



## Owner's Manual



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Aquatic access lifts are application specific. A completed Deck Profile Sheet helps to ensure the lift purchased for the application will work in accordance to ADA guidelines. S.R. Smith reviews all submitted Deck Profile Sheets as a service to our customers, free of charge. Before installing the pool lift, the installer must review and confirm the information provided on the Deck Profile Sheet. If the description of the application does not match the installation site, a new Deck Profile Sheet must be completed and submitted to S.R. Smith.

To complete the Deck Profile Sheet online, visit [www.srsmith.com/liftprofile](http://www.srsmith.com/liftprofile), contact Customer Service at (800) 824-4387 or email [sales@srsmith.com](mailto:sales@srsmith.com).

SE,720,003

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# **READ THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE BEGINNING INSTALLATION**

## **INTRODUCTION**

The purpose of this document is to provide information relating to the safe operation, care, and maintenance of the **aXs 1000/EU/K**.




Intended Lift User:

All of S.R. Smith's lifts have been designed to assist anyone who has problems entering or exiting a swimming pool or spa - the only restriction is that the User does not exceed the weight limit of the product (300 lb/136 kg to 400 lb/181 kg depending upon model). It is the responsibility of the lift Owner to ensure that the correct safety procedures have been put in place and a risk assessment carried out. If a User is mentally challenged or has severe physical disabilities these issues must be taken into account to determine the number of persons required to complete the transfer onto the seat and the number of persons required to be in the water, ready to receive the User. The correct stabilizing system (seat belt or stability vest) must be attached to the seat and fully fastened and used during each transfer.

Our goal is to provide our customers with the most advanced and innovative designs offering exceptional quality at affordable prices. All of our lifts meet the specifications set forth by the Access Board - ADAAG 2004 (US only), Medical Device Directive, and ISO10535:2006 including repeating the lifting cycle of the hoist (lift) for a total of 11,000 cycles. The lift system and AC powered battery charger complies with EN60601-1-2, 2007/03.

US Patent No. 5,790,995

aXs, the aXs logo and LiftOperator are registered trademarks of S.R. Smith, LLC.

<b>Model / Product No.</b> _____ <b>Product Name</b> _____

<b>S.R. Smith, LLC</b> PO Box 400 1017 SW Berg Parkway Canby, Oregon 97013 USA Phone: 503-266-2231 Fax: 503-266-4334 www.srsmith.com Made in USA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">SN S</div>
<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>EC REP</b></div>
QNET B.V. Hommertweg 286 6436 AM Amstenrade The Netherlands qnet@ce-mark.com qnet@ce-authorizedrepresentative.eu
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<b>24 VDC</b>

## WARNINGS AND SAFETY SUMMARY



**DANGER – FAILURE TO FOLLOW THESE WARNINGS, INSTRUCTIONS AND THE OWNER’S MANUAL MAY RESULT IN SERIOUS INJURY OR DEATH**



### WARNING

- **ADULT USE ONLY** – Use by children with adult supervision only. Only persons healthy enough for water activities should use the aXs. Users should consult with their physician to determine if water activities are appropriate for the User.
- Seat belt is to be used at all times during user transfer.
- **NO JUMPING/DIVING/CLIMBING** – Do not jump/dive from or climb on lift.
- Limit for use is ONE PERSON weighing less than the maximum weight limit of – 300lbs (136kg) for the aXs. Use only for transfer of user not as a hoist or crane.
- **PINCH/CRUSH HAZARD** – Always keep hands and fingers clear of lift arms during use.



### CAUTION

- **BATTERY CHARGE LEVEL** – Check Battery Level before each use. Battery must show GREEN >50% charge level before use. When YELLOW <50% charge level is shown the battery must be fully charged before use. When RED <25% charge level is shown the lift must not be used and the battery must be fully charged before use.
- **DAMAGE MAY RESULT** – Do not use the seat or seat frame to move or position the aXs.
- **DAMAGE MAY RESULT** - Do not allow excessive moisture to collect in the battery case, it can affect battery and lift performance and could lead to battery failure and/or the lift failing to operate.



### WARNING

**LIMIT FOR USE IS ONE PERSON  
WEIGHING LESS THAN THE  
MAXIMUM WEIGHT LIMIT OF  
300 lbs (136 kg)**

### ADA GUIDELINE SUMMARY\* (USA Only)

#### 1009.2.1 Pool Lift Location

Pool lift shall be located where the water level does not exceed 48". If entire pool water level exceeds 48", place pool lift where convenient.

#### 1009.2.2 Seat Location

In the raised position, the centerline of the seat shall be located over the deck a minimum of 16" from the edge of the pool.

#### 1009.2.3 Clear Deck Space

On the side of the seat opposite the water; a clear deck space shall be provided parallel with the seat. The space shall be 36" wide minimum and shall extend forward 48" minimum from a line located 12" behind the rear edge of the seat.

#### 1009.2.4 Seat Height

The lift shall stop at 16" – 19" measured from the deck to the top of the seat surface when in the loading position.

#### 1009.2.8 Submerged Depth

The lift shall submerge the seat a minimum of 18" below the stationary water level.

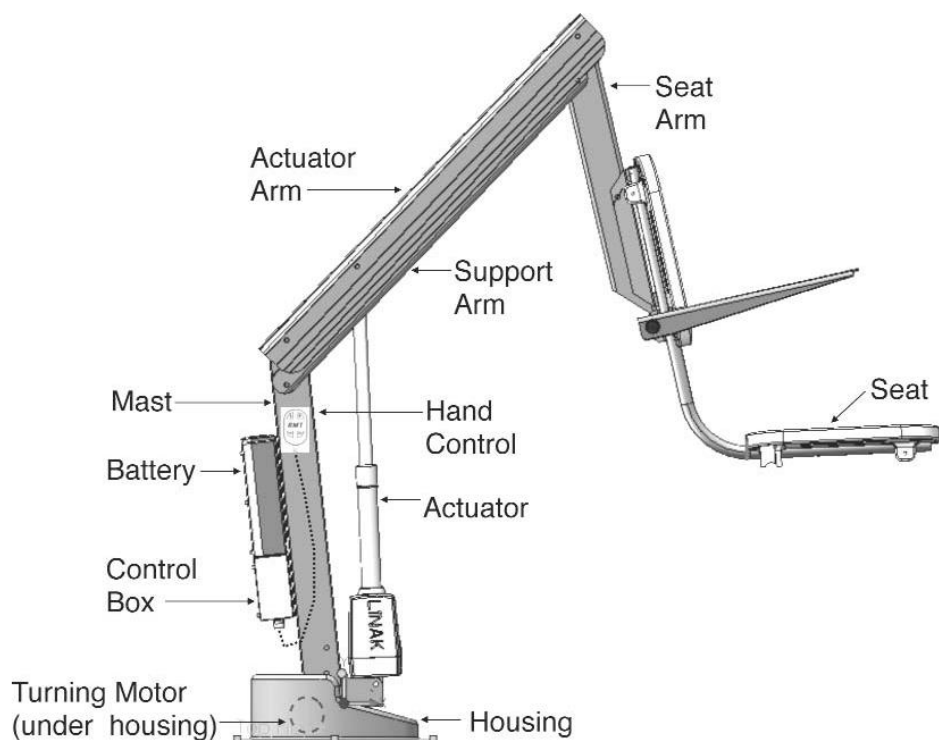
\*Compliance with ADA is the responsibility of the pool owner. Visit [www.ada.gov](http://www.ada.gov) for complete guidelines.

## PRODUCT OVERVIEW

The aXs Aquatic Lift is a semi-portable lift system designed so that individuals with disabilities and mobility impairments can have universal access to residential, hospitality and multiunit facility swimming pools or spas. The aXs is powered by a 24 volt rechargeable battery. The lifting motion is provided by a screw driven electronic actuator and an electronic gear motor provides the turning motion. S.R. Smith has designed the safest possible lift system, following all instructions in the owner's manual, and all product labels is necessary to achieve safe, reliable and proper performance of the lift and avoid injury. This design ensures consistent safe operation and minimizes service problems.

The aXs has a mast height of 36"/92 cm above the deck, provides 360° rotation and is intended to be used with simple pool gutter configurations having a deck to water distance of no more than six inches. Although the aXs must be operated from a stationary deck anchor it can be transported using the aXs Caddy. The Caddy is designed to facilitate lifting the aXs out of the deck anchor and also serves as a storage rack when the lift is not needed. The maximum lift capacity for aXs is 300 lb/136 kg. Only persons healthy enough for water activities should use the aXs. Users should consult with their physician to determine if water activities are appropriate for the User.

## aXs - PRODUCT COMPONENTS



**aXs 1000**

## COMPONENT DESCRIPTION

The lift is made up of several components:

**Base Assembly** - Mounts to the pool deck contains the turning elements of the lift.

**Base Insert Stem** - Slides into the anchor sleeve that is installed on the pool deck.

**Mast** - The main vertical component of the lift.

**Actuator Arm** - Primary lifting arm of the lift connects the mast to the seat arm and is raised by the attached actuator.

**Support Arm** - Provides stability for the seat arm.

**Seat Arm** - Provides an attachment point for the seat assembly and nests inside the actuator arm to avoid pinch points.

**Housing** - ABS plastic cover with an acrylic cap shields base assembly components from weather. When cleaning the housing, be sure to use a clean, soft, non-abrasive material.

**Actuator** - Provides the up and down lifting action.

**Rotation Motor Assembly** – Consists of a mounting plate, 24-volt motor and small gear.

**Control Box** - The LiftOperator is available with an optional Activation Key feature that provides a higher level of security by allowing control operation only with the use of the activation key. The unit controls all lift operations identical to the user hand set. Three cables connect to the bottom of the Control Box to enable operation of the lift. The largest connector is for the hand control. Connector # 1 is for the motor cable (red stripe). Connector # 2 is for the actuator cable (green stripe).

### Touchpad Control –

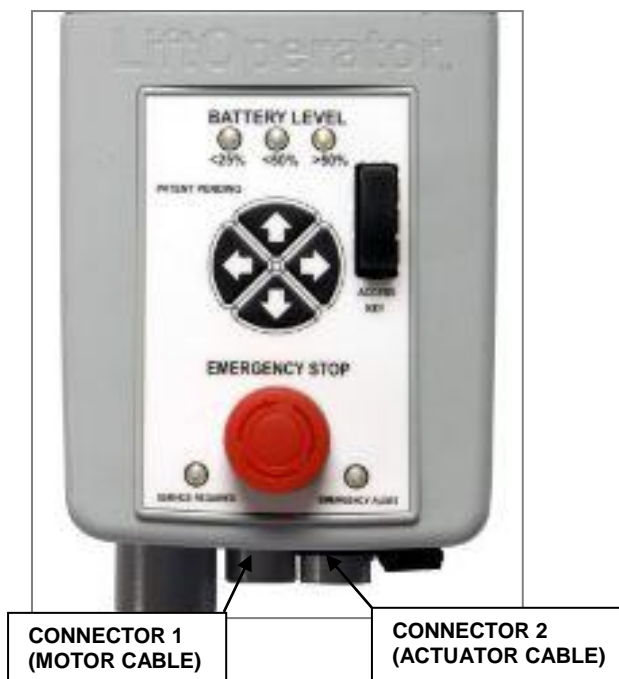
The touchpad control arrow keys can be used in the event that the hand control is out of reach or fails. Simply press and hold the arrow for the desired action for one movement at a time – Up, Down, Left, Right Releasing the Arrow stops movement.

### Battery Level LED Indicators –

The Battery Level LED Indicators show battery charge levels. The LED's will illuminate when either the touchpad control or the hand control is activated and will stay lit for 10 seconds. At greater than 50% the LED glows Green, at less than 50% the LED glows Amber, and less than 25% the LED glows red and indicates the battery requires charging. If the less than 25% LED glows red, do not operate the lift. Remove the battery and fully charge before use.

### Service Required LED –

The Service Required LED will illuminate when the battery pack has been removed/replaced 120 times - approximately once every 4 months. This indicates that required maintenance for the lift must be completed. Please see the maintenance section of the Lift Owner's Manual for the



requirements. The Service Required LED can be reset by inserting a standard FAT-formatted USB mass storage device (not included) into the USB Port on the bottom of the controller. **When the service light is illuminated the lift must not be used until required maintenance is performed.**

### Emergency Stop Button –

In the event of an emergency, or if you need to stop lift movement immediately, pressing the Emergency Stop Button (red button on the control) will stop all lift movement. At the same time an audible alert will sound for 10 sec. then pause for 5 sec. and then the sequence will repeat until the button is reset by turning it in the direction of the arrows on the button (clockwise). The Emergency Alert LED will also flash Red when the button is pressed and will remain flashing until the button is reset.

The Emergency Alert (audible and LED) can be activated by pressing any two buttons on the hand control at the same time (provided with the lift). This will stop all lift movement and activate the audible alert and the Red LED will flash. Once both buttons are released, the lift will return to normal operation and the emergency audible alert will silence.

### Activation Key –

The Optional Activation Key provides a higher level of security by allowing control operation only with the use of the optional activation key. To enable operation slide the Access Key into the slot next to the touchpad control arrows. To disable operation remove the key. When the key is inserted or removed the Battery Level LED will illuminate for 10 seconds.



Activation Key (Option)

### USB Port –

The LiftOperator control contains a USB port that is used to download the performance log of the lift. Using any standard FAT file formatted USB memory stick (widely available through retail outlets) insert the stick into the slot on the bottom of the control on the far right hand side. Press any of the touchpad control arrows; all three of the Battery Level LED's will flash. During downloading the Green greater than 50% Battery Level LED will flash. If the unit has a problem downloading the performance log the Red less than 25% LED will flash. Remove the USB from the port and re-insert it. If the Red 25% LED flashes again, confirm that the USB you are using is FAT file formatted. The information from the USB can be downloaded to a PC for review and/or copied to a spread sheet. The performance log will retain approximately 7,600 events. Once the file is full it will remove the oldest event and replace with the newest.

After the summary data, the events are shown with the oldest first. The first column is the time in seconds from that last event. The second column is the text describing the event. The third column is duration of the activity noted in seconds.

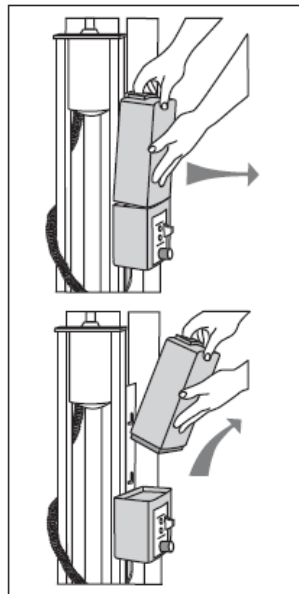
An example of a short log file:

<u>Activity</u>	<u>Description</u>
dev_id_upper,0	Programing data
dev_id_lower,1	Programing data
fw_rev,90	Firmware rev.
batt_volt_float,24929	Non-loaded battery voltage in millivolts
batt_volt_load,21487	Loaded battery voltage in millivolts



batt_capacity,99	Estimated battery capacity in %
charge_starts,8	Number of times charging was attempted
charge_completes,1	Number of times charging was finished successfully
0,power_on,1	Connecting Battery Pack
0,key_enable,	Inserting Activation Key
2,alert_pressed,	Emergency Button pressed
3,alert_released,	Emergency Button released
8,lift_up,2	Lift movement - up
5,lift_down,2	Lift movement - down
11,lift_up,2	
4,turn_left,2	Lift movement - turn left
3,turn_right,1	Lift movement - turn right
308,key_disable,	Removing Activation Key
3,log_write,	USB File Download

**Battery Pack** - The battery pack is located on top of the Control Box and is removable.



**To remove - pull the battery pack away from the mounting plate so that the latch on the battery pack clears the side tabs on the mounting plate - then lift the battery pack up and away from the Control Box.**

**To replace - align the battery pack with the mounting plate so that the latch will drop over the center tab and that the bottom of the battery pack will fit in the recessed area on top of the Control Box. Lower the battery pack in place so that the latch is fully captured by the mounting plate and the battery pack drops fully seated onto the Control Box.**

**The battery must be completely removed from the lift and located away from the pool deck for charging.**



The battery pack should be charged daily. Do not allow battery to fully discharge, as it will shorten battery life.

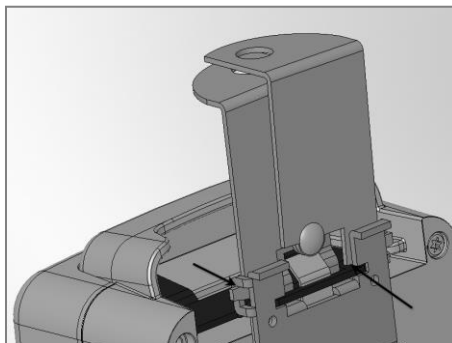
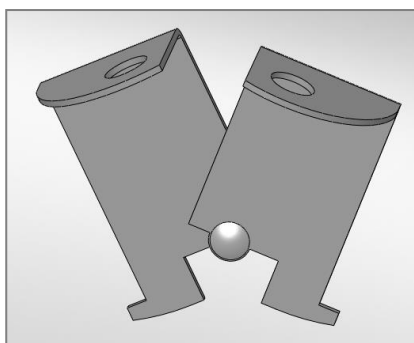
The battery pack has an LED indicator near the plug-in-port. It will glow Red when first plugged into the transformer. If the LED remains Red this indicates the battery pack needs charging. When fully charged the LED will glow Green. If the battery is fully charged and is plugged into the transformer the LED will glow Red for approximately 10 sec. then glow Green. If the LED flashes Red when plugged in this indicates a fault with the battery and indicates the battery pack should be replaced. All batteries are inspected prior to shipment. See warranty policy regarding battery replacement for problems after sale. Batteries have a normal lifespan of between 2-3 years, depending on use and care. A fully charged battery will provide approximately 30 to 40-lifting cycles, depending on the weight of the users. Prior to use the battery charge level should be checked by observing the LED indicator above the charger plug to ensure sufficient charge level. The charger must be connected to the battery to view the LED.

It is not necessary to fully discharge the battery prior to charging. Battery should be charged daily and cannot be overcharged. It takes up to twelve hours to fully charge depending upon battery usage. Do not allow battery to fully discharge, as it will shorten battery life.

Do not drop the battery, as it could cause the unit to fail. If the battery case is cracked do not use and replace the battery. During temperature extremes beyond the range of 41 F (5 C) to 104 F (40 C) remove battery and place in a controlled environment or battery life may be shortened.

**Battery Disposal** - The batteries located inside the battery pack are recyclable and shall be disposed of in accordance with applicable local, state/provincial or federal/national regulations.

**Locking Plate Assembly** - The battery pack can be secured to the mounting plate using the provided lock plate assembly. To install open the lock plate so that the bottom tabs are moved close to one another to allow the lock plate to be inserted into the slots on the mounting plate secured to the lift. Close the lock plate assembly so that the tabs are captured by the slots. Insert a padlock (not provided) through the holes on the lock plate assembly to secure it.



**Hand Control** - The four button unit controls all lift movements. The arrows indicate direction of movement. Control is fully waterproof and meets IP67 standards.

**Seating System** - The seat is manufactured from roto-molded plastic with a stainless steel frame. There are two available forms of safety devices - the standard seat belt and optional stability vest. The seat has attachment points for both devices and both are easy to attach. Be sure to select the appropriate safety device for the intended User.



- It is recommended that people with limited or no body movement at or below the waist shall use the seat belt restraint when using the lift.
- It is recommended that people with limited or no body movement at or below the shoulders shall use the optional stability vest restraint when using the lift.

The seat belt or optional stability vest must be used during each use. The footrest is removable and will float upwards to prevent damage if the seat is lowered too far. It is recommended that the seat be rinsed off with fresh water between each use and cleansed daily with a disinfectant solution of 1:100 dilution of household bleach to fresh water and then rinsed with fresh water. In the event of a contamination incident such as patient/user excreta - cleanse seat and seatbelt or stability vest immediately with the above disinfectant solution. Do not use seat or seatbelt or stability vest if it is damaged or becomes worn out.

The optional armrests (US only - standard on export models) are designed for support when transferring onto the seat. They can be rotated up out of the way during transfer. If the lift did not include the optional arm rests (US only) they can be purchased separately and easily installed at a later date.

This lift seat assembly is designed to be used exclusively with S.R. Smith aquatic access lifts.

## **UNPACKING & ASSEMBLY INSTRUCTIONS**

REFER TO THE DIAGRAM (page 5) FOR PARTS IDENTIFICATION.

### **READ THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE BEGINNING INSTALLATION**

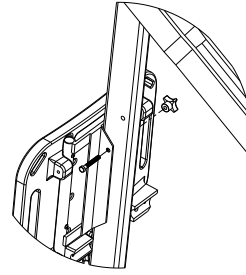
**Prior to opening the shipping pallet, carefully inspect the external condition of the shipping materials for any visible damage. It is important that any damage be noted on the Bill of Lading prior to signing for the delivery. Contact either S.R. Smith or your dealer immediately to notify us of any damage or missing parts.**

**Ensure mounting anchor has been installed in the correct location in the pool deck for proper lift operation. It is recommended that the anchor be installed by a person familiar with installing pool deck equipment.**

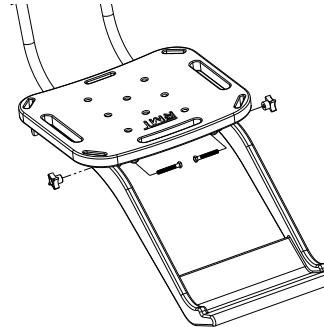
The aXs is shipped on a covered pallet and is mostly assembled; no tools are required for installation and set up. Position pallet close to deck anchor for easier assembly and set up.

### **Unpacking & Assembly Procedure for the aXs:**

1. Carefully remove plastic covering from pallet.
2. Carefully remove any wood bracing from pallet.
3. Remove seat assembly and set aside for attachment.
4. Remove lift from pallet and place into deck anchor.
5. Remove and unwrap hand control from accessory carton. Insert plug into large connector on the Control Box and hang hand control on handle. Make sure plug is secure.
6. Ensure pre-installed plugs are secure in sockets marked 1 and 2
7. Attach battery to Control Box. To remove battery pull slightly away from mounting plate and lift battery pack off of the Control Box.
8. Cover Control Box and battery with Console/Battery Cover to protect from moisture.
9. Check up and down controls for proper operation - both touch pad and hand controls.
10. Check side to side controls for proper operation – both touch pad and hand controls (4 Button Control only).
11. Check Emergency Stop button for operation/activation of internal sounder.
12. For Controls with the optional Activation Key – Key must be inserted into slot for operation. When Key is removed lift will not operate. (Note – Emergency Stop button and alert will operate without Key inserted into slot)
13. Attach battery to Control Box.
14. Rotate lift so that the seat arm is positioned over the pool deck.
15. Attach seat assembly with bolt and thumbnut in appropriate hole. For storage, seat can be attached facing inward for less space.



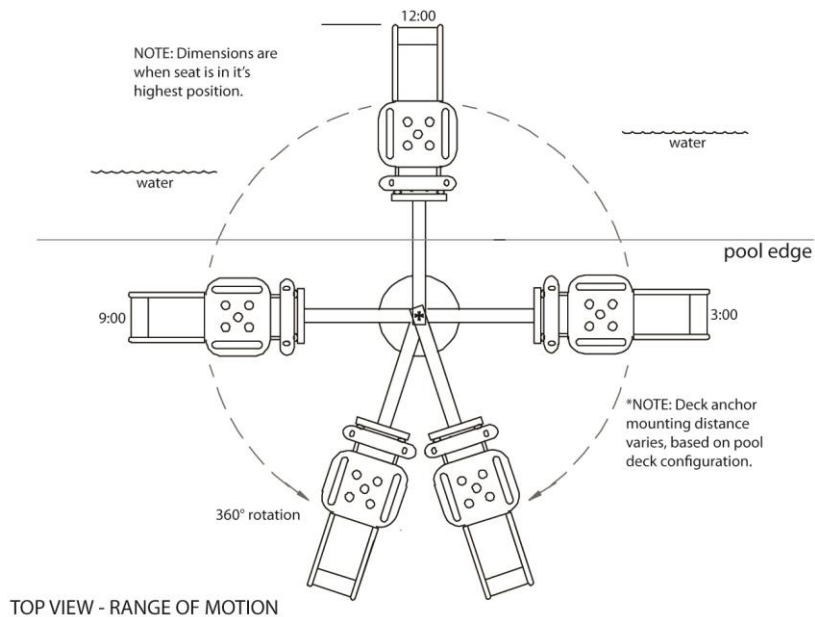
16. Attach foot rest to seat with bolts and thumbnuts.



## USING THE aXs LIFT

**Obey all User Instructions listed in the Owners Manual whenever using lift. Obey all Caution, Warning, Operating Instruction(s) and Labels located on the lift whenever using. It is the responsibility of the lift Owner to ensure that the correct safety procedures have been put in place and a risk assessment carried out. If a User is mentally challenged or has severe physical disabilities these issues must be taken into account to determine the number of persons required to complete the transfer onto the seat and the number of persons required to be in the water, ready to receive the User. If the aXs will be used by a disabled person living on their own, a communication device should be installed in the area of use to call for assistance in the event of an emergency. Only persons healthy enough for water activities should use the aXs. Users should consult with their physician to determine if water activities are appropriate for the User. Keep fingers and hands clear of lift arms during use.**

## aXs Transferring Diagram



## TRANSFERRING

Once the unit is positioned for use, use the following procedure to transfer to the seat and into the water. Only persons healthy enough for water activities should use the aXs. Users should consult with their physician to determine if water activities are appropriate for the User:

- Rotate the seat to either side of lift for best transfer position.
- Raise or lower the seat to proper transfer height.
- Transfer onto the seat, ensuring that the user's weight is centered on seat. Armrests can be rotated up if necessary (optional US/standard on export). If user has a wheelchair, keep the wheelchair close by for easy retrieval.
- Fasten Seat Belt - thread loose end of belt strap through buckle - pull tight - to close - press latch down on belt material.
- Or fasten optional Stability Vest - Position shoulder straps onto shoulders and attach straps to clips on bottom panel of the Stability Vest - pull shoulder straps tight.
- Raise seat to allow enough leg room for rotation.
- Rotate seat to the 12:00 position, over the water.
- Lower the seat into the pool. The waterproof hand control can remain connected to seat if swimmer is operating lift.
- Unfasten Seat Belt - grasp latch and lift up, pull loose end from latch.
- Or unfasten optional Stability Vest - unclip shoulder straps and transfer into water.
- When finished, return to the seat, ensuring user's weight is centered on seat.
- Fasten Seat Belt or optional Stability Vest.
- Raise seat to allow enough leg room for rotation.
- Rotate seat to original transfer position.
- Raise or lower seat to proper transfer height.
- Unfasten Seat Belt or optional Stability Vest.
- Transfer off of the seat.

## IN CASE OF HAND CONTROL FAILURE

**Lifting failure** - In the event of a lifting failure, there are control buttons built into the control box. Press the appropriate up or down/left or right button located on the front panel of the control box.

**If the aXs will be used by a disabled person living on their own, a communication device should be installed in the area of use to call for assistance in the event of an emergency.**

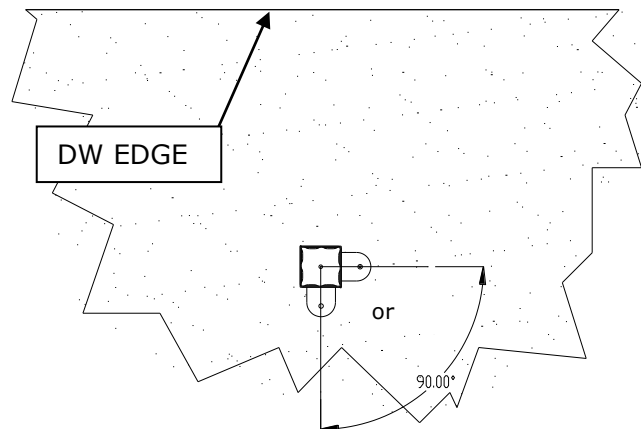
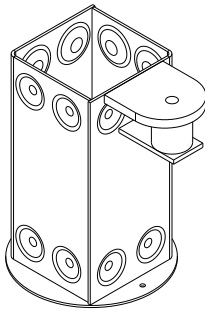
## POOL DECK INSTALLATION FOR THE aXs ANCHOR

**Ensure Locking Anchor has been installed in the correct location in the pool deck for proper lift operation. It is recommended that the anchor be installed by a person familiar with installing pool deck equipment.**

The optimal mounting distance for the deck anchor is between 12"/30.5 cm to 18"/46cm from the edge of the pool. The aXs is designed to be used with simple pool edge designs without protruding gutters. Please call S.R.Smith with any questions concerning deck anchor placement or if the aXs will work in your installation.

### Locking Deck Anchor

(Install the anchor so the locking tab is either parallel to the Deck to Water (DW) edge or perpendicular and furthest away from the DW edge)



## Installing a Locking Anchor in a Concrete Deck

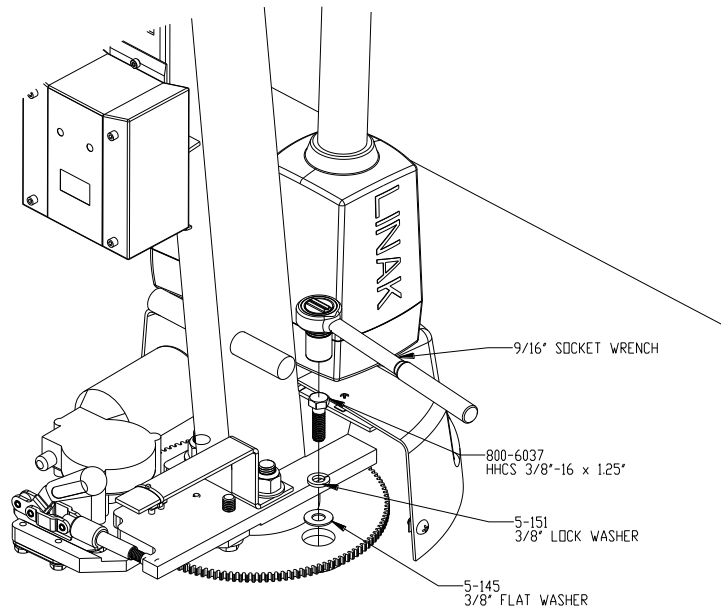
The proper installation of the anchor depends on the construction and condition of the deck. If the deck meets the thickness and re-enforcing requirements shown in Appendix A then the anchor can be installed according to the instructions outlined in Appendix A.

If the existing deck does not meet the requirements outlined in Appendix A then the anchor can be installed per the instructions in Appendix B or you can consult with an engineering professional.

The deck anchor reaction loads can be found in the Specification Section of this manual.

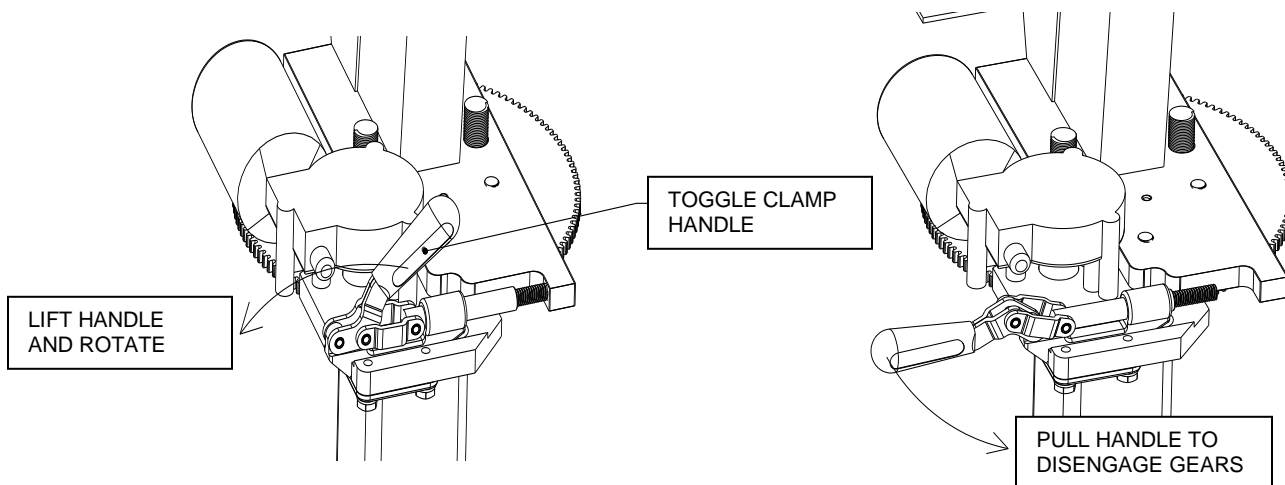
Once installed, you can lock the aXs into place by removing the back housing of the base and use the provided hardware with a 9/16 socket wrench to tighten it into place.

Properly bond the anchor socket using the attached bonding screw per local codes.



## IN CASE OF BATTERY FAILURE

**Turning failure** - If the lift will not turn electronically, remove the housing cover and locate the toggle clamp (red handle). Pull upward on the handle and rotate until the handle is horizontal. With the handle in the horizontal position, pull on the handle to rotate the assembly in the clockwise direction. This will disengage the gears and allow the lift to be turned manually. Follow the proceeding process in reverse to reengage the gear assembly.



**If the aXs will be used by a disabled person living on their own, a communication device should be installed in the area of use to call for assistance in the event of an emergency.**

## STANDARD ACCESSORIES/OPTIONAL ACCESSORIES

The following items are included with all pool lift models:

- Seat Belt Assembly - Nylon water-resistant belt for added security.
- Battery/Charger – 24-volt rechargeable battery.

Optional accessories may be purchased for your aXs lift through your Authorized Reseller. The following accessories are available:

**Console/Battery Cover – P/N AX 9004:** Protects battery and control unit from exposure to moisture

**Stability Vest - P/N 900-2000:** Five point restraint for individuals who need higher degree of stability than provided with standard seat belt.

**Total Cover - P/N AX9000:** Made of weather resistant nylon material to keep unit protected from elements when not in use.

**Arm Rest Assembly – P/N AX2320:** Powder coated stainless steel arm rests for increased sense of security.

**Spine Board Attachment - P/N 500-1000:** Can be used to convert lift for use with any standard spine board. (Spine Board not included)

**Seat Pad - P/N 890-1000:** Waterproof seat pad designed to enhance comfort during transfer.

**Anchor & Cap – P/N 300-6200L** - LiftLock deck anchor measures 2.875”/ 7.30 cm OD, 2.75” / 6.98 cm ID. Includes cap and bonding screw.

## MAINTENANCE and CLEANSING

Minimal maintenance will prolong the life of your lift. Keep all electronic components clean and dry. Excessive moisture collection can affect battery and lift performance and could lead to battery failure and/or the lift failing to operate. If the lift is used outdoors, an optional full cover is available and recommended.

Owners of lifts should be aware of any applicable local, state/provincial or federal/national regulations regarding the inspection and or testing of lifts.

**The following schedule shall be performed to insure proper operation with the Daily items performed before each use:**

Maintenance Performed	Daily	Weekly	Monthly
Check battery level before each use / Charge battery daily	✓		
Wipe Control Box and battery connection with a clean dry rag	✓		
Examine lift for any damage, loose or missing hardware	✓		
Test for normal operation	✓		
Spray gear assembly with a heavy-duty rust inhibitor/lubricant such as LPS 3 - Heavy-Duty Inhibitor		✓	
Make sure all cable connections are properly secured			✓
Inspect lift frame, mast, support arm and seat assembly for rust			✓
<b>Cleansing Performed – after each use</b>			
Rinse seat and seatbelt/stability vest with fresh water between each use - Cleanse seat and seatbelt/stability vest with a disinfectant solution of 1:100 dilution of household bleach to	✓		



fresh water and then rinse with fresh water and dry entire lift daily. In the event of a contamination incident such patient/user excreta - cleanse seat and seatbelt/stability vest immediately with the disinfectant solution*			
Cleanse all battery connections with a nylon scouring pad			✓
Cleanse all metallic surfaces with a cleaner wax to maintain the finish of the lift			✓

**\* When using the disinfection solution avoid direct contact with the skin and eyes. In the event of a contamination incident - immerse the seat belt or stability vest in the disinfection solution for 10 min. and then rinse thoroughly with fresh water.**

## TROUBLE SHOOTING

Be sure the battery is fully charged before troubleshooting.

Lift does not rotate

*Does lift raise or lower?*

Yes.

1. Check connection to Control Box. Be sure plug is pushed in all the way.
2. Check hand control connection to Control Box for damaged pins.
3. Check connections on terminal block located on frame for loose wires.
4. Check connection cable for damage.
5. Try operating the lift using the control buttons on the front panel of the controller. If the lift rotates when using the buttons on the control box, the hand control is likely the problem.
6. If the lift does not rotate when using the buttons on the control box, reverse the motor cables as follows: Locate the area on the Control Box where the cables are attached. Swap the actuator cable from connector #2 with the 24v motor cable from connector #1. Activate the up and down buttons on the hand control. If lift rotates, the problem is likely the hand control. If lift does not rotate, the problem is likely the 24v motor.
7. Contact your Authorized Reseller or S.R. Smith for replacement information.

*Does lift raise or lower?*

No.

1. Check battery charge level.
2. Check battery connection.
3. Use another fully charged battery. If lift continues to not function, replace the Control Box.

Lift does not Raise or Lower

*Does lift rotate?*

Yes.

1. Check connection to Control Box. Be sure plug is pushed in all the way.
2. Check hand control connection to Control Box for damaged pins.
3. Check connection cable for damage.
4. Activate the up and down buttons on the front panel of the control box. If lift raises and lowers, the problem is likely the hand control.
5. If the lift does not raise and lower when using the buttons on the control box, reverse the cables as follows: Locate the area on the Control Box where the cables are attached. Swap the actuator cable from the connector #2 and the 24v motor cable from connector #1. Activate the left and right buttons on the hand control. If the lift raises and lowers, the problem is likely the hand control. If the lift does not raise and lower, the problem is likely the Actuator.

6. Contact your Authorized Reseller or S.R. Smith for component replacement information.

*Does lift rotate?*

No.

1. Check battery charge level.
2. Check battery connection.
3. Use another fully charged battery. If lift does not function, replace the Control Box.

## LONG-TERM STORAGE

When storing the lift for an extended period of time:

- Wash seat with disinfectant solution and then rinse with fresh water and dry entire lift
- Spray gear assembly with a heavy duty rust inhibitor and lubricant such as LPS 3 - Heavy-Duty Inhibitor
- Keep the battery on the charger in a dry temperature controlled area
- Cover unit and store in a dry location away from pool chemicals

*Questions/Comments - Contact us at 800.824.4387 or 503-266-2231 or [info@srsmith.com](mailto:info@srsmith.com). For information regarding Authorized Resellers worldwide visit [www.srsmith.com](http://www.srsmith.com)*

## WARRANTY INFORMATION

S.R. Smith, LLC warrants to the original retail purchaser that products manufactured by S.R. Smith, when properly assembled and installed in accordance with S.R. Smith's assembly and installation instructions, and properly used and maintained, shall be free from defects in material and workmanship for a period of three (3) years from the date of original manufacture except for the following items: WetDek™ (1 year) and PoolSonix™ (2 years). The original retail purchaser must follow the procedure set forth below when submitting a warranty claim. S.R. Smith will repair or replace, at its option, the product, and return it to the owner freight prepaid. Determination of repair or replacement shall be solely at the discretion of S.R. Smith. Aquatic lift systems, components and batteries have a separate warranty, set forth below.

All Aquatic Lifting Systems have a three (3) year warranty on the frame, excluding the powder coated paint finish, which may become scratched with normal use. All electronic and motor components, with the exception of batteries, have a full two (2) year warranty. Within the warranty period, S.R. Smith will repair or replace any item deemed to be found defective. Lift batteries come with a one-year pro-rated warranty. During the first 90 days of ownership, batteries will be covered 100%. If a battery failure occurs between day 91 and day 365, batteries are covered at 50% of the original cost. Normal maintenance and care of the unit, including charging of the battery when not in use is recommended. Do not store the unit, battery or components near or around chemicals.

The warranty is non-transferable and is subject to the following terms and conditions ([View complete S.R. Smith Terms & Conditions](#)):

S.R. Smith shall not be responsible for the cost of removal or replacement of any defective S.R. Smith product, nor for any other expenses or for damages which might be incurred in such removal and replacement.

**This warranty specifically excludes fading of materials, microbiological staining of diving boards or pool slides and rust or corrosion of any metallic products or parts. Refer to S.R. Smith care and maintenance instructions for regular maintenance and cleaning of S.R. Smith Products. Maintenance instructions can be found at [www.srsmith.com/care.php](http://www.srsmith.com/care.php).**

This warranty relates only to defects in materials and workmanship and does not include damage or failure resulting from other causes, including, but not limited to Acts of God, misuse or abuse, accident or negligence, fire, improper assembly or installation, chipping or flaking of powder or vinyl coatings, or ice damage. Damage induced by the improper use of chemicals is not covered by this warranty. In the event that products are altered or repaired by anyone without the prior written approval of S.R. Smith, all warranties are void.

**IMPORTANT: WEIGHT LIMIT ON DIVING BOARDS, JUMP BOARDS, STANDS, SLIDES, LADDERS AND LADDER STEPS SHALL BE NOT MORE THAN 250 POUNDS. EXCEPTIONS: FRONTIER IV BOARD AND BASE NOT MORE THAN 400 POUNDS.**

TURBOTWISTER AND TYPHOON SLIDES NOT MORE THAN 275 POUNDS. CYCLONE SLIDE NOT MORE THAN 175 POUNDS. VORTEX SLIDES NOT MORE THAN 325 POUNDS.

S.R. Smith shall not be liable for any consequential, special or incidental damages, including, but not limited to any damages for loss of use of pools or injury to person or property, and any claims therefore are hereby specifically disclaimed and excluded. Some states do not allow the exclusion or limitation of incidental, special or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. The warranty is extended to, and enforceable only by the original retail purchaser.

If any S.R. Smith products fail during the warranty period as a result of a defect in material or workmanship covered by this warranty, the original retail purchaser must notify S.R. Smith via [www.srsmith.com/warranty.php](http://www.srsmith.com/warranty.php). This notice from the original retail purchaser must contain all pertinent product information as outlined in the warranty claim form. S.R. Smith will determine if the product is to be returned to the factory or will ask that ( 1 ) the defective area and ( 2 ) the part of the product stamped with the serial number be removed and returned. Product pieces must be cleaned and returned freight prepaid to S.R. Smith's facility at either 1017 SW Berg Parkway, Canby, OR 97013 or 105 Challenger Drive, Portland, TN 37418 as determined by S.R. Smith.

THE WARRANTY SET FORTH HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, WHICH ARE HEREBY DISCLAIMED AND EXCLUDED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE.

THE SOLE AND EXCLUSIVE REMEDIES FOR BREACH OF ANY AND ALL WARRANTIES WITH RESPECT TO THE PRODUCTS SHALL BE LIMITED TO REPAIR OR REPLACEMENT AT S.R. SMITH'S DESIGNATED FACTORY OR IN PLACE AT S.R. SMITH'S OPTION. IN NO EVENT SHALL S.R. SMITH'S LIABILITY EXCEED THE ENTIRE AMOUNT PAID TO S.R. SMITH BY THE ORIGINAL PURCHASER FOR THE FAILED OR DEFECTIVE PRODUCT.

IN NO EVENT SHALL S.R. SMITH BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, PUNITIVE OR EXEMPLARY DAMAGES OR LOST PROFITS FROM ANY BREACH OF THIS LIMITED WARRANTY OR OTHERWISE.

No representative of S.R. Smith, nor any of its agents, distributors or dealers has any authority to alter in any manner the terms of this warranty and S.R. Smith is not responsible for any undertaking, representation or warranty made by any other person beyond the warranty expressly set forth in this warranty.

## **Warranty Procedures**

**The S.R. Smith warranty becomes effective on the date of manufacture.**

To initiate a warranty replacement, Please follow the process outlined below.

1. **Take photos of the damaged product.**
  - a) The photo must include the entire unit (i.e. board and stand or slide from a distance).
  - b) Also include one photo or more of the damaged area.
2. **Remove the serial # sticker from the product.**
  - a) S.R. Smith provides a serial # for every board, stand, slide and rail product we produce. The sticker with the serial number for our boards, stands and slides is a silver, 1" long rectangular sticker found on the side or bottom of the item. The serial # sticker for our rail products is clear and 2" long. It will be found on the inside of the topmost curve.
3. **Attach the photos and the serial # sticker to a written request for replacement under the S.R. Smith warranty.** Please include the following information:
  - a) Product name and description. (i.e.: board length/color, curve direction of slide, etc.)
  - b) Date of purchase and/or date of installation.
  - c) Description of damage.
  - d) Shipping address with a contact name and phone number.
4. **Return to us by mail the photos, serial # sticker and your written request to:**

S.R. Smith, LLC  
PO Box 400  
1017 SW Berg Pkwy  
Canby, OR 97013  
Attn: Warranty Specialist

**\*\*Please Note:** Missing information will result in a processing delay and possibly denial of your claim.

Should you have any questions regarding this process, please contact  
S.R. Smith's Warranty specialist at 800.824.4387 or email [warranty@srsmith.com](mailto:warranty@srsmith.com)

## **SPECIFICATIONS**

### **aXs 1000/EU/K**

#### **1. Dimensions/Capacity**

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Mast Height	32"/81 cm
Height-Arm Raised	56.5"/143.5 cm
Overall Length-extended	68.75"/174.6 cm
Storage Length-w/o chair	47"/19 cm
Unit Weight-inc. chair	81 lb/36.7 kg
Unit Weight-w/o chair	68 lb/30.8 kg
Power	24v DC
Battery Life	30 cycles (approx.)
Lifting Capacity	300 lb/136 kg
Anchor Reaction Load	
Vertical	380 lb/172 kg
Torque	1400 ft lb/1898 NM

#### **2. Actuator**

Type	Screw Type Mechanical Actuator
Maximum Thrust	1680 lb/7472N
Voltage	24v DC
Maximum Amp Draw	9
Maximum Speed	0.59 inch/sec./1.49cm/sec.

#### **3. Motor**

Rotation	24 VDC, 13 RPM
Gearing Ratio	9:1

#### **4. Battery**

Power	24 VDC, IP65 Gel Lead Acid
Temperature Range	41 F (5 C) to 104 F (40 C)

#### **5. Range of Motion Information**

Vertical Travel	46"/117 cm
Rotation	Continuous
Widest Arc-inc. chair	61"/155 cm
Narrowest Arc-inc. chair	51"/129.5 cm

#### **6. Noise**

Noise level below 50 dB (A), measured according to DS/EN ISO 3746"

## 7. Materials and Finish Information

Frame	Powder Coated Stainless Steel
Housing	Vacuum Formed ABS Plastic
Arms	Powder Coated Aluminum
Mast	Powder Coated Stainless Steel
Seat Assembly	Seat: Roto-Molded Plastic Frame: Powder Coated Stainless Steel
Covers	Urethane coated nylon

## PARTS LIST

Part Number	Description
AX5001	LA34 Actuator
100-1499	4 Button Control
100-1555	4 Button Control w/Activation Key
100-1495	Replacement Battery Pack
100-1530	Battery Charger
100-4000A	Hand Control
AX1430	Hand Control Hanger
120-1100	24v Motor
120-1800	Motor Cord w/ O ring
100-3100	Battery Bracket
AX2000	Mast
AX2100	Actuator Arm Assembly
AX2200	Support Arm Assembly
AX2300	Seat Arm
AX2400A	Seat Assembly
AX2450	Seat Back/Bottom
AX3000	Large Gear
800-5065	Small Gear
800-5066	Toggle Clamp
AX4000	aXs Housing Back
AX4050	aXs Housing Front
AX9004	aXs Battery Console Cover (Green)
AX9003	aXs Seat Belt Assembly (Gray)
AX8360	Long Bushings
AX8340	Short Bushings
AX8000	Sidewalk Bolt
AX8400	Threaded Shaft-Long
AX8500	Threaded Shaft-Short
AX8800	Speed Nut
300-6200L	Locking Deck Anchor
AX3600	Hub/Spindle Assembly
AX2320	Arm Rest
900-2000	Stability Vest
AX9000	aXs Total Cover (Green)
500-1000	Spine Board Attachment

