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 **GIANT**®

OWNER'S MANUAL
BERIEBSANLEITUNG
GUIDE DE L'UTILISATEUR
INSTRUCTIEBOEKJE
MANUAL DEL PROPIETARIO
PODRECZNIK UŻYTKOWNIKA

REVIVE

eb

Welcome, and congratulations on your purchase of a new Giant electric bicycle; the fun of pedaling your new Giant electric bicycle is only moments away.

The Revive EB is designed for on-road use only. Extreme off-road use, jumping or racing will put the user at risk of serious injury and death.

Please read all information in this manual carefully for maximum performance, safety, and enjoyment of your electric bicycle. In addition to being a full-featured bicycle, there is also an integrated on-board electric power assist unit. Revive EB provides two types of power assist:

1. Pedal Activated Power (PAP)—Power assist is automatically provided while pedaling.
2. Variable Power Control (VPC)—Additional power can be delivered via a throttle while pedaling.

It is important that you understand the operation of each of these two functions. Failure to do so could cause damage to the motor, energy set (battery pack/charger unit), or the entire bicycle. You should also read the accompanying owner's manual for information regarding the standard bicycle features of Revive EB, especially if you have not ridden a bicycle in some time. While they are easy to use and understand, many components operate differently from components of just a few years ago.

Taking a few moments now to understand the electric bicycle's operating procedures will help you get the most out of every ride. Please read section "Battery Charging" before operating the electric bicycle's electric powered functions. The electric bicycle's battery must be charged completely before the motor can be operated.

TABLE OF CONTENTS

What it's called	P.4
What is Giant Revive EB	P.5
Range on One Charge	P.6
Battery Care & Maintenance	P.7
A. Battery Charging	P.7
B. Battery & Charger Care, Maintenance, & Storage	P.8
C. Safety	P.9
How Things Work (VPC, PAP, Cruise, Indicator, Kickstand, Carrier)	P.12
A. Pedal Activated Power/PAP	P.12
B. Variable Power Control/VPC Throttle	P.12
C. Cruise Control	P.13
D. Indicator	P.13
E. Kickstand	P.15
F. Carrier	P.15
Maintenance	P.16
Giant Guarantee Programme.....	P.17

NOTE:

This manual is not intended as a comprehensive use, service, repair or maintenance manual. Please see your retailer for all service, repairs or maintenance.

What it's called

■ Battery Charger



■ Handlebar



What is Giant Revive EB?

The Giant Revive EB Power Activated electric bicycle is a new approach to recreational cycling, bringing together human power and the power of electronic technology to create a totally new cycling experience!

Revive EB exclusive Pedal Activated Power system and Variable Power Control enhance the enjoyment of riding an ordinary adult bicycle by giving you an extra boost for climbing hills or riding into a headwind-all automatically, efficiently, and instantly.

PAP: Pedal Activated Power

Simply turning the power on activates Pedal Activated Power. A torque sensor, housed within the gearbox, “sensors” the rider’s pedaling force. The electric motor then responds with measured power. The greater the pedaling force, the greater the motor assistance. Pedaling force is required for motor output.

Variable Power Control

You control the amount of power output simply by twisting the VPC Throttle. This allows for increased motor assistance and helps smooth Revive EB pedaling action.

Like a hybrid car, which blends gasoline and electric motors to power the car, a Revive EB blends electric motor power with human pedal effort to power the bike. Hybrid electric bikes like Revive EB allow riders the opportunity to ride faster and/or further than they could riding a standard bicycle.

Range on One Charge

Running distance on one charge varies depending on rider's weight, wind resistance, outdoor temperature, etc. Below chart is the approximate range based on different road patterns.

	Riding range	Riding condition		
		Road	Gear	Speed
PAP (Pedal Activated Power)	36 km (22.3miles)	Flat	Top Gear	17 km/h (10.5mph)
VPC Throttle(Variable Power Control)	23 km (14.2miles)	Flat	Top Gear	20 km/h (12.4 mph)

CONDITIONS THAT EFFECT BATTERY RANGE

- Ambient temperature: Extreme cold and heat can deplete the battery's charge more quickly.
- Number of charges: The more charge cycles the battery has undergone, the less capacity it will have.
- Headwinds: Riding into a strong headwind will cause the motor to use more energy.
- Road conditions: Hilly and rough terrain will cause the motor to use more energy.
- Luggage: Carrying extra luggage on the carrier or in a backpack will cause the motor to use more energy.
- Rider weight: A heavier rider will cause the motor to use more energy than with a lighter rider.
- Acceleration from a standing stop: Since more energy is used during initial acceleration, riding in conditions that force you to start and stop often (i.e. city traffic) will cause the motor to use more energy.
- Proper gear usage: Pedaling in the correct gear for the terrain will help save energy for both you and the battery.
- Poor maintenance: A dry or dirty chain and under-inflated tires can cause the motor to use more energy.

TO HELP MAINTAIN MAXIMUM RANGE

- Charge the battery under room temperature 0 ~ 40 degrees C. (32~104 degrees F)
- Standard Operating Temperature :
 - Charge : -5 ~ 40□
 - Discharge : -10~60□
- Use the gears while accelerating or riding uphill.
- Don't ride with under inflated tires and keep the chain clean and well lubricated.

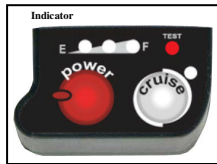
Battery Care & Maintenance

Battery Charging

CAUTION:

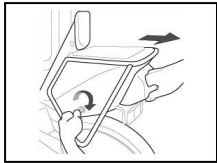
- Battery must be fully charged before first ride.
- Charge the battery in a room with a temperature between 0°C - 40°C (32-104°F)
- If you notice a strange smell or smoke, stop the charging procedure immediately! Take your electric vehicle to your authorized Giant dealer for service or replacement.

Step 1



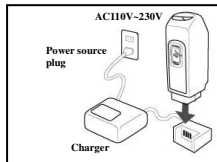
Press the Power Button to cut off the power.

Step 2



While holding the key at the OPEN position, pull the battery out of its holder.

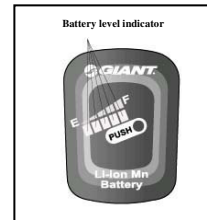
Step 3



- Insert the battery's plug into the charger's charging socket.
- Insert the power source plug into an electric outlet (AC 110~230 volts).

⚠ CAUTION : Make sure that all poles are fully inserted into the socket.

Step 4

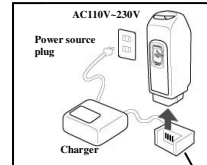


When the battery is being charged, the battery indicator lights up and shows the present charging state of the battery.

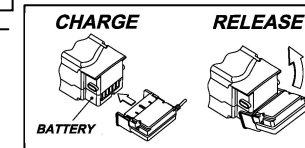
↓ After approx. 4 hours

Charging completed, battery indicator does not light up.

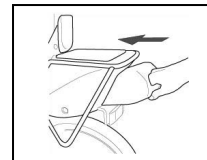
Step 5



Disconnect the battery from the charger, after the charge is completed.

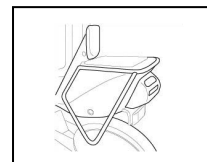


Step 6



Mount the battery onto the bicycle.

Step 7



Make sure that the battery is secured at "LOCK" position to prevent it from moving sideways.

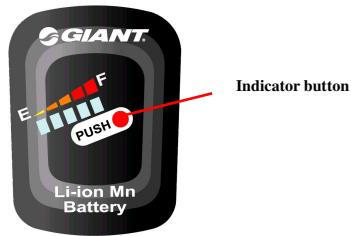
Battery & Charger Care, Maintenance, & Storage

■ Battery Tips

◆ Life cycle

- Indication of Deteriorated Condition: Indicate the deterioration of battery with pushing indication button for 5 seconds.
(Deteriorated ratio(%) of Battery: $(\%) = \text{current expected capacity(Ah)} / \text{original nominal capacity(Ah)} \times 100\%$)

If the range per charge becomes too short, the battery's life cycle may have come to an end. Replace the battery with a new one.



◆ For extended storage

- Charge the battery to full level.
- Charge the battery every 6 months even when not in use.

◆ Characteristics of Li-ion Battery :

- Maintains nearly full power output up to just before energy is completely consumed.
- Most of the components can be re-cycled.

■ Battery Recycling Program

- At the end of useful life, Li-ion batteries are recyclable.
- In various countries, there are laws regulating proper disposal.
- When your Revive E battery must be replaced, please return it to an Authorized Giant dealer for recycling. Your Giant dealer can also order a replacement battery for you.

Safety

These safety precautions are provided for your benefit to protect you and those around you. Please read and follow them carefully to avoid unnecessary injury, damage to the product, or damage to other property.

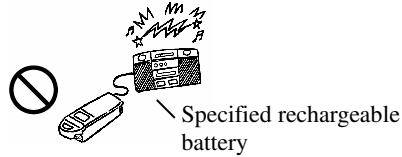
Battery

CAUTION

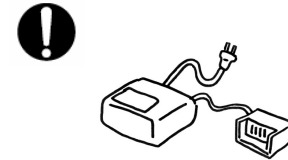
- Do not throw the battery in to a fire.
Do not overheat the battery.



- Do not apply the battery to other appliances.

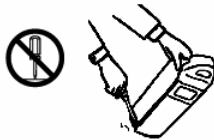


- Use the specified charger only to charge the battery.



- Do not disassemble or modify the battery.

Disassembly
Prohibited



- Do not connect positive and negative terminals
by using metallic objects.



(Electrolyte leakage, overheating and/or rupture may be the result.)

Battery Charger

CAUTION

- Do not disassemble or modify the charger. Do not use the charger to charge batteries other than supplied.



Disassembly
Prohibited



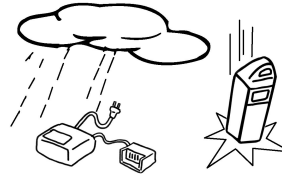
Overheating, fire or electric shock may be the result.

- Do not cover the charger or place objects on it.



Overheating, fire or electric shock may be the result.

- Do not subject the charger to shocks. e.g. by dropping. Keep the charger away from water.



- Place the charger firmly on a flat surface.



Using the charger upside-down or stretching the cord tight may result in malfunction, fire or electric shock.

- Do not touch the charger with your skin for long periods during charging.

Burning of the skin may result

- Do not short-circuit the terminals by using metallic objects.




Overheating, fire or electric shock may be the result.

WARNING


- Keep the battery away from water. Pouring water on the battery may result in short-circuit and overheating of the battery.
- Do not submerge the battery. Soaking the battery in water may cause irreparable damage.

 **WARNING**


■ Do not apply pressure to the cord or the plug

 Placing the cord tightened between a wall and a window frame, or placing heavy objects on the cord or the plug may result in electric shock or fire.


■ Be sure to insert the plug fully into a wall socket.

 Electric shock and overheating may result, causing fire.


■ Do not touch the plug with wet hands.

 Electric shock may be the result.

■ Keep out of reach of children or pets.


 Electric shock or injury may be the result.

■ Do not use the charging plug and/or the power source plug when they are dusty.


 Insulation failure due to moisture absorbed in the dust may result, causing fire.

Pull out the power source plug and clean it with a dry cloth.


■ To remove a cable from a socket, do not pull the cable, pull the plug.

 Always pull the charging cable gently.

■ Do not rotate the pedals when charging the battery while it is mounted on the bicycle.

 The cord may twist around the pedal or the crank, and the damage to the plug may result, causing electric shock or fire.

■ Do not apply voltage over the rated value to the charger.

 Do not use sockets, connectors and other wiring devices with a power source other than standard rated volts (AC110~240 volts) power supply.


Overheating, fire or electric shock may be the result.

■ Do not use damaged components such as charge case, power cord, plug etc.



Electric shock, short-circuit or fire may be the result.

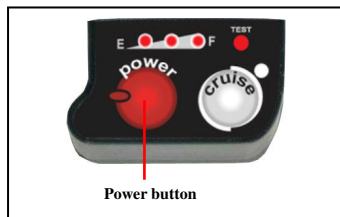
■ Do not attempt to use another brand/model's charger to charge the battery.

 Overheating, fire or electric shock may be the result.

How Things Work

It is extremely important to the performance, enjoyment and safety of your electric bicycle and yourself to understand how the features of the electric bicycle operate. Even if you're an experienced cyclist, you should not assume that the way things have worked on previously owned bicycles will operate similarly on the electric bicycle. Be sure to read – and to understand –this section of the owner's manual. If you have even the slightest doubt about how any of the mechanical features of the electric bicycle operate, talk to your authorized Giant dealer.

A. Pedal Activated Power/PAP



The Pedal Activated Power (PAP) system utilizes an on board processor (CPU) to provide motor assistance based on your pedaling force and current speed. To access electric motor assistance, press the power button.

(Please first charge the battery, prior to operating Revive EB's electric functions.)

To attain higher or lower speeds, shift the rear derailleur into the smaller or larger cogs.

Your Revive EB will assist power till your speed reaches 25km/hr (16mph). From 10mph (16km/hr) the power assist will slowly be reduced till 25mph (25km/hr) when the Revive motor will completely be disengaged.

B. Variable Power Control/VPC Throttle



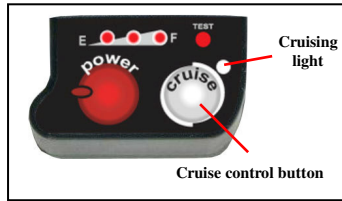
Revive EB's Variable Power Control (VPC) Throttle, Located on the right hand side of the handlebar, gives you the ability to receive maximum motor assistance while providing only minimal pedaling effort. This will allow for increased motor power while climbing hills, riding into headwind, or if you simply don't want to exert too much pedaling force.

The VPC Throttle is activated with a simple twist in a counterclockwise (rearward) motion while you are pedaling. Twisting the VPC Throttle all the way backwards will allow for maximum motor output.

As in PAP mode when your speed reaches 25km/hr (16mph), the Revive EB's motor will automatically disengage and cease assistance. This will occur even while the VPC Throttle is being twisted. Once the speed drops below 25km/hr (16mph) then the motor can assist you once again. At this point you can begin again to use the VPC Throttle.

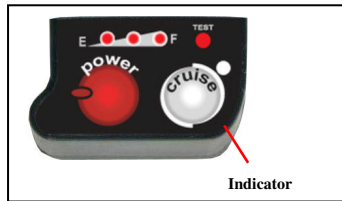
Caution: Since using the VPC Throttle increases motor assistance the battery will be drained faster than normal thus decrease the Revive EB's range. Using the VPC Throttle only when necessary will allow for a longer range.

C. Cruise Control



Revive EB is equipped with Cruise Control. If the bike provides the VPC function, you can push the cruise control button, a constant rate of power will be maintained and the “Cruising” light on the Energy Indicator Panel will illuminate. Once Cruise Control is engaged, the throttle may be released. To cancel cruise control, apply the brake or press the cruise control button.

D. Indicator



The Battery Energy & Malfunction Indicator is located on the right side of the handlebar. To access electric motor assistance, press the power button. You will hear a one-second beep and the LEDs will light up indicating that the system is functioning properly.

When Energy Indicator is turned on, Revive E provides Pedal Activated Power (PAP) any time the rider pedals. By using the twist throttle, rider can increase power while pedaling (Variable Power Control).

The indicator is automatically shut off 60 minutes after the bicycle stops. (auto-off system)

If LED lamp does not light up during operation, check if the battery is charged and securely mounted.

When the battery is new or remains unused for a long period, in very cold weather, the following failure may occur:

1. Indicator does not light up at all even after full-charge.
→ Press the Power Button to cut off the power and press the Power Button again.
2. Assistance power is not supplied, while the indicator is on.
→ “Normal-charge” the battery again.

CAUTION:

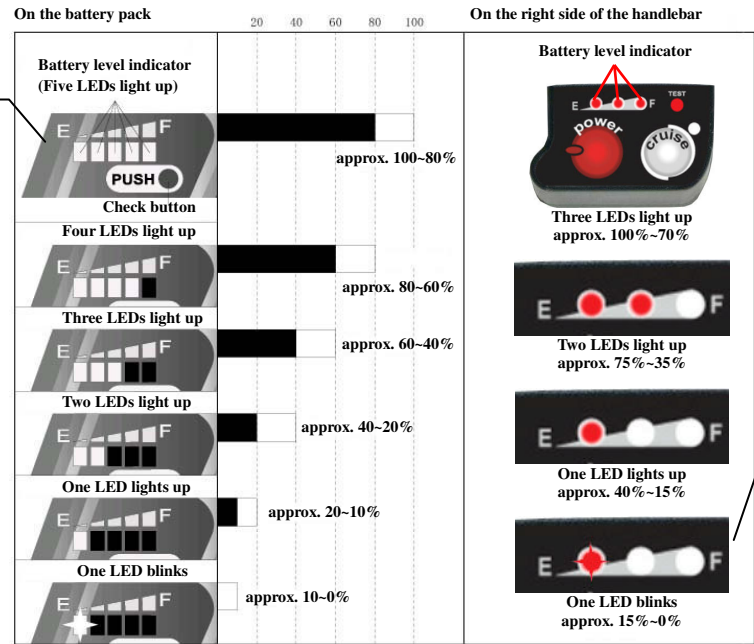
If the electric bicycle is stored with the battery in place, press the power button on the indicator to the “OFF” position. Leaving the power indicator in the “ON” position while stored or parked will result in rapid energy loss.

The amount of energy available is indicated by the string of LED lights on the middle side of the battery pack.

Apply pressure with your finger to the button labeled “push” will activate the energy indicator.

When fully charged all five lights will illuminate.

(Please note that the indicator shows approximate values.)



WARNING: Do not operate Revive EB in the “ON” position when the single light is flashing as damage may occur to the battery. The flashing light indicates that there is insufficient energy to operate the Revive EB. Simply recharge the battery as soon as possible.

Power assist is not available when indicator is blinking. It means that there is a possible malfunction, you need to press the button to “OFF” and back to “ON” again. If they keep flashing, bring your bike to your Authorized Giant retailer to have it checked as soon as possible.

LED status on indicator

LED status	System status	Remark
1. Left LED blinks 	Battery empty	The battery has completely run down. Recharging is required.
2. Middle LED blinks 	Throttle malfunction	Reset the power. If the symptom persists even after resetting, bring your bike to an Authorized Giant dealer.
3. Right LED blinks 	Driver system malfunction	
4. Cruise LED blinks 	Torque malfunction	

Automatic Motor Shut-Off

Revive EB is equipped with two automatic motor shut-off features.

1. Brake-Actuated Motor Shut-Off: When one or both of Revive EB brakes are applied, electric power assistance automatically disengages. To resume electric power assistance, simply release brake(s) and begin pedaling.
2. Speed Motor Shut-Off: When your speed reaches exceeds 25km/hr (16mph), Revive EB motor will automatically disengage and stop assisting until the speed drops below 25km/hr (16mph).

Kickstand

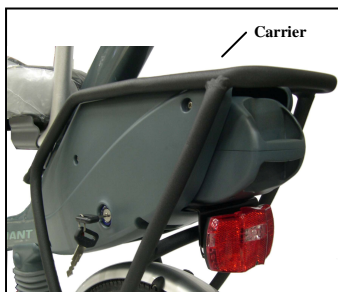


The electric vehicle is equipped with a retractable kick stand for parking and storage while not in use. Always use the kickstand when parking or storing your electric vehicle. Do not lean it against anything (wall, post, fence, etc.) or lay it on its side.

To park bike, step down on the support's stand with your toe and move the bike backward until the support locks.

To ride bike again, put your foot in front of the kick stand and move the bike forward. Kickstand will be pressed upward into its retracted position.

Carrier



If you carry luggage on the carrier, make sure everything is securely fixed and free from the rear wheel, chain, etc.

Total weight of the luggage must not exceed 15 kg (33lbs). The carrier is not equipped with rack straps; ask your retailer for straps so luggage can be carried safely. Never carry a passenger or a child.

Maintenance

■ Washing

To keep your bicycle in proper working condition, keep it clean. If your frame or a component is dirty, clean it with a soft damp cloth and neutral bike cleaner or a similar product.

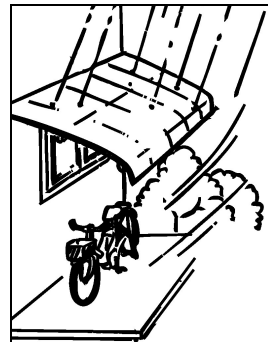


CAUTION:

Do not use high-pressure water or air hoses to clean the electric bike. This can force water into electric components that may cause malfunction.

■ Avoid leaving your bicycle out in the weather

When not riding, keep your electric bike in a location where it will be protected from snow, rain, sun, etc. Snow and rain can cause your electric bicycle to corrode. The ultraviolet radiation from the sun can fade the paint, or crack any rubber or plastic on the electric bicycle.



Giant Guarantee Programme

Article 1 Guarantee

- 1.1 Giant guarantees that every new Giant bicycle is free of constructional defects, defective materials and rustiness, for as far as the conditions as set out in this Giant Guarantee Programme are being met.
- 1.2 Only the first owner of a new Giant bicycle can eventually lay a claim to the guarantee, in the event and for as far as this first owner has obtained the new Giant bicycle from a dealer that has been approved by Giant.
- 1.3 The rights that come forth from the Giant Guarantee Programme are in no event and not in any possible way transferable.
- 1.4 Without prejudice to what has been settled in the Giant Guarantee Programme, the regulations of directive 99/44/EU of the European Parliament and of the Council of the European Union on certain aspects of the sale of consumer goods and associated guarantees (official journal L 171) and respectively the correspondent national legislature of the country in which the Giant bicycle has been bought are valid.

Article 2 Specifications and terms

- 2.1 A guarantee for the period of 10 years is applicable for regular Giant frames and regular Giant forks.
- 2.2 A guarantee for the period of 5 years is applicable for Giant suspension frames.
- 2.3 A guarantee for the period of 1 year is applicable for Giant suspension forks.
- 2.4 For other Giant parts, for as far as they have not been mentioned in article 3.1, a guarantee for the period of 1 year after date of delivery is valid. For parts of third parties the relevant guarantee conditions of that producer are valid and applicable to these parts.
- 2.5 For batteries and other electrical equipment a guarantee of 12 months after date of delivery is valid.

Article 3 Exceptions

- 3.1 The guarantee does not apply to parts that are subject to normal wear and tear, such as tyres, chains, blades, brakes, cables, chainwheels, headset, BB set, pivot sets, sprockets in the circumstance that there are no assembly – or material defects.
- 3.2 The guarantee lapses in the event:
 - A. The bike has been used for professional purposes such as bike rental;
 - B. The bike has been damaged as a result of taking part of competitions, jumping, downhill, trial or as a result of exposing the bike to – or riding the bike in severe conditions or climates.
 - C. The bike has been involved in an accident.
 - D. The bike has been used in an improper manner or in an other manner than usual, in view of the sort and type of the bike concerned.
 - E. The bike has not been serviced in confirmation with the directions in the service manual.
 - F. The bike has been serviced and / or repaired by a non Giant dealer.
 - G. The bike has been assembled with non original parts.
 - H. The first owner has actually transferred the bike to a third person.

Article 4 Procedure

- 4.1 On delivery of the bike to the first owner, a guarantee registration card and a duplicate guarantee registration card are being issued. After delivery of the bike, the guarantee registration card is to be completed by the first owner of the bike and sent to Giant Europe B.V. A claim on the guarantee will no sooner be discussed than after receipt of a guarantee registration card by Giant Europe B.V.
- 4.2 The claims that come under the competence of this guarantee are to be issued with an acknowledged Giant dealer.
- 4.3 While issuing a claim with an acknowledged dealer that comes under the competence of this guarantee, a prove of purchase must be handed over. Furthermore, the first owner must also hand over the duplicate guarantee registration card to the Giant dealer.
- 4.4 On issuing the claim, the Giant dealer completes a guarantee application form that in all cases must include the following data: name and address of the owner of the bike, date of purchase, frame number of the bike, description of the part that comes under the guarantee, stamp of the Giant dealer.
- 4.5 In the event that a guarantee is acknowledged by Giant, then Giant shall take care of replacement or reimbursement of the part concerned.
- 4.6 The final decision on whether a claim on the guarantee is to be accepted and the choice between replacement or reimbursement will ultimately be taken by Giant Europe B.V.

Article 5 Liability

- 5.1 Giant excludes any and all liability for damages to (parts of) the bike that may arise from the incorrect tuning of the moving parts of the bike, the improper use and/or maintenance of the bike (including the untimely replacement of the parts mentioned in article 3.1).
- 5.2 In the event that Giant accepts a claim on the guarantee, then this does not in any case imply an acceptance of any liability for possible damages. If and for as far as there is some talk of suffered (consequential) damages, Giant excludes all liability for that as far as she is not legally bound to compensate these damages.
- 5.3 The guarantee offered in the Giant Guarantee Programme forms an addition to legal rights. These rights may be different in each country within the European Economic Space.

