

PAL2 AQUATIC LIFT SERIES – CEC COMPLIANT MODELS

OWNER'S MANUAL and MAINTENANCE PROCEDURES



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Read these instructions in their entirety before installation and use:

INTRODUCTION

Reading this document will help ensure safe operation and maintenance of the PAL2 (202-0000).

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). 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. The unit must be correctly positioned with the stabilizer arms fully extended and the rear brakes fully applied prior to use. 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 seatbelt 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.

USING THE PAL2 LIFT

Obey all User Instructions listed in this manual whenever using lift. Obey all Caution, Warning, Operating Instruction(s) and Labels located on the lift. If the PAL2 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 PAL2. 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.

PRODUCT REGISTRATION

Stay informed about the latest product updates and safety information. Visit srsmith.com/en-us/customer-service/product-registration/ to register your lift TODAY!

US Patent No. 5,790,995 PAL2 - Portable Aquatic Lift, the PAL2 logo and LiftOperator are trademarks of S.R. Smith, LLC

WARNINGS AND SAFETY SUMMARY



DANGER - FAILURE TO FOLLOW THESE WARNINGS, INSTRUCTIONS AND THE OWNER'S MANUAL MAY **RESULT IN SEROUS INJURY OR DEATH**

🗘 WARNING

- ADULT USE ONLY Use by children with adult supervision only. Only persons healthy enough for water activities should use the PAL. 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.
- Lift must be positioned on firm level ground not to exceed a slope of 2°.
- NO JUMPING/DIVING/CLIMBING Do not jump/dive from or climb on lift.
- TIP OVER HAZARD Stabilizing arms must be fully extended before each use and must be used at all times when a user is seated. The lift may not be used without the stabilizing arms fully extended. Never attempt to retract the stabilizer arms when the lift is in use. Do not reposition the lift when lift is in use.
- UNINTENDED MOVEMENT/TIP OVER HAZARD Rear wheels must be locked at all times while the lift is in use. Ensure proper ballast weights are installed in base before each use.
- TIP OVER HAZARD Do not use the lift to transport a user from place to place
- TIP OVER HAZARD Limit for use is ONE PERSON weighing less than the maximum weight limit of -300lbs (136kg). 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.
- The battery must be completely removed from lift and located away from pool deck for charging.

• WARNING TIPPING HAZARD

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

! 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 PAL.
- 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

Pinch Points. Moving part can crush or cut. KEEP CLEAR.

Model / Product No. **Product Name**



S.R. Smith, LLC

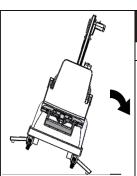
PO Box 400 1017 SW Berg Parkway Canby, Oregon 97013 USA Phone: 503-266-2231 Fax: 503-266-4334 www.srsmith.com Made in USA

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24 VDC



WARNING

TIPPING HAZARDS

- STABILIZING ARMS MUST BE FULLY EXTENDED BEFORE EACH USE AND MUST BE USED AT ALL TIMES WHEN A USER IS SEATED.

 THE LIFT MAY NOT BE USED WITHOUT THE STABILIZING ARMS FULLY EXTENDED.

 NEVER ATTEMPT TO RETRACT THE STABILIZING ARMS WHEN THE LIFT IS IN USE.

 DO NOT REPOSITION THE LIFT WHEN THE LIFT IS IN USE.

 USE ON A FIRM LEVEL SURFACE NOT TO EXCEED A 2° SI OPE

- 2° SLOPE.
 ENSURE PROPER BALAST WEIGHTS ARE INSTALLED IN LIFT BASE BEFORE EACH USE.

- IN LIFT BASE BEFORE EACH USE.

 DO NOT USE THE LIFT TO TRANSPORT USERS FROM PLACE TO PLACE.
 LIMIT FOR USE IS ONE PERSON WEIGHING LESS THAN THE MAXIMUM WEIGHT LIMIT OF 300 LB (136 kg).



- REAR WHEELS MUST BE LOCKED AT ALLTIMES WHILE THE LIFT IS IN USE
- **FAILURE TO LOCK WHEELS MAY** RESULT IN UNINTENDED MOTION OR TIPPING.

ADA GUIDELINE SUMMARY*

1009.2.1 Pool Lift Location

Pool lift shall be located where the water level does not exceed 48" (1219mm). If entire pool water level exceeds 48" (1219mm), 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" (406mm) 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" (914mm) wide minimum and shall extend forward 48" (1219mm) minimum from a line located 12" (305mm) behind the rear edge of the seat.

1009.2.4 Seat Height

The lift shall stop at 16" - 19" (406-483mm) 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" (457mm) below the stationary water level.

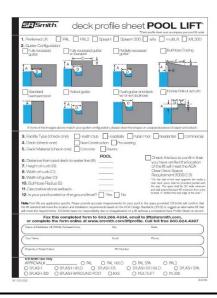
*Compliance with ADA is the responsibility of the pool owner. Visit www.ada.gov for complete guidelines.

DECK PROFILE SHEET

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.

NOTE: FAILURE TO COMPLETE AN ACCURATE DECK PROFILE SHEET MAY RESULT IN THE LIFT NOT MEETING ADA COMPLIANCE GUIDELINES.

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



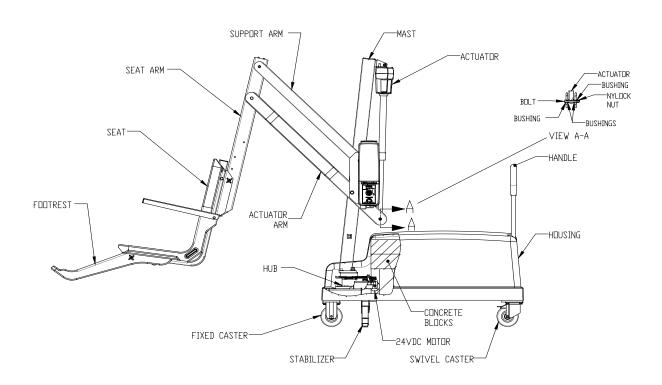
PRODUCT OVERVIEW

S.R. Smith's PAL2 pool lift is designed for safety, as well as consistent, reliable operation. It is essential to follow all instructions in this owner's manual, as well as all warning labels located on the product to ensure safe operation, proper performance and to avoid injury.

The PAL2 Aquatic Lift is a portable lift system designed so that individuals with disabilities and mobility impairments can have universal access to any type of swimming pool. Powered by a 24 volt rechargeable battery, that is operated by a screw-driven electronic actuator that provides the lifting and turning motions. The maximum lift capacity for all PAL2 models is 300 lb/136 kg. The PAL2 lift shall be used on rigid level pool deck surfaces not to exceed a slope of 2°(degrees).

WARNING: The PAL2 lift is designed to transfer users from the deck surrounding the swimming pool into the water and back again. It is not designed to transport users from place to place. Serious injury can result if the lift is moved while a user is in the seat.

PAL2 – PRODUCT COMPONENTS



COMPONENT DESCRIPTION

The Base Assembly is made up of several components as described below:

Wheels - Front wheels are rigid and back wheels swivel to facilitate movement. Both back wheels can and must be locked to prevent movement during transfer to and from the pool.

WARNING: Failure to lock both rear wheels during transfer could cause lift movement and may result in injury. Both rear wheels must be locked whenever the lift is positioned for use. Do not unlock rear wheels during transfer as the lift could move and may result in injury.

Main Frame - The rectangular piece that is fixed to the wheels - the main frame is made up of several components:

Stabilizing Arms - Two arms pull out to level the lift and must always be fully extended when the lift is in use.

WARNING: Failure to fully extend both stabilizer arms during transfer could cause lift movement and may result in injury. Both stabilizing arms must be fully extended whenever the lift is positioned for use. Do not retract stabilizing arms during transfer as the lift could move and may result in injury.

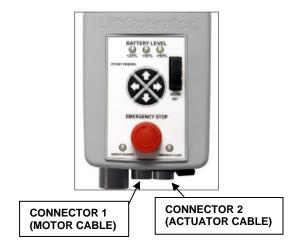
Housing - ABS plastic cover shields main frame components from weather. The housing needs to be in place prior to installing mast assembly.

Handle - Connects to Main Frame through openings in housing.

Lift Operator - The LiftOperator 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.

USB Port -

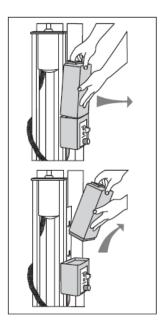
The LiftOperator® control contains a USB port that is used to download the performance log of the lift. Using any standard FAT file formatted USB memory stick (widely available through retail outlets) insert the stick into the slot on the bottom of the control on the far right hand side. Press any of 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:

Activity	<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
2,alert_pressed,	Emergency Button pressed
<pre>3,alert_released,</pre>	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
3,log_write,	USB File Download

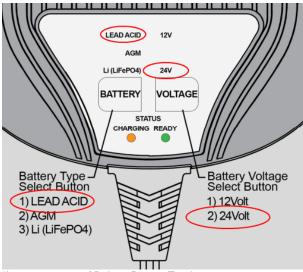
Battery Pack - The battery pack is located on top of the Control Box and is removable.



<u>To remove</u> - 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.





*Image courtesy of Deltran Battery Tender

The battery pack should be charged daily. Do not allow battery to fully discharge, as it will shorten battery life. Whenever battery is removed from Control Box or lift that is not in use it is important to connect the battery to the charger. This ensures battery is fully charged and ready for use.

Prior to connecting the charger to the battery, make sure that the LEAD ACID battery type is selected and that the selected voltage is 24V. After the correct battery type and voltage is selected, connect the charger to the battery.

The battery charger has an LED indicator to show charging status. The following describes LED indicator operation.

Amber Light Flashing – The amber light flashing indicates that the battery charger has AC power and the microprocessor is functioning properly. If the amber light continues to flash, either the battery voltage is too low (battery pack needs to be replaced), or the battery charger is not properly connected to the battery.

Alternating Green/Amber (Amber LED & Green)

• This indicates reverse polarity connection to the battery.

or

• The charger's safety timer has activated due to the battery not reaching its optimal voltage. The battery may be defective, contact S.R. Smith customer service for troubleshooting.

Amber Light on Steady – Whenever the amber light is on steady, a battery is connected properly to the charger and the charger is charging the battery. The amber light will remain on until the charger completes the charging stage.

Green Light Flashing – When the charger shows a green flashing light, the battery is 80% charged. Whenever possible, leave the battery on the charger until the green light is solid.

Green Light on Steady - When the green light stops flashing and remains on steady, the battery is fully charged and can be returned to service. The battery can and should be left on the charger when not in use.

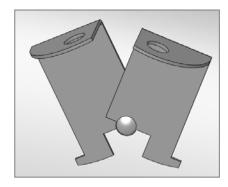
Batteries have a normal lifespan of between 2-3 years, depending on use and care. A fully charged battery will provide approximately 30 to 40-lifting cycles, depending on the weight of the users. Prior to use the battery charge level should be checked by observing the LED indicator on the charger plug to ensure sufficient charge level. See warranty policy regarding battery replacement.

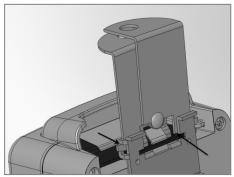
It is not necessary to fully discharge the battery prior to charging. Battery should be charged daily and cannot be overcharged. It takes up to twelve hours to fully charge depending upon battery usage. Do not allow battery to fully discharge, as it will shorten battery life. Whenever battery is removed from Control Box or the lift is not in use it is important to connect battery to charger. This ensures battery is fully charged and ready for use.

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. Do not place battery on a conductive surface. 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.

Mast - This vertical piece is bolted to the base assembly.

Actuator - Attached to mast, it powers the lift's up and down movements.

Rotation Motor Assembly - Mounting plate, 24-volt motor, and small gear.

Hub Assembly - Hub, bearings, shaft, large gear and mast mounting plate.

Horizontal Support Arms - These two support arms connect the mast to the seat support arm. The longer horizontal support arm (actuator arm) connects to the actuator and initiates lifting movements.

Seat Arm - Connects the seat to the horizontal support arms.

4-Button Hand Control

Seating System – The seat is manufactured from roto-molded plastic with a stainless steel frame. The seat comes standard with a seatbelt. The seatbelt must be used during each use. 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 immediately with the above disinfectant solution. Do not use seatbelt if it is damaged or becomes worn.

Armrests are included as a standard item on all S.R. Smith lifts. The armrests are designed so they can be rotated up out of the way during transfer.

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

UNPACKING & ASSEMBLY INSTRUCTIONS

REFER TO DIAGRAM (page 23) FOR PARTS IDENTIFICATION.

READ THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE UNCRATING PAL2

Prior to opening pallet, inspect external condition for any visible damage. It is important that any damage be noted on the Bill of Lading. Immediately notify S.R. Smith or your Authorized Reseller of missing or damaged parts.

The PAL2 is shipped on a covered pallet and is **VERY HEAVY**. You will need the following tools for unpacking and assembly:

- 3/4" or 19mm socket wrench
- 9/16" or 14mm socket and 9/16" or 14mm wrench
- small flat blade screwdriver
- knife or cutters to cut shrink-wrap/bands
- claw hammer

Unpacking & Assembly Procedure for the PAL2

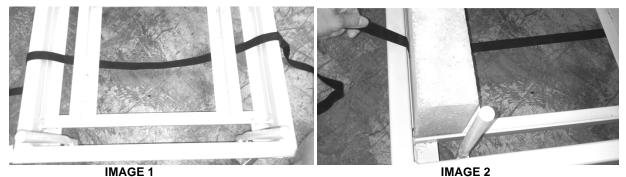
- 1. Cut open enclosure bag at base of unit carefully remove plastic.
- 2. Cut internal bands remove mast assembly, seat assembly and housing. Lift assembly by mast and seat arm. **Do not lift mast assembly by actuator as this could damage the actuator**.
- 3. Remove accessory box.
- 4. Remove the PAL2 handle from the frame.
- 5. Roll the main frame from the pallet, across the top of the concrete weights. Position main frame close to pallet and lock both rear casters.
- 6. Counter Weights and Weight restraint belts.

The concrete weights for the lift are located in the bottom of the pallet. Using the claw hammer, remove the wood restraints to gain access to the blocks. In the accessory carton are the two black belts used for restraining the weights. Follow the images below to properly install the belts and concrete blocks.

Each concrete weight is approximately 33 lbs /13.6 kg.

Weights leave the factory in good condition; however, they may have shifted during shipping. Inspect the weights prior to installation to be sure there are no cracked or broken blocks. DO NOT USE DAMAGED WEIGHTS. Contact S.R. Smith at (800) 824-4387 or customercare@srsmith.com for replacement.

Use caution when lifting the weights, until they are in their final position, mishandling can crack or break the weight.



Lace the belts through the frame, as shown in **Image 1**. Place the outer most blocks in position, as shown in **Image 2** and pull the slack out of the restraint belts.

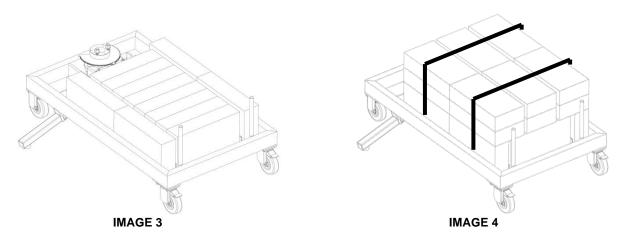


Image 3 shows the first layer of concrete weights installed. **Image 4** shows how to properly stack the last two layers of concrete weights, using all 24 blocks. Close all gaps between the top layers, ensure they are all touching and pressed firmly together before tightening the weight straps.

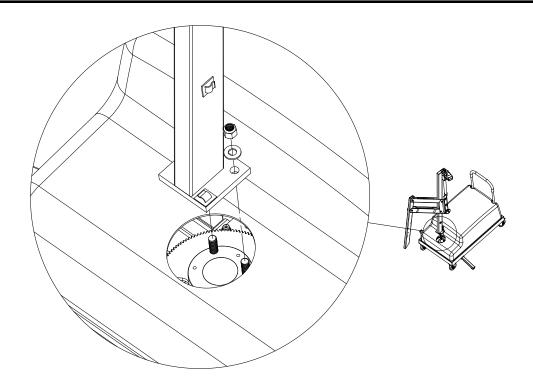


IMAGE 5

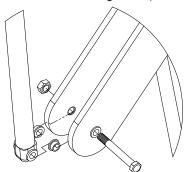
Tighten both straps as shown in **Image 5** across the top of both rows of weights. Loop the strap through its buckle and pull firmly securing each top row of weights.

CAUTION: The restraining harnesses must be correctly installed. Failure to correctly attach the restraining harness to frame may result in the weights shifting during use.

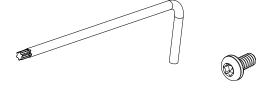
- 7. Place housing on frame. Ensure the housing fits square and flush to the frame. If necessary, re-adjust the concrete blocks to address any interference with the housing cover.
- 8. Remove the two lock nuts and washers from mast mounting hub on base assembly (as shown below).
- 9. Position mast assembly through housing and attach to study located on base assembly with lock nuts and washers. Fully tighten with 3/4" or 19mm socket wrench.



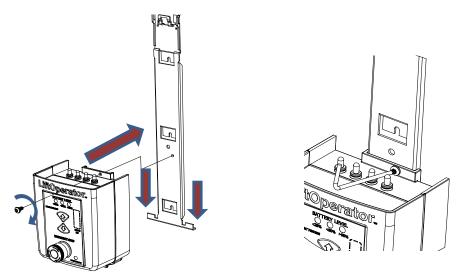
10. Remove plastic from the mast assembly. Remove 3/8"(10mm) bolt and nut from the end of the actuator arm. Following the illustration below, attach actuator end to end of actuator arm using the 3/8"(10mm) bolt and nut. Fully tighten bolt and nut using 9/16"(14mm) socket and wrench.



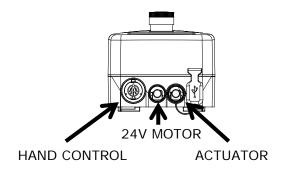
11. The accessory carton contains the control box. Remove the control box and separate the T-20 Star wrench and the small torx screw from the control box.



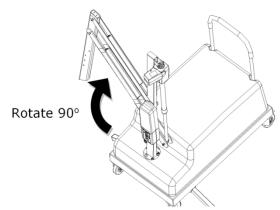
12. Attach the control as illustrated below.



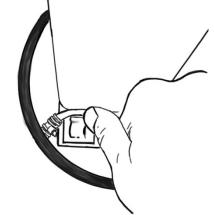
- 13. Remove the battery from the accessory carton and carefully attach to controller.
- 14. Insert actuator cable (green label) into connector #2 on the Control Box. Make sure the plug is secure and fully seated.



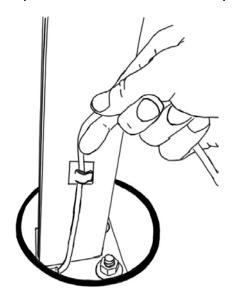
- 15. The 24V motor cable will be secured to the mast in **step 18**. For the moment, simply string it through the housing mast hole. Plug the 24V motor cable (red stripe) into connector #1 on the Control Box. Make sure the plug is secure and completely seated. <u>Allow the 24V motor cable to hang freely and untangled from the first pre-installed clip.</u>
- 16. Remove the hand control from the accessory carton. Insert plug into large connector on the Control Box aligning the key way of the plug.
- 17. With the battery connected and the 24V Motor plugged in. Rotate the lift using the right arrow so that the white plastic wire clips attached to the mast face forward. Next, unplug the 24V motor cord from the controller.



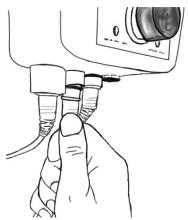
18. To secure the motor cord, follow the steps in the figures below -



A: Clip the wire into the lower mast clip

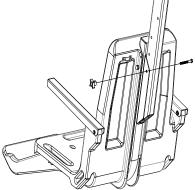


B: Lightly tension the wire and clip it into the higher mast clip.



C: Make sure there are no tangles. Then plug the 24V Motor into place.

- 19. Check up and down controls for proper operation both touch pad and hand controls.
- 20. Check left and right controls for proper operation both touch pad and hand controls.
- 21. Check Emergency Stop button for operation/activation of internal sounder.
- 22. Remove battery and charge it fully before use.
- 23. Fully extend both stabilizer bars and fully lock both rear wheels to prevent movement.
- 25. Attach seat assembly with bolt and thumbnut in appropriate hole. For storage, seat can be attached facing inward for less space.



26. Attach footrest to seat with bolts and thumbnuts.



USING THE PAL2

Obey all User Instructions listed in this 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 PAL2 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 PAL2. 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.

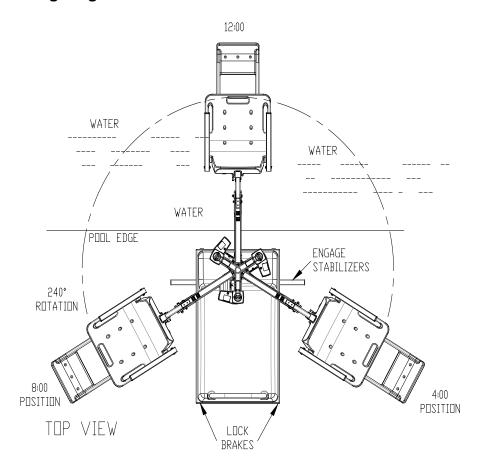
POSITIONING

Important things to remember when positioning the PAL2 for use:

- Maintain a firm grip on the handle use care when positioning the PAL2. It is heavy (1060 lb/ 481 kg).
 Only the handle should be used to position the lift. Do not use the seat as a hand hold to move the PAL2.
- 2. Position the PAL2 on level ground not to exceed a slope of 2º and in an area that allows for safe transfer to and from a wheelchair. Consult the ADA guidelines on page 4 for more detailed information.
- 3. Fully extend both stabilizing arms.
- 4. Lock both rear wheels.

WARNING: Failure to fully extend both stabilizing arms and to lock both rear wheels could cause lift movement during transfer and could result in injury. Both stabilizing arms must be fully extended and both rear wheels must be locked whenever lift is used. Do not retract stabilizing arms or unlock rear wheels during transfer as the lift could move and may result in injury. The maximum lift capacity is 300 lb/136 kg. Keep fingers clear of lift arms during use.

PAL2 Positioning Diagram



TRANSFERRING

Once the unit is positioned for use with both **stabilizing arms fully extended and both rear wheels locked** - use the following procedure to transfer to the seat and into the water. Only persons healthy enough for water activities should use the PAL2. 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.
- Rotate seat to either side of the lift for the ideal transfer position.
- Raise or lower seat to ideal transfer height.
- Transfer onto seat, ensuring 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 chair 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.
- Raise seat to allow enough legroom for rotation.
- Rotate seat to the 12 o'clock position, over water.
- Lower seat into 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.
- When finished, return to seat, ensuring user's weight is centered on seat.
- Raise seat to allow enough legroom for rotation.
- Rotate seat to original transfer position.
- Raise or lower seat to proper transfer height.
- Unfasten Seat Belt.
- Transfer off of seat.

WARNING: The PAL2 lift is designed to transfer users from the deck surrounding the swimming pool/spa into the water and back again. It is not designed to transport users from place to place. Serious injury can result if the lift is moved while a user is in 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 PAL2 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.

IN CASE OF BATTERY FAILURE

Turning failure - If the lift will not turn electronically, you can remove the housing and loosen the nut (7/16" – 11mm) on the tension spring located next to the turning motor. This will disengage the gears and allow the lift to be turned manually.

If the PAL2 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 PAL2 – through your Authorized Reseller. The following accessories are available:

Deck Cover PAL2 - # 920-5000: Made of weather resistant nylon material to keep unit protected from elements when not in use.

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

Console/Battery Cover – # 910-1000: Protects battery and control unit from exposure to UV and moisture.

PAL Secure-it Kit- # 200-1090A: Used to secure lift in place on deck.

MAINTENANCE and CLEANSING

Minimal maintenance will prolong the life of your lift. Keep all electronic components clean and dry. Keep the Console/Battery Cover installed at all times to prevent moisture from collecting on the Control Box and battery. 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 shall be aware of any applicable local, state/provincial or federal/national regulations regarding the inspection and or testing of lifts.

The following schedule must 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			
Inspect weight stack for rust/treat with touch up paint			
Cleansing Performed – after each use			
Rinse seat and seatbelt with fresh water between each use - Cleanse seat and seatbelt 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 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 in the disinfection solution for 10 min. and then rinse thoroughly with fresh water.

TROUBLE SHOOTING

Visit srsmith.com/en-us/customer-service/lift-troubleshooting to view our library of pool lift maintenance and troubleshooting videos.

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.
- 3. 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.
- 5. 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 and 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.
- 6. Contact your Authorized Reseller or S.R. Smith for component replacement information.

Does lift raise or lower?

Nο

- 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 lift does not raise and lower 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 and the 24V motor cable from connector #1. Activate the left and right buttons on the hand control. If lift raises and lowers, the problem is likely the hand control. If 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 disinfection 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
- 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 customercare@srsmith.com. For information regarding Authorized Resellers worldwide visit www.srsmith.com

WARRANTY INFORMATION

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
 - b) Also include one photo or more of the damaged area.
- 2. Write down or take a photos of the serial # sticker from the product.
 - S.R. Smith provides a serial # for every pool lift we produce. The sticker with the serial number can be found at the bottom of the mast near the base.
- 3. Attach the photos and the serial # to a written request for replacement under the S.R. Smith warranty. Please include the following information:
 - a) Product name and description.
 - b) Date of purchase and/or date of installation.
 - c) Description of damage.
 - d) Shipping address with a contact name and phone number.
- 4. Send photos, serial # sticker and your written request by email or mail to customercare@srsmith.com or:

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

**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 503.266.2231 or email customercare@srsmith.com

SPECIFICATIONS

1. Dimensions/Capacity

Overall Height 66"/167.6cm

Base Dimensions Height 23"/58 cm, length. 47"/119cm,

width 28"/71cm

Overall Length with Footrest 119"/302cm (longest possible length)
Overall Length without Footrest 102"/259cm (longest possible length)
Overall Length in Stored position 72"/183cm (raised position, seat facing in)

Total Weight 1060 lb/481 kg

Power 24V DC

Battery Life (Charged) 30 cycles (approximate)

Lifting Capacity 300 lb/136 kg
Maximum Deck Slope 2 degrees
Seat Width 23"/58.5cm

2. Actuator

Lifting Screw Type Mechanical Actuator

Max. Thrust 1680 lb/7472N

Voltage 24V DC 5"/12.7cm Total Lock Swivel

Max. Amp

Max. Speed 0.59 inch/sec./1.49cm/sec.

3. Motor

Rotation 24VDC 13 RPM

Gearing Ratio 9:1

4. Battery

Power 24V DC, IPX3 Gel Lead Acid Temperature Range 41 F (5 C) to 104 F (40 C)

5. Range of Motion

Lifting Variable to configure to each pool. 44"- 58"/112cm –

147cm total travel from highest to lowest point w/

standard actuator.

Seat Depth 18"-20"/46cm – 51cm below water line.

Rotation: 240°

6. Noise

Noise level below 50 dB (A), measured according

to DS/EN ISO 3746"

7. Materials and Finish

Frame Powder Coated Stainless Steel
Handle Powder Coated Aluminum
Housing Vacuum Formed ABS Plastic

Casters

Front Ball Bearing, Stainless Steel, 5"/12.7cm Fixed,

Polyurethane Tread

Rear Ball Bearing, Stainless Steel, 5"/12.7cm Total Lock

Swivel, Polyurethane Tread Powder Coated Aluminum

Arms Powder Coated Aluminum

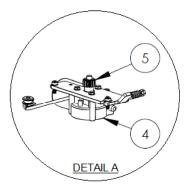
Mast Powder Coated, Stainless Steel

Seat Assembly Seat: Roto-Molded Plastic

Frame: Powder Coated Stainless Steel

PART LIST

Item # Part Number Description 1 400-7000-BC 4 Button Control 2 1001495-BC Battery Pack 3 1001530-BC Battery Charger (Not Shown) 4 120-1100 24v Motor 5 800-5065 Small Gear 6 130-1000 Hub Assembly 7 120-1000 Motor Mount Assembly 8 152-1100A Gray, Mast Assembly 8A 100-5000A LA34 Actuator 8B 152-1200A Gray, Actuator Arm 8C 152-1300A Gray, Support Arm 8D 152-1400A Seat Arm 9 160-8000A Gray, Seat Assembly 10 160-2700A Gray, Foot Rest w/Hardware 11 202-2000 PAL2 Main Frame Assembly 12 200-2000 Rigid Caster 13 200-3000 Swivel Caster 14 220-3100 Concrete Block, PAL² 15 202-6000 PAL2 Housing Assembly 16 200-			
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25 970-5000 Seat Cover (optional accessory, not shown)			shown)
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	25	970-5000	Seat Cover (optional accessory, not shown)
	26	900-6000	



ITEM #7: MOTOR MOUNT ASSEMBLY

