



Invacare® Shark & Shark

**B11**

**Remote**

**Operating manual**

**CE**



## How can you get in touch with Invacare®?

If you have any questions or need support, please contact your authorised Invacare® Dealer, who has the necessary know-how and equipment plus the special knowledge concerning your Invacare® product, and can offer you all-round satisfactory service. Should you wish to contact Invacare® directly, you can reach us in Europe at the following addresses and phone numbers.

<b>A</b>	<b>Invacare Austria GmbH</b> Herzog Odilostrasse 101 A-5310 Mondsee Austria	☎: Fax: @: WWW:	+43 6232 5 53 50 +43 6232 5 53 54 info@invacare-austria.com www.invacare.at
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<b>B</b>	<b>Invacare n.v.</b> Autobaan 22 B-8210 Loppem (Brugge)	☎: Fax: @: WWW:	+32 (0)50 83 10 10 +32 (0)50 83 10 11 belgium@invacare.com www.invacare.be
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<b>CH</b>	<b>Invacare AG</b> Benkenstraße 260 CH-4108 Witterswil Switzerland	☎: Fax: @: WWW:	+41 (0)61487 70 80 +41 (0)61487 70 81 switzerland@invacare.com www.invacare.ch
-----------	---	--------------------------	---

<b>D</b>	<b>Invacare GmbH</b> Alemannenstraße 10 88316 Isny Deutschland	☎: Fax: @: WWW:	+49 (0)7562 70 00 +49 (0)7562 7 00 66 kontakt@invacare.com www.invacare.de
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<b>DK</b>	<b>Invacare A/S</b> Sdr. Ringvej 37 DK-2605 Brøndby Danmark	☎ (Kundeservice): Fax (Kundeservice): @: WWW:	+45 (0)36 90 00 00 +45 (0)36 90 00 01 denmark@invacare.com www.invacare.dk
-----------	--	--	---

<b>E</b>	<b>Invacare® SA</b> c/ Areny s/n Polígon Industrial de Celrà E-17460 Celrà (Girona) ESPAÑA	☎: Fax: @: WWW:	+34 (0)972 49 32 00 +34 (0)972 49 32 20 contactsp@invacare.com www.invacare.es
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<b>F</b>	<b>Invacare® Poirier SAS</b> Route de St Roch F-37230 Fondettes <b>France</b>	☎: Fax: @: WWW:	+33 (0)247 62 64 66 +33 (0)247 42 12 24 contactfr@invacare.com www.invacare.fr
<b>GB</b>	<b>Invacare® Ltd</b> Pencoed Technology Park Pencoed Bridgend CF35 5AQ United Kingdom	☎ (Customer services): Fax (Customer services): @: WWW:	+44 (0)1656 77 62 22 +44 (0)1656 77 62 20 uk@invacare.com www.invacare.co.uk
<b>I</b>	<b>Invacare Mecc San s.r.l.</b> Via dei Pini, 62 I - 36016 Thiene (VI) <b>ITALIA</b>	☎: Fax: @: WWW:	+39 0445 38 00 59 +39 0445 38 00 34 italia@invacare.com www.invacare.it
<b>IE</b>	<b>Invacare Ireland Ltd.</b> Unit 5 Seatown Business Campus Seatown Rd, Swords County Dublin <b>Ireland</b>	☎: Fax: @: WWW:	+353 18 10 70 84 +353 18 10 70 85 ireland@invacare.com www.invacare.ie
<b>N</b>	<b>Invacare® AS</b> Grensesvingen 9 Postboks 6230 Etterstad N-0603 Oslo <b>Norge</b>	☎ (Kundeservice): Fax (Kundeservice): @: @: WWW:	+47 (0)22 57 95 00 +47 (0)22 57 95 01 norway@invacare.com island@invacare.com www.invacare.no
<b>NL</b>	<b>Invacare® B.V.</b> Celsiusstraat 46 NL-6716 BZ Ede <b>Nederland</b>	☎: Fax: @: @: WWW:	+31 (0)318 69 57 57 +31 (0)318 69 57 58 nederland@invacare.com csede@invacare.com www.invacare.nl
<b>P</b>	<b>Invacare Lda</b> Rua Estrada Velha, 949 P-4465-784 Leça do Balio Portugal	☎: ☎: Fax: @: WWW:	+351 225 10 59 46 +351 225 10 59 47 +351 225 10 57 39 portugal@invacare.com www.invacare.pt



**Aterförsäljare:**  
**Invacare® AB**  
Fagerstagatan 9  
S-163 91 Spånga  
**Sverige**

☎ (Kundtjänst): +46 (0)8 761 70 90  
Fax (Kundtjänst): +46 (0)8 761 81 08  
@: sweden@invacare.com  
@: finland@invacare.com  
WWW: www.invacare.se



**Tillverkare:**  
**Invacare® Deutschland GmbH**  
Kleiststraße 49  
D-32457 Porta Westfalica  
**Deutschland**

MÖLNDAL  
☎: +46 (0)31 86 36 00  
Fax: +46 (0)31 86 36 06  
@: ginvacare@invacare.com

LANDSKRONA  
☎: +46 (0)418 2 85 40  
Fax: +46 (0)418 1 80 89  
@: linvacare@invacare.com

OSKARSHAMN  
☎: +46 (0)491 1 01 40  
Fax: +46 (0)491 1 01 80  
@: oinvacare@invacare.com

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**Eastern  
european  
countries**

**European Distributor  
Organisation (EDO)**  
Kleiststraße 49  
D-32457 Porta Westfalica  
**Deutschland**

☎: +49 (0)5731 75 45 40  
Fax: +49 (0)5731 75 45 41  
@: edo@invacare.com  
WWW: www.invacare.de

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# 1 The Shark remote



**WARNING: Danger of injury and damage to the wheelchair, if you lean on the bumper of the light module on the remote!**

- *Never lean on the protective bumper of the remote's light module! It will bend and may possibly break! If it does get bent down accidentally, bend it back up with care!*

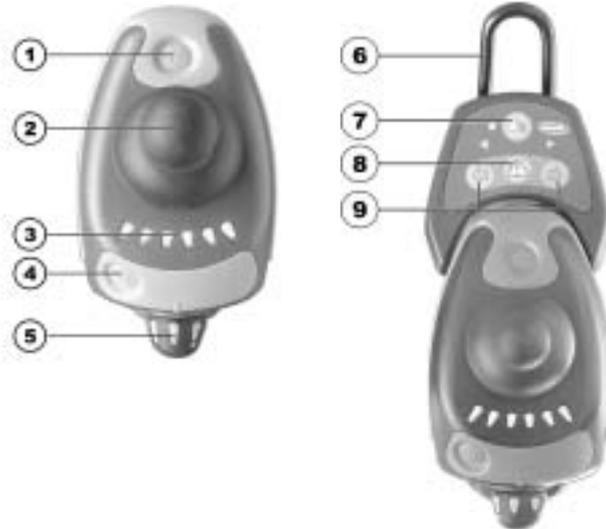
## 1.1 Remote layout

### Top side (standard)

- 1) Horn
- 2) Joystick
- 3) Combined status display / battery charge display
- 4) ON/OFF key
- 5) Rotary knob for speed

### Top side (with optional light controls)

- 6) Protective bumper (also available by itself, without the light module)
- 7) Light
- 8) Warning flashers
- 9) Turn signal left / right



## Bottom

1) Combined charging socket / programming socket



## 1.2 Battery charge display



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**NOTE:**

The battery charge display diode also serves as a status and error message display. For error codes see Chapter "**Error Codes and Diagnostic Codes**" on page 17.

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- All diodes illuminate: **Maximum driving range!**
- Only yellow and red diodes illuminate:  
**Decreased driving range! Charge batteries before starting long journeys!**
- Only red diodes illuminate:  
**Very low driving range! Charge the batteries as soon as possible!**
- Only one red diode flashes:  
**Battery reserve = charge batteries immediately!**

**Battery charge display**

**NOTE:**

Total discharge protection: After a certain drive time on reserve battery power, the electronics system switches the drive off automatically and the wheelchair will be immobile. Total discharge reduces the service life of the batteries considerably.

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## 1.3 Activating / deactivating the drive-away lock (Option)

### Activating the drive-away lock

- Press the ON/OFF button (1) and hold it down for 4 seconds while the remote is switched on. The battery charge display switches off immediately. After 4 seconds, all the diodes illuminate briefly and the horn sounds. The drive-away lock is activated.

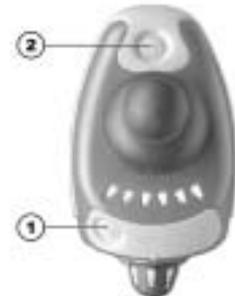
### Activating



### Deactivating the drive-away lock

- Switch the remote on using the ON/OFF key while the drive-away lock is activated. All the diodes on the battery charge display illuminate briefly once. After this, a slow countdown is shown from right to left.
- Press the horn button (2) twice before the countdown has finished. You have around 10 seconds to do this. The drive-away lock is deactivated.

### Deactivating



## 1.4 Steering the wheelchair with the remote

- Switch on remote (ON/OFF key). The displays on the remote illuminate and the wheelchair is ready to drive.
- Adjust the driving speed (rotary knob for driving speed - see section "**Remote layout**" on page 6).



### **Can the electronic system programming be adapted?**

The electronic controller is programmed with standard values during manufacture. Your Invacare® dealer can carry out programming tailored to fit your requirements.

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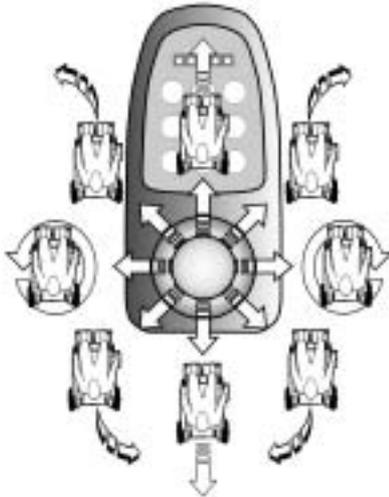
### **Will the wheelchair not drive after switching on?**

Check the drive-away lock (see chapter "**Activating / deactivating the drive-away lock**" on page 9) and the status bar indicator (see chapter "**Battery charge display**" on page 8.).

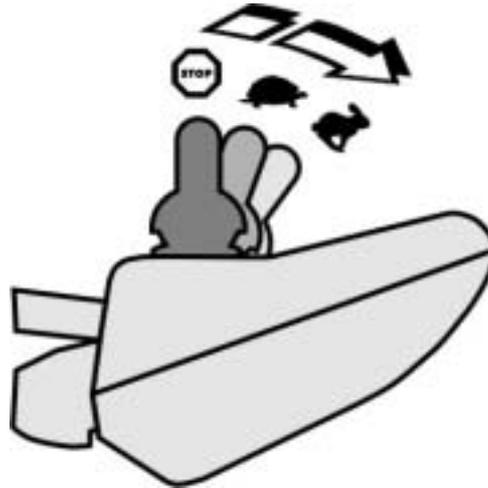
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## 1.4.1 How a wheelchair with "Indirect Steering" reacts to joystick movements.

"Indirect Steering" occurs by individually applying power to the drive wheels, and is found on wheelchairs with front, rear and middle wheel drive.



Travel direction



The further the joystick is moved in a particular direction, the more dynamically the wheelchair reacts.



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### Note:

To brake quickly, simply let go of the joystick. It will then automatically return to the middle position. The wheelchair will brake.

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## 1.5 The Shark B11 Remote (Option)

In addition to all standard functions, the Shark B11 remote can also control two electric actuators, for example one for electric seat angle adjustment and one for electric backrest angle adjustment. In all other respects the Shark B11 is identical to the Standard Shark remote.

### 1.5.1 Layout of the remote

#### Top side

The Shark B11 remote features an additional button for activating the adjustment mode. Otherwise the layout of the controls on the remote is identical to that of the Standard Shark remote.

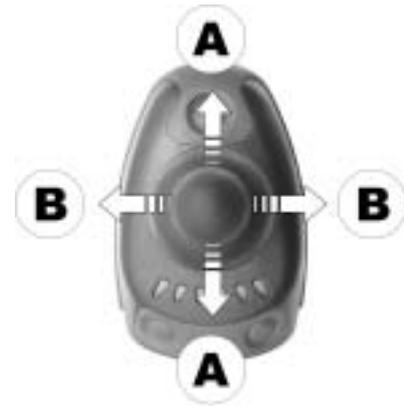
- 1) Activate / de-activate the adjustment mode



## 1.5.2 Operating electric adjustment options

Electric adjustment options are operated using the joystick.

- Press the Adjustment Mode button. The two diodes on the far right of the Battery Charge Indicator commence flashing. The Adjustment Mode is activated.
- Move the Joystick towards the left or the right = Adjustment Option 1 is activated (B).
- Move the Joystick forward or backward = Adjustment Option 2 is activated (A).
- To change back to Driving Mode, press the adjustment mode button once more.



## 1.6 Control unit for an accompanying person (option - not available for all models)

The control unit for an accompanying person enables the control of the wheelchair to be handled by an accompanying person.

### 1.6.1 Layout of the remote

- 1) Joystick
- 2) Change over control unit to accompanying person/occupant
- 3) Activate/connect through/deactive adjustment mode
- 4) Set travel speed

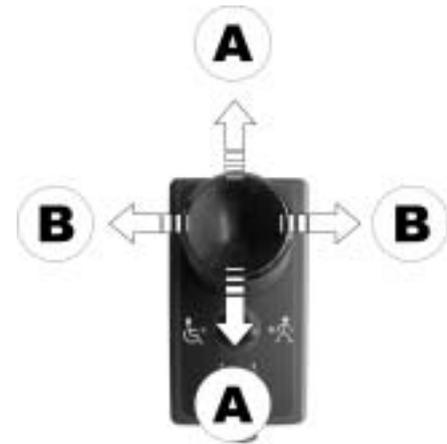


## 1.6.2 Operating the electric adjustment options

Electric adjustment options are operated by means of the joystick.

The control unit must be switched over to 'accompanying person' for the adjustment options to be operated via the control unit for the accompanying person.

- Press the adjustment mode button. Adjustment mode is activated.
- Move the joystick forward or backward = Operate adjustment option (A).
- Move the joystick to the left or right = Change adjustment option (B).
- Press the adjustment mode button again to return to drive mode.



## 1.7 Error diagnosis

If the electronic system shows a failure, please use the following guide to locate the fault.



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**NOTE:**

Ensure that the drive electronics system is switched on before starting any diagnosis.

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**If the status display is OFF:**

**Check whether the drive electronics system is SWITCHED ON.**

**Check whether all cables are correctly connected.**

**Ensure that the batteries are not discharged.**

**If the battery charge display diodes are FLASHING:**

**Count the number of flashes and then proceed to the next section.**

## 1.8 Error Codes and Diagnostic Codes

FLASH CODE	FAULT	EFFECT	Comments
1	User error or drive motors overloaded	Stops driving	<ul style="list-style-type: none"> <li>• Ensure that the joystick is in the neutral central position (simply release the joystick) and switch on again.</li> <li>• Drive motors overloaded. Shut electronics down and then switch on again. If the driving power is still reduced, wait a few minutes.</li> </ul>
2	Battery error	Stops driving	<ul style="list-style-type: none"> <li>• Check battery and supply cable.</li> <li>• Charge batteries. If you switch the wheelchair off for a few minutes, the batteries can often recharge to such an extent that a short run is still possible. However, you should only do this in an emergency, as this causes the batteries to discharge excessively.</li> <li>• Replace batteries</li> </ul>
3	Fault on left-hand motor (M2)	Stops driving	<ul style="list-style-type: none"> <li>• Check motor cable and connecting plugs.</li> <li>• Check motor.</li> </ul>
4	Fault on right-hand motor (M1)	Stops driving	<ul style="list-style-type: none"> <li>• Check motor cable and connecting plugs.</li> <li>• Check motor.</li> </ul>
5	Error on left-hand (M2) wheel lock	Stops driving	<ul style="list-style-type: none"> <li>• Check cable and connecting plugs.</li> <li>• Check brake.</li> </ul>
6	Error on right-hand (M1) wheel lock	Stops driving	<ul style="list-style-type: none"> <li>• Check cable and connecting plugs.</li> <li>• Check brake.</li> </ul>

<b>FLASH CODE</b>	<b>FAULT</b>	<b>EFFECT</b>	<b>Comments</b>
<b>7</b>	Error in Shark remote	Stops driving	<ul style="list-style-type: none"> <li>• Check remote bus cable and all connecting plugs.</li> <li>• Replace remote.</li> </ul>
<b>8</b>	Error in Shark power module	Stops driving	<ul style="list-style-type: none"> <li>• Check all cables and connecting plugs in the Shark system.</li> <li>• Replace power module</li> </ul>
<b>9</b>	Communication error in Shark system	Stops driving	<ul style="list-style-type: none"> <li>• Check all cables and connecting plugs in the Shark system.</li> <li>• Replace remote.</li> </ul>
<b>10</b>	Unknown error	Varying	<ul style="list-style-type: none"> <li>• Check all cables and connecting plugs.</li> <li>• Talk to your dealer.</li> </ul>
<b>11</b>	Incompatible remote	Stops driving	<ul style="list-style-type: none"> <li>• The wrong remote type is connected. Ensure that the power module type code matches the remote type code.</li> </ul>

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**English**