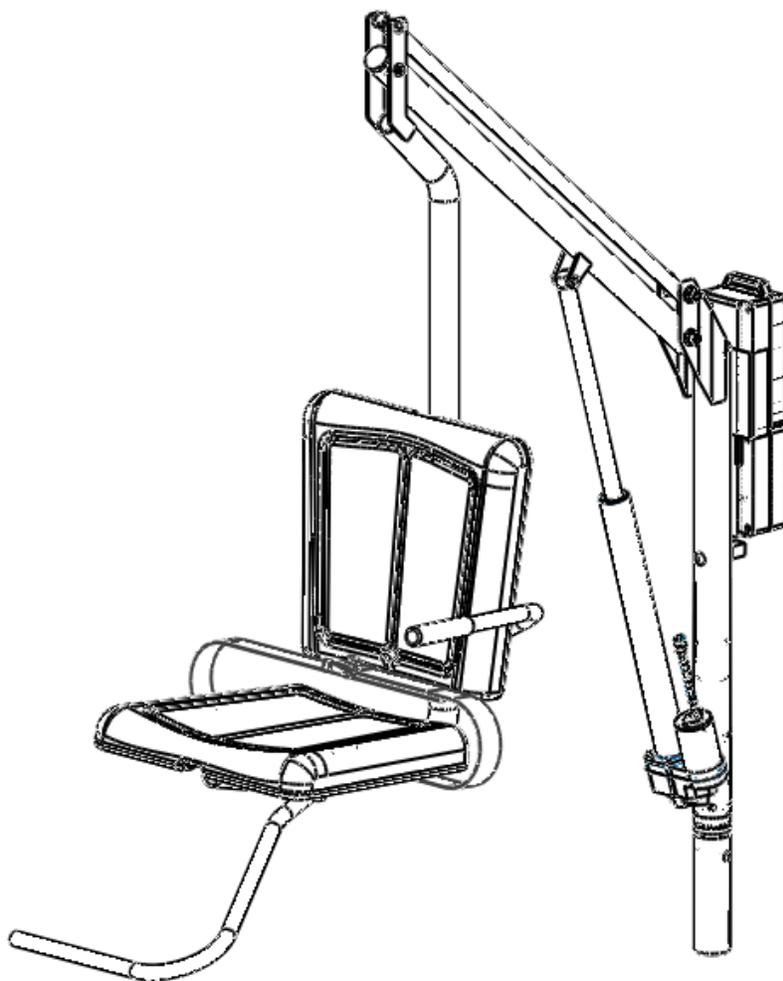


Freedom Lift[®]

Part Number 57961



SPECTRUM[®]
Aquatics

A PLAYCORE[™] Company

7100 Spectrum Lane | Missoula MT 59808 | 800.791.8056 | www.spectrumproducts.com

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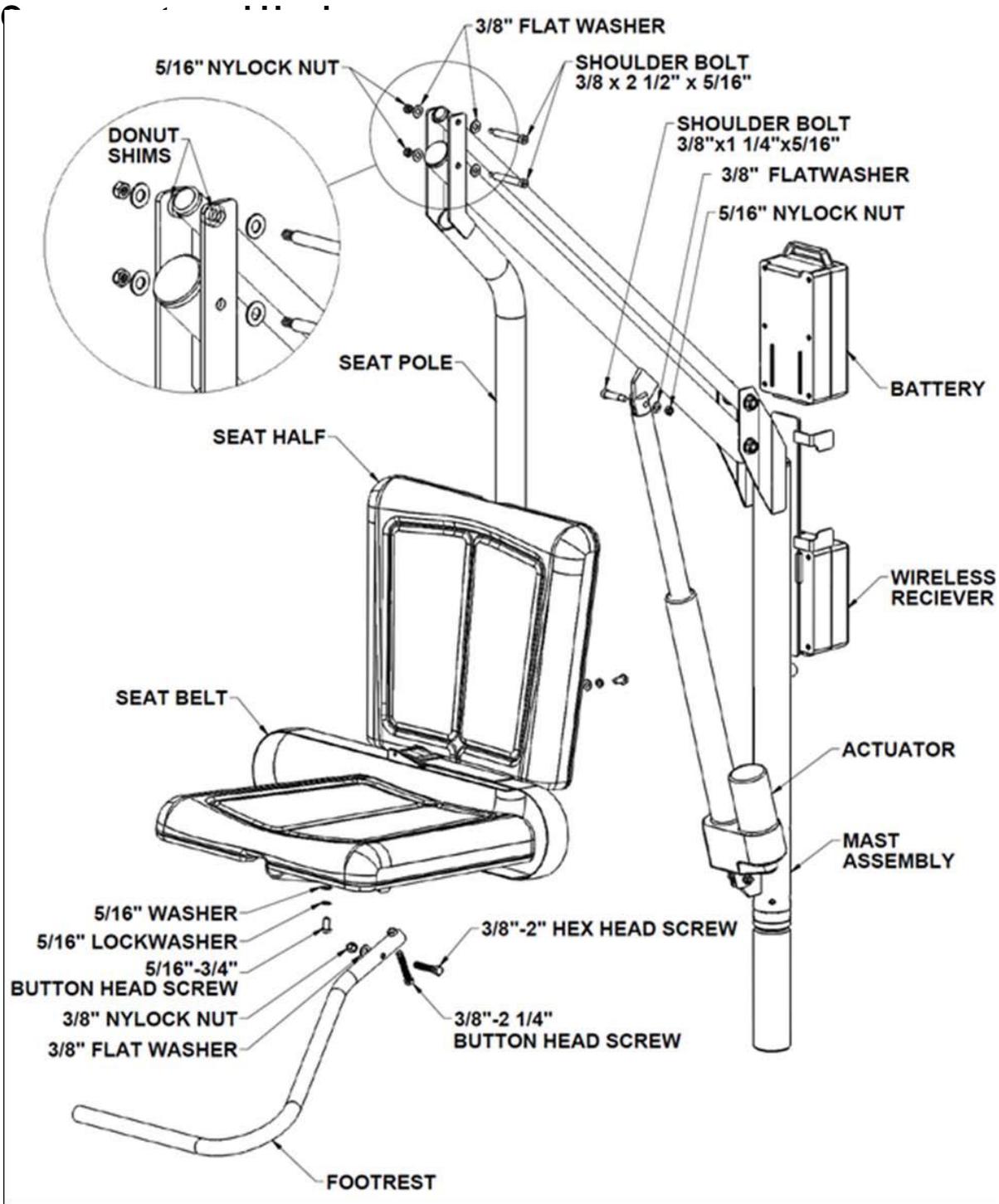
You have purchased a Spectrum Products Freedom assisted access lift . Providing the unit is installed correctly and properly maintained, it will furnish you with many years of trouble free use. It is important to read this entire manual prior to beginning assembly or operation.

Shipping Information:

Each lift will arrive partially assembled in one box. Before accepting the lift from the carrier, inspect for visible damage and match the contents with those listed below. Spectrum is not responsible for lost or damaged freight.

The box will contain all structural components and hardware. The following is a list of the components included with your shipment from Spectrum. Use Components and Hardware Figure, page 2, as a reference to identify each item listed.

1	Mast & Boom assembly	2	Seat Halves
1	Actuator	1	Footrest assembly
1	Seat Belt	1	Battery
1	Seat Pole assembly	1	Wireless Transmitter
1	Charger	1	Anchor Assembly
1	General hardware	1	Universal Armrest

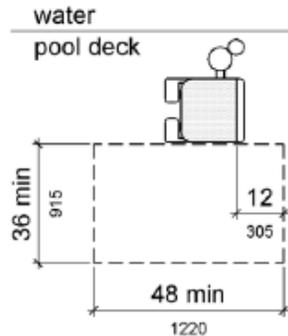


Installation Overview

Read all instructions before attempting to assemble or install the lift.

Clear Deck Space:

To be compliant with ADA guidelines, the lift must be installed in a location that is clear from obstacles and other hazards. Clear deck space is defined by the figure to the right. This rectangle is 48" long (along the pool wall) and 36" wide.



Pool/Spa Depth:

To comply with ADA guidelines the lift must be installed where the water depth does not exceed 48". If the entire pool is deeper than 48" this requirement does not apply.

Anchor Location/Installation:

The lift anchor centerline must be no less than 6", but no greater than 22" from the pool/spa wall (or any feature that sticks out past the pool/spa wall, such as a coping). The lift is installed in a single 2.375" I.D. anchor.

New Construction Anchor Installation

- Place the anchor in the desired location following above guidelines.
- Locate a bonding source to bond (ground) the anchor. The steel rebar-bonding grid of the pool deck is the best choice for bonding the anchor. Attach a No. 8 solid copper wire (NEC Section 680-22) from the bonding bolt on the base of the anchor to the bonding grid.
- Secure anchor in place at the proper height – anchor may be cemented in place. Set the anchor so that the finished top is 1/8" to 1/4" below finished deck level – allowing for anchor cap to be put in place when the lift is not in use.
- Use the carpenter's level to level the anchor making sure the Aspen II mast will be vertically straight up and down (perpendicular to the deck) in all directions. It is important that the mast be vertically straight to ensure ease of rotation when the lift is fully loaded.
- Place tape over the anchor hole before pouring concrete deck – not allowing concrete to enter anchor opening.
- Pour concrete deck and finish.

Allow the concrete to cure for at least 7-days before installing and using the lift.

Existing Facility Anchor Installation

There are many different configurations of footing shapes and sizes to resolve the forces of the lift; a general case footing that has been calculated for Spectrum is a minimum slab 2'6" Square by 10" thick anchor centered, with a minimum of four #4 bars each way centered. An engineer stamped letter can be furnished by Spectrum if requested.

- a) From the center of the desired anchor location, using a marking pen or chalk, mark a square of the dimensions provided by Spectrum Aquatics, or another engineer stamped footing. This is the concrete to be removed to accommodate the installation of the lift's anchor. It is recommended that the anchor be located at least 6" from any expansion joint, crack, drain, or similar structure in the concrete deck.
- b) Use a concrete cutting saw; cut the square out of the existing concrete deck. Using a heavy/sledge hammer to break the cut section of concrete – remove the section of concrete from the deck. See Figure 1.

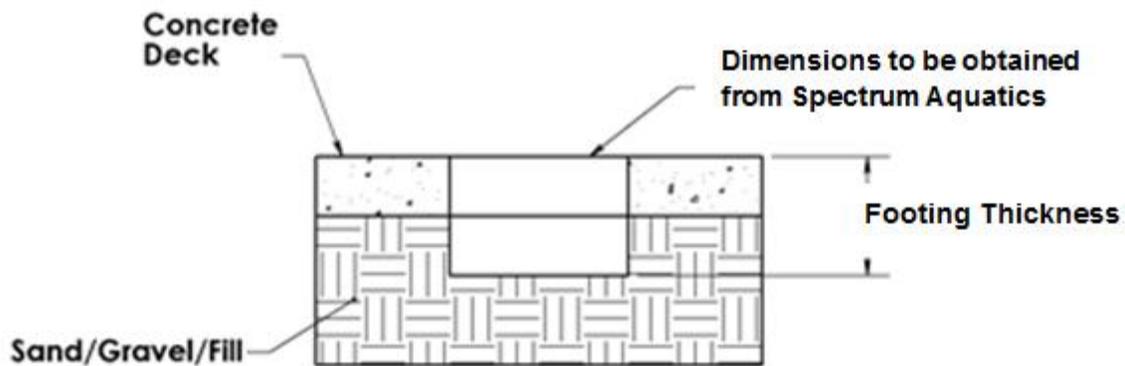


Figure 1

- c) Locate a bonding source to bond the anchor. The steel rebar-bonding grid of the pool deck is the best choice for bonding the anchor. Attach a No. 8 solid copper wire (NEC Section 680-22) from the bonding bolt on the base of the anchor to the bonding grid.

Note: If the concrete deck is 8" thick or more or this method is deemed acceptable by examination, an alternative anchor installation method may be used. In lieu of saw cutting the concrete deck, a concrete core drill may be employed to cut a 4" diameter hole at the desired anchor installation location. Epoxy or hydraulic cement may be used to secure the anchor in place. Make sure the anchor is properly bonded.

- d) Place tape over the anchor hole before pouring concrete – not allowing concrete to enter anchor opening.

- e) Fill the hole in the deck around the anchor with non-expanding concrete. Set the anchor so that the finished top is 1/8" to 1/4" below finished deck level – allowing for anchor cap to be put in place when the lift is not in use.
- f) Use a carpenter's level, to level the anchor making sure that the Aspen II mast will be vertically straight - up and down (perpendicular to the deck) in all directions. It is important that the mast be vertically straight to ensure ease of rotation when the lift is fully loaded.

Allow the concrete/Grout/Epoxy to cure for at least 7-days (or manufacturers recommended set time) before installing and using the lift.

Assembly Instruction

The following tools will be required to complete assembly and installation of the lift:

- 9/16" ratchet and open-end wrench
- 1/2" ratchet or open-end wrench
- 3/16" socket wrench (allen wrench)
- 7/32" socket wrench (allen wrench) *Included*

LIFT ASSEMBLY

NOTE: All steps reference the exploded view on page 3.

!CAUTION! Do not rotate the actuator end fitting – handle with care.

- a) Stand the mast assembly up in the anchor that is installed in the pool/spa deck.
- b) Carefully remove shrink wrap holding the actuator to the mast assembly
- c) Attach the actuator end fitting as shown on page 3 using:

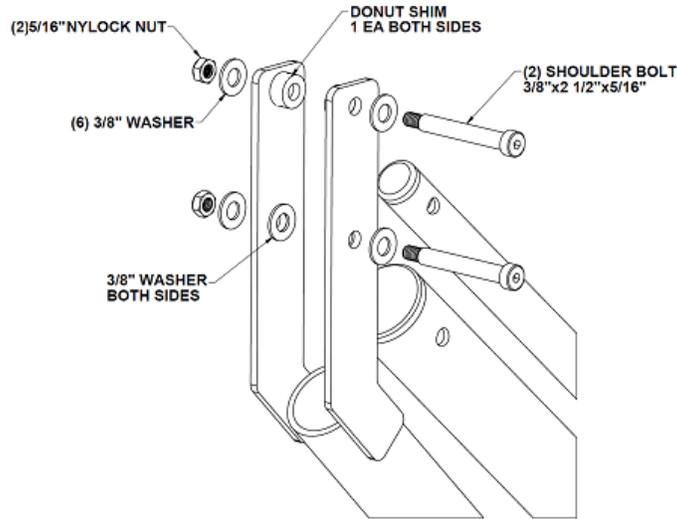
- 1 - 3/8" Shoulder Bolt 1 1/4" x 5/16" - 18
- 1 - 3/8" Flat washers
- 1 - 5/16" - 18 Nylock nut

- d) Slide the battery down until it mates with the Wireless Receiver, and locks into place. Connect the battery cable to the receiver. When properly installed the battery will sit flush against the top of the Wireless Receiver. The Control Box battery indicator light should indicate a fully charged Battery (Green Light). If the battery indicator light does not illuminate, ensure that the battery is turned on by pressing the push button on the front of the battery case to the on (in) position. If the battery indicator light shows amber or red, charge battery before moving to the next step.
- e) Test lift operation by pushing the up and down toggle switch on the Wireless Receiver to ensure the lift is operational (See page 8 for instructions on using Wireless Transmitter).

Then run the actuator into the fully extended position by pressing the up button until the actuator stops moving. Leave the lift in this position for the next steps.

f) Join the seat arm to the mast assembly using:

- 2 - 3/8" Shoulder 2 1/2" x 5/16" Thread
- 4 - 3/8" Flat washers
- 2 - 5/16" - 16 Nylock nut
- 2 - Donut Shims

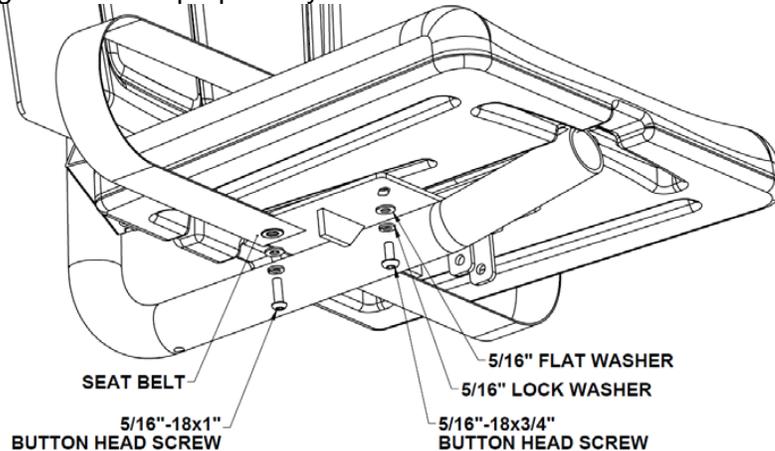


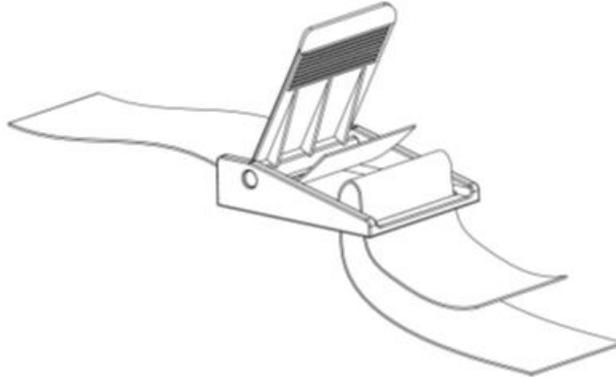
g) Attach the seat half and the seat belt to the mounting plate of the seat arm using:

- 2 - 5/16"-18 x 1"
- 2 - 5/16"-18 x 3/4"
- 4 - 5/16" Flat Washers
- 4 - 5/16" Lock Washers

Note: When attaching the seat belt use 5/16"-18 x 1" as shown below.

h) The below image shows the proper way to assemble the seat belt.





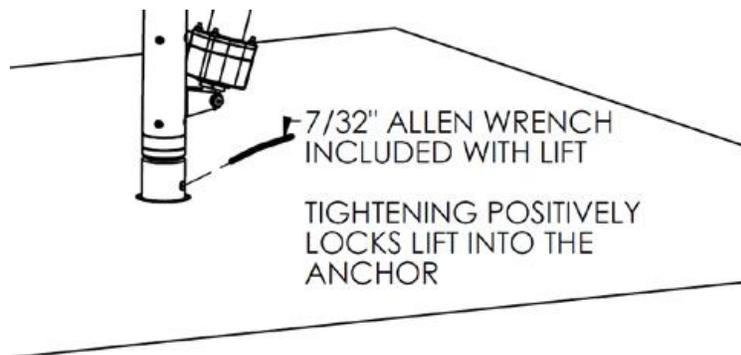
i) Attach the other seat half to the back rest mounting plate using:

- 4 - 5/16"-18 x 3/4"
- 4 - 5/16" Flat Washers
- 4 - 5/16" Lock Washers

j) Attach the footrest to the seat arm assembly using:

- 1 - 3/8" – Hex Bolt 2"
- 1 - 3/8" Flat Washers
- 1 - 3/8" Nylock Nut

Tighten the bolt until the flat washers are snug, and then back off until the Footrest pivots freely. Adjust footrest to desired height using installed 3/8" - Button Head Bolt.



k) Tighten the anchor locking bolt by access through a hole one inch up from the top of the anchor on deck. The included 7/32 Allen wrench will fit a 3/8" button head internal to the mast. This internal fastener is at an angle and can be tightened down until there is no lift movement in the anchor. The figure above shows the location and approximate angle of the anchor locking mechanism for the lift.

l) Test the lift for proper operation.

OPERATOR'S GUIDE

Lift Operation

WARNING! Read all operating instructions before operating the lift. Make sure that all individuals using the lift have read the instructions and have been made aware of all safety precautions.

WARNING! Operate the lift exactly as described in the instructions above. Failure to do so may result in damage to the lift or personal injury.

WARNING! Do not exceed the maximum lifting capacity of 350 lbs. This may result in damage to the lift or personal injury.

WARNING! Do not rotate the lift directly into the deck or pool/spa wall. This may result in damage to the lift or personal injury.

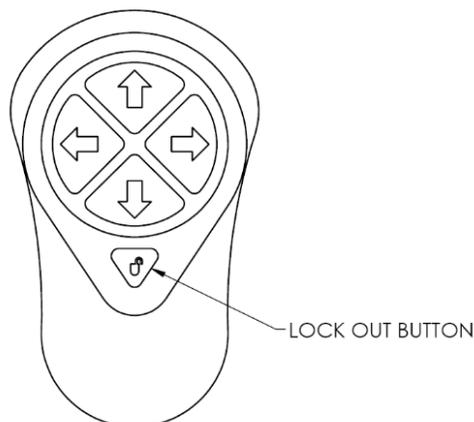
WARNING! Unless operating in an emergency, Lift should not be forced to rotate. This will cause damage to the rotational components of the lift.

Basic Principals of Lift operation

Care and Maintenance

Activation of the Transmitter (Bottom Button, with a lock on it)

As a safety feature of this transmitter, there is a lockout button that is just below the four directional arrows. To activate the transmitter (wake from sleep mode), the lockout button needs to be pushed and held for a full 2 seconds. If the transmitter is not used within two minutes after the transmitter has been activated, it will go back into sleep mode.



Lifting (UP)(▲):

Pressing the (▲) button causes the seat to rise. The seat will continue to rise as long as the button is pressed, or until the lift reaches its highest extent. Releasing the button at any time during travel will also cause the lift to stop.

Lowering (DOWN)(▼):

Pressing the (▼) button causes the seat to lower. The seat will continue to lower as long as the button is pressed, or until the lift reaches its lowest extent. Releasing the button at any time during travel will also cause the lift to stop.

Rotation (CLOCKWISE)(▶):

Pressing the (▶) button causes the lift to rotate clockwise. The lift will continue to rotate in this direction as long as the button is pressed. Releasing the button at any time during rotation will stop the lift from rotating.

Rotation (COUNTERCLOCKWISE)(◀):

Pressing the (◀) button causes the lift to rotate counterclockwise. The lift will continue to rotate in this direction as long as the button is pressed. Releasing the button at any time during rotation will stop the lift from rotating.

Use extreme caution when transferring to or from the lift; it is the responsibility of the user to allow for safe operation of this lift.

To enter the Pool or Spa:

- A. Unlock remote by holding the Lock button on the transmitter for 3 seconds (lift will be operational for 2 minutes)
- B. Position the chair of the lift over the deck in a suitable position for a transfer using the directional buttons on the transmitter
- C. Carefully transfer into the lift seat from mobility device
- D. Fasten seatbelt
- E. Rotate the lift over the water, where it will not come into contact with the pool edge or any obstruction using the left or right buttons on the transmitter
- F. Lower the lift into the water until buoyant, by pushing the down button
- G. Unfasten seatbelt and carefully move away from the lift
- H. Using the directional buttons on remote return lift chair to an on deck position not over the pool

To Exit the Pool or Spa:

- A. Unlock remote by holding the Lock button on the transmitter for 3 seconds (lift will be operational for 2 minutes)
- B. Recall lift chair into water to the previous depth and position upon transferring from the lift seat to the pool using directional arrows
- C. Carefully transfer into the lift seat from water
- D. Fasten seatbelt
- E. Lift the seat straight up using the up directional arrow on the transmitter until top of lifting stroke is reached

- F. Rotate the chair into a suitable position on deck to transfer from lift seat
- G. Unfasten Seatbelt
- H. Carefully Transfer from lift seat into mobility device

***Note: If the lift is overloaded at the seat, a clutch in the actuator will ratchet, this will be evident by a very noticeable clanking noise and the lift will shake but not move. After weight is taken off of the seat, the lift will resume normal operation. If this happens check the lift and pivots for structural damage before resuming a safe lifting procedure at or under the 350# working load limit.**

PROGRAMMING A NEW TRANSMITTER TO THE RECIEVER

***Note – The Transmitter will be programmed to the lift when you receive it; the only time you will have to follow this procedure is if you replace a Transmitter or buy an extra Transmitter.**

To program a new transmitter to the lift, first disconnect the battery from the receiver. Hold the lockout button on the transmitter for two full seconds. Then press and hold the up button on the Transmitter to be programmed, while reconnecting the battery to the receiver. Continue holding the up button on the Transmitter until the lift clicks once or moves up (the lift is most likely at the top of its range, so you may try either rotation button and watch for lift movement). If the lift does not work with the new transmitter, try the procedure again; making sure that the transmitter is unlocked. If you are not able to program the new Transmitter to your lift, please call Spectrum Customer Service at 406-532-6321.

BATTERY CHARGING & INSTALLATION

The battery comes fully charged, but will need charging after the first several hours of use. Charging time is approximately twelve hours for the first few charges, four hours after the first two full battery cycles at which point the battery will reach maximum capacity. The lift comes with a battery charger for use in dry locations. Charge the battery as follows:

- Plug the battery charger into a standard* outlet. The green LED on the charger will light up, indicating that the charger is on.
- Plug the charging cable into the charging port on the back of the battery. If the battery is up to the charged voltage, the LED on the charger will stay green. If the charger determines that the battery needs to be charged, the LED on the charger will change to red.
- The red LED will turn green when the battery is fully charged. This charger has internal monitoring circuitry that will not overcharge the battery, if the battery is left on the charger for extended periods of time the charger will go into short charging cycles at intervals to keep the charge level at optimal.

***Charger accepts 110 VAC**

When the battery is fully charged, remove it from the battery charger and install the battery on the lift. The Battery Capacity Indicator on the receiver will show a green LED, indicating that the battery is fully charged and installed properly. When the LED changes to amber the lift is still OK to use. However when the LED changes to red, or an audible tone is heard during a lift cycle, the battery pack needs to be recharged.

To keep the battery from discharging to the point of causing damage, it is important to charge the battery at least once every 3 months, even if the battery has not been installed on the lift.

When the lift is not in use, and the battery is installed on the lift, the battery will hold a charge much longer if the push button switch is placed in the off (out) position. This electrically disconnects the battery from the unit, and will allow the battery to go up to 3 months without a charge cycle. If the switch is left on continuously, the battery may need to be charged weekly.

It is important to note that with this switch in the off (out) position, the battery capacity indicator light on the receiver will be off, and the lift will not work.

After initial break in, the battery should last approximately 90 cycles at the full 350# load rating of the lift before it needs recharging. The battery will need to be replaced after 500 to 800 charge cycles or 3-4 years if properly maintained (approximately 20,000 lifting cycles).

To activate the Emergency Up/Down rocker switch (located on the left side of the receiver), rock the switch and the lift will move in the direction indicated. These buttons can be used if the transmitter battery dies, or in the event of an emergency.

CHANGING A TRANSMITTER BATTERY

To change the transmitter battery, turn the transmitter over and unscrew four small Phillips head screws. Carefully open the transmitter case and remove the battery. This battery is stocked at most stores where coin batteries are sold, it is a 3V lithium Type 2032. Under normal operating conditions this battery should last at least two years.

Care and Maintenance

The following should be performed periodically to ensure safe and dependable use.

1. Remove any discoloration with a 3M scratch pad (stainless steel components only). Wipe clean with a sponge dampened with Spectra Clean. Repeat these steps several times to passivate the stainless steel. Spectra Clean kits are available from Spectrum (Part Number 202050-00). Do not spray with high-pressure water, only clean with non-chlorinated water.
2. Check all electrical connections – Check any external electrical cables for wear and/or breakage in the outer insulation.
3. Check all mechanical connections – inspect the Nylock Nuts on all moving parts and make sure they are snug. Lubricate all pivot points with light oil (3-1).

4. To maintain the battery properly, the battery must be fully charged at least every 3 months. If the battery goes for longer than 3 months without a charge, the battery will have reduced capacity.
5. Apply Dielectric grease to the battery connections and receiver connections where the battery and receiver meet. Any dielectric grease will work however Grote silicone dielectric grease is applied at the factory.

Troubleshooting

Problem:	Cause:	Solution:
1. Lift will not operate at all:	<p>Low Battery (Lift) – Red or amber LED on the receiver</p> <p>Damaged Battery (Lift) – Red LED on the receiver</p> <p>Dead Battery (Transmitter) Remote Locked</p> <p>Battery Fuse blown</p> <p>Battery Push button Switch in the off (out) position</p>	<p>Recharge Battery</p> <p>Replace Battery*</p> <p>Replace Battery</p> <p>3V Lithium 2032</p> <p>Push unlock button for 2 seconds</p> <p>Replace Battery Fuse</p> <p>Depress push button switch into the on (in) position</p>
2. The seat will not raise or lower. The seat will not rotate.	<p>Low battery (Amber LED on Receiver)</p> <p>Battery not installed properly</p> <p>Receiver malfunction</p>	<p>Recharge battery</p> <p>Reinstall battery</p> <p>Replace Receiver*</p>
3. The seat's motion isn't smooth or sticks at a certain point during travel.	<p>Excessive wear to bearings</p> <p>Excessive wear to Actuator</p>	<p>Replace bearings*</p> <p>Replace Actuator*</p>
4. The seat travels much slower than normal.	<p>Low battery</p> <p>Defective or worn-out battery</p>	<p>Recharge battery</p> <p>Replace battery*</p>
5. The lift makes much more noise or unusual noises during operation.	<p>Excessive wear to bearings</p> <p>Pivot points galling</p>	<p>Replace bearings*</p> <p>Oil pivots with light oil (3-1)</p>
6. Battery will not charge:	<p>Charger Fuse Blown</p> <p>Bad Battery (red LED on charger – not turning orange or green in 4 hours or less)</p>	<p>Replace Charger Fuse</p> <p>Replace Battery*</p>

*Please contact your local distributor or Spectrum Customer Service to order parts 406.532.6321