



# *Invacare® Electra*

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*Scooter  
User Manual*

CE



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# 1 Introduction

**Dear User,**

Thank you for purchasing an Invacare® product! We hope you will enjoy your new Scooter.

**This manual contains important hints and information on:**

- **Safety**
- **Operation**
- **Care and maintenance.**

**Please familiarise yourself thoroughly before making your first trip.**

Some of the necessary maintenance and adjustments can be carried out by the user. Some adjustments, however, require technical training and are only allowed to be performed by your Invacare® specialised dealer. Any damage or defects caused by non observance of the operating instructions or by poor maintenance are excluded from liability.

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## 1.1 Important symbols in this manual

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### **WARNING!**

**This symbol warns you of danger!**

- *Always follow the instructions to avoid injury to the user or damage to the product!*
- 



### **EXPLOSION HAZARD!**

**This symbol warns you of an explosion hazard, which can be caused by excessive tyre pressure in a pneumatic tyre!**

- *Always follow the instructions to avoid injury to the user or damage to the product!*
- 



### **BURN HAZARD!**

**This symbol warns you of burns due to acid or other substances!**

- *Always follow the instructions to avoid injury to the user or damage to the product!*
- 



### **NOTE:**

This symbol identifies general information which is intended to simplify working with your product and which refers to special functions.

---



### **Requirements:**

- This symbol identifies a list of various tools, components and items which you will need in order to carry out certain work.
-

## **1.2 Type Classification and Area of Use**

This vehicle has been classified as a Class A Mobility Product (for indoor areas). It has been successfully tested for its safety according to German and international standards.



## 2 Safety Notes

- READ WELL BEFORE OPERATION!

### 2.1 General Safety Notes



---

**Danger of injury if this scooter is used in any other way than the purpose described in this manual!**

- *Adhere strictly to the instructions in this user manual!*

**Danger of injury if the scooter is driven when your ability to drive is impaired by medication or alcohol!**

- *Never drive any vehicle under the influence of medication or alcohol!*

**Danger of damage or injury if the scooter is accidentally set into motion!**

- *Switch the power system off before you get in, get out or handle awkward objects!*
  - *Be aware that there are only the motor brakes to stop your scooter. When the motors are disengaged, these brakes are automatically deactivated. For this reason, freewheel operation is only recommended on flat surfaces, never on gradients. Never leave your vehicle on a gradient with its motors disengaged. Always re-engage the motors immediately after pushing the vehicle.*
-



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**Danger of injury if the On/Off Button is pressed while the vehicle is in motion, due to it coming to an abrupt, sharp stop!**

- *If you have to brake in an emergency, simply release the drive lever, which will bring you to a halt! Only switch the vehicle off while in motion as a last resort!*

**Danger of injury if the scooter is transported in another vehicle with the occupant seated in it!**

- *Never transport the scooter with the occupant seated in it!*

**Danger of injury if maximum permissible load is exceeded!**

- *Do not exceed the maximum permissible load (see technical specifications)!*

**Danger of injury when lifting heavy components!**

- *When maintaining, servicing or lifting any part of your scooter, take into account the weight of the individual components, especially the batteries! Be sure at all times to adopt the correct lifting posture and ask for assistance if necessary!*

**Danger of injury if you fall off the scooter!**

- *If restraining systems are installed (such as seat belts), use them each time you drive the scooter.*
-



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**Danger of injury by moving parts!**

- *Make sure that no injury is incurred by moving parts of the scooter, like wheels or a Seat Lifter, especially when children are around!*

**Danger of fire or breaking down due to electric devices being connected!**

- *Do not connect any electric devices to your vehicle that are not expressly certified by Invacare® for this purpose! Have all electrical installations done by your authorised Invacare® Dealer!*

**Danger of technical failure and injury if unauthorized spare parts and components are used!**

- *Only use original Invacare® spare parts, which have been approved for use with this vehicle!*
-

## 2.2 Safety information with regard to care and maintenance

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### **Danger of accident and loss of guarantee if maintenance is insufficient!**

- *For reasons of safety and in order to avoid accidents which result from unnoticed wear, it is important that this electric vehicle undergoes an inspection once every year under normal operating conditions (see inspection plan contained in service instructions)!*
  - *Under difficult operating conditions such as daily travel on steep slopes, or in the case of use in medical care cases with frequently changing wheelchair users, it would be expedient to carry out intermediate checks on the brakes, accessories and running gear!*
  - *If the vehicle is to be operated on public roads, the vehicle driver is responsible for ensuring that the vehicle is in an operationally reliable condition! Inadequate or neglected care and maintenance of the vehicle will result in a limitation of the manufacturer's liability!*
-

## 2.3 Safety Information on Electromagnetic Interference

This electric vehicle was successfully tested in accordance with International standards as to its compliance with Electromagnetic Interference (EMI) Regulations. However, 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:



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**WARNING: Danger 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!*
-

## 2.4 Safety Information on Driving and Freewheel Mode

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### **Danger of injury if the vehicle tips over!**

- *Only ever negotiate gradients of up to the maximum defined in the Technical Specifications and only with the backrest in an upright position, and the seat lifter in the lowest position (if installed)!*
  - *Only ever drive downhill at a maximum of 2/3rds of the top speed! Avoid abrupt braking or accelerating on gradients!*
  - *If at all possible, avoid driving on slippery surfaces (such as snow, gravel, ice etc.) where there is a danger of you losing control over the vehicle, especially on a gradient! If driving on such a surface is inevitable, then always drive slowly and with the utmost caution!*
  - *Never attempt to overcome an obstacle when on an uphill or downhill gradient!*
  - *Never attempt to drive up or down a flight of steps!*
  - *Always approach obstacles straight on! Ensure that the front wheels and rear wheels move over the obstacle in one stroke, do not stop halfway! Do not exceed the maximum obstacle height (see Technical Specifications)!*
  - *Avoid shifting your centre of gravity as well as abrupt changes of direction when the vehicle is in motion!*
-



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**Danger of injury if the vehicle tips over! (Continued)**

- *Never use the vehicle to transport more than one person!*
- *Do not exceed the maximum permissible load!*
- *When loading the vehicle, always distribute the weight evenly! Always try to keep the centre of gravity of the vehicle in the middle, and as close to the ground as possible!*
- *Note that the vehicle will brake or accelerate if you change the Driving Speed while it is in motion!*

**Danger of injury if you collide with an obstacle when driving through narrow passages such as doorways and entrances!**

- *Drive through narrow passages in the lowest Driving Speed and with due caution!*
-

### 3 Key features

- 1) Height adjustment of the backrest
- 2) Width adjustment of the armrests (2x)
- 3) Drive clutch lever
- 4) Lock handle to turn and remove the seat
- 5) Tiller angle adjustment (Quick fastener)
- 6) Carrying handle
- 7) Throttle control lever
- 8) Key switch (ON/OFF)





## 4 Driving

### 4.1 Before driving for the first time...

Before you take your first trip, you should familiarise yourself well with the operation of the vehicle and with all operating elements. Take your time to test all functions and driving modes.



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**NOTE:**

If installed, use the restraining systems (seat belts) each time you use the vehicle.

---

#### **Sitting Comfortably = Driving Safely**

**Before each trip, make sure that:**

- **You are within easy reach of all operating controls.**
- **The battery charge is sufficient for the distance intended to be covered.**
- **The seatbelt is in perfect order.**

## 4.2 Taking Obstacles

Your Invacare® Electra can handle obstructions and kerbs up to 5 cm in height.



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### **CAUTION: Danger of Tipping Over!**

- *Never approach obstacles at an angle!*
  - *Put your backrest into an upright position before climbing an obstacle!*
- 

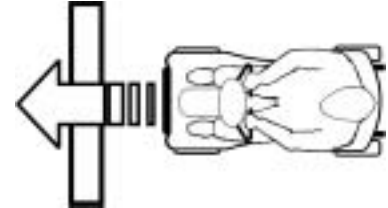
#### **Driving up over an obstacle**

- Approach the kerb or obstacle slowly head-on. Shortly before the front wheels touch the obstacle, increase the speed and reduce only after the rear wheels have also climbed the obstacle.

#### **Driving down off of an obstacle**

- Approach the kerb or obstacle slowly head-on. Before the front wheels touch the obstacle, reduce speed and keep it until also the rear wheels have come down off of the obstacle.

**Correct**



**Incorrect**



## 4.3 Driving up and down gradients

The Invacare® Electra can safely handle gradients of up to 8.5° (15%).



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### **WARNING: Danger of tipping over!**

- *Only ever drive downhill at a maximum of 2/3rds of the top speed!*
  - *Always return the backrest of your seat to an upright position before ascending slopes! We recommend that you lean the backrest slightly to the rear before descending slopes!*
  - *Never attempt to ascend or descend a slope on slippery surfaces or where there is a danger of skidding (such as wet pavement, ice etc)!*
  - *Avoid trying to get out of the vehicle on an incline or a gradient!*
  - *Always drive in a straight direction along the road or path you are travelling on, rather than attempting to zigzag!*
  - *Never attempt to turn around on an incline or a slope!*
- 

## 4.4 Parking and stationary

**When parking your vehicle or if your vehicle is stationary for a prolonged period:**

- Switch the vehicle's power system off (key switch).
- Activate the parking brake (if available).

## 5 Pushing the scooter by hand

The motors of the scooter are equipped with automatic brakes, preventing the scooter from rolling away out of control when the power supply is switched off. When pushing the scooter, the magnetic brakes must be disengaged.

### 5.1 Disengaging Motors



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#### **Danger of the vehicle running away!**

- *When the motors are disengaged (for push operation), the electromagnetic motor brakes are deactivated! When the vehicle is parked, the levers for engaging and disengaging the motors must without fail be locked firmly into the "DRIVE" position (electromagnetic motor brakes activated)!*
- 

**The lever to engage and disengage the motor is found at the back.**

#### **Disengage motor**

- Assure that the power supply is switched off (Key switch).
- Pull lever (1) back.

#### **Engage motor**

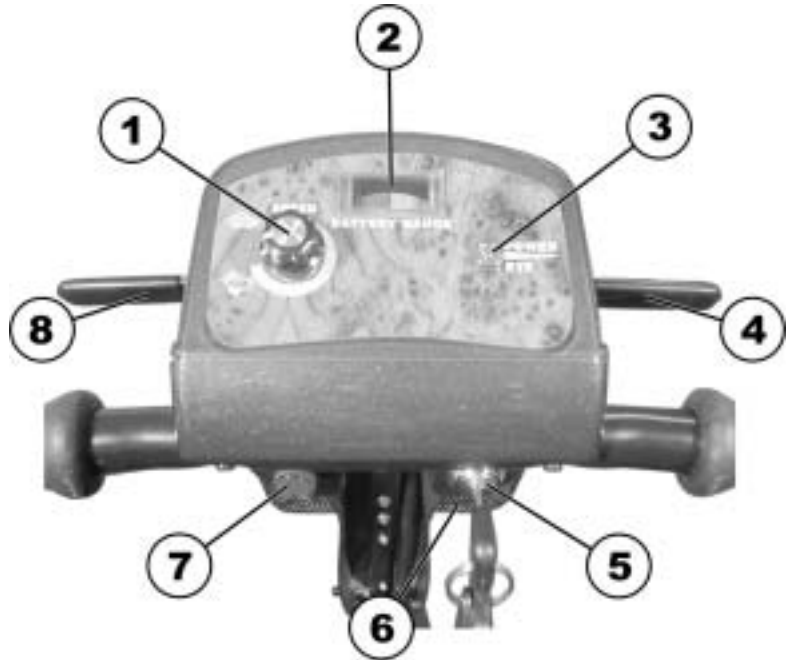
- Press lever forward.



## 6 Control console

### 6.1 Control console layout

- 1) Speed controller
- 2) Battery charge indicator
- 3) Status indicator (ON/OFF and error codes)
- 4) Throttle control lever, right side
- 5) Key switch (ON/OFF)
- 6) Charger jack (located underneath the key switch)
- 7) Horn
- 8) Throttle control lever, left side



### 6.1.1 Status indicator

The status indicator flashes constantly if the scooter is switched on. If the drive electronics recognise an error, the status indicator displays a corresponding identify flash code.

---



#### **NOTE**

A description of the identify flash codes can be found in chapter "Error Codes and Diagnostic Codes" on page 26.

---

### 6.1.2 Battery charge indicator

Description of the battery charge indicator:

- Needle is far right in the green zone: Full range
  - Needle is in the medium zone: Limited range. Recharge batteries at the end of the drive.
  - **Needle is left in the red zone: Battery reserve = very low range**  
**Charge batteries immediately!**
- 



#### **NOTE**

Low discharge protection: The electronics automatically switch off the drive after a certain drive period and bring the scooter to a standstill.

---

## 6.2 Driving the scooter

- Switch on power supply (key switch). The displays on the control console light up. The scooter is in running order.



---

### **NOTE**

If the scooter is not in running order after being switched on, check the status indicator (see chapter "Status indicator" on page 22 and chapter "Diagnosis and error management" on page 24).

---

- Use speed controller to set the desired driving speed.
- Pull the right throttle control lever carefully to drive forward.
- Pull the left throttle control lever carefully to drive backward.



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### **NOTE**

The control is programmed ex works with standard values. An individual programming to suit you can be carried out by your Invacare®-appointed retailer.

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### **NOTE:**

Simply release throttle control lever to brake quickly. This will automatically return to the middle position. The scooter will brake.

---

## 6.3 Diagnosis and error management

The electronic system offers diagnostic information to support the service technicians in detecting and managing errors within the scooter system. The status indicator flashes repeatedly if an error occurs, then pauses and flashes again. The type of error is indicated by the number of flashes in each sequence, also called 'identify flash code'.

The electronic system reacts in different ways depending on the severity of the error and its effects on user safety. It can e.g. ...

- simply display the identify flash code as a warning and allow driving and normal operation to continue;
- display the identify flash code, stop the scooter and shut it down until the electronic system is switched off and then switched back on again;
- display the identify flash code, stop the scooter and make the continuation of the journey impossible until the error is rectified.

Detailed descriptions of the meaning of the individual identify flash codes including the possible cause and error management can be found in section "Error Codes and Diagnostic Codes" on page **26**.



### 6.3.1 Error diagnosis

If the scooter should experience a malfunction, please consult the following troubleshooting manual to localize the error.



---

**NOTE**

Before starting the diagnosis, make sure that the scooter is switched on at the key switch.

---

**If status indicator is switched OFF:**

Check if key switch is SWITCHED ON.

Check if all cables are connected correctly.

**If only the outer left diode of the battery charge indicator is blinking CONSTANTLY:**

Contact your Invacare®-appointed retailer

**If the outer left diode of the battery charge indicator is BLINKING:**

Count the number of blinks and move on to the next section.

## 6.4 Error Codes and Diagnostic Codes

Number of flashes	Fault	Impact on Scooter	Notes
1	Battery needs charging	Will drive	<ul style="list-style-type: none"> <li>Battery charge is running low. Recharge the batteries as soon as possible.</li> </ul>
2	Battery voltage too low	Drive inhibited	<ul style="list-style-type: none"> <li>Battery charge is empty. Recharge the batteries.</li> <li>If the scooter is left off for a few minutes, battery charge may recover sufficiently to allow driving for a short period of time. You should only ever do this in an emergency, as this deep-discharges the batteries!</li> </ul>
3	Battery voltage too high	Drive inhibited	<ul style="list-style-type: none"> <li>Battery charge is too high. If a charger is plugged in, unplug it.</li> <li>The electronic system charges the batteries when travelling down slopes or decelerating. Excessive charging in this manner may cause this fault. Turn the scooter power off and then back on again. Turn on the lighting system to use power.</li> </ul>

Number of flashes	Fault	Impact on Scooter	Notes
4	Current Limit Time Out	Drive inhibited	<ul style="list-style-type: none"> <li>• The scooter has drawn too much current for too long, possibly because the motor has been over-worked, jammed or stalled. Turn the scooter power off, leave it off for a few minutes, and then turn the power back on again.</li> <li>• The controller has detected a short-circuited motor. Check the cable harness for short and check the motor: Contact your authorised Invacare® Dealer.</li> </ul>
5	Brake Fault	Drive inhibited	<ul style="list-style-type: none"> <li>• Check that the declutching lever is in the engaged position.</li> <li>• The park brake coil or wiring is faulty. Check the park brake and wiring for open or short circuits. Contact your authorised Invacare® Dealer.</li> </ul>
6	Out Of Neutral At Power Up	Drive inhibited	<ul style="list-style-type: none"> <li>• Throttle is not in neutral position when turning key switch on. Return throttle to neutral, turn power off, and back on again.</li> <li>• Throttle may need to be re-calibrated. Contact your authorised Invacare® Dealer.</li> </ul>
7	Speed Pot Error	Drive inhibited	<ul style="list-style-type: none"> <li>• The throttle or its wiring may be faulty or incorrectly set up. Contact your authorised Invacare® Dealer.</li> </ul>
8	Motor Volts Error	Drive inhibited	<ul style="list-style-type: none"> <li>• The motor or its wiring is faulty. Contact your authorised Invacare® Dealer.</li> </ul>

<b>Number of flashes</b>	<b>Fault</b>	<b>Impact on Scooter</b>	<b>Notes</b>
<b>9</b>	Other Internal Errors	Drive inhibited	<ul style="list-style-type: none"><li>• Contact your authorised Invacare® Dealer.</li></ul>

## 7 Adjustment options

### 7.1 Adjust armrest width

The hand wheels to release the armrests can be found underneath the seat at the back (1).

- Turn the hand wheels to loosen the attachment of the armrests.
- Adjust armrests to the desired width.
- Retighten the hand wheels.



## 7.2 Loosen seat for turning and/or removal

The seat can be turned sideways to ease mounting and dismounting the scooter. The seat can also be removed in this position.

The lever to release the seat for turning can be found underneath the seat on the right (1).

- Pull up lever to release the seat.
- Turn seat sideways.
- If desired, grip the seat on the backrest and front edge and remove upward.



## **8 Electrical System**

### **8.1 Electronics Protection System**

The vehicle's electronics are equipped with an overload-protection system.

If the motors are put under considerable strain for a longer period of time (for example, when driving up a steep hill) and especially when the ambient temperature is high, then the electronic system could overheat. In this case the vehicle's power is reduced gradually until it finally comes to a halt. The Status Display shows a corresponding error code. By switching the power supply off and back on again, the error code is cancelled and the electronics are switched back on. It will take approximately five minutes until the electronics have cooled down enough for the motors to restore full power again.

When the motors are stalled by an insurmountable obstacle, such as a high kerb, and the vehicle driver allows the motors to strain against this hindrance for more than 20 seconds without moving, then the electronics will automatically switch off to prevent the motors from being damaged. The Status Display shows a corresponding error code. By switching off and back on again, the error code is cancelled and the electronics are switched back on.

### **8.1.1 The main fuse**

The entire electrical system is protected against overload by a main fuse. The main fuse is attached to the connecting cable between the batteries.



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**NOTE**

A defective main fuse may be replaced only after checking the entire electric system. An Invacare® specialised dealer must perform the replacement.

---

## **8.2 Batteries**

### **8.2.1 What you need to know about batteries**

Power is supplied by two 12V gel batteries. The batteries are maintenance-free and only need regular charging.

New batteries should always be fully charged once before their first use. New batteries will be at their full capacity after having run through approx. 10 - 20 charging cycles. How fast the batteries will be discharged will depend on many circumstances, such as ambient temperature, condition of the surface of the road, tyre pressure, weight of the driver, way of driving and utilisation of lighting, etc.





---

## NOTE

Gel batteries are not hazardous goods. This classification is based on the German *GGVS Hazardous Goods Road Transport Ordinances*, and the *IATA/DGR Hazardous Goods Rail Transport / Air Transport Ordinances*. Gel batteries may be transported without restrictions, whether by road, rail or by air. Individual transport companies have, however, guidelines which can possibly restrict or forbid certain transport procedures. Please ask the transport company regarding each individual case.

Pay attention to the Battery Charge Indicator! Make sure to charge the batteries when the Battery Charge Indicator shows that battery charge is low. We recommend charging the batteries after each trip, as well as each night over night. Depending on the level of discharge, it can take up to 12 hours until the batteries are fully charged again.

Protect your charger from sources of heat such as heaters and direct sunlight. If the battery charger overheats, charging current will be reduced and the charging process delayed.

To avoid damaging the batteries, never allow them to be fully discharged. Do not drive on heavily discharged batteries if it is not absolutely necessary, as this will strain the batteries unduly and shorten their life expectancy.

In case your vehicle is not used for a longer period of time, then the batteries must be charged at least once a month to maintain a full charge. Alternatively, the vehicle can stay connected to the charger. The batteries cannot be overcharged with the specified charger.

Please use only charging devices in Class 2. This class of chargers may be left unattended during charging. All charging devices which are supplied by Invacare® and comply with these requirements.

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## 8.2.2 Charging the batteries

- Make sure you read and understand the battery charger's User's Manual, if supplied, as well as the safety notes on the front and rear panels of the charger!
- 



### **WARNING:**

#### **Danger of explosion and destruction of batteries if the wrong battery charger is used!**

- *Only ever use the battery charger supplied with your vehicle, or a charger that has been approved by Invacare®!*

#### **Danger of electric shock and damage to the battery charger if it is allowed to get wet!**

- *Protect the battery charger from water!*
- *Always charge in a dry environment!*

#### **Danger of short circuit and electric shock if the battery charger has been damaged!**

- *Do not use the battery charger if it has been dropped or damaged!*

#### **Danger of fire and electric shock if a damaged extension cable is used!**

- *Only ever use an extension cable if it is absolutely necessary! In case you must use one, make sure it is in good condition!*
-

### **Connect charger**

The charging jack is found underneath the control console (1).

- Switch off the Scooter at the operating console.
- Connect the battery charger to the Scooter.
- Connect the battery charger to the mains.

### **Disconnect charger from scooter**

- First disconnect the charger from the power supply.
- Then unplug the charger from the scooter.



### 8.2.3 Removing and fitting batteries

---



**WARNING:**

**Danger of injury if the batteries are not handled correctly during assembly and maintenance work!**

- *New batteries should be installed by authorised technicians!*
- *Observe the warnings on the batteries!*
- *Take into account the heavy weight of the batteries!*
- *Only ever use the battery type defined in the technical specifications!*

**Danger of fire and burns if battery terminals are short-circuited!**

- *DO NOT short-circuit battery terminals with a tool!*
- 



**WARNING:**

**Corrosion and burns from acid leakage if batteries are damaged!**

- *Remove clothes that have been soiled by acid immediately!*

**After contact with skin:**

- *Immediately wash affected area with lots of water!*

**After contact with eyes:**

- *Immediately rinse eyes under running water for several minutes; consult a physician!*
-

### 8.2.3.1 Removing the batteries

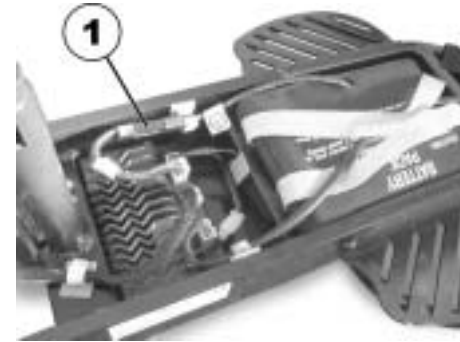
- Remove seat (see chapter "**Loosen seat for turning and/or removal**" on page **30**).
- Release quick fastener of the seat tube fastening (1)
- Pull out seat tube.
- Remove quick fastener.



- Pull covers of battery and motor compartments upward to remove (held by Velcro strips).



- Separate connection to the main cable harness (1)  
(The main cable harness is labeled with a sticker carrying a capital "C").



- Open battery bag.
- Use a screwdriver to loosen the battery clamp of the red cable at the battery's positive terminal and remove cable.
- Repeat on other side.



- Loosen connector of the battery cable.
- Replace batteries.



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**NOTE**

The batteries are inserted in reversed order. Take care that the battery cables are reconnected in the same way as before.

---

### 8.2.3.2 How to handle damaged batteries correctly

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#### **WARNING:**

#### **Corrosion and burns from acid leakage if batteries are damaged!**

- *Remove clothes that have been soiled by acid immediately!*

#### **After contact with skin:**

- *Immediately wash affected area with lots of water!*

#### **After contact with eyes:**

- *Immediately rinse eyes under running water for several minutes; consult a physician!*
- 



#### **Requirements:**

- Safety goggles
  - Acid-resistant gloves
  - Acid-resistant receptacle for transportation
- 

- Always wear appropriate safety clothing when handling damaged batteries.
- Place damaged batteries in an acid-resistant receptacle immediately after removing them.
- Only ever transport damaged batteries in an appropriate acid-resistant receptacle.
- Wash all objects that have come into contact with acid with lots of water.

#### **Disposing of dead or damaged batteries correctly**

Dead or damaged batteries can be given back to your dealer or directly to Invacare®.



## 9 Care and maintenance

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**NOTE:**

Have your vehicle checked once a year by an authorised Invacare® dealer in order to maintain its driving safety and roadworthiness.

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### **Cleaning the vehicle**

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

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

<b>Tests (to be carried out by user)</b>	Before use	Weekly	Monthly
<b>Horn:</b>			
<ul style="list-style-type: none"> <li>• Check function: Contact specialist supplier in case of malfunction.</li> </ul>	✓		
<b>Batteries / Electrical system:</b>			
<ul style="list-style-type: none"> <li>• Check charging state of batteries. Recharge batteries if required (see "<b>Charging the batteries</b>" on page 34)</li> </ul>	✓		
<ul style="list-style-type: none"> <li>• Check the condition and stable connection of all connectors. Fit connectors firmly together if required.</li> </ul>			✓

**You should have your vehicle checked and maintained by an appointed retailer once a year. A complete checklist of the required maintenance work can be found in the maintenance manual, which you can obtain from Invacare®.**

## 10 Disassemble the scooter for transport

Follow these steps to disassemble the scooter for transport:

- Remove seat
- Turn down steering column

The scooter is reassembled in reversed order.

### 10.1 Remove seat

The lever to release the seat so that this can be turned over and taken out is located underneath the seat on the right (1).

- Push down lever to release the seat.
- Turn seat sideways.
- Firmly grip the seat on the backrest and front edge and pull up to remove.



## 10.1.1 Turn down steering column

The lock lever to adjust the steering (1) can be found underneath the basket on the steering column.

- Remove basket, if present.



- Release lock lever. The steering column can be turned down.
- If the lock lever is pulled out, it can turn freely.



---

### Assembly

The assembly is carried out in reversed order.

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# 11 Technical Specifications

<b>Electrical system</b>	
Motor	• 120 W
Batteries	• 2 x 12V / 8 Ah
Main fuse	• 40 A

<b>Handling characteristics</b>	
Speed	• 6 km/h
Max. climbing capacity	• 15% (8.5°)
Max. surmountable obstacle height (without kerb climber)	• 5 cm
Turning radius	• 87.5 cm
Range acc. to ISO 7176-4 **	• approx. 8 km

<b>Measurements</b>	
Total height (backrest in lowest position)	• 86 cm
Total length	• 100 cm
Total width	• 54 cm
Seat height (chassis / ground)	• 31 / 49 cm
Seat width *	• 40 - 50 cm
Seat depth	• 37 cm
Backrest height	• 41 - 51 cm
Armrest height	• 21.5 cm

<b>Weight</b>	
Empty weight	<ul style="list-style-type: none"> <li>• Complete: 35 kg</li> <li>• Without seat / basket: 26.4 kg</li> <li>• Without batteries / seat / shroud / basket: 18.0 kg</li> <li>• Batteries: 5.8 kg</li> </ul>

<b>Load</b>	
Max. load	<ul style="list-style-type: none"> <li>• 115 kg</li> </ul>

\* Width can be adjusted with the side part adjustment.

\*\* Note: The range of an electro-scooter strongly depends on external factors such as battery charge, ambient temperature, local topography, road surface conditions, tire pressure, weight of the driver, way of driving and the use of the batteries for lights, servos etc..

## 12 Inspections Performed

It is confirmed by stamp and signature that all jobs listed in the inspection schedule of the Service and Repair Instructions have been properly performed. The list of the inspection jobs to be performed can be found in the Service Manual which is available through Invacare®.

<u>Delivery Inspection</u>	<u>1<sup>st</sup> Annual Inspection</u>
Stamp of authorised Dealer / Date / Signature	Stamp of authorised Dealer / Date / Signature
<u>2<sup>nd</sup> Annual Inspection</u>	<u>3<sup>rd</sup> Annual Inspection</u>
Stamp of authorised Dealer / Date / Signature	Stamp of authorised Dealer / Date / Signature
<u>4<sup>th</sup> Annual Inspection</u>	<u>5<sup>th</sup> Annual Inspection</u>
Stamp of authorised Dealer / Date / Signature	Stamp of authorised Dealer / Date / Signature

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