific information about your Gazelle with the Panasonic system.

GENERAL USER MANUAL

You can download the general user manual from the **www.gazellebikes.com/service/ manuals** website.

1. SAFETY

In this manual you will find the following symbols that draw attention to hazards or important information.



WARNING

about potential injury, increased fall or other injury risk.



REFERENCE

to potential damage to property or the environment.



IMPORTANT SUPPLEMENTARY INFORMATION

or special information about the use of the bike.

1.1 GENERAL

You have a choice of a model with a rotation sensor or a pedal force sensor. The rotation sensor will always assist you when you pedal, regardless of the force you apply. The pedal force sensor ensures a highly natural cycling experience by measuring pedal force.

In the system with a rotation sensor the strength of the assistance varies according to the level of assistance selected. In the system with a pedal force sensor the strength of the assistance varies according to the level of assistance selected and the force you apply to the pedals.

You will have assistance only if your speed does not exceed 25 km/h. Assistance will cut out if your speed rises above 25 km/h.

The walk assist function provides assistance when wheeling the bike at speeds up to 6 km/h.

You can use your e-bike as an unassisted bike in the following cases:

- If the e-bike is switched off
- If the assistance level is set to [NO ASSIST]
- If the battery is flat

Use the gears as you would on a conventional bike.

Selecting the appropriate gear enables you to attain higher speeds and travel greater distances with the same pedal force.

1.2 LEGAL REQUIREMENTS

Like all cycles, the bike must comply with the requirements of the national highway code. The legal requirements set out below are applicable to the bike:

- The motor may only be used to assist pedalling, i.e. it must only "help" when the bike user applies effort to the pedals him or herself. The walk assist function is an exception to this is, it helps you when wheeling the bike.
- The average motor power rating must not exceed 250 W. As speed increases motor power must continue to drop progressively.

The motor must cut out at (approximately) 25 km/h.

See also EC Declaration of conformity on page 34.

1.2.1 Significance for the user

There is no obligation to wear a helmet. However for your own safety we advise you not to cycle without a helmet.

A special driving licence is not required for an e-bike. Insurance is not required for an e-bike.

There is no age restriction on using an e-bike.

Cycling on cycle tracks is regulated in the same way as for conventional bikes.

These regulations apply to your bike when using it within the European Union. Other provisions may apply in countries outside the EU and in isolated cases in Europe as well. Before using your bike abroad be sure to make enquiries about which laws apply.

1.2.2 Safety and warranty

Read the Gazelle Safety and Warranty manual for all safety instructions and warranty conditions. You will be supplied with this manual included as standard with your bike and you can also access it digitally on our website (www.gazellebikes.com/service/manuals).

1.2.3 Waste disposal

For EU countries only: Under European Directive 2012/19/EU electrical equipment which is no longer usable and under Euro-

pean Directive 2006/66/EC defective or spent accumulators and batteries must be collected separately and recycled in an environmentally sound manner. Hand in batteries and displays which are no longer usable to your Gazelle specialist.

1.3 MAINTENANCE AND REPAIR

When carrying out settings, maintenance or cleaning jobs be aware that cables must not be pinched and/or kinked nor must they be damaged by sharp edges. Have all fitting and setting jobs carried out by your Gazelle specialist.

Observe operating and storage temperatures for e-bike components, see also *chapter 11 "Technical specifications"*. Protect the motor, display and battery against extreme temperatures (e.g. intense sunlight without adequate ventilation). These components (especially the battery) can be damaged by extreme temperatures.

1.4 TRANSPORTING THE BIKE

1.4.1 Transporting the bike by car

If you intend to transport your bike using a cycle carrier, you will also need to ensure that the carrier is suitable for the added weight of the bike too. In order to spare the carrier and protect the battery against the elements, you are better transporting the battery in the car.

1.4.2 Transporting the bike by train

You can take your bike in trains displaying a bike sign. If you have any questions you can contact the carrier.

1.4.3 Transporting the bike by air

Your bike will generally be subject to the cycle provisions of the airline concerned. Batteries are covered by the law on hazardous goods transport. There are specific packaging and marking requirements to be observed for transport by commercial users or transport by third parties (e.g. air freight or a haulage company). Contact the company concerned for advice on this aspect.

2. BIKE CONFIGURATION



3.8 FAULT CAUSES AND REMEDIES

| | Description | Remedy |
|--|---|--|
| d (vsna) | Charging fault The battery printed circuit board (PCB) is showing a fault. | The PCB needs to be replaced. Take the e-bike to your Gazelle specialist. |
| Flashing while [E] moves to [F] | | |
| The state of the s | Charging fault Power supply fault Cell fault Possible causes for these faults include a battery PCB fault, a cell fault or a motor or charger fault. | Take the e-bike to your Gazelle specialist. |
| Ssral | Faulty printed circuit board Temperature fault The battery is hot or the PCB is showing a fault. | If the lights continue to flash after having waited a while, then components need to be replaced. Take the e-bike to your Gazelle specialist. |
| The state of the s | Cell fault Verification error Possible causes for this are a battery cell fault, a verification error, or the battery has overheated while charging. | Check contacts for dirt. If the lights keep on flashing after you have removed any dirt from the contacts and have left the battery to rest for a while, you will need to take your e-bike to your Gazelle specialist. |

4. CENTRE DISPLAY AND SIDE DISPLAY

A Gazelle featuring the Panasonic system is fitted with an LCD side display (positioned on the left-hand side of the handlebar) or an LCD centre display (positioned in the middle of the handlebar). The LCD centre display consists of a display and a control unit.

The LCD centre display and the LCD side display are powered by the battery if a sufficiently charged battery is fitted on the e-bike and the system is switched on.

4.1 LCD CENTRE DISPLAY

The settings and functions available with the LCD Centre display are explained in section 4.3 "Settings and functions".



LCD centre display

- 5. Battery charge level display
- 6. USB connection symbol
- 7. Assist power indication
- 8. Text indication
- 9. Time indication
- 10. Night mode indication
- 11. Speed indication
- 12. Value indication



Detail LCD-centerdisplay

- 14. On/off button
- 14. Micro USB port
- 16. Rubber sealing flap

4.1.1 Fitting the LCD centre display

- To fit the LCD centre display on its holder, you need to align ▼ on the LCD centre display with ▲ on the holder. Slide the LCD centre display next in the direction of the arrows shown until ▼ on the LCD centre display is aligned with
 - on the holder.





Fitting the LCD centre display

Press the on/off button 14 on the LCD centre display.

If the holder or LCD centre display contact face is wet or dirty, wipe the contact faces clean with a soft dry cloth before fitting the LCD centre display.

4.1.2 Securing the LCD centre display

If you want to ensure that the LCD centre display cannot be removed, you can secure it to the holder as follows:

- 1. Attach the LCD centre display to the holder, see *chapter 4.1.1 "Fitting the LCD centre display"*.
- 2. Lock the LCD centre display by driving the screw (M4 x 10) into the screw aperture in the holder.



Securing the LCD centre display

- 17. Reset button
- 18. Button cell battery compartment
- 19. Screw aperture

4.1.3 Removing the LCD centre display

Switch off the electric system and remover the LCD centre display from the holder as follows:

Switch off the electric system before removing the LCD centre display. If

you remove the display while the system is switched on, the system will shut automatically shut down in order to prevent damage.

Do not remove the LCD centre display while riding the bike.



Removing the LCD centre display

- Press on/off button 14 on the LCD centre display to switch off the electric system.
 - If the LCD centre display is secured to the holder with the screw, you will need to remove the screw first, see *chapter* 4.1.2 "Securing the LCD centre display".
- 2. Press the locking tab on the holder down and slide the LCD centre display in the direction indicated by the arrows.

When reattaching the LCD centre display which has been removed to the holder, check it to ensure it is working correctly.

4.1.4 LCD centre display button cell battery

The LCD centre display is fitted with a button cell battery (3 V) for the time indication memory power supply. The unit is supplied with a plastic insulator fitted in the battery

compartment to prevent the button cell battery from discharging. Remove the plastic insulator before first use.



Opening the button cell battery compartment

- Unscrew the cover of the button cell battery compartment on the back of the LCD centre display anticlockwise using a coin or similar.
- 2. Take the button cell battery out and remove the plastic insulator.
- 3. Replace the button cell battery and screw the cover back on clockwise to close the battery compartment.
- 4. Set the time (see *section 4.3.2 "Showing* and changing basic settings").

If the time display flashes "0:00", it means that the button cell battery has reached the end of its service life. Only the clock functions will be interrupted at this point.

Replace spent button cell batteries immediately with new ones to prevent faults.

Failure to close the battery compartment cover properly may allow moisture into the display, which could give rise to faults.

4.1.5 LCD centre display control unit

The LCD centre display control unit features four functions.



Centre display control unit

- 1. Increase/decrease value
- 2. Night mode button
- 3. Mode button
- 4. Walk assist button (wheeling aid)

At each press of the increase/decrease value ▲/▼ buttons the strength of motor assistance changes by one level. If you press the increase value ▲ button, the strength of the assistance increases by one level, from no assistance to the highest level: HIGH.

If you press the decrease value button, the strength of the assistance will be weaker at each press of the button, from *HIGH* down to the level with no assistance.

The walk assist function is explained in section 4.3.7 "Walk assist button".

Night mode button is explained in section 4.3.8 "Night mode button".

The mode button is explained in the sections that follow.

4.2 LCD SIDE DISPLAY

On the model featuring an LCD side display the buttons are incorporated in the display. Unlike the centre display, the side display does not have a control unit. The settings and functions available with the LCD side display are explained in section 4.3 "Settings and functions".



LCD side display

| 1. Selection buttons for assist mode | This selects [HIGH], [STANDARD], [ECO] or [NO ASSIST] as the assistance level | |
|--------------------------------------|--|--|
| 2. Night mode button | This activates the front and rear lights and the background lighting for the LCD display | |
| 3. [MODE] button | This changes the mode indication | |
| 4. Walk assist button (wheeling aid) | Walk assist (up to 6 km/h) | |
| 5. Battery charge level display | Shows the remaining battery charge | |
| 6. USB connection symbol | This is shown if an external device is connected to the display | |
| 7. Assist power indication | The graph indicates the level at which you are being assisted | |
| 8. Text indication | Indication of the current assistance level and value of the mode functions | |
| 10. Night mode indication | Lights up when you press night mode | |
| 11. Speed indication | Current speed | |
| 12. Value indication | Shows the distance travelled, total distance covered, maximum speed, etc. | |
| 13. Mode indication | Shows the current mode | |
| 14. On/off button | Switches electric system on and off | |
| 15. Micro USB port | To connect and charge an external device | |
| 16. Rubber sealing flap | Seals and protects the micro USB port | |
| 17. Reset button | This enables you to set the total distance travelled to "0" | |

4.3 SETTINGS AND FUNCTIONS

4.3.1 1 Switching system on and off

Press on/off button **14** on the LCD side display or on the LCD centre display control unit to switch on assistance or to show the various indications. The battery charge level lights light up. Assistance will be enabled as soon as you start pedalling.

The LCD centre display cannot be switched on unless it is fitted in the holder. However the time is still displayed whenever the display is disconnected.



Switching system on and off

To switch the system off, if the system is switched on, press on/off button **14** on the LCD side display or on the control unit of the centre display.

The system will switch off automatically to save energy if your bike has not been used for ten minutes.

The electric system cannot be switched on if the battery is being charged while fitted to the e-bike.

Do not put your feet on the e-bike pedals before pressing the on/off button.

Take care to ensure that you don't press any other buttons when pressing the on/off button, this could cause an error message to be shown.

Do not press the on/off button while riding the bike. If you do not require any assistance, press the assistance selection buttons \triangle / ∇ to select *INO ASSISTI*.

The e-bike assistance is inoperative in the following cases:

- If you stop pedalling.
- Once a speed of 25 km/h has been reached (assistance will kick in again when you start pedalling at a speed of 25 km/h or lower.)

4.3.2 Showing and changing basic settings

You can change and set the following items on the display:

| [LANGUAGE] | This changes the display language. You have a choice of English, German, Dutch, French, Italian, Spanish, Finnish, Swedish, Norwegian and Danish |
|--------------|--|
| [CONTRAST] | This changes contrast on the display |
| [BRIGHTNESS] | This changes the brightness of the background lighting on the display. You can use it to set a separate level of brightness for when the night mode indication is switched on or off |
| [UNIT] | This enables you to have speed and distance shown in miles or kilometres |
| [WHEEL] | This sets the circumference of the tyres currently fitted to the bike |
| [ODO INPUT] | This changes the odometer (total distance travelled) read-out |
| [CLOCK] | This sets the current time |

To change the basic settings, press and hold mode button **3** and the assist mode selection button **1** (▼) on the control unit until [LANGUAGE] appears in the Text indication field **8** on the display.

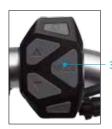
Press the assist mode selection buttons **1** \triangle / ∇ until the basic setting you want to change is shown. Now press mode button **3** to enable the basic setting to be changed. You then make the changes using the assist more selection buttons \triangle / ∇

Once you have set the correct value, press mode button **3** again to confirm it.

Now press night mode button **2** to save the new setting.

4.3.3 Resetting values

The [TRIP], [AVG] and [MAX] values can be reset at the same time. Do this by pressing mode button **3** to show one of the values and keep pressing mode button **3** until "0" appears.





Resetting values

4.3.4 Speed and indication functions





Speed and indication functions

The current speed read-out is in the Speed indication field **11**.

The distance and remaining battery capacity read-outs are in the Text indication field **8** and Value-indication **12**.

Press mode button **3** on the control unit or on the LCD side display to change the item .

| Item | | |
|--------|--|--|
| [TRIP] | Shows the distance travelled. | |
| [AVG] | Shows the average speed. | |
| [MAX] | Shows the maximum speed up to that point. | |
| [ODO] | Shows the total distance travelled since starting to use the bike. You can reset this value by pressing and holding the reset button on the back of the display and mode button 3 on the LCD side display or the control unit simultaneously. | |

| RANGE | Shows the approximate distance you can still travel with your e-bike with the remaining battery charge. |
|-----------|---|
| Remaining | Shows the remaining battery charge as |
| battery | a percentage. |
| charge | |

4.3.5 Battery charge status read-out

The current state of charge of the battery can be read off the display 5.

You can also check the e-bike's battery charge on the battery LED.

| Display read-out (LCD) | Battery capacity |
|------------------------|------------------|
| | 81% to 100% |
| | 61 % to 80% |
| | 41 % to 60% |
| | 21% to 40% |
| | 10% to 20% |
| | 1% to 10% |

Motor assistance will be switched off if the battery charge status drops below 5%. The remaining charge will be used for the display and lighting, sufficient for a further 2 hours of use approximately.

4.3.6 Assistance read-out

Press selection buttons **▲**/ **▼** until the desired assistance level is shown. The display indicates the strength of the assistance you are currently getting from the motor.



You can change the assistance level at any time, even on the move.

| Indication | Assistance |
|------------|--|
| HIGH | You have powerful assistance while pedalling and you can cycle comfortably, even up hills or carrying heavy loads. |
| STANDARD | Steady assistance with long range. |
| ECO | Assistance is less intensive and you can travel further on a single charge. |
| NO ASSIST | You have no assistance while cycling. |

4.3.7 Walk assist button (wheeling aid)

With walk assist button 4 (wheeling aid) the bike moves forward slowly while you walk next to it, for instance when you are manoeuvring in a tight space or pushing your bike out of a parking facility. To activate the walk assist function you need to press and hold walk assist button 4.



Do not press walk assist button 4 if the e-bike wheels are off the ground. This could cause injury.

4.3.8 Night mode button

Night mode button 2 switches the front and rear lights on simultaneously. They are powered by the battery. Night mode indicator 10 shows on the display when the lights are switched on.





Switching night mode on and off

- Press on/off button 14.
 The e-bike will be switched on and the background lighting in the display lights up in normal mode.
- Press the night mode button 2.
 Night mode indicator 10 shows on the display and the background lighting switches to night mode. Press the night mode button again to switch back to normal mode.

The night mode button can also be used to change the brightness of the background lighting in the display unit. You can set background lighting separately for normal mode and night mode.

If you press the night mode button while the e-bike is switched off, this will activate the display and select the night mode brightness setting; all functions on the display apart from walk assist will be active. The system needs to be

switched on using the on/off button in order to activate the walk assist function.

Pressing the night mode button again switches off the display and display functions.

Background lighting is less bright in nigh mode than in normal mode so the illumination will not distract you while cycling in the dark.

You can set normal mode brightness when the night mode indicator is not showing. You can set night mode brightness when the night mode indicator is showing.

4.3.9 USB connection

You can charge external devices (e.g. a mobile phone) by connecting them to the display using a micro USB cable. Maximum charging current is 1,1 A. External devices can only be charged if the display and a charged battery are fitted on the e-bike.



Micro USB connection LCD centre display



Micro USB connection LCD side display

- Open the micro USB port rubber cap 16 from the micro USB port 15 on the LCD display.
- 2. Connect a micro USB cable to the micro USB port on the LCD display.
- 3. Connect the micro USB cable to the external device.

Do not charge external devices in damp environments and while you are out riding, so as to preclude faults and hazardous situations. Do not connect a damp USB cable.

Replace the rubber cap firmly after using the micro USB port in order to keep moisture out of the display.

5. CHARGER

Your bike can be charged directly using the charging connection in the battery. The battery can remain in the bike during the charging process. You can also remove the battery from the carrier and charge it off the bike.

Take note of the mains voltage. The power supply voltage must match the data on the charger nameplate. Chargers rated at 230 V can also be used with 220 V.

The following summary lists the various components of your charger, with associated itemisation and designations.





Charger

- 1. Charger
- 2. Mains lead plug
- 3. Charging plug
- 4. Charger safety instructions



Observe the following safety instructions to prevent overheating, electric shocks, or catching fire:

- Use the charger for the specified e-bike
- Connect the plug correctly.
- Do not touch the plug with wet hands.
- Do not store the charger with the mains lead wrapped round it. This could damage the mains lead or the plug.
- Do not touch the charger contacts with metal objects so as to prevent short circuits.
- · Do not expose the charger to mechanical shocks.
- · Do not use the charger in damp locations.
- Ensure the charger does not touch your skin in the same place for long periods while charging.
- Do not allow children to use the charger.



Clean the charger plug regularly.

Do not take the charger apart.

Charging starts as soon as the charger is connected to the battery and to the mains. The electric system is activated during charging.

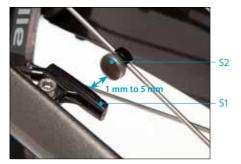
Check the charger regularly to ensure it is not damaged. Refer to your Gazelle specialist if the charger is damaged.

5.1 FAULT CAUSES AND REMEDIES

| | Description | Remedy |
|---------------------------|------------------------------------|--|
| Charging LED flashing red | Charging fault | Remove dirt from contacts. If this does not solve the problem please |
| | Battery or charger showing faults. | contact your Gazelle specialist. |

6. SPEED SENSOR

If the e-bike is fitted with a speed sensor, the current speed can be shown on display **11**.



Speed sensor and spoke magnet

- S1. Speed sensor
- S2. Spoke magnet

The spoke magnet **S2** is attached to the spokes in the wheel. The speed sensor **S1** measures the rotational speed of the wheels and transmits signals to the display.

The gap between the speed sensor and the spoke magnet must be between 1 and 5 mm. If the gap is less than 1 mm or more than 5 mm or if the speed sensor is not fitted, the speed indictor will flash "000" on the display. If so, the e-bike will have no assistance.

7. MOTOR

Do not take the motor apart or make any modifications to it. This could lead to damage or overheating with fire as the result.

If you open the motor without authorisation, this will void your warranty.

Contact your Gazelle specialist to have the motor repaired and parts on it replaced.

Use the motor for the e-bike only.
Using the motor for other purposes could cause injuries.

There is a possibility (for example due to a locked chain) that the crank starts rotating when you are walking with the bike, which activates the electrical support on bikes with a rotation sensor. This may cause dangerous situations. Therefore it is recommended to switch off the electrical system while walking with the bike.

7.1 MOTOR OPERATION

When you switch on the assistance and the bike is set in motion, it will be assisted by the motor.

The amount of tractive effort generated by the motor is dependent on three factors:

 The amount of effort you apply to the pedals (with pedal force sensor)
 On a model with the pedal force sensor the assistance will increase proportionately when you pedal harder yourself. The force sensor records this and supplies more power. The motor adapts to the power you put in and the assistance level selected.

• Which assistance you have selected
At the highest assistance level, HIGH, the motor will assist you the most, but it will also consume the most energy. If you opt for the STANDARD level, the motor will deliver slightly less power. If you select ECO, you will have the least assistance, but it will give you the greatest range.

· How fast you are riding

Whenever you are cycling and put on a burst of speed, the assistance will increase until it reaches its maximum just before the highest assisted speed. Assistance is then reduced automatically and cuts out at around 25 km/h (±10%) in any gear. Depending on the assistance level chosen, the transition between cycling with motor assistance and without occurs more or less abruptly.

8. RANGE

Under ideal conditions range can extend up to 150 km with an 13,5 Ah battery.

During the winter battery range is reduced on account of the lower temperatures. Fit the battery (from a warm room) in the bike just before setting off. In this way you avoid you range being reduced due to the lower temperatures.

The distance you can cycle with a fully charged battery with motor assistance is nevertheless dictated by multiple factors:

Assistance selected

As a general rule: The higher the level of assistance, the shorter the range. The less power you draw from the electric drive, the longer the range.

Riding style

If you cycle in high gears and set assistance to a high level, the motor will assist you with a great deal of power. This will bring about increased consumption, which means you will have to charge the battery sooner.

Ambient temperature

The range on a charged battery is shorter when it is colder. For the greatest possible range the battery needs to be kept in a heated room such that it can be put in the bike at room temperature. Due to its discharging in use, the battery heats itself sufficiently such that it does not lose too much performance in cold outdoor temperatures.

Mechanical condition of your bike

Ensure your tyres are at the correct pressure. Rolling resistance will increase if your tyres are too soft. If the brakes are rubbing this will also reduce range. Please contact your Gazelle specialist for further information about maintenance and the mechanical condition of your bike.

Battery capacity

The current charge in the battery will affect range, see *section 4.6 "Checking charge level"*. The greater the capacity, the greater the range.

Topography

Whenever you ride uphill, you will need to apply greater force to the pedals. The model with a pedal force sensor senses this and increases the assistance delivered by the system. However this does operate at the expense of range.

| | SILVER | GOLD | PLATINUM |
|--------------------|-----------|-----------|------------|
| Watt per hour | 317 Wh | 396 Wh | 486 Wh |
| Ampères | 8,8 Ah | 11 Ah | 13,5 Ah |
| Range Eco | 70-100 km | 90-125 km | 110-150 km |
| Range Standaard | 50-70 km | 60-90 km | 75-110 km |
| Range High | 40-55 km | 50-70 km | 60-85 km |

9. DIAGNOSING AND REMEDYING FAULTS

The parts of the electric bicycle system are monitored at all times during use and charging. If an error is detected, an error code will be displayed on the console. To return the console to the standard display, press any button on the operation unit of the LCD centre type console or on the LCD side type console.

Depending on the error code, motor unit drive is automatically stopped as necessary. The assist function will no longer be activated, though travel can be continued. When an error is displayed, remedy it according to the remedy described in the following table.

| LCD centre display | LCD side display | Description | Remedy |
|-------------------------------|-------------------------------|--|--|
| E1 | E1 | Torque sensor error Was the power button pressed while you were pedalling? | Press the power button without pedalling to turn on the power. If this does not remedy the problem, take the electric bicycle to your dealer. |
| E3 | E3 | Battery authentication error The battery cannot be recog- nised as an authentic battery (one provided at purchase). | Mount the authentic battery (one provided at purchase). |
| E5 Backlight blinks | E5 Backlight blinks | Switch authentication error The console cannot be authenticated. | Check the cable connections between the console and the motor unit. Check the cradle con- tacts or display contacts for dirt. |
| | | Switch authentication error The console provided at purchase cannot be authenticated. | Mount the console provided at purchase. If this does not remedy the problem, take the electric bicycle to your dealer. |
| E6 | E6 | Torque sensor error | Turn the power back on again. If this does not remedy the problem, take the electric bicycle to your dealer. |
| E7 | E7 | Torque sensor writing error | Take the electric bicycle to your dealer. |
| E8 | E8 | Hall IC error | Check the cable connections between the battery holder (contains the controller) and the motor unit. Take the electric bicycle to your dealer. |
| E9 | E9 | Motor unit error | Take the electric bicycle to your dealer. |

| LCD centre display | LCD side display | Description | Remedy |
|---|--|---|---|
| Ec | Ec | Crank rotation sensor error | Check the cable between the battery holder (contains the controller) and the Crank rotation sensor. Take the electric bicycle to your dealer. |
| EF | EF | Motor unit update error | Take the electric bicycle to your dealer. |
| | 1100 O T | Speed sensor warning The speed sensor cannot detect the signal correctly. | Turn the power back on again. Check the speed sensor. If this does not remedy the problem, take the electric bicycle to your dealer. |
| 0:00 C:00 C:00 C:00 C:00 C:00 C:00 C:00 | STATEMENT OF THE STATEM | Battery communication error Communication with the battery is not being performed successfully. | Remove any dirt from the battery terminals. If this does not remedy the problem, take the electric bicycle to your dealer. |
| T SIANLERD | BBX | Overheating (motor) The mode has entered the protection mode since the motor unit is overloaded. | Travel under a lighter load. After a short while, the temperature will return to normal and the assist function will be restored. |
| INF. INF. INF. INF. INF. INF. INF. INF. | BBX BBX | Overheating (battery) The mode has entered the protection mode since the battery is overloaded. | Travel under a lighter load. After a short while, the temperature will return to normal and the assist function will be restored. |
| TRIP II TRIP STANDARD | STANDARD BBX | Bicycle mark button (Walk assistance) error Either the bicycle mark button (Walk assistance) is pressed or short-circuited. | Check that the bicycle mark button (Walk assistance) is not pressed, and press the power button to turn the power back on again. If this does not remedy the problem, take the electric bicycle to your dealer. |
| E km/h | Ekm/h | Average speed error There is not enough data to calculate the average speed. | Reset the average speed. * Measurement data such as distance travelled is not recorded while [E] is still displayed, though the power assist function is active. |

| LCD centre display | LCD side display | Description | Remedy |
|--------------------|------------------|--|---|
| | | EEPROM error The console has an error. | Take the electric bicycle to your dealer. |
| | #2888 | Protective function active The protective function against the continuous charging is activated. | Turn the power off and on. If the display does not disappear even when the power is turned off and on, your device is the unsupported USB device. |
| | - | Coin-type battery out of power The coin-type battery has run out of power. | Replace the coin-type battery and set the time. |
| | | Switch Update error | Take the electric bicycle to your dealer. |

For specific faults involving the battery, see section 3.8 "Fault causes and remedies".

For specific faults involving the charger, see section 5.1 "Fault causes and remedies".



Have all checks and repairs carried Have all criecks and inc. out by your Gazelle specialist.

10. MAINTENANCE

Keep the contacts on the battery as well as connections and contacts on the holder and on the LCD display free from dirt. If any components are dirty, wipe them clean with a soft, slightly moistened cloth.

Do not apply conductive grease to the battery contacts. This could cause a short circuit.

Before and after use remove any dirt or water apparent on an LCD centre display from the display or holder contacts.

Never use a steam cleaner or pressure washer to clean components (this applies to the motor too).

Go to your Gazelle specialist for maintenance on your e-bike.

10.1 BATTERY

Keep the battery clean. Clean it carefully with a soft damp cloth. The battery must not be immersed in water or cleaned by spraying with water. If the battery is not working you will need to contact your Gazelle specialist.

10.2 MOTOR

You need to clean the motor in your bike on a regular basis. The best way of removing any dirt is using a dry brush or a damp (not wet) cloth. Cleaning must not be done with running water such as a hose or a pressure washer.

If water gets into the motor it could be ruined. Accordingly, take care while clean-

ing to ensure at all times that no fluid or moisture can get into the motor.

Do not clean the motor when it is warm, after a ride for instance. Wait until the motor has cooled down, otherwise it could be damaged.

Whenever the motor has been removed, for instance to clean it, under no circumstances must it be held or carried by the cables. The cables could break as a result. If the motor is removed from the bike frame, the motor plug and the connector on the cable to the battery must be checked for possible contamination before being reconnected. If necessary, the can be cleaned with care using a dry cloth.

10.3 DISPLAY

You must clean the display housing using a damp (not wet) cloth only.

10.4 CONTROL UNIT

The control unit with an LCD centre display may be cleaned if necessary using a damp cloth.

10.5 CHARGER

You must always remove the plug from the mains socket before cleaning the charger. This will avoid a short circuit and personal injury.

Take care to ensure that no water gets into the charger while cleaning.

11. TECHNICAL SPECIFICATIONS

| | LCD centre display | LCD side display |
|-------------------------|--------------------|--------------------|
| Operating temperature | -10 °C to 40 °C | -10 °C to 40 °C |
| Storage temperature | -10°C to 60° | -10°C to 60° |
| Water protection rating | IPX5 | IPX5 |
| USB output | 5 V DC, max. 1.1 A | 5 V DC, max. 1.1 A |

| | Luggage carrier battery |
|-------------------------------|--------------------------|
| Nominal voltage | 36 V |
| Nominal power | 8.8 Ah / 11 Ah / 13.5 Ah |
| Energy | 317 Wh / 396 Wh / 486 Wh |
| Operating temperature | -10 °C to 60 °C |
| Storage temperature | 0 °C to 40 °C* |
| Permissible temperature range | 0 °C to 40 °C |
| Water protection rating | IPX5 |
| Weight, approx. | 3.2 kg / 3.7 kg / 4 kg |

^{*} If you will not be using the battery for a long time, charge it fully before storing it away. Check the remaining battery charge when you use the battery again after a long time. You will need to recharge the battery if its remaining charge is insufficient. You will need to recharge the battery every three months in order to ensure battery capacity remains at its optimum. (If the battery charge level indicator does not light up even if you press the battery charge level button, it means the protection circuit is activated. Charge the battery in order to deactivate the circuit.)

| Motor | | |
|-------------------------|-----------------|--|
| Power | 250 W | |
| Nominal voltage | 36 V DC | |
| Operating temperature | -10 °C to 40 °C | |
| Storage temperature | -20 °C to 50 °C | |
| Water protection rating | IPX5 | |
| Weight | 2.8 kg | |

| Charger | | |
|-------------------------------|--|--|
| Input | 220 V AC to 240 V AC, 50 Hz / 60 Hz, 135 W | |
| Output | 42 V DC, 2.5 A | |
| Permissible temperature range | 0 °C to 40 °C | |
| Battery type | Li-ion 36 V 8.8 Ah 11 Ah 13.5 Ah | |

We wish you a great deal of pleasure using your new bike with a Panasonic drive system.