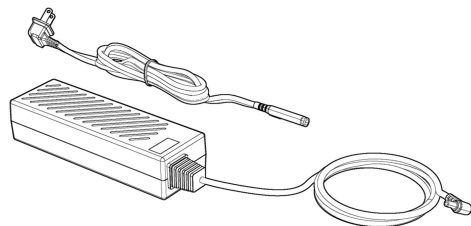


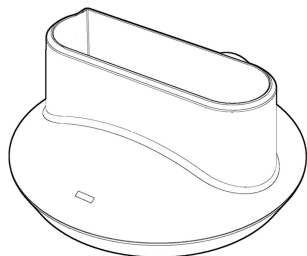
**Invacare®**

Model: POCI-115, POCI-115-AZ, POCI-115-C,  
POCI-115-EU

en **Battery Charger**  
User Manual



CE 0120



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



**Yes, you can.®**

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Making Life's Experiences Possible is a trademark in the U.S.A.

Pine-sol and Lestoil are registered trademarks of The Clorox Company.

Dawn is a registered trademark of The Proctor and Gamble Company.

These instructions are also available on the Invacare website at [www.invacare.com](http://www.invacare.com).

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# I General

## I.1 Symbols

Signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. See the information below for definitions of the signal words.



### **DANGER!**

– Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



### **WARNING!**

– Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.







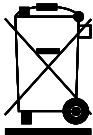





### **CAUTION!**





– Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage or minor injury or both.



Gives useful tips, recommendations and information for efficient, trouble-free use.

Refer to the following table for the meaning of symbols marked on the equipment and/or packaging.

	Follow Instructions for Use   The color of the symbol background is blue on product labels.
	Keep dry
	Indoor Use Only
	DO NOT dispose of in household waste
	This product complies with applicable EU directives
	Manufacturer
	Date of Manufacture
	European Community Authorized Representative
	Serial Number

	Recycle
	Direct Current
	Alternating Current
	Class II Equipment

## 1.2 Intended Use

The Invacare® Battery Charger, model POC1-115, is intended to allow the patient or caregiver to charge an Invacare Battery, model POC1-110, independently of the portable oxygen concentrator. It is intended for indoor use only.

No specific product knowledge or training is required to operate this product other than what is contained in this manual.

This product is intended to be used by adults or under adult supervision only after reading and understanding the instructions and warnings of this user manual.



Battery sold separately.



### **WARNING!**

#### **Risk of Injury or Damage**

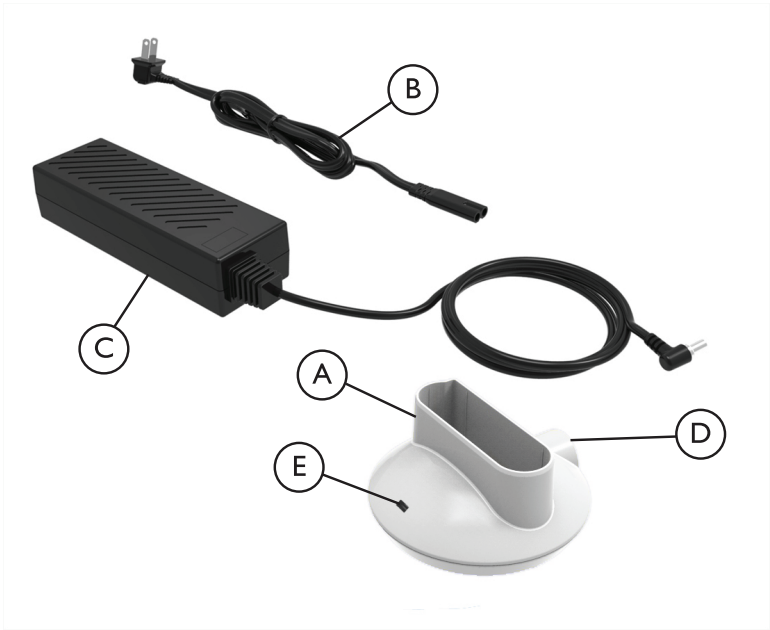
Use of this product outside of the intended use and specifications has not been tested and may lead to product damage, loss of product function, or personal injury.

- DO NOT use this product in any way other than described in the specifications and intended use sections of this manual.

## 1.3 Contraindications

There are no known contraindications for this product.

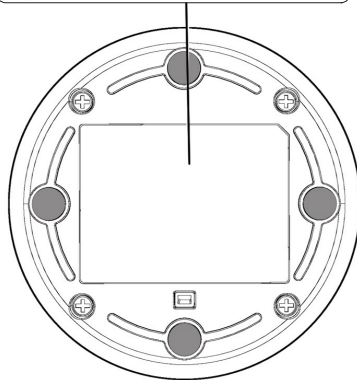
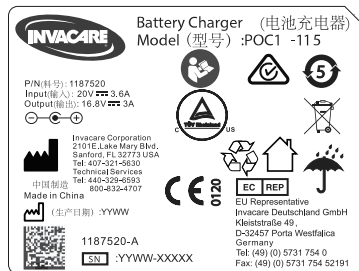
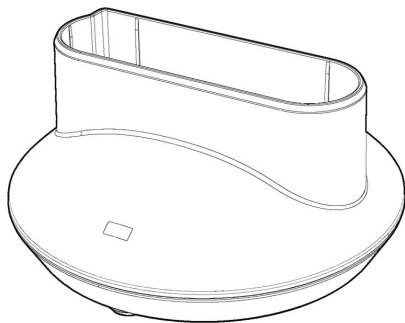
I.4 Component Identification



(A)	Battery Charger Base
(B)	AC Power Cord
(C)	AC Power Adapter
(D)	Power Input Connection
(E)	Status Indicator Light

## 2 Safety

### 2.1 Label Locations



## 2.2 General Guidelines



### **WARNING!** **IMPORTANT SAFETY INSTRUCTIONS**

#### **SAVE THESE INSTRUCTIONS**

- This manual contains important safety and operating instructions for the battery charger.



### **DANGER!** **Risk Of Death, Injury, Or Damage**

Improper use of the product may cause death, injury or damage. This section contains important information for the safe operation and use of this product.

- DO NOT use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as user manuals, service manuals or instruction sheets supplied with this product or optional equipment.
- If you are unable to understand the warnings, cautions or instructions, contact a health care professional, dealer or technical personnel before attempting to use this equipment.
- Check ALL external components and carton for damage. In case of damage, or if the product is not working correctly, contact a technician or Invacare for repair.
- DO NOT use if housing of battery charger or AC power adapter is cracked or separated.
- THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.



### **WARNING!** **Risk Of Injury Or Damage**

- Invacare products are specifically designed and manufactured for use in conjunction with Invacare provided or specified accessories. Any other accessories have not been tested by Invacare and are not recommended for use with Invacare products.
- No modification of this equipment is allowed.



### **DANGER!** **Risk of Death, Injury, from Electric Shock**

To reduce the risk of burns, electrocution, death or injury to persons:

- DO NOT disassemble. Refer servicing to qualified service personnel. There are no user serviceable parts.
- DO NOT come in contact with the battery charger while wet.
- DO NOT place or store the battery charger where it can drop into water or other liquid.
- DO NOT reach for battery charger that has fallen into water. Unplug IMMEDIATELY.
- DO NOT use frayed or damaged power cords.
- DO NOT use AC power adapter if its housing is cracked or separated.
- Call a qualified technician for examination and repair if the power supply has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or if it has been dropped into water.



**CAUTION!****Risk of Injury or Damage**

To avoid injury or damage which will void warranty:

- Charge only Invacare model POC1–110 batteries.
- Use only the provided power supply.
- Keep electrical contacts free from debris.

**WARNING!****Risk of Injury or Death**

The battery charger is intended for use by adults only.

- Close supervision is necessary when the battery charger is used near children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.
- Children should not play with the battery charger.
- Properly store and position electrical cords to prevent tripping and strangulation hazards.

## 2.3 Operating Information

The Invacare battery charger will allow charging the Invacare battery, model POC1–110, independently of the concentrator.

The battery charger is powered by the AC power adapter contained in the battery charger kit. The battery charger must only be supplied at the voltage corresponding to the marking on the appliance.

The model POC1–110 battery will obtain a complete charge within four hours after being properly connected to the battery charger.



Battery sold separately.

## 2.4 Radio Frequency Interference

Medical Electrical Equipment needs to be installed and used according to the EMC information in this manual.

This equipment has been tested and found to comply with EMC limits specified by IEC/EN 60601–1–2. These limits are designed to provide a reasonable protection against electromagnetic interference in a typical home health care environment.

Portable and mobile RF communications equipment can affect the operation of this equipment. Use of this equipment adjacent to or stacked with other equipment should be avoided as it could result in improper operation. The battery charger operation should be observed to verify normal operation in the presence of such equipment.

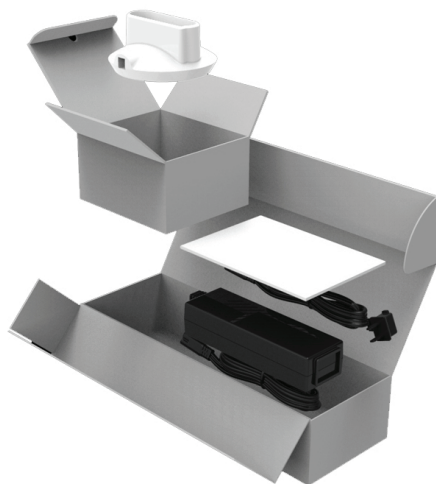
Other devices may experience interference from even the low levels of electromagnetic emissions permitted by the above standards. To determine if the emissions from the battery charger is causing the interference, turn the unit off. If the interference with the other device(s) stops, then the unit is causing the interference. In such rare cases, interference may be reduced or corrected by one of the following measures:

- Reposition, relocate, or increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) is connected.

Refer to the Platinum Mobile Oxygen Concentrator user manual for additional information on EMC.

## 3 Setup

### 3.1 Unpacking



1. Check for any obvious damage to the carton or its contents. If damage is evident, notify the carrier, or your local dealer.
2. Remove all loose packing from the carton.
3. Carefully remove all the components from the carton.



Unless the battery charger is to be used IMMEDIATELY, leave it in its packaging for storage.

4. The battery charger kit contains this User Manual and the following items. If any items are missing please contact your provider.

- Battery Charger Base (P/N 1187520)
- AC Power Adapter (P/N 1187530)
- AC power cord (Part Number 1187454 for model POC1-115, Part Number 1160792 for model POC1-115-AZ, Part Number 1152805 and 1160791 for model POC1-115-EU)

### 3.2 Inspection

Inspect/examine exterior of the battery charger and AC power adapter for cracks, scratches or other damage. If any items are damaged please contact your provider.



Contact Invacare or your health care provider for assistance with the setup procedure or to report unexpected operation or events.

### 3.3 Selecting a Location

**WARNING!****Risk of Electrical Shock**

– Indoor use ONLY. Do not expose to rain.

**CAUTION!****Risk of Damage**

- The battery charger will perform best when operated under the conditions outlined in Specifications.
- Use of the battery charger in environments other than those described may result in the need for increased equipment maintenance.

1. Select a table, shelf or other stable surface that is flat and dry and that will allow for good air circulation around the battery and battery charger.
2. Keep clutter away from battery charger.
3. Keep the battery and battery charger free from dirt, lint and debris.

## 4 Usage

### 4.1 Introduction

The Invacare battery charger, model POCL-115, is intended to allow the patient or caregiver to charge an Invacare model POCL-110 battery independently of the portable oxygen concentrator.

The Invacare battery charger incorporates a multicolored LED indicator to show charging status and an automatic shut off to prevent overcharging.

Your provider should be contacted with any questions or problems regarding your battery charger. This user manual will tell you about your battery charger and will serve as a reference as you use your battery charger.

### 4.2 Charging Your Battery

1. Plug the AC power cord connector into the AC power adapter.



2. Plug the AC power cord into a wall outlet.



3. Plug the outlet connector of the AC power adapter into the input connector of the charger base.



- Align the battery so that the Invacare logo is facing you. Gently place the battery into the charger base as shown. When the battery contacts are engaged, the status indicator light will begin flashing green, indicating the battery is being charged.



The indicator light is off when a battery pack is not installed in the charger base.

Charger base slot is keyed so that the battery pack cannot be inserted backwards.



- When the battery pack is fully charged, the status indicator light will be constant green.
- Remove the battery pack with one hand while holding down the charger base with the other.
- Unplug power cord from wall outlet when charging is complete.

Indicator Light	Charging Status
Flashing green light	Battery is charging
Yellow light (constant on)	Fault condition, refer to Troubleshooting.
Green light (constant on)	Battery is fully charged

## 5 Maintenance

### 5.1 Maintenance

**WARNING!****Risk of Injury or Damage**

This product is specifically designed to minimize routine preventive maintenance. To prevent injury or damage:

- Only professionals of the health care field or persons fully conversant with this process such as factory trained personnel should perform preventive maintenance or performance adjustments on this product, except for tasks described in this manual.
- Users should contact your dealer or Invacare for service.

### 5.2 Service Life

**WARNING!****Risk of Injury or Damage**

The product has been tested for the service life stated in this manual. Use of the product beyond this time period may cause injury or product damage.

- ONLY use the product for the service life stated in this manual. DO NOT exceed the service life of the product.
- Perform all maintenance according to the instructions and recommended schedule in this manual.

The expected service life of this product is three years of operation when used in accordance with the safety instructions, maintenance intervals and correct use stated in this manual. The effective service life can vary according to frequency and intensity of use. Maintenance should be done at least every week. Refer to the Maintenance sections in this manual.

### 5.3 Cleaning and Disinfection Between Patients

**WARNING!****Risk of Injury or Damage**

To prevent injury from infection or damage to battery charger:

- Only qualified personnel should perform cleaning and disinfection of the battery charger and accessories between patients.



Follow these instructions to eliminate possible pathogen exchange between patients due to contamination of components or accessories. Preventive maintenance should also be performed at this time if necessary.

1. Clean battery charger and accessories as described in Maintenance.
2. Disinfect the external hard surfaces of the battery charger and accessories using Madacide-FD Germacidal Solution or substantially equivalent product.

**WARNING!****Risk of Injury or Damage**

- Follow the cleaning/disinfectant product manufacturer's instructions for use, handling, storage and disposal of the product.
- Use of inappropriate disinfecting products may degrade device materials and negatively affect device safety and performance.

3. Perform maintenance procedures described in this manual and items on Preventive Maintenance Checklist.
4. Check battery charger for possible external damage or signs that it may require service or repair.
5. Before repackaging and distribution to new patient, ensure packaging contents contain the battery charger base, AC power adapter and AC power cord.

## 5.4 Periodic Inspections

Unplug battery charger from electrical power source prior to performing inspection.

Inspect/examine the exterior of the battery charger and AC power adapter for cracks, scratches or other damage. Periodically inspect all components for damage or frayed wires.

If damage is found, DO NOT use the battery charger. Contact your provider for service and/or repair.

There are no user serviceable parts.

## 5.5 Cleaning the Housing

**DANGER!****Risk of Injury or Damage**

Liquid will damage the internal components of the battery charger. To avoid damage or injury from electrical shock:

- Remove battery from the charger base and unplug the power cord before cleaning.
- DO NOT allow any cleaning agent to drip inside any openings.
- DO NOT spray or apply any cleaning agent directly to the housing.
- DO NOT hose down the product.

**CAUTION!****Risk of Damage**

Harsh chemical agents can damage the battery charger. To avoid damage:

- DO NOT clean with alcohol and alcohol based products (isopropyl alcohol), concentrated chlorine-based products (ethylene chloride), and oil-based products (Pine-Sol® , Lestoil® ) or any other harsh chemical agents. Only use mild liquid dish detergent (such as Dawn®).

1. Make sure the battery charger is unplugged from electrical power source prior to cleaning.
2. Clean the battery charger housing with a mild household cleaner and non-abrasive cloth or sponge.
3. Keep battery connections dry. Keep the battery connections free of dirt, lint and debris.
4. Allow battery charger to dry before use.



The AC power adapter and AC power cord are to be cleaned in a similar manner.

## 5.6 Storage

1. Store the repackaged battery charger in a dry area. Refer to Specifications in Technical Data for storage temperature parameters.
2. DO NOT place objects on top of repackaged battery charger.
3. Indoor Use Only. Place on a flat, dry surface.



Retain all container and packaging materials for storage or return shipment.

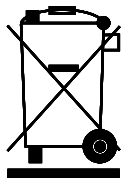


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## 6 After Use

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### 6.1 Recycling Information



This product has been supplied from an environmentally aware manufacturer that complies with the Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC.

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation.

The 'crossed out wheeled bin' symbol is placed on this product to encourage you to recycle wherever possible.

Please be environmentally responsible and recycle this product through your recycling facility at its end of life.

## 7 Troubleshooting

### 7.1 Troubleshooting

If your battery charger fails to operate properly, refer to the following chart for possible causes and solutions. If necessary, contact your provider.




Refer to the Platinum™ Mobile Oxygen Concentrator user manual for additional information in regards to troubleshooting the Platinum Mobile Oxygen Concentrator.

Symptom	Probable Causes	Solutions
Battery not charging. Battery charger status light not illuminated.	<ol style="list-style-type: none"> <li>1. AC power cord not plugged into outlet.</li> <li>2. Outlet not energized.</li> <li>3. AC power cord not plugged into AC power adapter.</li> <li>4. AC power adapter not plugged into battery charger.</li> <li>5. Battery contacts not fully engaged.</li> <li>6. Battery malfunction.</li> </ol>	<ol style="list-style-type: none"> <li>1. Insert plug into outlet.</li> <li>2. Try another outlet.</li> <li>3. Check all power connections.</li> <li>4. Remove and reinsert battery to ensure battery is inserted correctly.</li> <li>5. Try inserting a different POCI-110 battery pack.</li> <li>6. Call provider.</li> </ol>
Battery not charging. Battery charger status light is illuminated yellow.	<ol style="list-style-type: none"> <li>1. Battery out of charging temperature range.</li> <li>2. Battery or battery charger malfunction.</li> </ol>	<ol style="list-style-type: none"> <li>1. Allow battery to warm/cool to room temperature for one hour and retry.</li> <li>2. Try inserting a different POCI-110 battery.</li> <li>3. Call provider.</li> </ol>
Battery not charging. Battery charger status light is illuminated solid green.	<ol style="list-style-type: none"> <li>1. Battery is already fully charged.</li> <li>2. Faulty battery fuel gauge.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check battery charge status using battery fuel gauge.</li> <li>2. If battery is not fully charged, try reinserting.</li> <li>3. Try inserting a different POCI-110 battery.</li> <li>4. Call provider.</li> </ol>

## 8 Technical data

### 8.1 Specifications

Charger Input Voltage:	20.0 VDC
Charger Rated Current Input:	3.6 A (MAX)
Charger Rated DC Output Voltage:	16.8 V (nominal)
Charger Rated DC Output Current:	3.0 A
AC Power Adapter Input:	100–240 VAC, 50–60 Hz, 1.6–0.8 A
Extension Cords:	Not permitted
Charger Width:	4.0 in (10.2 cm)
Charger Height:	2.0 in (5.1 cm)
Charger Depth:	4.0 in (10.2 cm)
Charger Base Weight:	0.45 lbs (0.20 kg)
Power Supply Weight:	1.10 lbs (0.50 kg)
Operating Ambient Temperature and Relative Humidity:	41°F to 104°F (5°C to 40°C) and less than 93% relative humidity (non-condensing)
Recommended Storage and Shipping Environmental Conditions: Additionally, refer to the Platinum Mobile Oxygen Concentrator user manual for the battery pack storage and shipping conditions.	-13°F to 158°F (-25°C to 70°C) and less than 93% relative humidity (non-condensing)

<p><b>Battery Charge Time:</b> (Approximate)</p> <p> Use at the extremes of the operating temperature range can lead to charge times of up to 4 hours</p>	<p><b>Time:</b></p> <p>2 hr 20 min</p>
<p><b>Product complies with the following standards:</b></p>	<p>IEC 60601-1, AAMI ES60601-1 (United States), EN 60601-1, CSA C22.2 No. 60601-1 (Canada), IEC 60601-1-2, EN 60601-1-2, EN 55011</p>
<p><b>CE Marking:</b></p>	<p>This product complies with Low Voltage Directive 2014/35/EU and 93/42/EEC concerning medical devices.</p> <p>The launch date of this product is stated in the CE declaration of conformity.</p>

## 9 Warranty

### 9.1 North American Limited Warranty



THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4, 1975.

This warranty is extended only to the original purchaser who purchases this product when new and unused from Invacare Corporation or a dealer. This warranty is not extended to any other person or entity and it is not transferable or assignable to any subsequent purchaser or owner. Coverage under this warranty will end upon any such subsequent sale or other transfer of title to any other person. This warranty gives you specific legal rights and you may also have other legal rights which may vary from state to state.

Invacare Corporation warrants its battery charger when purchased new and unused to be free from defects in materials and workmanship for a period of one year from date of purchase from Invacare or a dealer, with a copy of the seller's invoice required for coverage under this warranty.

If within such warranty periods any such product shall be proven to Invacare Corporation's satisfaction to be defective, such product shall be repaired or replaced, at Invacare Corporation's option. This warranty only applies to the labor for repairs performed by the Invacare Service Department or Invacare Authorized Service Centers. It does not apply to the labor performed by the purchaser or user. This warranty does not include normal wear and tear or shipping charges. Invacare Corporation's sole obligation and your exclusive remedy under this warranty shall be limited to such repair or replacement. Routine maintenance items are excluded from this warranty.

For warranty service, please contact Invacare Corporation's Service Department at the toll free number on the back cover of this manual. Upon receiving notice of an alleged defect in a product, Invacare Corporation will issue a serialized return authorization. It shall then be the responsibility of the purchaser to return the entire unit or remove, at purchaser's cost, the defective component part(s) identified, pack the component part(s) in a manner to avoid shipping damage and to ship the component part(s) to either Invacare Corporation's plant or service center as specified by Invacare Corporation in advance. Defective component part(s) MUST be returned for warranty inspection using the serial number as identification within thirty days of return authorization date. DO NOT return products to our factory without prior consent. C.O.D. shipments will be refused; please prepay shipping charges.

**LIMITATIONS AND EXCLUSIONS: THE FOREGOING WARRANTY SHALL NOT APPLY TO PRODUCTS SUBJECTED TO NEGLIGENCE, ACCIDENT, IMPROPER OPERATION, MAINTENANCE OR STORAGE, SOOT OR SMOKE-FILLED ENVIRONMENTS, OR OTHER THAN NORMAL APPLICATION, USE OR SERVICE, OR TO PRODUCTS MODIFIED WITHOUT INVACARE CORPORATION'S EXPRESS WRITTEN CONSENT (INCLUDING, BUT NOT LIMITED TO, MODIFICATION THROUGH THE USE OF UNAUTHORIZED PARTS OR ATTACHMENTS) OR TO PRODUCTS DAMAGED BY REASON OF REPAIRS MADE TO ANY COMPONENT WITHOUT THE SPECIFIC CONSENT OF INVACARE CORPORATION OR TO PRODUCTS DAMAGED BY CIRCUMSTANCES BEYOND INVACARE CORPORATION'S CONTROL.**

THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES WHATSOEVER, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE, AND THE SOLE REMEDY FOR VIOLATIONS OF ANY WARRANTY WHATSOEVER, SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT PURSUANT TO THE TERMS CONTAINED HEREIN. THE APPLICATION OF ANY IMPLIED WARRANTY WHATSOEVER SHALL NOT EXTEND BEYOND THE DURATION OF THE EXPRESS WARRANTY PROVIDED HEREIN. INVACARE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGE, OR LIMITATION OF HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

THIS WARRANTY SHALL BE EXTENDED TO COMPLY WITH STATE/PROVINCIAL LAWS AND REQUIREMENTS.

## **9.2 Limited Warranty—Europe, Australia and New Zealand**

Terms and conditions of the warranty are part of the general terms and conditions particular to the individual countries in which this product is sold.

Contact information for your local Invacare office is located inside the back cover of this manual.

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<b>Danmark</b>	Invacare A/S • Sdr. Ringvej 37 • DK-2605 Brøndby • Tel: (45) (0)36 90 00 00 • Fax: (45) (0)36 90 00 01 • denmark@invacare.com • www.invacare.dk
<b>Deutschland</b>	Invacare GmbH • Alemannenstraße 10 • D-88316 Isny • Tel: (49) (0)75 62 7 00 0 • Fax: (49) (0)75 62 7 00 66 • www.invacare.de • kontakt@invacare.com
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