

**EV4**

**OWNERS**

**MANUAL**

**EV4 SEMI-RECUMBENT**

AERO-SERVICE Jacek Skopiński

Dereniowa 4/69

02-776 Warsaw

POLAND

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**Warning!** Please read this manual before first use and observe safety regulations first. To ensure proper operation of the vehicle for a long time, follow the maintenance instructions carefully.

If you are left with any questions after reading this manual, AERO-SERVICE will gladly answer them.

## 1. PRELIMINARY INFORMATION

### 1.1. Content and addressees of this manual



This technical publication is a manual for EV4 SEMI-RECUMBENT manufactured by AERO-SERVICE.

The manual refers to „main application of the device”, together with all the technical information about exploitation, assembly and maintenance of the device. This manual is addressed to all users of the EV4 SEMI-RECUMBENT.




In case of loss or a case where it will no longer be usable it is recommended to order a copy of the manual from the producer.



**The manufacturer reserves the right to these materials and intellectual property rights and prohibits, even in part, copying and/or disclosure of the content of the documentation without the manufacturer's permission.**

### 1.2. Symbols

To ensure safety of the users, and to avoid any interference in operation, safety instructions must be followed. These symbols will help you achieve that:

SYMBOL	MEANING	DESCRIPTION
	Danger	This symbol indicates situations of grave danger, neglect of which can seriously jeopardize the risk of loss of health and safety of persons.
	Danger	This symbol indicates serious electrical hazards which may negatively impact health or even cause death.
	Warning	This symbol indicates the need for warning or attention to key functions or important information.

### 1.3. Cooperation with the user of EV4

The manual reflects the equipment and the technical condition of the machine at the time of commissioning. Any change in this manual will result in the shipment of a copy of the manufacturer's new instruction to each customer and such documentation should be stored with this manual.

## 1.4. Compliance with safety requirements

AERO-SERVICE declares with all responsibility, that the product is compliant with following standards:

- PN-EN ISO - 12100:2012 Safety of machines -- General design principles -- Risk assessment and risk reduction.

**EV4 SEMI-RECUMBENT** meets the requirements of the following European Directives:

- The Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 concerning machinery and certain parts of machinery.
- Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.

The devices have been CE marked and have been issued a declaration of conformity for them - due to the requirements set out in the above directives.

Nameplate attached to the device:



## 2. Vehicle description

### 2.1. Manufacturer contact details:

AERO-SERVICE Jacek Skopiński

Dereniowa 4/69

02-776 Warsaw, Poland

Tel. +48 603 397 810

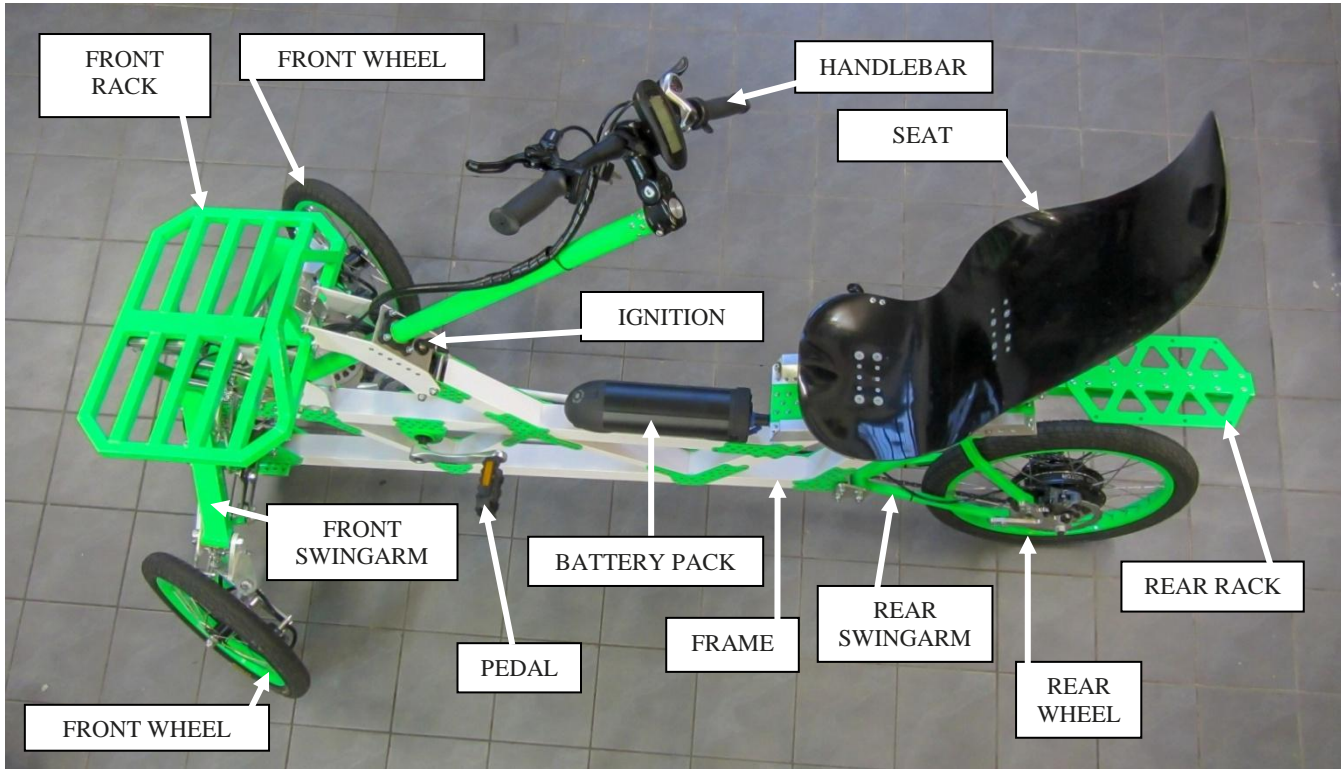
e-mail. ev4@ev4.pl

### 2.2. General description

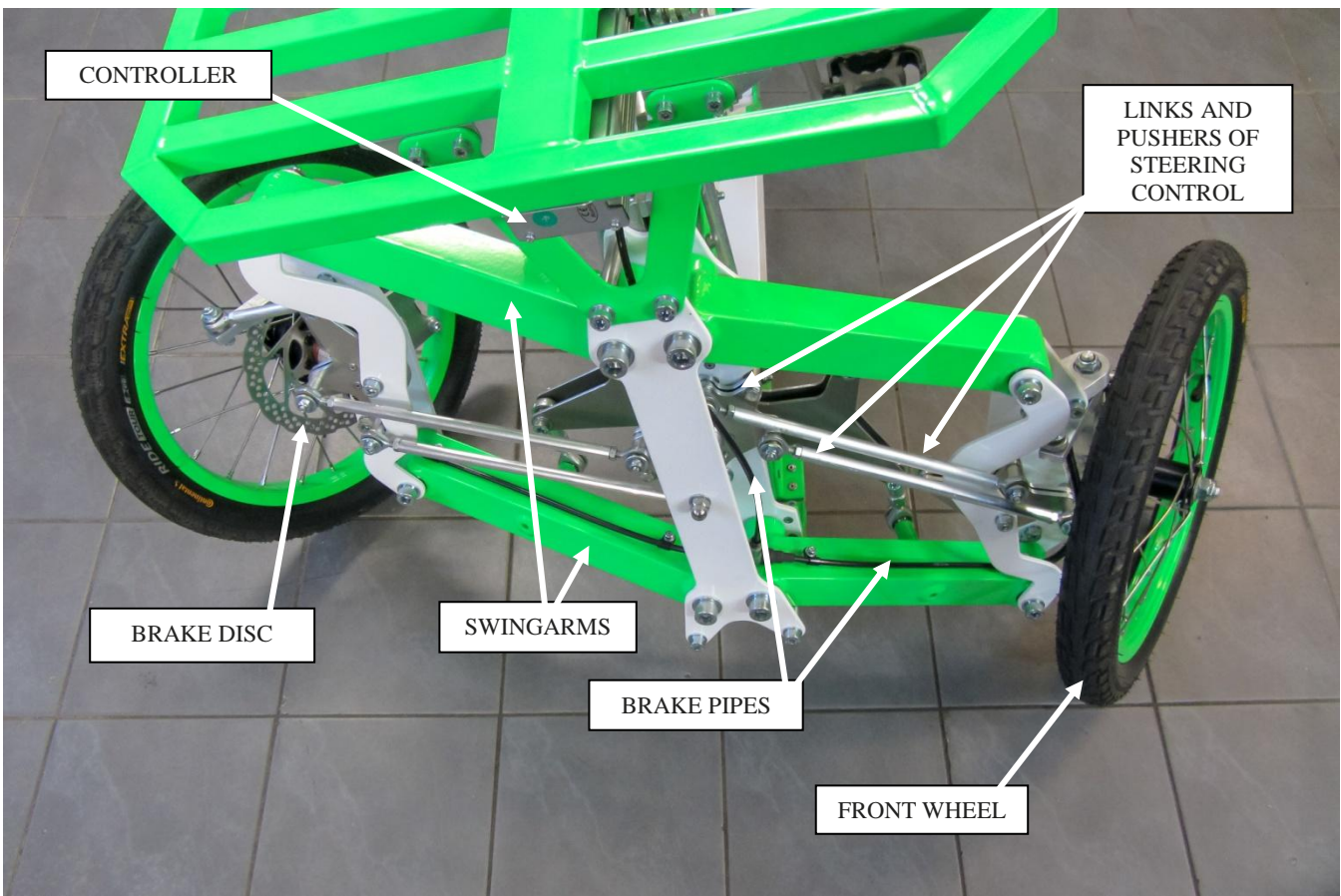
The vehicle has an adaptive suspension that adapts to the shape or inclination of the terrain and allows the vehicle to tilt in the bend so as to eliminate the effect of the centrifugal force. The vehicle is used to transport people.



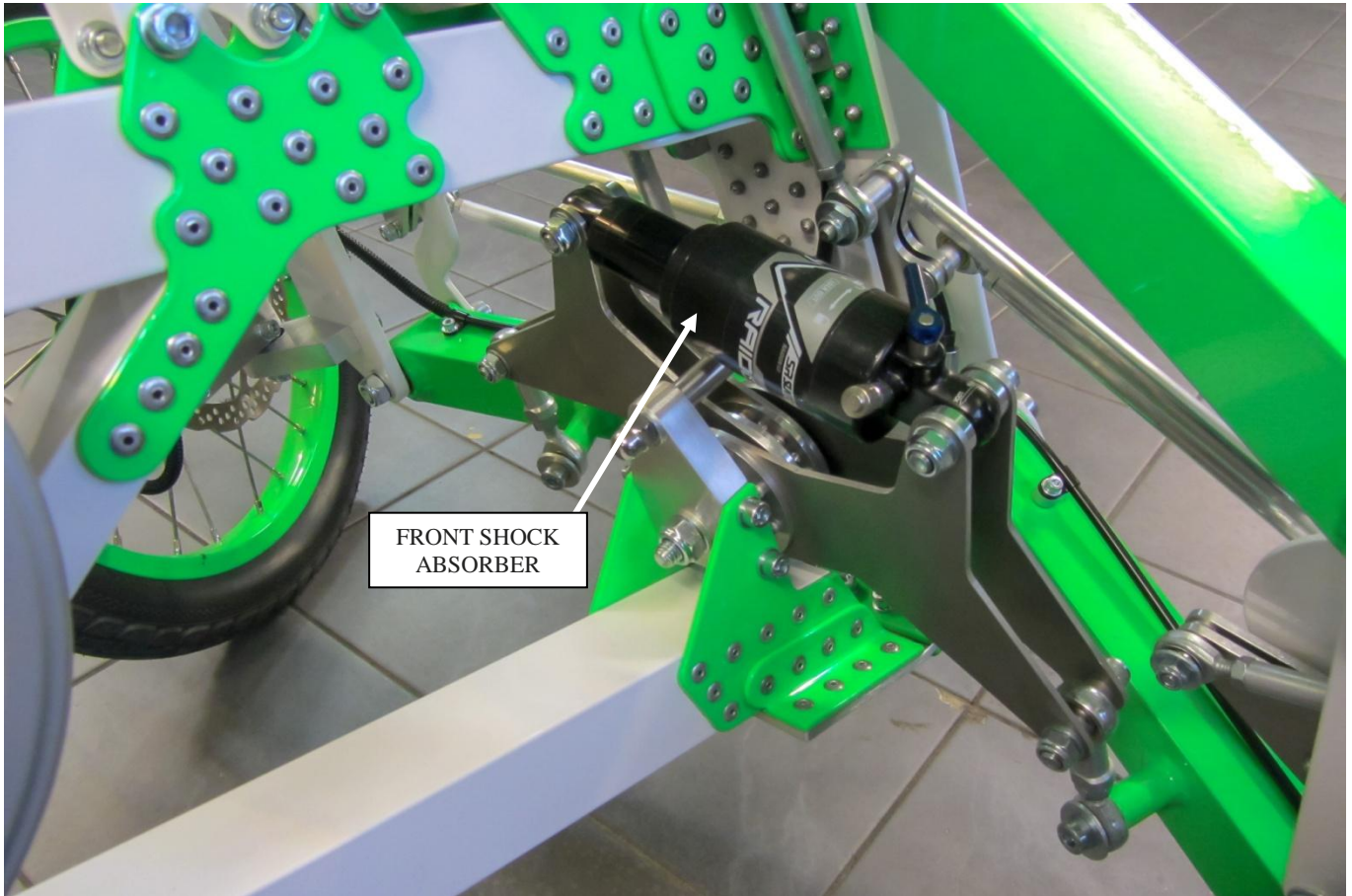
**Diag. 1 EV4 SEMI-RECUMBENT**



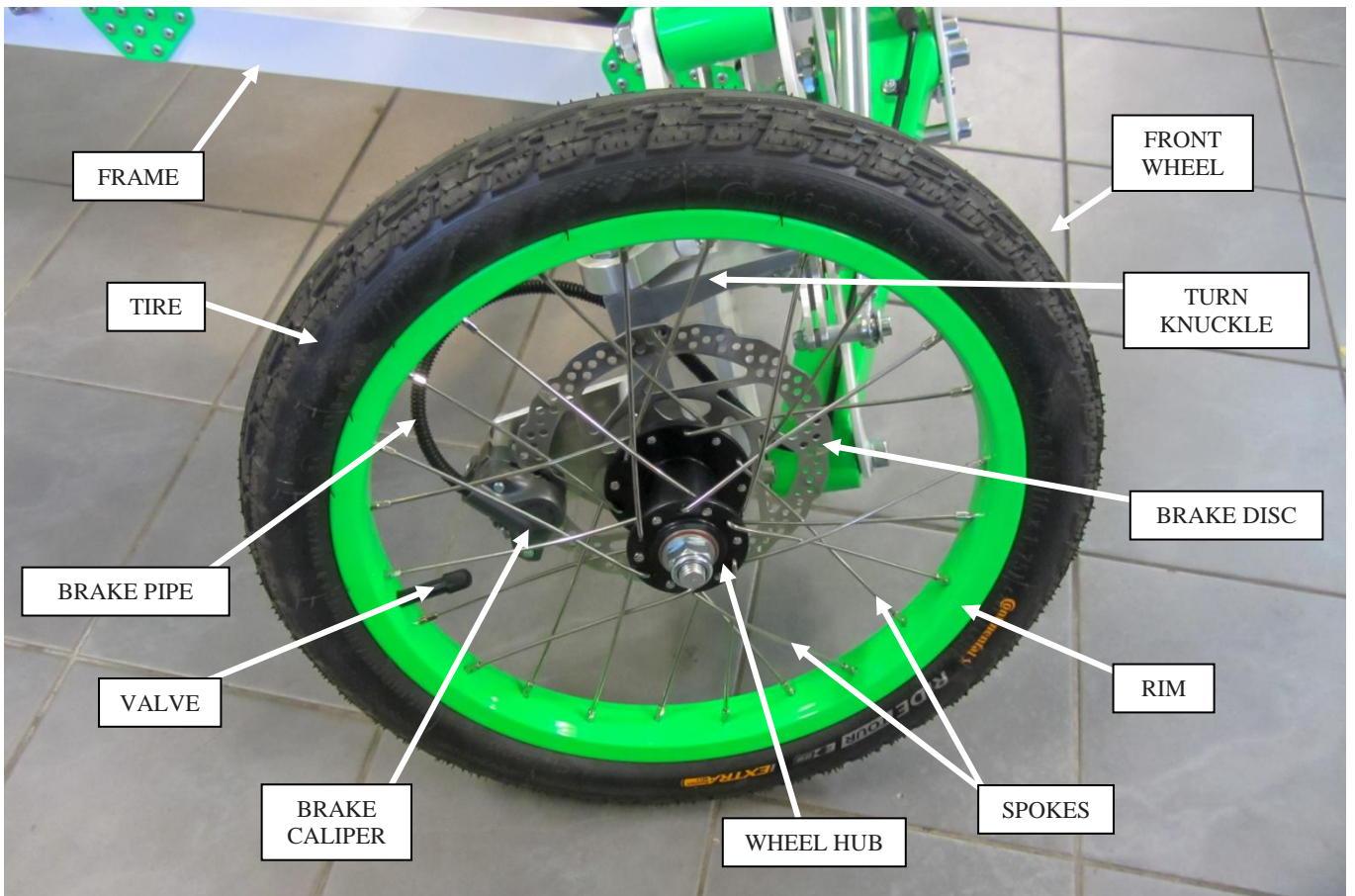
**Diag. 2 MAIN PARTS**



**Diag. 3 MAIN PARTS**

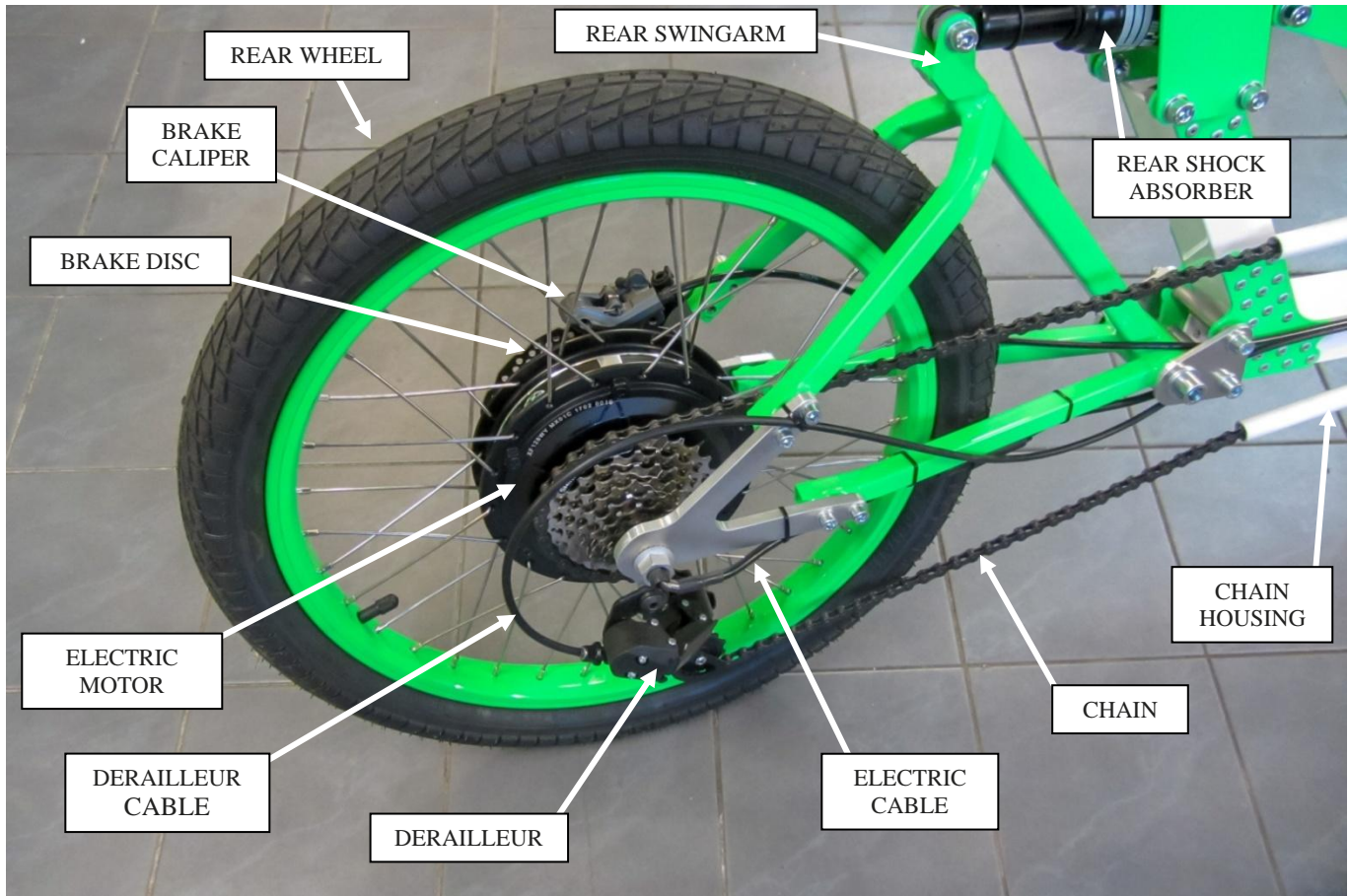


**Diag. 4 MAIN PARTS**



**Diag. 5 MAIN PARTS**





**Diag. 6 MAIN PARTS**

### 3. Proper use



The vehicle can only be used to transport people over 18 years of age. The weight of the person and the baggage must not exceed 100 kg. The front luggage compartment is designed to carry luggage of a maximum weight of 20 kg. The rear luggage compartment is designed to carry luggage of a maximum weight of 10 kg.



**WARNING! It is forbidden to use the vehicle contrary to its purpose.**

Use for other purposes is not allowed. Proper use also includes all activities related to the correct and safe operation and maintenance of the EV4. Accordingly, the user is obliged to:

- read the manual and adhere to its recommendations and warnings;
- understand how the machine operates and maintain safety;
- avoid accidents.

## 4. Warnings for unauthorised use



**WARNING! The manufacturer is not responsible for the consequences of improper use.**

- EV4 SEMI-RECUMBENT is a power assisted bicycle with power up to 250 W and speeds up to 25 km/h. According with European traffic laws you can travel on public roads, except for highways, expressways and banned places. If in doubt, please contact us. Customers outside of Europe please check your local traffic laws.
- Incorrect use of EV4 may cause personal injury. Use protective clothing such as suitable footwear, gloves, helmet, knee pads, elbow pads, safety goggles, etc.
- Be very cautious when using this product on: unhardened, wet, slippery and uneven surfaces.
- It is forbidden to drive under the influence of alcohol, intoxicants, narcotics, and drugs which don't allow driving vehicles.
- EV4 is an electric vehicle, so using it in rain or in humid conditions is not recommended. Driving into puddles should be avoided.
- It is prohibited to: pour water onto the EV4, store it in rain, wash it and clean it under running water. Removing dirt is possible using a damp cloth.
- This product is not recommended for users under the age of 16.
- Persons using the vehicle must have the ability to maintain balance while driving as they would on a two-wheeled vehicle such as a bicycle, scooter or motorbike. They should also have the appropriate height so that when using the vehicle they can support their foot during the stop. They must be people who have good eyesight, reflexes, and are able to make quick decisions.
- The vehicle owner is fully responsible for any damages resulting from the use of the EV4
- EV4 is not designed for extreme driving. It is forbidden to perform jumps and other dangerous evolutions. You cannot speed it up and stop too fast.
- Speed must be adapted to field conditions. Longer braking distances should be considered for slippery surfaces.
- Overload: do not overload the vehicle's power package and overload the vehicle itself. The weight of the driver along with the luggage must not exceed 100 kg. Overload and excessive load can damage the vehicle and the power unit.
- Driving at the same time is only permitted by one person. Driving in two or more is prohibited.
- Before each use of the vehicle, the driver is obliged to inspect the technical condition of the vehicle. Make sure all components are in place, no screws and nuts missing. Check the front and rear brakes.

## 5. Residual risk



Residual risk is risk that still remains after all precautions have been taken.

When observing such recommendations as:

- read the manual carefully;
- do not place hands in between moving parts ;
- do not make any modification or repairs to the electrical parts of the vehicle;
- do not operate the vehicle without reading the manual first,
- secure the EV4 from persons unauthorized to operate it,

Residual risk can be eliminated without endangering people and the environment. There is a residual risk in case of non-compliance with the specified recommendations and guidelines.

## 6. Technical information

Main technical information is shown in the table below.

TECHNICAL INFORMATION	
INPUT VOLTAGE	110-240 V
OUTPUT VOLTAGE	37 V
FREQUENCY	50-60 Hz
MAXIMUM POWER OUTPUT	250 W
WEIGHT	47 KG

## 7. Putting to use

### 7.1. Minimal requirements for vehicle operation



EV4 is an electric vehicle, so using it in rain or in humid conditions is not recommended. Driving into puddles should be avoided. It is prohibited to: pour water onto the EV4, store it in rain, wash it and clean it under running water. Storage and use temperatures must be between +1 and +40 degrees Celsius.

### 7.2. Before use



Take special care when starting up the machine; check all safety and security functions. Remember to read this manual carefully and first observe safety regulations.

**Check before use:**

- ✓ Tire pressure,
- ✓ Shock absorber pressure.
- ✓ Battery charge.
- ✓ Chain tension.
- ✓ Check for suspension malfunctions.
- ✓ Check for steering control malfunctions.
- ✓ Check for brake system malfunctions.

## 8. Operator requirements

The person selected and authorized to operate and maintain EV4 must have the appropriate knowledge. Service work may only be performed by persons who have manual skills and are familiar with the operating instructions. To properly handle EV4 the user must:

- Know how to use and seek information in this document;
- Know how the EV4 functions;
- Have a medical condition consistent with the certificate given by a physician,
- Have at least 18 years of age;
- Be mentally and physically fit;
- The person selected and authorized to operate and maintain EV4 must have the appropriate knowledge.
- The weight of the driver with the luggage must not exceed 100 kg. Overloading can damage the vehicle and drive train.
- Recognize abnormalities in functioning and, if necessary, take necessary measures to remove them.
- Persons using the vehicle must have the ability to maintain balance while driving as they would on a two-wheeled vehicle such as a bicycle, scooter or motorbike. They should also have the appropriate height so that when using the vehicle they can support their foot during the stop. They must be people who have good eyesight, reflexes, and can make quick decisions.

## **9. Use of Personal Protective Equipment**

To avoid injury when using EV4, wear protective equipment. Equipment includes bicycle helmet, knee and elbow pads. Protective gloves are recommended during repairs and maintenance.

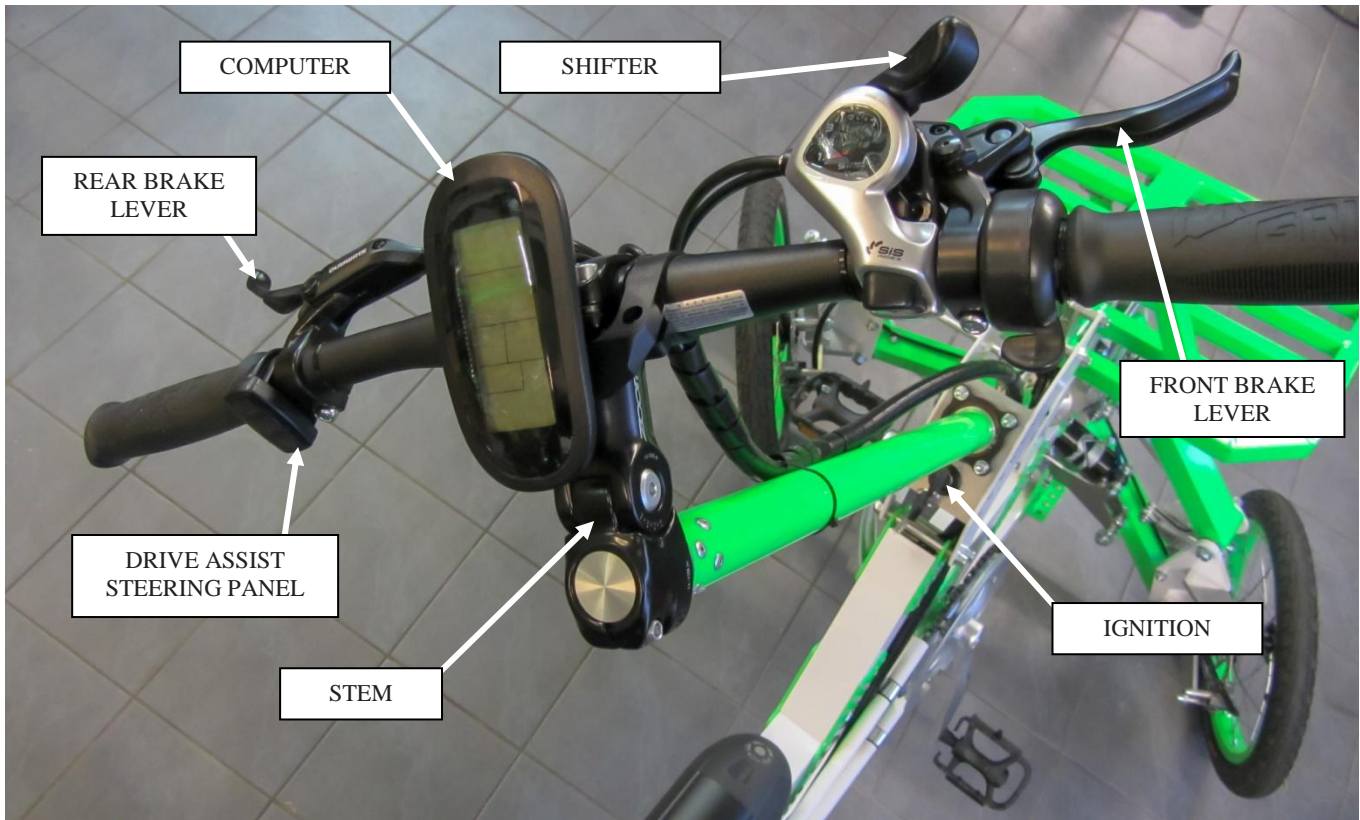
## **10. Use**

### **10.1. How to operate the EV4**

When driving on the EV4 SEMI-RECUMBENT, sit on the seat; hold your hands on the steering wheel, feet when stopped on the ground and while driving on pedals. Keep your hands and feet away from all the mechanical components of the vehicle such as steering suspension or drive system. Do not touch: vehicle mechanisms drive system and vehicle suspension during operation. Before using the EV4 SEMI-RECUMBENT for the first time, charge the battery to 100%.

You should push your foot slightly off the ground while pressing down with the other foot on the pedal. You need to move from 1st gear. When you start pedalling, the engine starts to assist if the ASSIST level is greater than 0. As the speed increases, you can change gears to higher if the terrain allows it. Shift upwards by pressing the blue derailleur button and down with the black derailleur lever. Both activities are done with the thumb of your right hand. You can change the power of the push button up or down on the control panel while driving. The equilibrium should be kept in the same way as in two-wheeled vehicles. Twisting is done by simultaneous body balance and steering turn. The vehicle stops after the pedalling has been stopped and the right and left levers of the brake are pressed simultaneously, ensuring that the wheels are not locked. This may cause loss of steer ability, balance and tipping. When stopping in the final phase, you should support with your foot.

The maximum tilting of the vehicle while making a turn is 30 degrees. Increasing the tilting of the vehicle beyond 30 degrees may cause the suspension to fall against the limiter and consequently damage the vehicle and lead to imbalance.



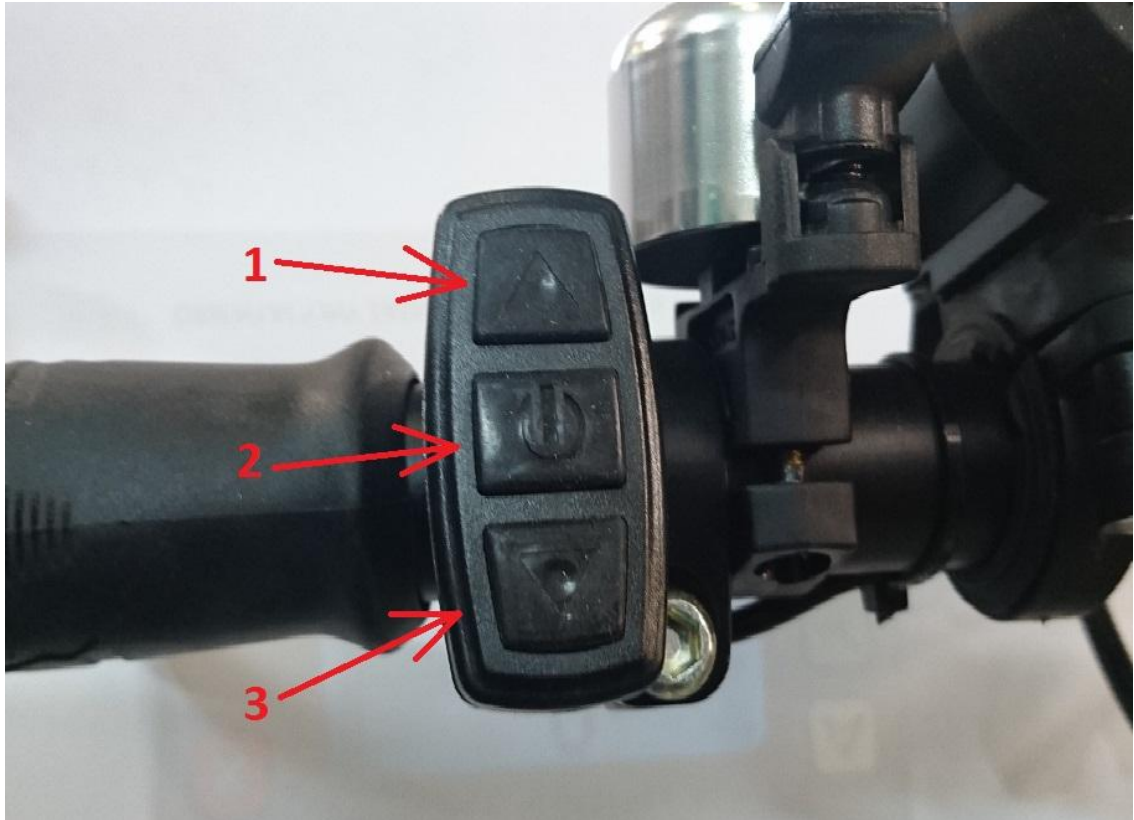
**Diag. 7 THE HANDLEBAR**

## 10.2. Essential activities during use of EV4 SEMI-RECUMBENT

1. Put the vehicle in vertical position
2. Put the ignition key in and turn to the right (power will be supplied to the USB port and the driving support controller)
3. Sit on the seat and put your hands on the handlebar
4. Press and hold the middle button on the drive assist control panel for 2 sec.
5. After the computer has been turned on one can turn on the panel backlight if needed by pressing and holding the top button for 2 sec.
6. In the lower left corner of the screen, the ASSIST field displays the current power of support. Adjustment is made by pressing the upper or lower button on the control panel. The number 0 to 5 will be displayed (0 means no power and 5 is the maximum power)
7. After selecting the required power, start driving by pressing on the pedals (the engine will start to power up after about 1 second when it receives a signal from the crankshaft sensor).
8. When driving, you can change the power of the aid with buttons (upper and lower) as needed, and adjust to the pitch of the ground by changing the gear lever
9. The driving computer is equipped with the ability to start the engine without having to pedal. To start this function, hold for about 2 sec. The bottom button on the control panel. The engine will start but the vehicle speed will be limited to 6 km/h.

10. After driving, turn off the vehicle with a key and secure it against unwanted use, children, etc. Leave the vehicle in a tilted condition and prevent it from rolling downhill.

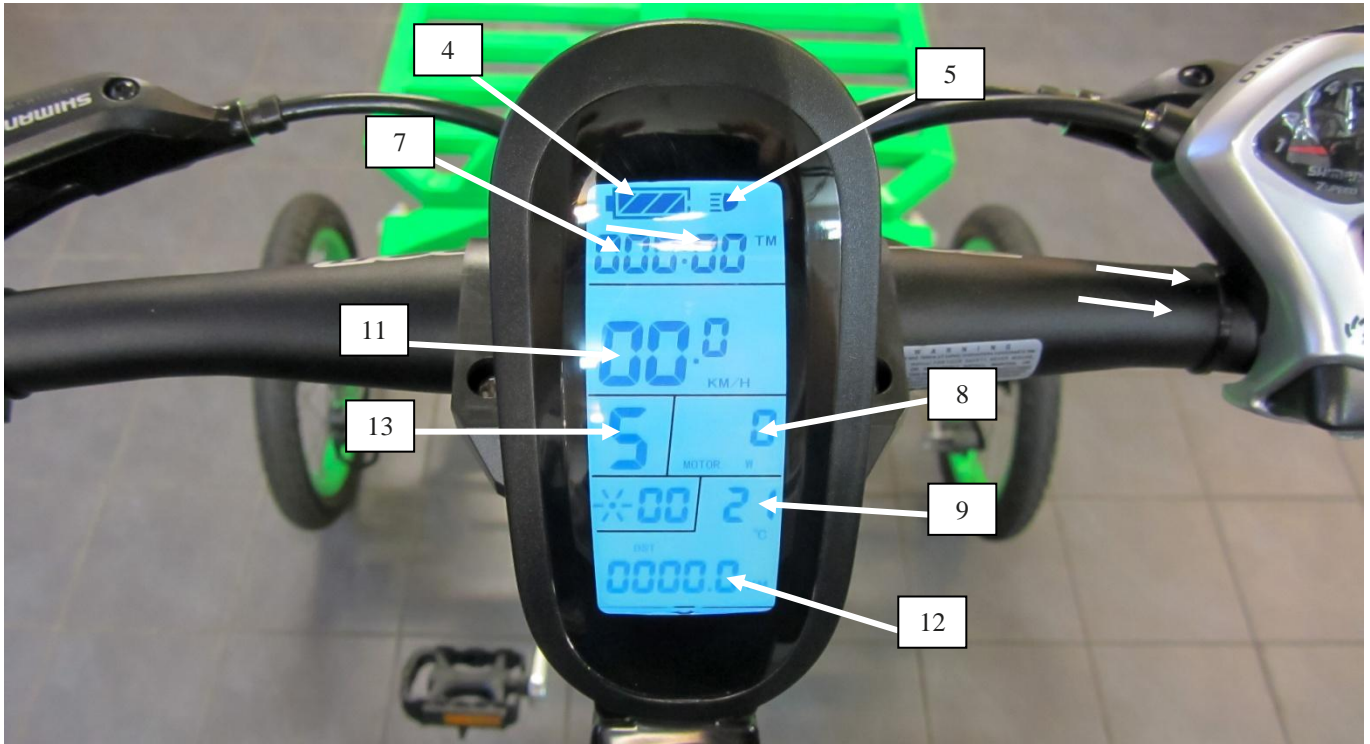
### 10.3. Display description



**Diag. 8 COMPUTER CONTROL BUTTONS**



**Diag. 9 COMPUTER DISPLAY LCD-3**



**Diag. 9A COMPUTER DISPLAY LCD-6**










1		UP	10		PUSH ASSIST
2		ON BUTTON / ACCEPT	11	Km/H	SPEED IN KILOMETERS PER HOUR
				MPH	SPEED IN MILES PER HOUR
				MXS	MAXIMAL SPEED
				AVS	AVERAGE SPEED
3		DOWN	12	Km	DISTANCE IN KILOMETERS
				Mil	DISTANCE IN MILES
				DST	DISTANCE OF ONE TRIP
				ODO	TOTAL DISTANCE TRAVELED
				VOL	BATTERY VOLTAGE
4		BATTERY CHARGE INDICATOR	13	ASSIST	LEVEL OF ASSIST
				CRUISE	CRUISE CONTROL
5		LIGHTS (NOT SUPPORTED)			
6		BRAKE (NOT SUPPORTED)			
7	TM	DAYLY TIME TRAVELED			
	TTM	TOTAL TIME TRAVELED			
8	MOTOR W	MOTOR POWER			
	MOTOR °C	MOTOR TEMPERATURE IN DEGREES CELSIUS			
	MOTOR °F	MOTOR TEMPERATURE IN DEGREES FAHRENHEIT			
9	°C	SURROUNDING TEMPERATURE			
	°F	SURROUNDING TEMPERATURE			

Table. Screen and panel description

## 10.4. Charging and fuse description

EV4 SEMI-RECUMBENT is supplied with a Li-Ion 37V, 10Ah battery. In order to properly charge the battery, use the charger supplied with the vehicle. You will need a special 37 V charger for Li-ion batteries. It is forbidden to use a charger other than the original charger. Using a charger other than the original charger may result in electrical damage, short circuit, fire and personal injury. It may also cause permanent damage to the battery and the vehicle's electrical system.

The charger must first be connected to the vehicle then to the network. Charging socket is located on the battery pack. Take the lid off the socket and then plug in the charger plug.

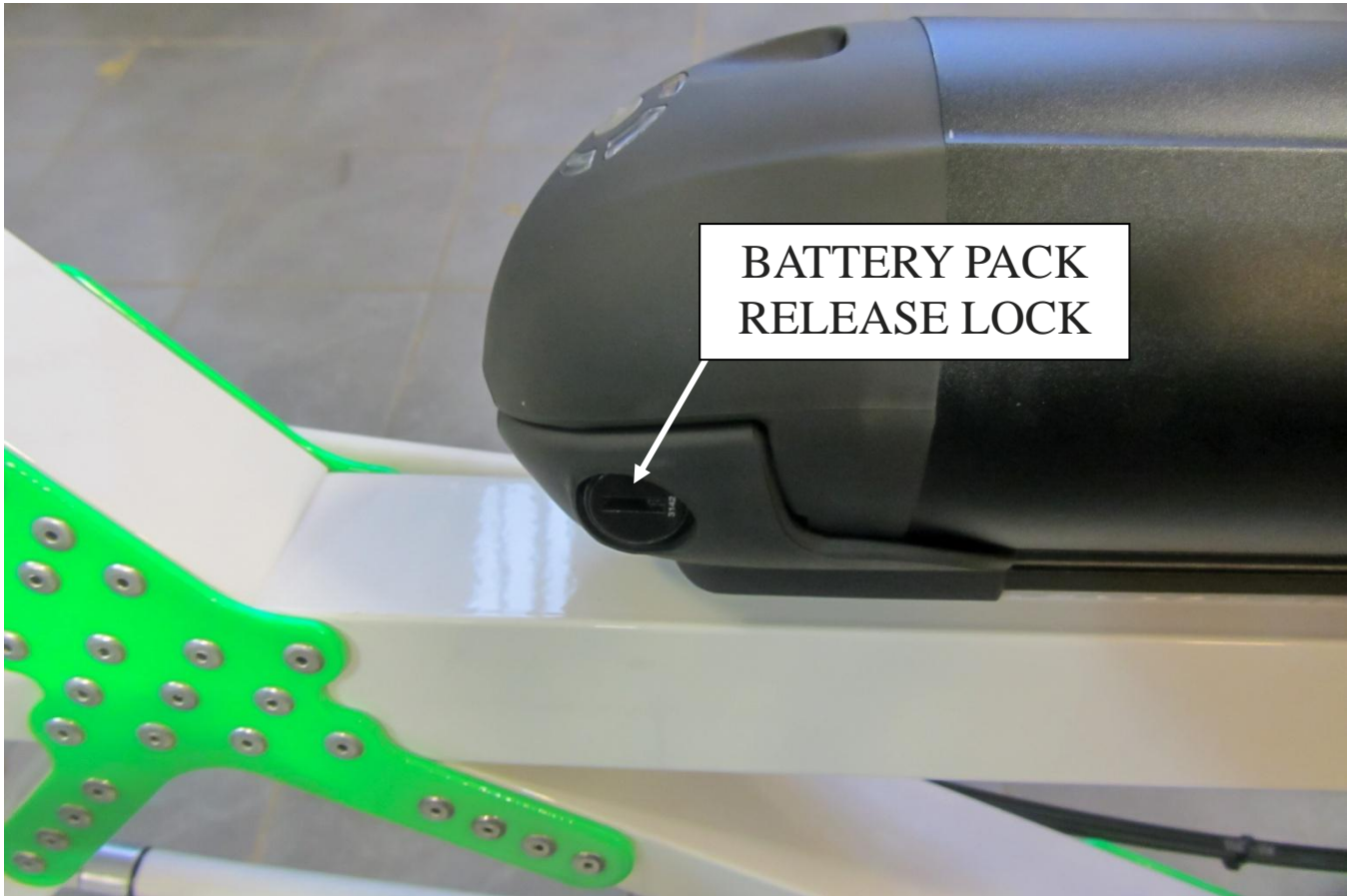
The charger must be disconnected from the vehicle when the vehicle is fully charged (charge will not occur after 100%). It is indicated with a green lamp on the charger. Secure the vehicle's charging socket when charging is complete. After the charge is complete, one can start the vehicle with the key. Disconnect the charger before starting the vehicle. Do not connect any equipment or short connectors to the charger socket. The charger for the EV4 does not charge other batteries.

EV4 vehicles have fuses for electrical wiring. Fuses are located inside the battery casing. If the vehicle cannot be started or the battery won't recharge check whether the fuse has been blown. For this purpose dismantle the frame cover with the screws and check the fuse in the battery. Locating the cover and fuse holder bolts is shown in the photographs.

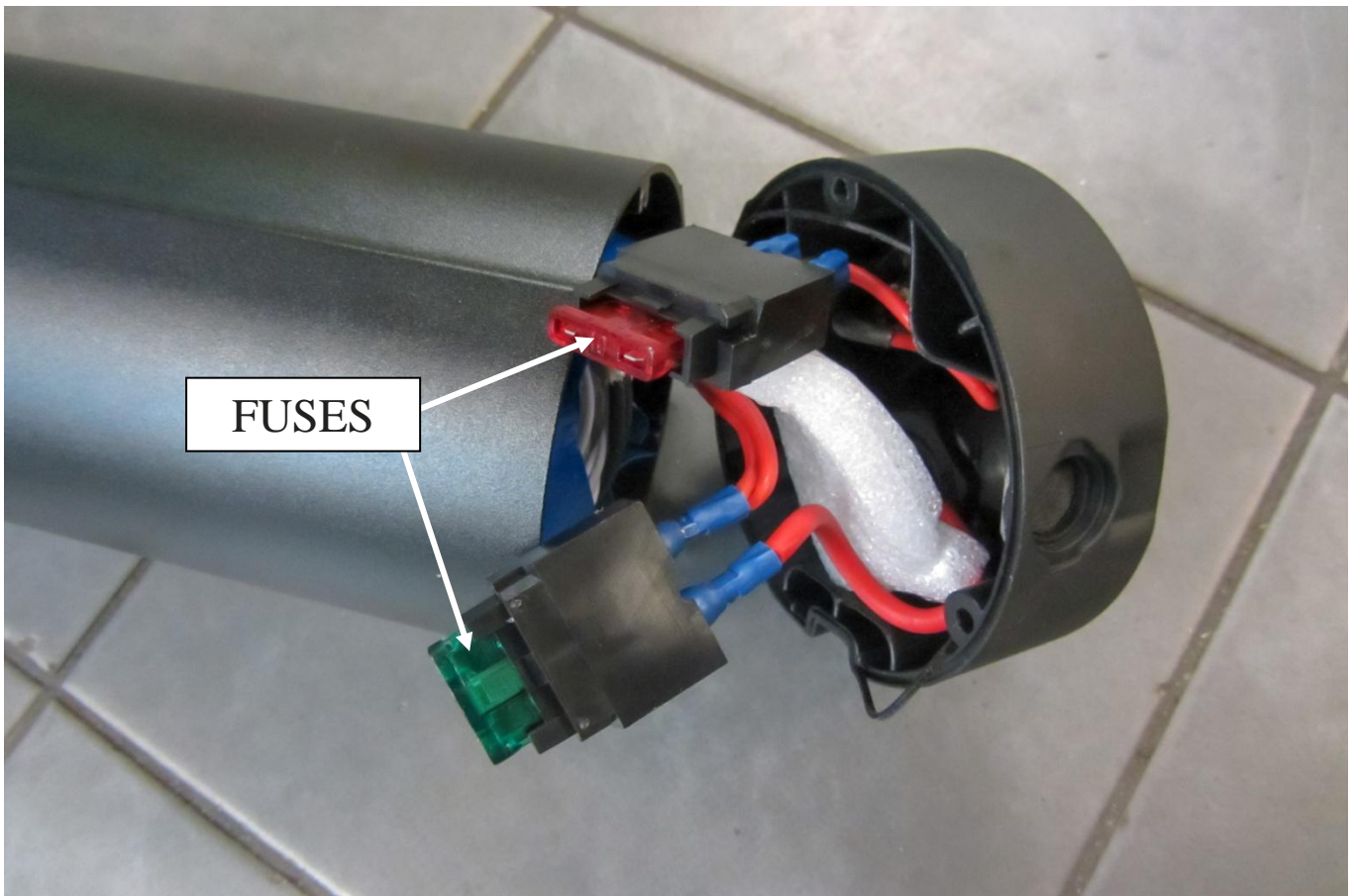
If the vehicle cannot be started and the fuse is working, contact the manufacturer / service. Do not perform repairs on your own. The EV4 SEMI-RECUMBENT uses 30A main fuse and 10A charging fuse. When it is necessary to replace the fuse, it is necessary to use a new one with the same current.



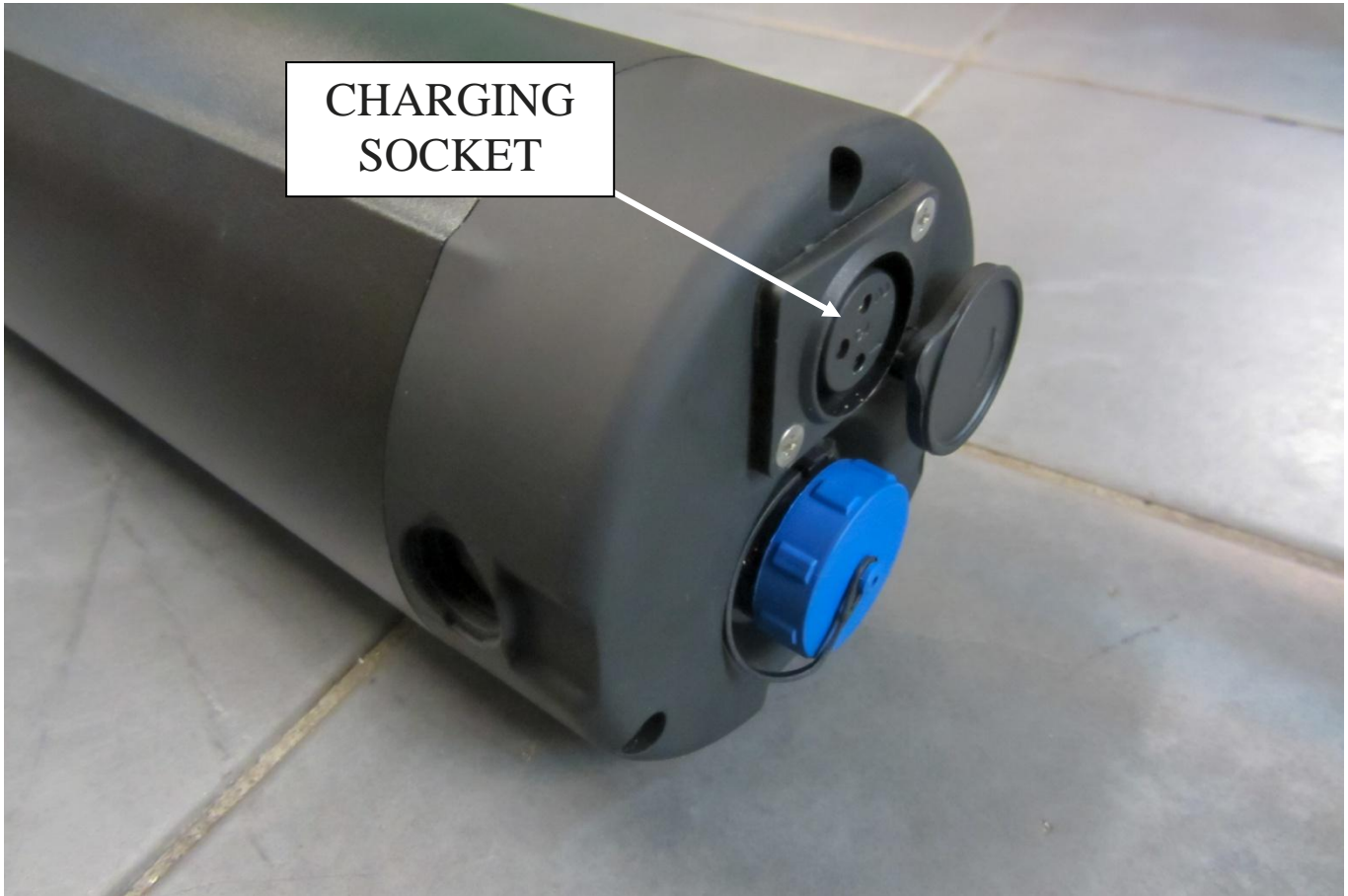
**It is forbidden to use a fuse of other parameters. This may cause damage to the electrical system and fire.**



**Diag. 10 BATTERY**



**Diag. 11 LOCATION OF THE FUSE**



**Diag. 12 CHARGING SOCKET**

## 11. Setup

### 11.1. Seat position

The seat is equipped with a mounting system, with adjustable distance from the pedals and tilt. To change the distance, push the lever on the right side of the seat down. After setting the distance, the locking mechanism must be released and the seat moved slightly until the bolt is locked. To change the inclination of the seat, release the two locks on the back of the seat. Once the tilt has been determined, the fixing must be tightened again. Pay attention to the appropriate clamping force. If the locking force is too low, the seat may fall when driving. This situation is dangerous for the driver.



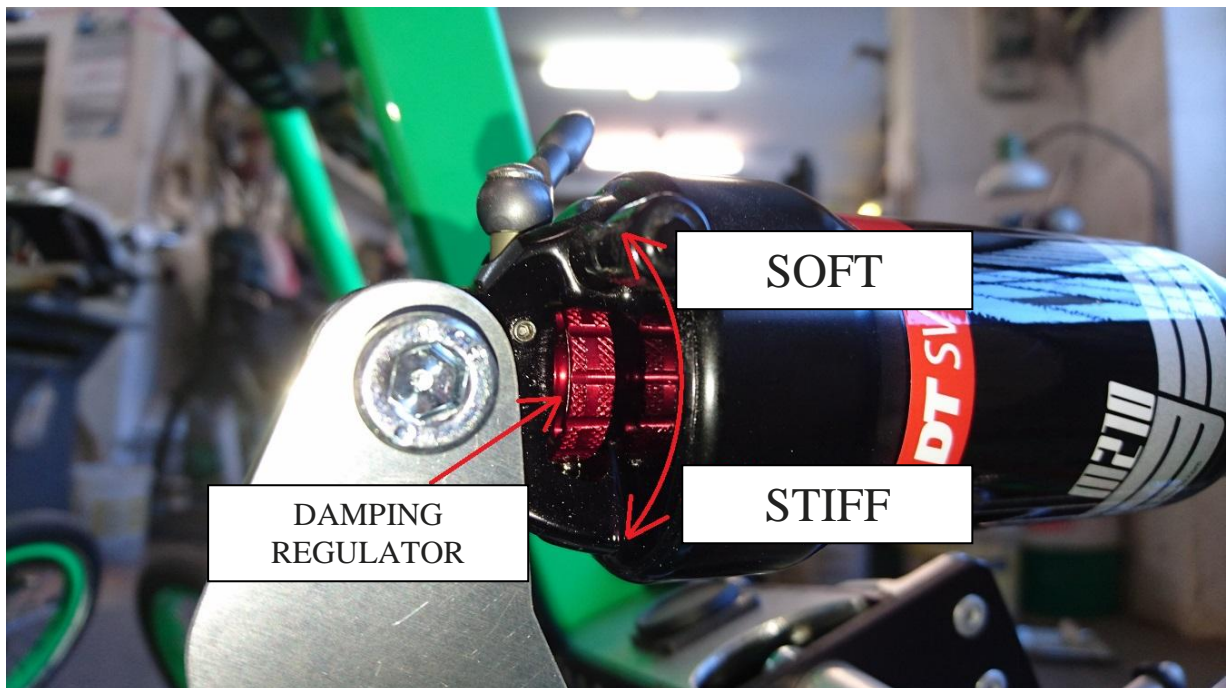
**Rys. 13 Seat adjustment**

### 11.2. Braking system

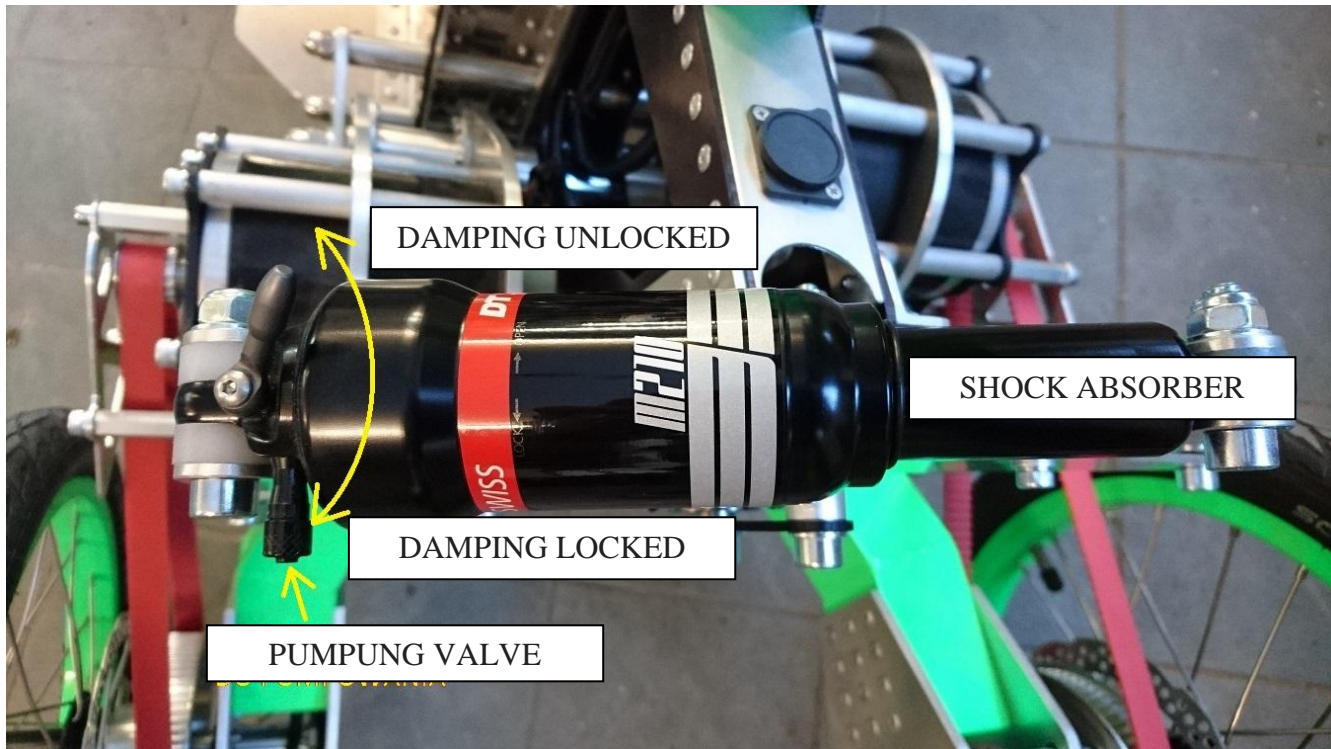
The brake system has two independent front and rear brake circuits. The front wheels stop using the right lever and the rear wheels stop using the left lever. The braking system is very effective, so excessive use of the brake lever can cause the wheel to block and consequently you may fall into a slippage and lose balance. Operate the brake lever with your index finger and middle finger instead of your whole hand. Front wheel locking may cause lack of front steering and cause the vehicle to tip over. Before going full speed, one must practice using the brakes to properly control the vehicle, If squeaking occurs during braking, it has become uneven in individual wheels, brakes have become ineffective, or other disturbing braking problems are observed immediately replace the brake pads.

### 11.3. Shock absorbers

The hardness of the shock absorbers should be adjusted to the weight of the driver. Excessive deflection of the shock absorber can cause damage to the vehicle and damper and cause discomfort to the driver. The shock absorber must be set as follows: The person who will drive the vehicle must sit on the vehicle with both feet on the ground. The second person at the same time should check the damper's initial deflection, which should be about half of total stroke. For DT SWISS shock absorbers with a length of 190 mm the total deflection is 50 mm and the initial deflection (when the driver sits on the vehicle) in the front and rear shock absorbers should be 25 mm. Adjustment of hardness is done by pumping the shock absorber with a pump and dropping pressure is done by venting the valve. Approximate pressure in the front shock absorber is 2-3 bars while in the rear 4-6 bar. Maximum pressure cannot exceed 18 bars. Exceeding this pressure can damage the shock absorber. Damper adjustment should be unscrewed towards the softest damping. The shock absorber should be set to: unlocked.



**Diag. 14 SHOCK ABSORBER CONFIGURATION**



Diag. 15 SHOCK ABSORBER CONFIGURATION

## 12. Maintenance



Please observe the following maintenance recommendations:

- The maintenance and servicing times given in this manual must be strictly observed.
- Any changes have to be approved by the manufacturer.
- To prevent premature wear of EV4, diligently clean and maintain them at regular intervals.
- Correct maintenance ensures that the service life is extended and the level of security remains unchanged.
- Carry out maintenance procedures using personal protective equipment (protective gloves).
- Do not throw waste into the environment as a result of maintenance. Dispose of them in accordance with applicable regulations.
- Some maintenance and repairs require the use of specialized tools and knowledge of how to perform such repairs. Therefore, repairs must be carried out only by the manufacturer or in the place indicated by the manufacturer.
- Most of the parts used to make EV4 are aviation grade. Fabrication of components from other materials will not provide adequate strength and consequently will not ensure proper operation of the vehicle.
- The frame and other parts of the vehicle are riveted with aviation grade rivets. Repairing the vehicle with other rivets than recommended by the manufacturer can reduce the strength of the individual components or damage the vehicle.

## **12.1. Wheels**

The bike has 16 in front spoke wheels and 20 in back wheel. All with aluminium rims. It is very important to maintain proper pressure in the wheels. It should be 2-2.5 Bar in the front wheels and 2.5-3 in the rear wheel. Too low or too high pressure in the tires can cause damage to: tires, wheel rims, suspension and cause excessive electricity consumption. It is very important that the tread of the tire is correct and not worn out. Too much tread wear can cause tire breakage, poor vehicle grip and poor tread. Uneven tread wear may indicate wheel distortion, improper centring, suspension failure, incorrect tire pressure, improper tire operation, improper tire assembly, etc. When the tire is punctured or has low pressure it needs to be replaced immediately. Always remove air from the wheel before replacing the tire. The front tires and inner tube can be replaced without removing the wheels. The rear wheel must be removed before the tire can be taken off. Be careful when disassembling the wheel. The cable leading to the motor can easily be damaged during unsuitable dismantling and assembly. In order to facilitate these operations, the cable close to the motor has an electrical connector that is disconnected before the wheel is removed and then connected after its insertion.

## **12.2. Bolts and glued parts**

All screws used in EV4 are screws with a higher strength class. Replacing them can only take place with screws of adequate strength. The minimum strength class of screws is 8.8. Some screws such as the rocket axles have a strength class of 12.9. Almost all used nuts are self-locking nuts and are one time use only. After unscrewing, replace them with new ones. Some nuts, for example when attaching the rocker arms for safety reasons, are blinded. In screw connections where self-locking nuts are not used for safety, a self-locking safety thread is used: Loctite 243. Loctite 603 is used in some places, such as bearing housings, wheel alignment, and engine rack mounting. Removal and reassembly of these components requires the use of specialized tools, preheating when disassembling and reuse of glue during assembly.

## **12.3. Vehicle transmission**

The transmission consists of chain wheels, chain and a gear shifter. Keep the gear unit clean and periodically lubricate it. In case of problems with proper gear changing, it can be remedied by adjusting the length of the casing of the shifter cable. The regulator is located at the end of the casing at the transmission. Adjust it by gradually turning half turn to left or right and performing a test drive. Adjust the tension of the cable experimentally.

## **12.4. Lubrication**

Important components requiring lubrication are ball joints in the suspension system and in the steering. The M8 ball joints are in front suspension. The right lubricant for these is engine or gear oil used in automotive industry. There are a total of 16 M6 joints in the steering system. All of them require periodic lubrication. They should be lubricated every 100-400 km. The period in which the articulations must be lubricated depends on the style of riding, the type of terrain, the mass of the user, the dirt and sanding. If the vehicle is standing unused for more than 2 months then the joints should also be lubricated before using the vehicle after such a break. If the joints become too loose, replace them with new ones, keeping the same length of the pushers when replacing them.

Every 100-400 km of mileage one should also lubricate the chain. Suitable for this activity will be special oil or as a replacement, engine oil. It is also a good idea to lubricate the axles of the shifter mechanism, with small drops of oil.



### **13. Fixing**

EV4 repair may only be carried out by specially trained AERO-SERVICE personnel. EV4 repairers must adhere to the factory guidelines. Failure to comply with the recommendations may result in loss of health.



**WARNING! Performing such operations requires appropriate technical competence or specific skills so that they can only be performed by qualified personnel with experience gained and recognized in the performance of their activities.**

### **14. Moving EV4**

The vehicle can be moved by: handlebar, seat, wheel rims, and footrests. It is forbidden to move the vehicle by grabbing the drive system, drive belt, suspension, steering. This may cause a hand and body injury and damage to the vehicle. Do not carry the vehicle by the shock absorber, it may damage it.

When transporting EV4 on means of transport, it must be secured with fastening straps so that it cannot be moved. Fixing straps must not be attached to delicate components. Excluded are spokes, hydraulic and electrical wires, belts and chains, controllers, etc.

### **15. Part specification**

If you need to replace machine parts, you must contact AERO-SERVICE (tel. +48 603 397 810, e-mail: ev4@ev4.pl) before replacement. AERO-SERVICE will present a suitable replacement model. Using a component that is not approved by AERO-SERVICE may result in an accident. When replacing some spare parts, you must follow the original parts manual. The life span of the entire machine provided by the manufacturer is 15 years.

### **16. Noise**

The machine in terms of noise emission complies with European standards and directives. The average noise level during operation of the operator at a distance of 1m is  $< LpA=70$  dB.

### **17. Radiation**

Components of the machine are built in accordance with the requirements of the EMC Directive 2014/30/EU, so that the machine does not emit harmful electromagnetic interference and is itself resistant to such interference.

## **18. Troubleshooting**

If the vehicle is not working or does not work properly, do not troubleshoot or repair the vehicle by yourself, return it to the manufacturer or to the person indicated by the manufacturer.

Procedure:

In the event of a breakdown, please contact us by phone +48 603 397 810 or the person / company indicated by the manufacturer. Many simple failures can be repaired by giving instructions over the phone. In the event of a major breakdown that cannot be remotely repaired, the machine must be delivered to the place of purchase after prior contact with the manufacturer.

## **19. Declaration of conformity**

EV4

## DEKLARACJA ZGODNOŚCI UE

Declaration of conformity

Nr

2017/DC\_16393/01

**PRODUCENT:** AERO-SERVICE Jacek Skopiński  
*Manufacturer:* Ul. Dereniowa 4/69  
 02-776 Warszawa  
 Poland

**Deklarujemy z pełną odpowiedzialnością, że nasz produkt:**  
*We declare with full responsibility, that our product:*

**NAZWA:** EV 4  
*Name:*

**MODEL:** BIKE, QUAD  
*Model:*

**NUMERY SERYJNE:** 001-999  
*Serial numbers:*

**ZASTOSOWANIE:** EV4 służy do transportu osób.  
*Application:*

**Jest zgodny z następującymi dokumentami odniesienia:**  
*Compliance the following documents of reference:*

**DYREKTYWY:** 2006/42/WE  
*Directives:* 2014/30/UE

**NORMY:** PN-EN ISO 12100:2012  
*Harmonized standards:*

**Dokumentacja została stworzona przez:** AERO-SERVICE Jacek Skopiński  
*Documentation was created by:* Ul. Dereniowa 4/69, 02-776 Warszawa

**Miejsce przechowywania dokumentacji:** AERO-SERVICE Jacek Skopiński  
*Stocking location of documentation:* Ul. Dereniowa 4/69, 02-776 Warszawa

Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.

WARSZAWA 01-02-2017

**Miejsce, data:**  
*Place, date:*

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**Stanowisko i Podpis osoby upoważnionej:**  
*Signature of authorized person:*

