

INSTRUCTION MANUAL



CLASSIC JOËLETTE (SINGLE WHEEL)

JOËLETTE TWIN (DOUBLE WHEEL)

E-JOËLETTE (WITH ELECTRICAL ASSISTANCE)

« NEW GENERATION »



Joëlette and Co
by Ferriol-Matrat

www.joeletteandco.com/en



This manual MUST be given to the user of the product. BEFORE using this product, read this manual and save for future reference.

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INTRODUCTION

This user manual contains important information about the handling of the product. In order to ensure safety when using the product, read the user manual carefully and follow the safety instructions.

Note that there may be sections in this user manual, which are not relevant to your product, since this manual only applies to Joëlette commercialized from July 2016. Please ask Joëlette and Co to get the manual of a former version.

If you find that the font size in the print version of the user manual is difficult to read, you can download the pdf from the website www.joëletteandco.com. The pdf can then be scaled on screen to a font size that is more comfortable for you.

USABILITY

Only use the Joëlette when it is in perfect working order. Otherwise, you might put yourself and others at risk. The following list does not claim to be exhaustive. It is only intended to show some of the situations that could affect the usability of your Joëlette.

You should immediately stop using the Joëlette if its usability is restricted due to:

- Damage to the braking system
- Damage to the seat locking system (indexing finger)
- Damage to the electrical system (for the e-Joëlette with electrical assistance)
- Insufficient tire pressure
- Damage to the front arms
- Damage to the footrest
- Damage to the belt and holding system
- Cables that are damaged, kinked, pinched or have come loose from the fixation
- missing safety pins
- Unusual sounds developing or occurring

WARRANTY

The Joëlette comes with a 2 year warranty.

The Joëlette must be used in strict accordance with the intended use, maintenance and service requirements as set out in this document.

Risk of accident and loss of warranty if maintenance is insufficient (page 20)

For reasons of safety and in order to avoid accidents which result from unnoticed wear, it is important that the Joëlette undergoes a multiannual inspection and minimum once every year under normal operating conditions.

Under regular operating conditions, it would be expedient to carry out intermediate checks on the brakes, accessories and running gear.

THE CLASSIC ONE-WHEELED JOËLETTE

The hiking chair named "Joëlette" is an all-terrain one-wheeled chair that enables mobility-challenged people to get involved into hiking and running activities, even on the rockiest trails and roughest terrains.

Thanks to its unique wheel and suspension system, it enables the access to the roughest terrains so far inaccessible with a classic wheelchair both off and on the trail!

A back handle and a front pair of arms enables the two guides to handle it easily as the weight of the passenger lies on the wheel!

From leisurely walks to adventure races and even marathons, the Joëlette adapts to all outdoor activities. Only the physical capacity of the guides, runners or hikers, makes the limits of a Joëlette.

This user manual contains important information about the handling of the product. In order to ensure safety when using the product, read the user manual carefully and follow the safety instructions.

Damages and errors caused by non-observance of the user manual or as a result of incorrect maintenance are excluded from all guarantees. Do not attempt to perform any work or manipulations that are not described.

The use of the Joëlette is the sole responsibility of the guides.

The Joëlette complies with Directive 93/42/ECC on medical equipment.



✓ HOW TO OPERATE A JOËLETTE

In order to make sure that the passenger is in security, the guides should be in a good physical condition.

However, you needn't be a « professional » sportsman to operate it. The Joëlette can also be used for peaceful strolls and walks on easier paths.

Operating a Joëlette requires some technical skills and a little training in the beginning. For this reason, we suggest that you start using the Joëlette on easy terrain and then you can progressively increase the degree of difficulty.

✓ GENERAL INFORMATION

THE TEAM

Depending on the difficulty of the paths, the guides' experiences and the weight of the passenger, the number of guides varies from 2 to 5.

The « standard team » is composed of 3 guides. However, should the itinerary be easy to cross, the guides be experimented and the passenger be lightweight, two pilots may be sufficient.

Each guide has got a special function according to his position. It is essential that everyone fulfils his specific tasks in order to have a joyful and effective hike.

THE BACK GUIDE

The back guide is mostly responsible for maintaining the balance of the Joëlette. His main task is to make sure that the Joëlette is always balanced out, in both ways: from the back to the front and also laterally (right to left). He constantly pays attention to the balance and immediately intervenes and corrects.

The back guide also ensures that the passenger is comfortably seated. This means that he should be horizontally balanced with a slight decline to the back. This position is very comfortable for the passenger and shows that the Joëlette is well balanced.

Once the balance is established, the back guide adjusts the back arms to **the height of his waist**.



- A lower position would not be comfortable for the guide.



- A position higher than the waist would endanger the passenger's security since there is a risk of the Joëlette tipping forwards.



Setting of the back handlebar:

The front guide firmly holds the front arms. Should there be only two guides, the back guide holds the back rest with his right hand and sets the back handlebar with his left hand to the height of his waist.

In case of a change of terrain, the back guide must adjust the back handlebar.

Way down, he chooses a higher position, way up he does the opposite adjustment.

Way down, the back guide operates the brake (right handle).

Way up, if necessary, the back guide may push with the arms or even with his way due to the straps located on the back arms.

Caution: Adjust the back arms only when on halt, otherwise there is a risk of tipping forwards of the Joëlette. Be careful not to mix up the right handle (brake) with the left handle (adjustment of the back handlebar).

THE FRONT GUIDE

The front guide is responsible for the itinerary. He observes the terrain in front of him and decides which way to go. He pays attention to all obstacles and tries to avoid them. In order to bypass them, he keeps in mind that the wheel is more or less 1m behind him. If it is not possible to bypass the obstacle, he informs the passenger and the back guide.

The front guide is the “motor” of the Joëlette. He is the one responsible for the traction. The most efficient way to pull the Joëlette is by slightly leaning forward with the hands a little behind the back holding the back arms of the Joëlette. We also recommend using the traction harness as it allows the guide to be more efficient since he uses his whole body.

During traction, the front guide makes sure that he does not disturb the balance. Only in case of security needs or in order to support the back guide, he exceptionally intervenes.



THE THIRD GUIDE



passenger etc.

He takes over from another guide, should the other become tired.

He ensures the safe passage on difficult paths and terrain.

He helps traction of the Joëlette in front of the front guide with another harness fixed to the Joëlette's front arms. He can also help by being positioned sideways during difficult passages by pushing or pulling the vehicle at the armrests. (Beware of the lateral balance!)

Since he is not constantly involved, he can give support to the others whenever needed such as open or close gates, help the

THE PASSENGER

He is in the center of the Joëlette therefore he feels every move! He should tell the guides if he feels a lack of balance during the trip. Without balance, the passenger is not at ease, which should be corrected immediately by the guides.

It's not self-evident for a disabled person to agree using the Joëlette since he or she gives up his or her autonomy which one has in a usual wheelchair. His or her security and mobility depends entirely on the guides.



Even most heavily handicapped persons can use the Joëlette since there is the possibility to place seating systems on the Joëlette and to fix them behind the backrest. The backrest just needs to be in his most horizontal position.

Since there are several types of disabilities, the guides should prepare all necessary adaptations such as cushions, special foams beforehand in order to guarantee a maximum of comfort.

The Joëlette is conceived for passengers up to 120 kg. However, for security reasons, we suggest that the weight of the passenger should not go too far beyond the weight of the guide in the back (to be adjusted according to the capacities of the team and the difficulty of the itinerary).

KEY POINTS TO REMEMBER

The front guide tows the Joëlette

- ➔ He chooses the itinerary, avoids all obstacles, if possible. He communicates with the other guides in order to ensure security. He also anticipates possible problems which might occur and he does his best not to disturb the balance of the Joëlette.

The back guide is in charge of the balance

- ➔ He is responsible of the correct positioning of the Joëlette and makes sure that the Joëlette is horizontally balanced and that the weight of the passenger stays constantly on the wheel. When going downwards, he is in charge of the braking.

The third guide

- ➔ He supports and assists the other guides during difficult passages such as ascents. He also replaces the other guides in case of exhaustion. He supports the.

The guides keep the Joëlette in balance and tow or push it. They don't carry! Carrying the Joëlette by one guide is a sign of lack of balance.

The Joëlette is conceived in a way that once it is balanced out, the guides and the passenger are in a comfortable position. Always make sure that the balance is guaranteed!

✓ SPECIFIC TECHNICAL HANDLING

GOING UPWARDS

The **front guide** starts traction and makes sure that regarding the height of the front arms, the back guide can still keep the balance in a correct way.

The **3rd guide** helps towing the Joëlette in case of hard slopes by placing himself ahead of the front guide, using the strap which is supplied with the Joëlette. He fixes the strap at the end of each front arms of the Joëlette. The strap is around his waist and should be entirely under tension. In curves, he makes sure that his traction effort is in the same line as the Joëlette. Traction with this strap is especially efficient on slopes without many obstacles and without strong curves.



When he helps towing by placing himself laterally at the passenger's level and pulling the Joëlette with the armrests or the backrest handles, he has to make sure that his traction effort is orientated in the same direction as the front guide so as not to destabilize the balance given by the back guide.

If necessary, **the third guide** helps towing by placing himself laterally at the passenger's level and pulling the Joëlette with the armrests or the backrest handles, he has to make sure that his traction effort is orientated in the same direction as the front guide so as not to destabilize the balance given by the back guide.

Depending on the degree of slopes a fourth or fifth guide might be necessary.

If necessary, **the back guide** can also help by pushing the Joëlette with the help of the belly-band attached to both ends of the back handle. Caution: When pushing there is a danger of putting the front arms into a too high or too low position which could create a difficulty for the front guide.

GOING DOWNWARDS

In case of descent, **the back guide** uses the brake handle and pays special attention to the balance, in order to avoid any risk to fall over in front:

- He operates the brake very smoothly avoiding all brusque operations.
- He positions the back handle at the height of his waist.
- During long descents it is preferable to remove the belly-band of the back handle, thus allowing the back guide to position himself slightly in the midst of the bars.
- Make sure that the weight difference of the back guide and the passenger is not too large.

Going downwards, **the front guide** focuses on the itinerary and communicates closely with the back guide and follows his instructions.

He avoids holding back the Joëlette, since the back guide takes care of the braking.

He should not be too much in the midst of the front arms and be aware of the footrest behind him.

He never pushes down the front arms since otherwise the Joëlette might fall over forwards

- The higher the degree of the slope , the higher the front arms are positioned :



- In case of stronger slopes or important steps, the front arms may arrive above your shoulders. In this case the front guide turns towards the passenger and holds the front bars as highly as necessary and helps the other guides put the Joëlette on the floor :



- Should the Joëlette meet an obstacle during the slope, the front guide keeps the traction as before without pulling the front bars to the floor in order to avoid falling forward.

DIFFICULT TRAILS

In case of difficult obstacles (steps, bigger stones...):

- Keep communicating with each other in order to know where the other guides are located. Give a signal to each other before difficult



operations such as lifting the Joëlette together at the same time (usually the front guide).

- Pay attention to the footrest and the passenger's feet.
- The third guide may help the others by lifting the Joëlette at the arm rests, if necessary. He must be sure to lift or pull in the main direction as the other guides and be careful of not disturbing the balance.

Difficult crossing (small paths, important slopes etc...)

- It is important that the third guide (eventually the fourth, fifth...) stand on solid floor in order to ensure the passenger's security.
- If their position is not stable because of the consistency of the soil, they will build a chain of guides in front and behind and pass the Joëlette from one hand to the other and thus avoid the obstacle.

A fourth or a fifth guide might be necessary according to the difficulty of the paths.

Should the passenger not support any shakes, the guides make sure that the Joëlette will be put slowly on the floor. In case of stairways the guides hold back the Joëlette so that the descent is operated in a smooth way.

CURVES

- Avoid turning the Joëlette without a movement, and avoid quarter- and U-turns. However, should you not have any choice, give a signal to the back guide and turn slowly making sure that he has enough time to follow your movements.
- In narrow curves the front guide anticipates the position of the back guide and ensures that the latter will not get into an unstable position outside the path (trunks, undergrowth, etc.)
- In extremely narrow curves, the guides position themselves between the front and the back bars and possibly ask for help to other participants.

CROSS SLOPES

In cross slopes (lateral inclination of the terrain), the Joëlette should be held in its vertical balance, so that the passenger's weight stays entirely on the wheel. This allows having an optimum attachment to the ground.

These are the basic information concerning the Joëlette. Now, it is up to you to try the Joëlette beginning with easy terrain and then constantly you can find more difficult paths.

Keep in mind that the passenger's comfort and security are the main focus of all activities with the Joëlette!

✓ INSTALLATION OF THE PASSENGER ON THE JOËLETTE

TRANSFER

With the new generation model, the transfer of the passenger on the Joëlette is facilitated since the seat is at the standard height of wheelchairs.



Make sure that the Joëlette is in a stable position on its legs on a solid floor.

The front and back guides help the passenger to get installed in the seat. If necessary, a third guide places himself at the back of the Joëlette to ensure stability.

- Should the passenger be able to seat himself alone, he goes near the seat in between the front arms, turns around and sits down, avoiding stepping onto the foot rest since they are not conceived to hold the whole body-weight.

- It is also possible to remove one arm on order to make an autonomous lateral transfer from the wheelchair to the Joëlette.



- Should the passenger need help, the two guides who are standing laterally to the Joëlette lift him into the seat. Usually they take him under his shoulders holding the passenger's belt with one hand. With the other hand they hold the passenger's leg under the knees and lift him into the seat.

Should the passenger be in a specialized seating system, the cushions only need to be removed from the seat and the system be placed and fixed onto the Joëlette.

When lifting the passenger, be sure that you are in a stable position. Bend down your knees a little. Make sure the transfer is comfortable to the passenger. Otherwise, he knows best his handicap and he can tell you which way to proceed.

PASSENGER'S SECURITY AND SUPPORT



Before any departure, fasten the seat belt.

Passengers who lack tonicity at the chest level with or children may use the four point harness (in option).



Adjust the height of the footrest with the locking handle situated between the footrest.

Attach the passenger's foot to the footrest with the Velcro tape.





Adjust the inclination of the footrest with the 3mm Allen key.

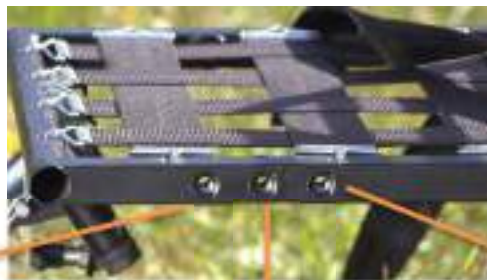
Adjust the headrest to the correct height (at the user's ears) using both handles. In the event of an incorrect position, a collision can lead to hyper-extension of the neck.



COMFORT

The comfort of the passenger is the main issue on each use of the Joëlette and should constantly be in focus of all action

- Regulate the foot rest and head set. The back rest also offers three different positions. Please note that the fixation of the backrest is made while unfolding the Joëlette.



Front position



Normal position



Rear position

- Make sure that the passenger's clothing is correctly arranged. (Often during transfer the clothing disarranges)

✓ START AND STOP

PLACING THE JOËLETTE ON ITS WHEEL

You can start the process of putting the Joëlette on its wheels when only the back and front supports are in contact with the floor.



- The front guide places himself inside the arms, in front of the passenger. Then, he grasps the indexing finger situated under the seat on the right hand side of the passenger and pulls it towards him to pivot it in a **vertical position**. Thus, the seat will be automatically locked before leaving.

- **If you miss this manipulation, it is compulsory to check that the indexing finger is in a vertical position before any departure.**

- The front guide places himself inside the arms, in front of the passenger and firmly holds the front arms.
- The back guide adjusts the handlebar on one of three upper holes of the adjustment system, so as to have his arm outstretched in the axis of the handlebar. Then, he actuates the brake.



- **He absolutely has to actuate the break until the Joëlette is on its wheel.**

- Then, the back guide topples his upper body backward and initiates a backward movement so that the wheel can enter in contact with the floor. Meanwhile, the front guide relieves the weight going towards the passenger until the seat gets locked.



- If necessary, it is possible to use the support point situated on the wheel axle which facilitates the process.



- The process is over when you can hear a “snap” which indicates that the seat is well locked.
- If necessary, check whether the indexing finger is on an upright position or actuate the brake softly to ensure the seat is locked.

Placing the Joëlette on its supports



Choose a flat and solid ground.

- The front guide places himself inside the arms, in front of the passenger. Then, he grasps the indexing finger situated under the seat on the right hand side of the passenger and pulls it towards him to pivot it in a **horizontal position**.
- The front guide stays inside the arms, facing the passenger and holds the two arms.
- The back guide adjusts the handlebar on the line of his outstretched arms and actuates the brake.

The back guide gives an impetus forward to begin the descent **and applies the brake until the end of the process**. The front guide holds the arms until the supports are in contact with the floor.



The passenger is in security, the guides can release the arms and handlebar while remaining vigilant.

Two main key rules to remember:

- To place the Joëlette on the wheel or on its supports: always maintain the brake actuated during the whole process.
- Before any departure: check that the indexing finger is on a vertical position

✓ SECURITY INSTRUCTIONS

CHOICE OF TRAILS

Before starting your hike with a Joëlette, you should have verified whether the itinerary is adapted to the Joëlette and the team. As a matter of fact, obstacles which are easily surmountable for a common hiker, may become technically difficult for the Joëlette and may be not be adapted to the Joëlette.

However, don't think that only constructed trails are convenient. On the contrary, most paths are accessible!

The best way to find out whether the Joëlette is adapted is to use a mountain bike on the trail. The Joëlette passes wherever a mountain bike can pass. Difficult trails with stones, tree trunks roots just demand a higher technical competence and physical fitness.

THE TEAM

- According to the difficulty of the trail, the experience of the team and the weight of the passenger, the number of guides varies between two and five. The standard team is composed of three guides.
- Make sure that all guides are physically able to operate the Joëlette.
- Don't underestimate that you need a certain level of fitness and technical skills.

PREPARING THE HIKE

- Check out the itinerary beforehand
- Choose the itinerary according to your physical capacity and technical skills
- Check whether the Joëlette is in a good state, especially in a mechanical way.
- Check the meteorological conditions beforehand. Don't use the Joëlette during thunderstorms. The metal construction may provoke a bolt of lightning. Please note also that a path may become extremely difficult during times of rain.
- Inform your entourage about your itinerary.

INSURANCE

Each guide must have a liability insurance to handle the Joëlette. The use of the Joëlette usually does not require a specific insurance but must be declared to your insurance company.

It is your responsibility to check with your insurance company requires if a specific insurance is necessary in your country for the use of the Joëlette.

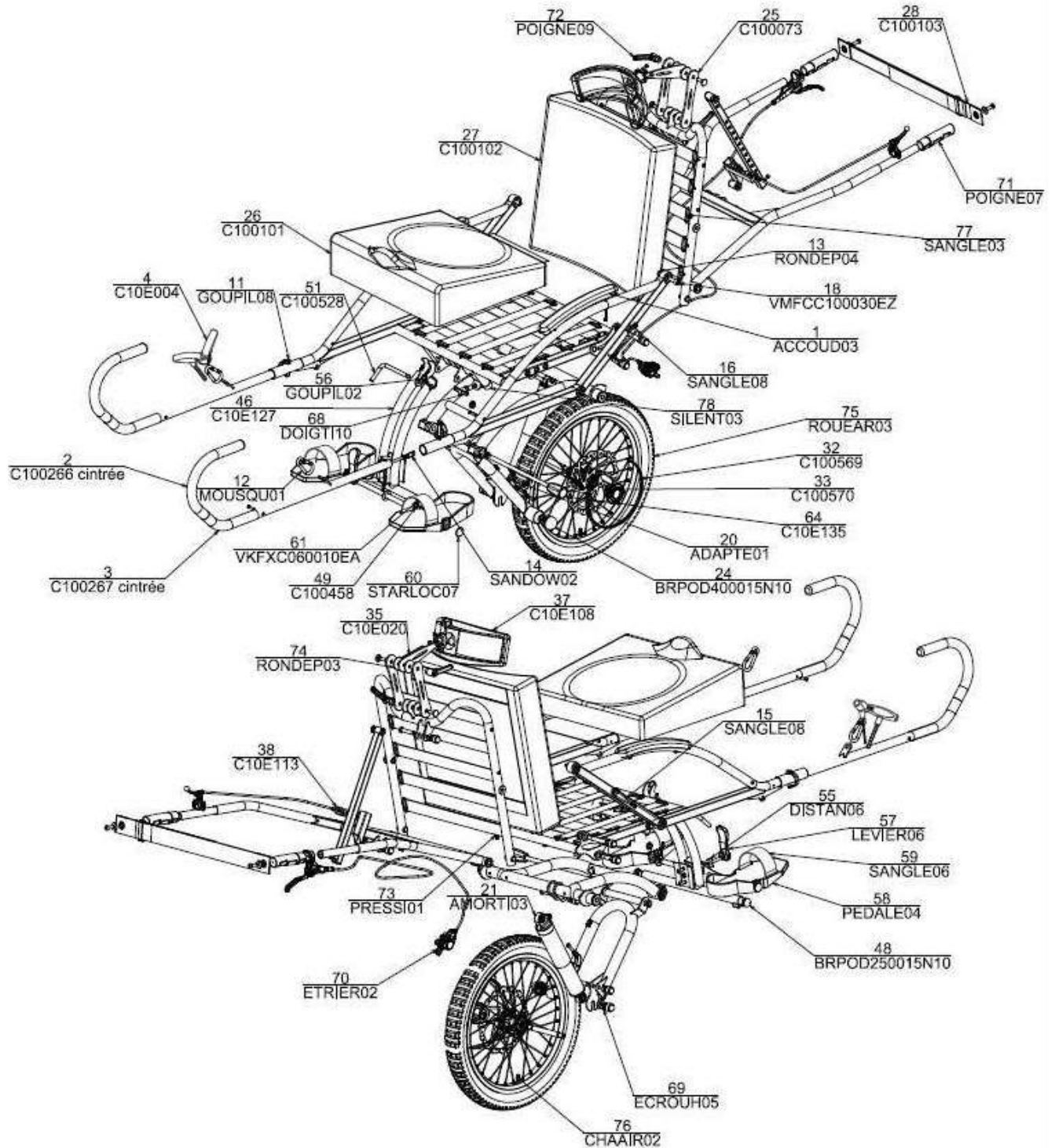
« RUCKSACK »

- Items which are in general useful during hikes. (Cards, first aid kit, cell phone etc.)
- Repair kit, exchange harness etc.
- Keep in mind that the passenger does not move and risks to get cold. Arrange for having warm clothes, caps, gloves etc... An umbrella, poncho and even a blanket could be helpful.

DURING THE HIKE

- A mountain bike helmet for the passenger.
- Adapted footwear for the guides.
- Make sure that the front arms well fixed, especially before difficult itineraries. Check the brakes before going downwards.
- Permanently keep the Joëlette in balance no matter which kind of terrain you are walking on.
- The back arms should not be higher or lower than your waist.
- Don't continue when you are tired. Keep in mind your physical capacities should be sufficient.
- Don't walk to fast. You need to know where the wheel is, where you put your feet and don't glide.
- Don't forget to communicate among each other, especially when the terrain is difficult.
- Beware of too big knapsacks which could get tangled up with the front arms.
- Pay attention to the passenger, especially when it is cold outside.
- Never leave a Joëlette and the passenger unattended when the Joëlette is on its stands.
- Keep in mind: usually, one doesn't fall on difficult terrain but during the quiet moments when everyone loses concentration.
- Keep in mind: usually, one doesn't fall on difficult terrain but during the quiet moments when everyone loses concentration.

✓ EXPLODED VIEW OF THE CLASSIC SINGLE-WHEEL JOËLETTE



JOËLETTE TWIN (DOUBLE-WHEEL)

✓ INTRODUCTION

Firstly, all driving, starting, maintenance and service instructions for the single-wheel Joëlette (pages 4 to 19) also apply to the Joëlette Twin.

The double-wheel Joëlette TWIN opens up access to moderate-difficulty hiking trails by freeing you of much of the constraints tied to keeping balance.

The pantograph, a patented trim correction system, enables to reduce obstacles like holes, bumps, roots and slight cross-slopes. A removable third jockey wheel brings extra balance.

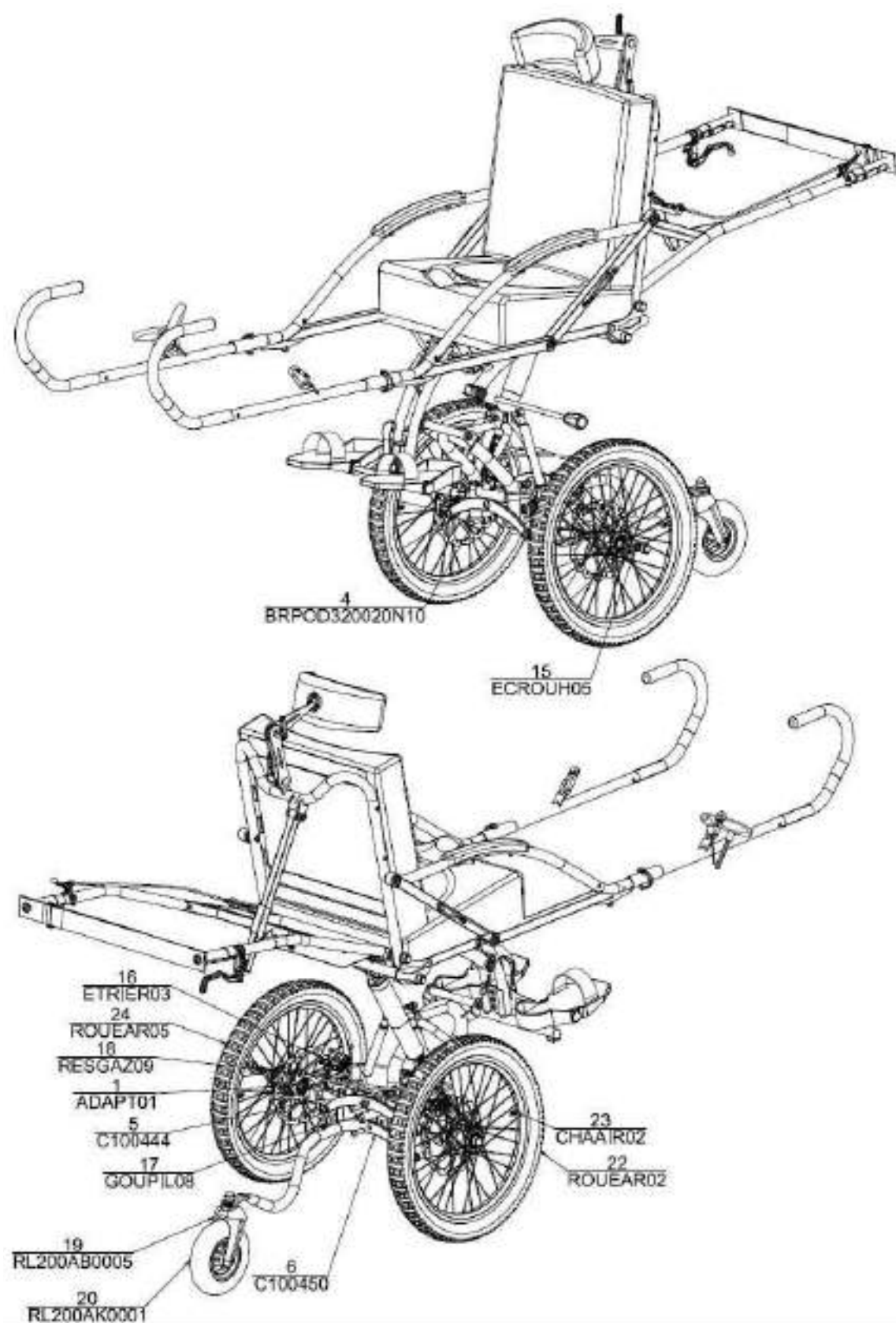
The Joëlette TWIN is ideal for the practice of road racing and hiking on rather flat terrains with less relief.

The two wheels ensure the lateral balance and the actuators compensate the uneven terrain for optimal comfort.

✓ SPECIFIC INSTRUCTIONS

For the Joëlette TWIN, use rolling paths with little slope and avoid uneven terrain.

✓ EXPLODED VIEW OF THE JOËLETTE TWIN



E-JOËLETTE (WITH ELECTRICAL ASSISTANCE)

✓ INTRODUCTION

Firstly, all driving, starting, maintenance and service instructions for the single-wheel Joëlette (pages 4 to 19) also apply to the e-Joëlette.

The e-Joëlette provides electrical-powered mobility aide enabling the passenger to partner friends and family on effort-free hikes.

The built-in accelerator offers progressive acceleration climbing up to a top speed of 6 km/h.

Enables you to hike battery-powered for between 3 and 5 hours depending on the climb. Furthermore, the system switches automatically to freewheel whenever the electrical power delivery is off.

The e-Joëlette features motorized spoked wheel with disc brake, brake caliper plus bracket, accelerator, controller, battery pack and battery charger.

✓ BATTERY OPERATING MANUAL

For optimum use, care and storage of this battery, it is essential that you read and carefully follow the instructions in this manual.

General operating instructions and recommendations

- Never short-circuit the charge or discharge of the battery terminals.
- Never reverse the direction of charge of the battery.
- Keep the battery away from excessive heat sources and flames.
- Never immerse the battery in water.
- To avoid damage to the battery, never subject it to severe physical shock or vibration or severe impact.
- Protect the battery from water and moisture. Protect the battery charging and discharge terminals from rain and water impregnated elements.
- For charging, the outdoor temperature must be between 5°C and 35°C.
- In discharge, the outside temperature must be between -10°C and 40°C.
- Do not leave the battery within reach of children.
- When the battery is not in use for a long period of time, it is best to remove it from its location and store it indoors.
- If you need information about this battery and its use, please contact our sales department.
- It is strictly forbidden to open the battery container or to disassemble the battery elements yourself.
- In the event of a sudden shock to the Joëlette, the battery can be put in safety for a fraction of seconds. To restart the assistance, simply reset the system by turning the battery ON/OFF on and off.

If you do not comply with all of the above instructions and recommendations, you will be responsible for any damage caused to this battery and will not benefit from any warranty.

Battery characteristics

The BOX PANASONIC Lithium-ion battery has a high energy density, high charge capacity with high ratio, long life cycle, low self-discharge rate, no memory effect and, when it is normally recycled, no pollution.

Dimensions without mounting rail



Dimensions with mounting rail



Voltage	36V
Capacity	14,5 Ah
Manufacturer	PANASONIC
Technology	Lithium Ion MnCoO ₂
Weight battery only	3,2Kg
Weight with mounting rail	0,5Kg
Rated load current rating	2A
Max. load current	4A
Nominal discharge current	25A
Max. discharge current (5s)	30A
Temperature range for charging	0°C to 50°C
Temperature range for discharge	-20°C to 60°C
Temperature range for storage	0°C to 50°C
Charging connector	Jack 2,5mm
Discharge connector	Anderson Powerpole

Battery connection

Charge

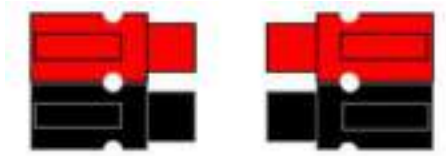


Discharge



How to use the battery

Connect the red and black Anderson plug of the battery to the red and black Anderson plug of the controller, the red one facing the red one and the black one facing the black one (as below).



Range Gauge: to display the range gauge, simply press the button below the gauge.



There are 4 LEDs: 1 red and 3 green.

When your battery is fully charged, the 4 LEDs will light up. As it empties, the green LEDs will turn off.

- less than 10% capacity: red LED flashes.
- 10% -35% capacity: red LED on
- 35% to 65% capacity: Green LED on and red LED on
- 65% to 85% capacity: two green LEDs on and the red one on.
- Capacity between 85% and 100%: three green LEDs on and the red one on.

Damage, total destruction or explosion of the battery (causing damage to property and/or personal injury) may result from misuse such as:

- use of excessively high charge or discharge currents;
- storage in extreme temperatures (below -5°C and above 35°C);
- immersion in water and fire;
- long-term storage (more than 3 months) without recharging or use.
- storage of the battery when it is discharged.
- a short circuit between the positive and negative terminals of the battery.
- washing with water jet or high pressure cleaner

How to charge the battery

1. Disconnect the battery from the controller or remove it from its holder
2. Connect the battery to the charger, make sure that the charger output socket and battery charge socket are firmly connected.

3. Plug the charger input jack into the wall outlet. The charger indicator light will turn on and turn red. It will turn green when the battery is fully charged (if your charger has 2 red lights, only one light will turn green, the 2^o will stay red). When the battery is fully charged, unplug the charger from the wall outlet before disconnecting it from the battery.

Caution: To avoid electric arcs, always connect the charger to the battery before connecting it to an electrical outlet.

Tips for charging your battery

- Once the charger indicator light has turned green, it is preferable to wait about 30 minutes before disconnecting the charger before unplugging it, so that the cell balancing phase can be carried out correctly.
- Charge the battery for 2 hours at least once every 2 months.
- Charge your battery in a dry, ventilated room or outdoors at temperatures between 5°C and 35°C.
- Connect the charger to the battery first and then plug the charger into an electrical outlet.
- When the battery is fully charged, unplug the mains plug first and then disconnect the charger from the battery.
- Wait 10 minutes after prolonged use before charging the battery.

Storage, maintenance and transport

If the battery needs to be stored for a relatively long period of time, it is preferable that its charge level be approximately 50%. If not, charge for 3 hours after use and store in a dry, ventilated area. The battery needs to be charged between 2 and 3 hours every two months.

Both the battery and charger must be stored in a clean, dry and ventilated place. They must not come into contact with corrosive products and must not be in the vicinity of excessive heat sources and flames.

It is imperative to maintain a temperature between 0 ~ 35°C and humidity conditions between 5 ~ 65% RH in the place where the battery is stored.

During transport, the battery must be carefully packed in its box. It must be protected from intense physical shocks, strong vibrations, impacts, exposure to direct rays and objects impregnated with water. Transport can be carried out by car, train, boat or plane (except in the USA for air transport).

When storing, the charger must be disconnected from the battery.

It is imperative to maintain a temperature between 0 ~ 35°C and humidity conditions between 5 ~ 65% RH in the place where the charger is stored.

During transport, the loader must be carefully packed in its box. It must be protected from intense physical shocks, strong vibrations, impacts, exposure to direct rays and objects impregnated with water.

✓ CHARGER OPERATING INSTRUCTIONS

General operating instructions and recommendations



Non-contractual picture

- Do not place anything on the charger.
- Do not allow any liquid or metal objects to enter the charger.
- Never disassemble the charger.
- Never connect or disconnect the charger with wet hands.
- Do not connect the charger during stormy weather.
- Use only the charger supplied with the battery. Charging the battery with other unsuitable chargers is strictly forbidden.
- Do not handle the battery or charger while charging the battery.
- Do not use the charger in a wet place.
- Avoid exposing the charger to direct sunlight.
- When the charger is in operation, be sure to maintain good ventilation of the area.

Operating instructions

If your battery is equipped with an ON/OFF switch: Set the switch to the OFF position and disconnect the battery from the Joëlette.

- Connect the charger to your battery with the JACK connector.



- Connect the charger to a 220V mains socket with the following connector:



- Both LEDs light red during charging; once the battery is fully charged, one LED will stay red and the other will light green.
- It is advisable to wait about 30 minutes after the green light comes on for the cell balancing phase to be carried out correctly.
- Disconnect the charger from the 220V mains socket.
- Disconnect the battery from the charger.

✓ SAFETY INFORMATION ON THE ELECTRICAL SYSTEM



WARNING!

Risk of damage or injury if mobility device is accidentally set into motion— Switch the e-Joëlette off before you get in, get out or handle unwieldy objects.



WARNING!

Risk of death, serious injury or damage

- Misuse of the e-Joëlette may cause the mobility device to start smoking, sparking, or burning. Death, serious injury, or damage may occur due to fire.
- DO NOT use the e-Joëlette other than its intended purpose.
- If the mobility device starts smoking, sparking, or burning, discontinue using the mobility device and seek service IMMEDIATELY.



CAUTION!

Risk of fire or breaking down due to electric devices being connected

- Do not connect any electric devices to your e-Joëlette that are not expressly certified by the manufacturer.



DANGER !

Risk of death, serious injury, or damage

Corroded electrical components due to water or liquid exposure can result in death, serious injury, or damage.

- Minimize exposure of electrical components to water and/or liquids.
- Electrical components damaged by corrosion MUST be replaced immediately.



WARNING!

Risk of death or serious injury

Failure to observe these warnings can cause an electrical short resulting in death, serious injury, or damage to the electrical system.



Do not open the battery

- Replace cable(s) immediately if cable(s) insulation becomes damaged.



Electric shock can cause death or serious injury

- To avoid electric shock, inspect plug and cord for cuts and/or frayed wires. Replace cut cords or frayed wires immediately.

A failure in the electric system can lead to unusual behaviour such as continuous light, no light, or noises from the magnetic brakes.

- If a failure exists, switch off the remote and switch it on again.
- If a failure still exists, then disconnect or remove the power source.



DANGER!

Risk of death, serious injury, or damage

Malfunctioning accelerator could cause unintended/erratic movement resulting in death, serious injury, or damage

- If unintended/erratic movement occurs, stop using the wheelchair immediately and contact the manufacturer



WARNING!

Risk of breaking down in adverse weather conditions, i.e. extreme cold, in an isolated area

- If you are a user with severely limited mobility, we advise that in the case of adverse weather conditions DO NOT attempt a journey without an accompanying attendant.

Safety information on electromagnetic interference

Electromagnetic fields, such as those generated by radio and television transmitters, and cellular phones can influence the functions of electric vehicles. Also, the electronics used in our vehicles can generate a low level of electromagnetic interference, which however will remain within the tolerance permitted by law. For these reasons we ask you to please observe the following precautions:



WARNING!

Risk of malfunction due to electromagnetic interference

- Do not switch on or operate portable transceivers or communication devices (such as radio transceivers or cellular phones) when the vehicle is switched on.
- Avoid getting near strong radio and television transmitters.
- In case the vehicle should be set in motion unintentionally or the brakes are released, switch it off immediately.
- Adding electrical accessories and other components or modifying the vehicle in any way can make it susceptible to electromagnetic interference. Keep in mind that there is no sure way to determine the effect such modifications will have on the overall immunity of the electronic system.
- Report all occurrences of unintentional movement of the vehicle, or release of the electric brakes to the manufacturer.

✓ SAFETY INFORMATION WITH REGARD TO CARE AND MAINTENANCE



Risk of death, serious injury, or damage

Incorrect repair and/or servicing of this mobility device performed by users/caregivers or unqualified technicians can result in death, serious injury, or damage.

– DO NOT attempt to carry out maintenance work that is not described in this user manual. Such repair and/or service MUST be performed by a qualified technician.

Control protection system

The wheelchair controls system is fitted with an overload protection.

If the drive is severely overloaded over a long period of time (for example, when driving up a steep hill) and especially when the ambient temperature is high, the controls system could overheat. In this case, the wheelchair performance is gradually reduced until it comes to a halt.

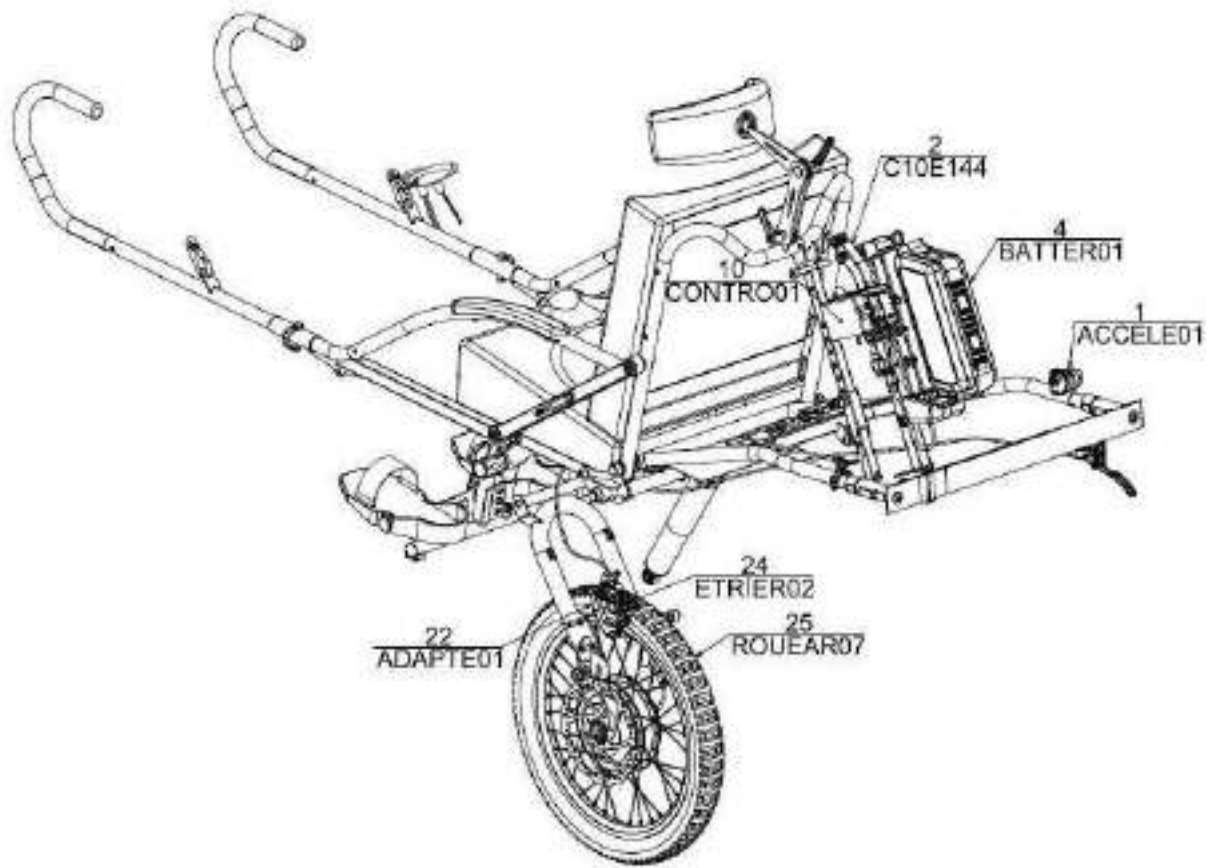
Switch the power supply off and back on again. It can however take up to five minutes until the controls system has cooled down enough for the drive to restore full performance again.

If the drive is stalled by an insurmountable obstacle, for example, a curb or similar which is too high, and the driver attempts driving for more than 20 seconds against this obstacle, the controls system automatically switches off to prevent the motors from being damaged

Switch off and back on again and bypass the obstacle.

A defective main fuse may be replaced only after checking the entire controls system.

✓ EXPLODED VIEW OF THE E-JOËLETTE



MAINTENANCE

✓ MAINTENANCE

The term “Maintenance” means any task performed to ensure that the Joëlette is in good working order and ready for use as intended. Maintenance encompasses different areas, such as everyday care and cleaning, inspection checks, repair tasks and refurbishment.

At least once a year, you should check all technical issues of the Joëlette no matter the frequency of its utilization. When using the Joëlette regularly more than once a week, a second check-up is indispensable.

The maintenance is about the same as for a mountain bike.

You should verify:

- The air pressure of the tires.
- The braking system, in particular the state of the brake pads.
- The presence of security pins
- Check the level of oil in the hydraulic system. If necessary, we can provide you a purging kit or you can contact a specialized professional.

You will also find in the package red or black plastic shims which you might want to insert between the two brake pads in case of dismounting of the wheel.

We recommend that there is always an anti-puncture tire sealant available. (Repair kit)

A bike/motorcycle repairman or a bike/motorcycle rental shop could carry out the maintenance

✓ CLEANING

When cleaning the Joëlette, pay attention to the following points:

- Only use a damp cloth and gentle detergent.
- Do not use any abrasive or scouring agents.
- Do not subject the electronic components to any direct contact with water.
- Do not use any high-pressure cleaning devices.

✓ DISINFECTION

Spray or wipe disinfection using a tested and recognized product is permitted. A list of the current permitted disinfectants is available from the Robert Koch Institute at <http://www.rki.de>.

✓ INSPECTION CHECKS

The following table lists inspection checks that should be performed by the user and their intervals.

→ Before each use of the Joëlette

ITEM	INSPECTION CHECK	If inspection is not passed
Seat locking system (indexing finger)	Make sure that the index finger movement is free without jamming and that the seat is locked properly. To test this, brake while pushing on the handlebars.	Contact us
	Make sure that the indexing finger is tight on the seat.	Tighten the indexing finger using 12- and 19-plate wrenches
Battery(e-Joëlette)	Make sure the battery is charged. You will find an indication of the state of charge on the top of the battery	Charge the battery
Tires	Check that the tires are undamaged.	Contact us or contact a cycle equipment shop.
	Check that the tires are inflated to the correct pressure.	Inflate the tire to the correct pressure (see chapter “Technical data”) To repair the inner tube, contact us or contact a cycle equipment shop.
Presence of pins and safety pins	Make sure that each pin (swing arm/frame/front foot/seat) is present in its holder and secured by the beta pin. In addition, also check the presence of the safety pins on the front arms.	Contact us
Belt and passenger straps. Additional traction harness and strap.	Make sure that the locking buckle fulfils its purpose perfectly. Check that the seams or lashing karabiners are not damaged.	Contact us

→ Regularly

ITEM	INSPECTION CHECK	If inspection is not passed
All upholstered parts	Check for damage and wear, particularly on the seat cushion holding pressures, as well as the Velcro strap that holds the backrest against the frame.	Contact us
Brakes	Make sure that the brake pad wear level is not excessive.	Contact us or contact a cycle equipment shop.
	Check that the brake fluid level in the master cylinder is sufficient.	Contact a cycle equipment shop.

✓ LONG-TERM STORAGE

In case your Joëlette is not used for a longer period of time, you need to prepare it for storage to ensure a longer life for your battery (e-Joëlette).

We recommend to store the Joëlette at a temperature of 15° C, avoid hot and cold extremes when storing to ensure a long service life of the product and batteries.

The components are tested and approved for greater temperature ranges as detailed below:

- Allowable temperature range to store the Joëlette is -40° up to 65° C.
- Allowable temperature range to store batteries is -0° up to 50° C.

Even not being used, batteries discharge themselves. Best practice is to disconnect the battery supply from the power module if storing the mobility device longer than two weeks.

Batteries should always be fully charged before storing.

If storing the battery longer than four weeks, check it once a month and recharge as needed (before gauge reads half full) to avoid damage

Store in a dry, well-ventilated environment protected from outer influences.

Slightly overinflate pneumatic tires.

AFTER USE

✓ DISPOSAL

- The equipment wrapping is potentially recyclable.
- The metal parts are used for scrap metal recycling.
- The plastic parts are used for plastic recycling.
- Electric components and printed circuit boards are disposed of as electronic scrap.
- Exhausted or damaged batteries can be returned to waste management companies, ask your city or district council for details of the local
- Disposal must be carried out in accordance with the respective national legal provisions

TECHNICAL DATA

The technical information provided hereafter applies to a standard configuration of the Joëlette, Joëlette TWIN and e-Joëlette or represents maximum achievable values.

These can change if accessories are added. The precise changes to these values are detailed in the sections for the respective accessories.

Note that in some cases the measured values may vary up to ± 10 mm.

Permissible operating and storage conditions	
Temperature range for operation	. -25° ... +50 °C
Recommended storage temperature:	. 15°C
Temperature range for storage	0° ... +50 °C with batteries -40° ... +65 °C without batteries

Electrical system	
Motor	. 1 x 250 W open, motor-driven
Battery	. 1 x 36 V/ 14.5 Ah/ Lithium Ion MnCoO2
Main fuse	. Mini fuse 30A
Charge fuse	. Mini fuse 15A

Degree of protection	. IP64
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Charging device	
Output current	. 2 A
Max Output current	. 4 A
Output voltage	. 36 V

Drive wheel tires	
Tire type	. 20" x 2.25"
Tire pressure	The recommended maximum tire pressure in bar or kpa is marked on the side wall of the tire. If more than one value is listed, the lower one in the corresponding units applies.

Jockey wheel (Twin)	
Tire type	. 190mm x51mm (190x51-4)

Driving characteristics	
Speed	. Maxi 6 km/h in electrical assistance (e-Joëlette)
Braking system	. 1m (at 6km/h) (e-Joëlette)
Autonomy	. Between 3 to 5h (e-Joëlette)

Dimensions			
	Classic (without headrest)	TWIN (without headrest)	e-Joëlette (without headrest)
Total height	. 1222mm	. 1226mm	. 1222mm
Total width	. 637mm	. 632mm	. 637mm
Total length	. 2400mm	. 2400mm	. 2400mm
Seat height (in use)	. 792mm	. 796mm	. 792mm

Seat height (not in use)	. 503mm	. 503mm	. 503mm
Seat width	. 477mm	. 477mm	. 477mm
Seat depth	. 382mm	. 382mm	. 382mm
Min. seat thickness	. 71mm	. 71mm	. 71mm
Backrest height	. 481mm	. 481mm	. 481mm
Min. backrest thickness	. 55mm	. 55mm	. 55mm
Backrest angle	. 89.5/99/110.5°	. 89.5/99/110.5°	. 89.5/99/110.5°
Seat angle	. 8°	. 8°	. 8°
Armrest height	. 171mm	. 171mm	. 171mm
Armrest length	. 305mm	. 305mm	. 305mm
Distance footrest - seat	. from 450mm to 200mm	. from 450mm to 200mm	. from 450mm to 200mm
Ground clearance	. 288mm	. 288mm (with jockey) . 153mm (without jockey)	. 288mm
Storage dimensions	. 970(L) x 637(l) x 512(h)	.1168(L) x 637(l) x 743(h)	. 970(L) x 637(l) x 512(h)

Weight			
	Classic (without headrest)	TWIN (without headrest)	e-Joëlette (without headrest)
Weight	27 kg	35 kg	28 kg

Charge			
	Classic (without headrest)	TWIN (without headrest)	e-Joëlette (without headrest)
Charge maxi	110Kg	110Kg	110Kg

FOLDING/UNFOLDING THE JOËLETTE



1- Remove the belt and clear the headrest



2- Remove the pin and security pin from their place and rotate the wheel



3- Place the pin again in its axle and put the security pin back



4- Remove the security pin and pull the axle out of its compartment



5- Lower the footrest to the maximum with the handle



6- Place the foot within the notches while pressing the tubes so as to facilitate the insertion



7- Put the axle back in its compartment and lock it. Then, put the security pin back.



8- Place the indexing finger in a horizontal position



9- Swing the Joëlette tu put it on its supports



10- Unfold the backrest with the little handle until the wheel gets in contact with the floor



11- Screw the armrest on the backrest with the Allen key



12- Do the same for the seat and tighten the screws. Proceed the same way on the second arm.



13- Place the cushion on the seat



14- Place it under the seat and press the stud



15- Place the cushion on the backrest en passant la doublure en tissu derrière le dossier et le maintenir à l'aide du scratch.



16- Unfold the arms and fit the two parts



17- Lock the arms with the safety pin



18- Your Joëlette is ready to be used !

To fold the Joëlette back, proceed the other way round.

A video is available on our website www.joëletteandco.com
And our You Tube channel <https://www.youtube.com/user/FerriolMatrat42>

PLACING THE JOËLETTE INSIDE THE STORAGE BAG



1 - Place the frame inside the bag



2 - Put one arm on each side of the frame



3- Place the footrest at the level of the head- hugger



4 - Put the cushioned seat below the wheel and the seat-back cushion above the wheel



5 - Close the bag with the cord



Joëlette and Co
by Ferriol-Matrat



CE – DECLARATION DE CONFORMITE

CE – DECLARATION OF CONFORMITY

Ce certificate concerne les produits

This is to certify that the products

Joëlette

Joëlette TWIN

e-Joëlette

Fabriqués par / **manufactured by**

FERRIOL-MATRAT
ZI CHARLES CHANA
3 RUE DE LA GALERIE
42230 ROCHE LA MOLIERE - FRANCE

Sont conformes à la directive 93/42/CEE (classe 1) du Conseil relative aux dispositifs médicaux et aux exigences de la norme NS-EN 12182 : 2012

Are conform to the Requirements of Council Directive 93/42/EEC relating to Medical Devices Class 1 Product and the requirements of the standard NS-EN EN12182:2012

Date d'émission / Issue date

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by Ferriol-Matrat

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