

User guide



F4 / N3

Please read this guide carefully before using the quadriporteur/triporteur.

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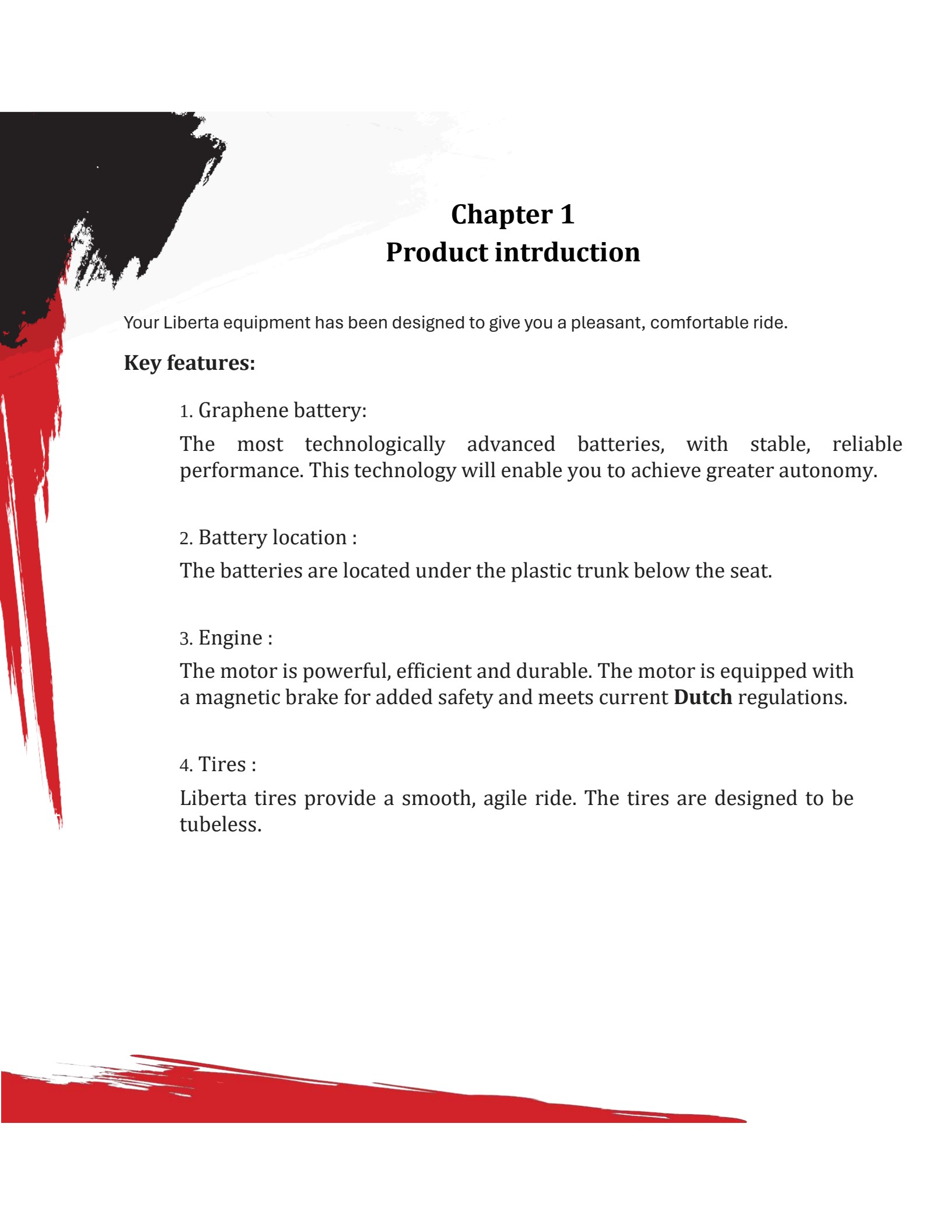
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Chapter 1

Product introduction

Your Liberta equipment has been designed to give you a pleasant, comfortable ride.

Key features:

1. Graphene battery:

The most technologically advanced batteries, with stable, reliable performance. This technology will enable you to achieve greater autonomy.

2. Battery location :

The batteries are located under the plastic trunk below the seat.

3. Engine :

The motor is powerful, efficient and durable. The motor is equipped with a magnetic brake for added safety and meets current **Dutch** regulations.

4. Tires :

Liberta tires provide a smooth, agile ride. The tires are designed to be tubeless.

5. Frame :

The Frame design is built to allow greater rigidity, agility and safety.

6. Disc brakes:

The F4 and N3 are equipped with front hydraulic disc brakes. This will enable you to brake efficiently with great precision.

7. Steering :

Precise steering means greater safety.

8. Acceleration grip:

The use of soft rubber injection molding provides added comfort for your hands.

9. Seat:

Our high-back seats: highly elastic foam, superior anti-slipcover material, elaborate design and polished appearance, will make your long journeys more comfortable.

10. Smart charger:

Your Liberta equipment comes with an intelligent charger. When the charger is plugged in and the indicator light is red, the batteries are being charged. When the light turns green, the batteries are fully charged, and the charger can be disconnected. Note that it is important to disconnect the charger when charging is complete. A charger connected for a long period of time could damage your batteries, reducing their longevity.

11. Controller

The controller is programmed for a safe, gradual start. The speed limit corresponds to current legislation.



1. Rearview mirror
2. Headlight
3. Front turn signal
4. Tires
5. Aluminum rim
6. Front disc brake
7. Throttle

8. Brake handle
9. Ignition key
10. Armrest
11. Rear trunk
12. Rear light
13. Auxiliary wheel
14. Charging port

Chapter 2

Main technical parameters

I. Main technical parameters of your equipment:

1. Product size : 1550 x 7100 x 1170 mm
2. Wheelbase: 1050 mm
3. Height: 1170 mm
4. Weight: 120 kgs
5. Tire specifications: 300-8 / 300-10 tubeless pneumatic.
6. Maximum load: 150 kgs
7. Maximum design speed: ≤ 32 km/h
8. Range: 40 ~ 60 km
9. Maximum climb: ≤ 18
10. Brake type: front disc brake + rear drum brake + magnetic motor brake.

II. Main technical parameters of the battery :

1. Battery type: Graphene batteries
2. Capacity: 30 AH/ 20 hrs
3. Nominal voltage: 60V

III. Main technical parameters of the motor :

1. Motor: brushless DC motor with magnetic brake.
2. Rated power: 650W / 800W

IV. Main technical parameters of the charger :

1. Voltage: Input 100VAC -- 50/60HZ, Output 60VDC 3AH
2. Charging time (remaining power if any): 6 ~ 8 h

Note : the above setting are subject to change without notice

Chapter 3

Method of use and points to note

I. Precaution for safe driving

1. Respect the rules of the road, safety, speed control, safety speed.
2. Before driving, first familiarize yourself with the contents of this guide, then find a space free of obstacles, make sure you have completely mastered the essential elements of driving the vehicle, familiarize yourself with the different surfaces, this is the basis of safe driving.
3. Do not drive with only one hand. Drunk driving is very dangerous and forbidden.
4. Rain or snow can make the road slippery and dangerous!
That's why we need to slow down. Brake in advance for slippery roads to avoid accidents.
5. Correct helmet use: Helmets must be securely fastened and of the correct size. It is important that the helmet is certified according to current regulations.
6. Recommended clothing: Wear tight-fitting clothing while being able to move freely, wear low shoes.
7. Cargo must not be too heavy: the default maximum load is 150kg, including passenger and trunk contents.

II. The correct method of use :

1. The driving method:

1. Keep your natural posture.
2. Turn the throttle slowly to avoid a quick start and keep control of the equipment.
3. Slow down on roads with damaged or slippery pavement to avoid loss of control.
4. Brake earlier on damaged or slippery roads to prevent accidents.

2. How to park:

1. Park in a safe or designated area.
2. After stopping, apply the parking brake and turn off the ignition using the ignition key.
3. Park your vehicle in a cool, dry place away from the elements.

3. Power supply display instructions:

Turn on the ignition using the ignition key, the battery charge status is indicated on the left of the dial. Note that you must charge your batteries immediately when your indicator flashes red.

4. Using the electric lock:

Turn the key clockwise to start the engine. Switch off the power supply after parking, by turning it counter-clockwise.

5. Throttle:

Turn the handle backwards to accelerate and forwards to decelerate.

6. Brake use and adjustment:

1. Rear brake adjustment

- a. Rear brake adjustment: You need to adjust the nuts located on the brake cables at the rear of your equipment.
- b. Front brakes: Replace brake pads when worn.
- c. The right braking method: Brake gradually and appropriately to avoid collisions and premature wear.
- d. Magnetic braking: When driving above 25km/h, release the gas pedal slowly. It is not advisable to release the gas pedal rapidly above 25km/h, as this could damage electrical components unless an emergency requires it.
- e. Hydraulic disc brake: Add Dot 3 hydraulic oil to the reservoir as required. An oil change should be made every 2 years.

2. Issues requiring special attention

- a. Avoid touching the brake discs with your hands, as this may reduce operating efficiency.
- b. It's best not to pour water on the new brake, to prevent a small amount of lubricating oil in the assembly from polluting the brake pads.

7. Using the charger:

1. Method of use

1. When charging, first insert the charger plug into your equipment, then plug into the AC110V wall socket. When the battery is fully charged, disconnect the charger completely.
2. Charging = charger indicator is red. Fully charged = charger indicator is green.
3. The charger must be disconnected when the batteries are fully charged. A charger connected for too long could damage your batteries and shorten their life.
4. High charger temperature: If the LED is red and flashing, the charger is in temperature protection mode. Please place the charger in a cool, ventilated place for use, when the charger's internal temperature is below 60°C = the charger will operate normally.

2. Issues requiring special attention

3. The charger may only be used indoors in a dry place.
4. It is strictly forbidden to use a charger in an enclosed space or in the hot sun. This could damage your equipment.
5. Use a dust-tight container to store your charger when you're out and about, to prevent dust or water from entering your charger and damaging it. Remove the charger from the container before use. The charger must not be used in an enclosed space.
6. Do not connect the charger to the 110VAC power supply for long periods without charging. To avoid any risk of damaging your charger.
7. During the charging process: Unplug the charger if you notice a flashing red light, an abnormal smell or the charger case overheating. Contact your dealer.
8. The correct charger must be used at all times. Contact your retailer for more information.
9. Do not use in a combustible gas environment, as this may cause fire or explosion.

7. Use and questions requiring the attention of your batteries:

1. Charging

1. Make sure you use the right charger for your equipment; the wrong charger can shorten battery life or lead to battery failure!
2. Make sure that no conductive parts come into contact with the negative and positive poles of a battery.
3. Equipment that has been idle for more than a month could see its battery discharged by 5%. Charging before use is recommended.
4. Please follow the manufacturer's recommendations to extend the life of your batteries.
5. During the charging process, the charger may be hot, as long as the temperature does not exceed 60 °C.
6. Charge your batteries in an appropriate place. The charger and equipment must be in a stable, dry, non-flammable, non-explosive place, out of the reach of children.
7. Avoid interrupting a charge.

2. Discharge (Use)

1. Do not use Liberta batteries for any other purpose, as this will invalidate the warranty.
2. In the event of a short-circuit, a circuit-breaker will prevent any risk of fire. It is located on the underside of the seat. It is recommended to close the circuit breaker during prolonged downtime.
3. The ignition key must be turned off whenever the vehicle is not in use. An open ignition key at all times will significantly reduce the range of your equipment.
4. Battery operating temperature range: -10 °C ~ 55 °C. A low temperature will reduce your equipment's autonomy.

3. Storage

1. Storage: During storage (longer than one month), we recommend that you fully charge the batteries. Then charge every three months thereafter
2. The battery should be kept in a cool, dry environment.
3. We recommend closing the circuit-breaker after charging, during the storage period.
4. Do not use the battery near a heat source.
5. Disassembly is not recommended.
6. Do not modify battery connections.

4. Notes

1. If you notice any deformation or overheating of the battery, stop using it and contact your Liberta Canada dealer.
2. In the event of fire, use an appropriate fire extinguisher.
3. Do not dispose of batteries in the trash. Batteries must be returned to a designated collection point.

III. Inspection, cleaning and maintenance:

1.Regular or daily inspection:

1. Inspect, clean and maintain the vehicle in a safe place.
2. Braking: Check that when you apply the brake levers, the feel should be firm and the levers should not be able to go to the bottom.
3. Tires: Replace your tires, if you observe any cracks, damage, abnormal tire wear, as well as any objects embedded in your tires. Make sure you adjust your tires to the correct pressure. The maximum pressure is marked on the tire sidewall.
4. Steering: Check for abnormal play and unusual noise in the steering. Check that the steering turns freely on both sides.
5. Visual check: check for missing bolts or oil leaks.
6. Blow out your equipment. Do not use water to wash equipment.

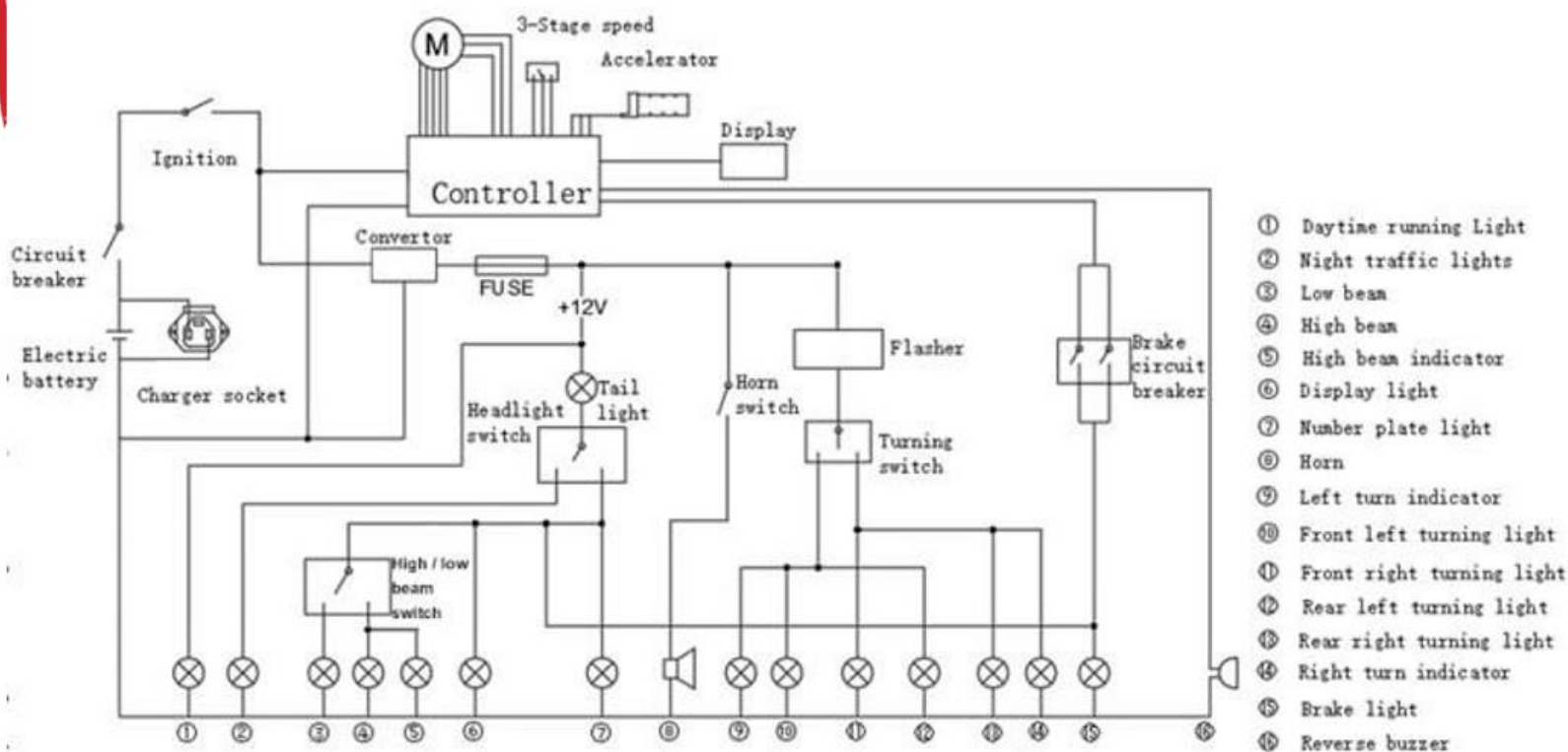
IV. Troubleshooting guide :

		Cause	Solution
1	Reduced maximum speed	-Battery voltage too low; Throttle does not turn freely.	-Recharge or replace your batteries; Replace the accelerator handle
2	Motor power supply not working	-Battery connection loose; -Accelerator handle partially engaged; -Brake levers slightly depressed.	-Tighten or replace battery connections; -Maintenance; Adjust.
3	Loss of autonomy	-Low tire pressure; -Incomplete charging or charger failure; -Old or damaged batteries; -Abnormal road conditions.	-Check tire pressure; -Fully charge batteries or replace charger; -Replace batteries; Temperature, flat ground, hard surface.
4	Charger not working	-Plug and connector loose; -Main circuit breaker closed; Damaged or corroded wires.	-Check plug and connector; -Turn on circuit breaker; Repair damaged wires and connections.
5	Other	-Unable to determine fault	Liberta Canada Distributor Locator

Chapter 4

Electrical principal

- | | | | |
|---|----------------------------|---|-----------------------------|
| ① | Daytim running light | ⑨ | Left turn signal |
| ② | Night signal lights | ⑩ | Left front cornering light |
| ③ | Low bearn | ⑪ | Right front cornering light |
| ④ | High beam | ⑫ | Left rear bend light |
| ⑤ | High bearn indicator | ⑬ | Right rear bend light |
| ⑥ | Display light | ⑭ | Right turn signal |
| ⑦ | License plate illumination | ⑮ | Brake light |
| ⑧ | Horn | ⑯ | Reverse warning |





Chapter 5

Quality assurance and after-sales service

Quality assurance and after-sales service are a priority at Liberta Canada.

We aim to offer:

- High availability of parts;
- Product quality;
- Proactive and dynamic team;
- Superior technical service.

1. Warranty against manufacturing defects:

Liberta Canada offers a limited warranty, including parts and in-store labor, for 12 months from date of invoice against manufacturing defects on equipment and six months on batteries. The warranty is not transferable.

2. The warranty does not cover

1. Abusive or inappropriate use as stipulated in the user guide.
2. Any modification automatically revokes the warranty on the equipment and batteries. The equipment must be kept in its original condition.
3. Any breakage caused by an accident.
4. Worn

3. Description of switch and components



1. Flashing
2. Green button - Open lights (high)
3. Green button - Close lights (high)



1. Hold to move backwards
2. Green button - Open lights
3. Green button - Close lights
4. Choice of speeds

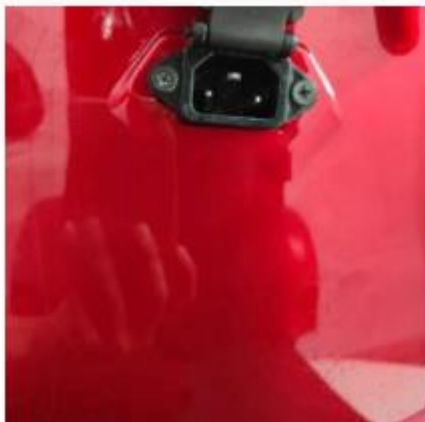
L = low speed

M = medium speed

H = high speed



1. starter



1. Port de charge



1. Seat tub



- 1. locking
- 2. OFF
- 3. OFF



- 1. Lock
- 2. Unlocking key
- 3. Start button (press 2 times continuously)
- 4. Key search

OPTION 1



1. Battery level in %
2. Number of kilometers traveled for the current trip
3. Speed in km
4. Total km travelled
5. Entertainment system volume
6. Entertainment mode used
Bluetooth, radio or USB key
7. Ready to go
8. Turn signals or hazard lights
9. Power selection (3 modes)

OPTION 2



1. First gear

2. Second gear

3. Third gear

4. Engine indicator

5. Accelerator handle

6. Controller problem

7. Brake in operation

8. Speed

9. Indicator

10. Ready to move

11. High beam

12. Battery level

13. Battery voltage

14. Mileage

15. Cruise control

Maintenance file

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