

# OPERATION AND MAINTENANCE MANUAL

Version R0413

ECHO-FLEX # 4400 CHAIR





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# 1 SAFETY INSTRUCTIONS

Please read carefully the following safety instructions before using IBIOM's products. Every person that works with IBIOM's products must be provided with the necessary information and must have access to this manual.



# **WARNING - MAXIMUM CAPACITY**

The IBIOM's stretchers were conceived to be regularly used with people that weighs 350 pounds (159 kg) or less. NEVER EXCEED THIS LOAD.



# **WARNING - USAGE**

On three-section stretcher, NEVER sit on foot section. This may cause the stretcher to flip over.



# **WARNING - MAINTENANCE**

Before beginning any maintenance tasks on an IBIOM product, refer yourself to this manual.

Always unplug the stretcher before performing maintenance tasks on any electric component (motor, control box, remote control, foot control...)

To assure the proper functioning of the stretcher and the various components, please make sure to do the suggested maintenance in this manual.



#### 2 WARRANTY

IBIOM Instruments Ltd offers a lifetime warranty on its products against any manufacturing defect in normal conditions of use. These following components are excluded from this lifetime warranty: the mattresses, the electric components, the retractable rod mechanisms, the brake mechanisms, the armrest mechanisms, the wheels as well as the IV pole. However, these exclusions are covered for a period of **2 years** following the purchase date. This warranty does not apply to any products and components which must be replaced after a normal wear and tear, carelessness, abuse, shipping damages or product use against the indicated instructions and the warnings in this manual. These warranties do not apply to any equipment or component that were repaired or modified by a repairer not authorizes by IBIOM Instruments Ltd.

The electric components are guaranteed against any manufacturing defect in normal conditions of use for a period of <u>3 years</u> following the purchase date and under the same conditions as those enumerated in the previous paragraph.

All repairs to equipment with a expired warranty will be charged at factory prices.





# 3 IBIOM PRODUCT APPROVALS

All IBIOM products are certified by the CSA regulations on electric medical equipment unless contrary indication. The CSA approval sticker is located on the base of the stretcher





# 4 CONTACT US

Before contacting us, please make sure you have the following information in your possession:

- > Stretcher **Serial number** (see previous section of this manual)
- > Stretcher **Model number** (see previous section of this manual)

Telephone 450-678-5468

Fax 450-445-9837

Email <u>info@ibiom.com</u>

Web site <u>www.ibiom.com</u>

Address IBIOM Intruments Ltée

1065, rue du Pacifique, suite 403

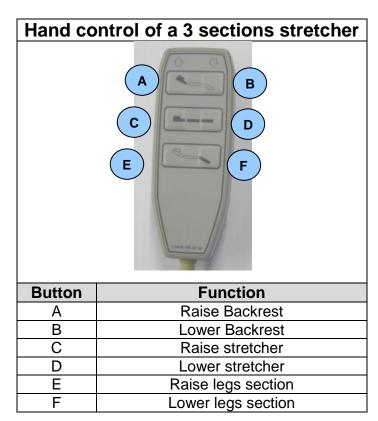
Sherbrooke, Québec

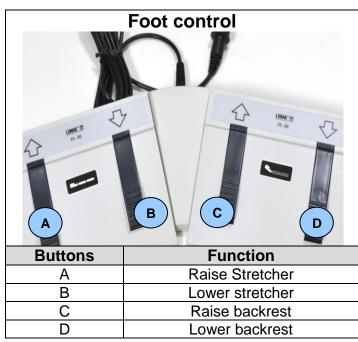
J1H 2G3 Canada



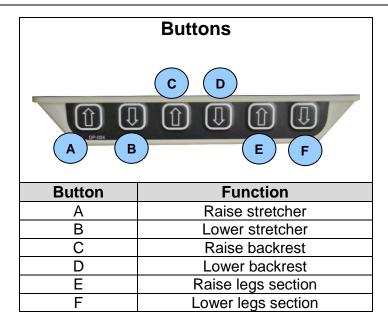
# **5 USER INSTRUCTION**

#### 5.1 Stretcher movements











To avoid any damage to the hand control cable, please use the tie located under the backrest mattress.



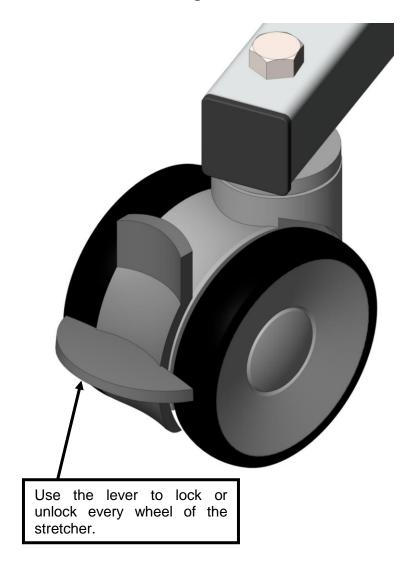
# 5.2 To use the stirrups



- 1- To remove the stirrups, remove the metallic rod from the supports by pulling upwards.
- 2- The stirrups can be moved forwards or backwards according to needs. You only need to lightly unscrew the handles located under the stirrups and slide the stirrups at the desired position and then retighten the handles.
- 3- The stirrups can be directed in various angles according to needs. You only need to lift the metallic rod of the stirrup and to direct the stirrup a the desired angle. Make sure to put back the rod at the bottom of the support to avoid any movement from the stirrup during the use.



# 5.3 To use the individual locking swivel casters



# 5.4 To use the rechargeable battery pack

- The battery pack is fully charged when the stretcher is delivered.
- After every day of use, make sure to recharge the battery pack for a period of 8 hours. You only need to plug the electric cable in the power supply.
- If the battery pack is not use every day, charge the battery as required.



#### 6 FEATURES

#### 6.1 Technical characteristic

#### **Dimensions:**

- Width: Standard 27 in. (69 cm.).
- Length: Standard 71 in. (181 cm.).
- Other widths and lengths available according to needs.
- Height adjustment: 24.5 to 36.5 in. (62 cm. to 93 cm.).
- Fowler back: adjustable from 0 to 80 degrees.
- Legs section adjustment from 0 to 90 degrees.

#### **Maximum capacity:**

Maximum capacity of 350 lbs. (159 kg.).

#### **Mattress:**

- 3 in. (7.6 cm.) or 4 in. (10 cm.) semi-rigid polyurethane foam.
- Covered with a waterproof, heat-conduction synthetic material.
- Covered with PVC free material.

#### **Movements:**

- The stretcher movements can be controlled by a hand controller, a foot controller or a integrated buttons controllers.

#### Wheels:

4 in. (10 cm.) double wheels with individual locking swivel casters.

#### **Advantages and other features:**

- Clear/open space at the base of the stretcher following the user position.
- The patient can easily get on the stretcher without using any footstool.
- All motor are CE and CSA certified (120 VAC, 60 Hz).
- Made and assembled in Quebec



# 6.2 Mattress cleaning instructions

Recommended cleaning products:

- Disinfectant containing sodium hypochlorite (bleaching product) diluted in a ratio of 1:10.
- Disinfecting with hydrogen peroxide products need a maximum concentration of 0.5% p/p (Virox wipe for example).

If the IBIOM products are cleaned with other products or these products in different concentrations, the mattresses warranty won't be applied.

# Turner 11 Brick TURNE11 SPECIFICATIONS

Description	Turner 11 Brick		
Abrasion	Exceeds 500,000 Double Rubs.		
Backing Content	30% Cotton 70% Polyester		
Cleaning Instruction	See Features/Cautions.		
Cold Crack	Product Cold Crack is equal to or greater than -40 degrees Celsius (-40 Fahrenheit)		
Colors Available	26 colors available.		
Construction	Vinyl		
Content	100% Polyurethane ( PU)		
Description	Simulated Leather Vinyl, Contract Rated		
Elongation	ASTM D5034: Warp: 23.4%, Fill: 38.1 %		
Features	PVC Free Wipe with a soft cloth, with cold water and a mild soap. Dry immediately. Phthalate		
reatules	Free		
Fire Retardancy	California Bulletin 117-Section E, Motor Vehicle Safety Standard 302. NFPA 260 Class 1.		
The Netardanoy	UFAC Class 1		
Roll Size	30 yards (27.4 m)		
Style	Solids / Plain		
Tear Strength	Passes ASTM D2261 - Warp = 20 lbs and Fill = 12 lbs.		
Tensile Strength	Passes ASTM D5034 - Warp = 105 lbs and Fill = 74 lbs.		
Ultraviolet	Colorfastness to Light AATCC16 Class 4.5		
Uses	Upholstery		
Weight	14.12 ounces per square yard. 21.18 Ounces per Lineal Yard		
Width	54" (137 cm)		



# 7 MAINTENANCE

We recommend to perform simple maintenance tasks to prevent problems on a long term basis. We suggest before doing any maintenance, to read the security measures at the beginning of this manual.

		Frequency		
Task	What to do	Weekly	Semi- annually	Annually
Cleaning.	IBIOM stretchers must be cleaned regularly to remove any dirt.	X		
Inspection of all mobile parts.	All mobile parts must be inspected to detect mechanical damage, wear and breaks. For example, any cracks, missing components, missing fasteners or any other visible damage that can affect the stretcher performance.		X	
Inspection of all electric components.  Electric components must be inspected at attachment points, cables, wires and plugs for wear and breaks or any other visible damage that can affect the stretcher performance.			X	
Mattresses Visually check the mattresses to detect			Х	
inspection.  Operational test.	<ul> <li>any visible sign of wear or tear.</li> <li>Move stretcher completely up and down to detect any problem (noise, visible damage, loose components)</li> <li>Move backrest section completely up and down to detect any problem.</li> <li>Move legs section completely up and down to detect any problem.</li> <li>Open and close all mobile parts to detect any problem.</li> </ul>			X
Greasing stretcher's pivots.  If the stretcher is making noise when y raise or lower the stretcher, the pi needs to be lubricated. In that cas contact us to obtain the lubricati procedure.		Only if the stretcher is		cher is

NOT DOING THE MAINTENANCE TASKS MAY CAUSE PROBLEMS OR EVEN INJURIES TO USERS. IBIOM WON'T BE RESPONSIBLE FOR ANY INCIDENT IF THE MAINTENANCE TASKS AREN'T DONE.

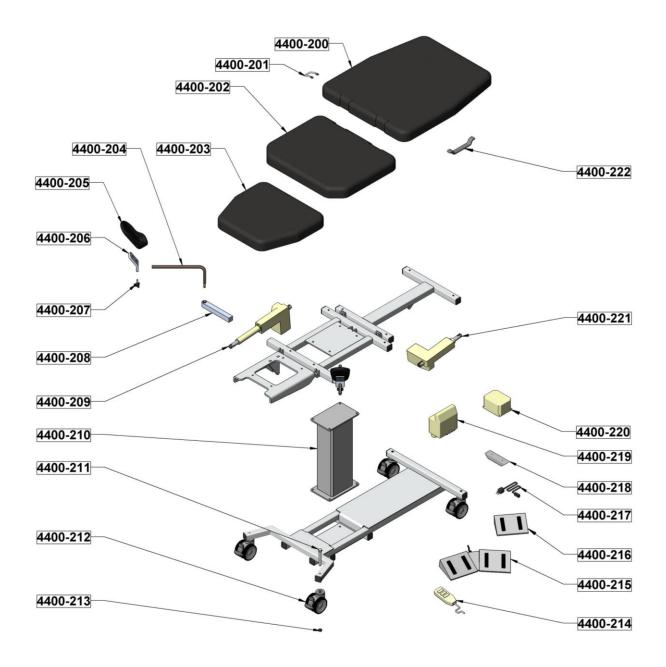


# 8 TROUBLESHOOTING

Problem	Cause	Check	Correction
Hand or foot switch isn't working properly	Hand or foot switch may be damaged.	Make sure that the hand or foot switch is properly connected in the control box.	The hand or foot switch must be replaced. See spare parts list section to find the spare parts number and contact us.
		Make sure that the stretcher electric cable is properly connected in the wall outlet.	
A button from the hand or foot switch isn't working.	Hand or foot switch may be damaged.	Make sure that the hand or foot switch is properly connected in the control box.	The hand or foot switch must be replaced. See spare parts list section to find the spare parts number and contact us.
		Make sure that the stretcher electric cable is properly connected in the wall outlet.	
	The control box may be damaged.	Make sure that all cables are properly connected (control box, power cable, motor)	
		Invert motor cables in control box to see if the problem remains.	If the problem remains, the control box is working properly, the hand or foot switch needs to be replaced. See spare parts list section to find the spare parts number and contact us.
			If the problem has changed, the control box is damaged and must be replaced. See spare parts list section to find the spare parts number and contact us.



# 9 REPLACEMENT PARTS



# **OPERATION AND MAINTENANCE MANUAL**

PART#	DESCRIPTION
4400-200	Backrest mattress
4400-201	Hook for hand controller
4400-202	Seat mattress
4400-203	Legs mattress
4400-204	Stirrup rod
4400-205	Molded stirrup
4400-206	Stirrup plate
4400-207	Stirrup fixation screw
4400-208	Support for stirrup
4400-209	150mm electric motor - legs
4400-210	300mm electric column- height
4400-211	Bolt 1/2 in13NC x 4 in. for wheel fixation
4400-212	100mm double wheels with individual brake
4400-213	1/2 in13NC Nut
4400-214	Triple hand controller
4400-215	Double foot controller
4400-216	Single foot controller
4400-217	Power cord
4400-218	Triple button
4400-219	Control box with integrated charger
4400-220	Battery
4400-221	150mm Backrest electric motor
4400-222	Handle