WARNING: YOU MUST READ THIS INSTALLATION MANUAL BEFORE STARTING TO INSTALL THE STAIR LIFT.

Please download the most current Installation Manual at ameriglide.com/horizon-plus-install

Please have manual at hand if you call Technical Support.

Technical Support
1 (800) 791-6419
8AM-5PM EST / Monday-Friday

VER062019
ABOUT THE STAIRLIFT

<table>
<thead>
<tr>
<th>No.</th>
<th>Meaning</th>
<th>No.</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Arm Rests (folds up and down)</td>
<td>9</td>
<td>On/Off Switch</td>
</tr>
<tr>
<td>2</td>
<td>Directional Control</td>
<td>10</td>
<td>Seat Swivel Levers</td>
</tr>
<tr>
<td>3</td>
<td>Key Switch</td>
<td>11</td>
<td>Lap Belt</td>
</tr>
<tr>
<td>4</td>
<td>Rail</td>
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<td>Status Display</td>
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<td>Footrest Lever (Plus model only)</td>
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<td>Mains Power Connection</td>
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<td>6</td>
<td>Footrest (folds up and down)</td>
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<td>Charging Point</td>
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<td>7</td>
<td>Safety Edges</td>
<td>15</td>
<td>Remote Control</td>
</tr>
<tr>
<td>8</td>
<td>Hand Wind Point</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Controls

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mains Power Connection (13)</strong></td>
<td>The stairlift should be plugged in at the nearest socket. This could be at the top or bottom of the stairs. The lift needs to be plugged in and switched on at all times. When the power is on, a green indicator light will be shown on the power supply, mounted nearby. The light will be dim when the lift is off charge, bright when on.</td>
</tr>
<tr>
<td><strong>On / Off Switch</strong></td>
<td>The On / Off Switch (9) is used to switch the stairlift on or off. If the stairlift is turned off here the batteries will not recharge.</td>
</tr>
<tr>
<td><strong>Status Display</strong></td>
<td>The Status display (12) displays current information. If any faults develop with the operation of the lift they will be displayed here. For a list of codes please see System Status Codes section in this manual.</td>
</tr>
<tr>
<td><strong>Key Switch</strong></td>
<td>The Key Switch (3) is used to lock the stairlift. The Key Switch is located on the underside of the armrest which contains the direction control.</td>
</tr>
<tr>
<td><strong>Direction Control</strong></td>
<td>The direction control (2) is located at the end of one of the armrests. To move the chair, push and hold the joystick in the direction you want to travel. There is a short delay before the stairlift will start or change direction. The joystick is silver and black on the Standard model &amp; red on the Plus.</td>
</tr>
<tr>
<td><strong>Footrest</strong></td>
<td>The footrest (6) can be folded manually on the Standard model, or using the footrest lever (5) on the Plus model.</td>
</tr>
</tbody>
</table>
**Swivel Seat**

For safety, the seat is locked into one of two positions. In the normal travel position, the seat will be locked into position with your back parallel to the rail. This is so you do not catch your feet on the steps during travel. The lift will not travel unless the seat is locked into this position.

The Plus with Powered Swivel model is fitted with an automatic, powered swivel. The seat will swivel automatically to allow easy access when the lift reaches the top of the stairs. It will then swivel back into the correct position before you start your downwards journey.

To manually swivel the seat on models without Powered Swivel, operate one of the Seat Swivel Levers (10), and swivel towards the landing until the seat comes to a stop then release the lever to lock the seat in place. Make sure the seat is locked before you try to sit down or get up from it. To operate, lift the lever for a Standard Model, push down the lever for a Plus Model.

To return the seat to the normal travel position, operate one of the Seat Swivel Levers (10) and swivel away from the landing until the seat comes to a stop then release the lever to lock the seat in place. The seat only swivels at the top of the stairs. If you try to swivel the seat while the lift is moving, the chair will stop.

**Safety Edges**

The footrest and the motor unit are fitted with Safety Edges (7). These are pressure pads which will stop the lift if they come into contact with any obstructions.

If the lift stops because it has encountered an obstruction, a fault code will be displayed on the diagnostic display. Wait two or three seconds, then reverse away from the obstruction.

**Lap Belt**

The Lap Belt (11) holds you safely on the seat as you climb or descend the stairs. The Standard model clips together in the centre. Push the 2 plastic clips together to release. The Plus model belt is like a car seat belt, this extends from the holder to clip into a socket. Push the red button to release. The lap belt must be used every time the stairlift is used. Do not undo the lap belt until the chair reaches the end of the track.
# Charge Points & Remotes

## Charging Points
These (14) are located at the top and bottom of the track. The lift MUST be parked on a charging point when not in use. The stairlift will sound an audible beep if it is not parked on a charging point.

## Remote Controls
The Remote Controls (15) work in the same way as the arm controls. The standard lift is supplied with 2 remote controls. These remote controls have 3 buttons: Up, Down and Park.
TYPICAL PACKAGE LIST

A typical installation will use the following supplied parts:

- **RAIL LEGS**
- **END CAPS**
- **END PLATE**
- **CHARGING SPLITTER**
- **CHARGING POINT**
- **END PLATE SCREWS**
- **MANUAL WINDING TOOL**
- **CHARGING POINT**
- **REMOTE CONTROLS & BATTERIES**
- **GEAR LUBRICANT**
- **TOP JOINTING PLATE**
- **BOTTOM JOINTING PLATE**
- **LEG SCREWS**
- **GEAR RACK BOLTS (EXTRA)**
• 5 x Rail clamps
• 5 x Legs
• 5 x Leg mounts
• 10 x M10 x 16 hex bolts
• 10 x M10 washers
• 10 x M8 x 20 Hex bolts
• 10 x M8 Plain nuts
• 20 x 6.3 x 38 Wood screws
• 1 x Assembled Top Jointing Plate
• 1 x Assembled Bottom Jointing Plate
• 2 x M6 x 10 Countersunk Hex screws
• 8 x M8 x 16 Button Head Hex screws
• 2 x Extrusion end plates
• 2 x Charge Points & insulators
• 4 x Charge Point captive nuts

• 4 x M4 x 10 Countersunk Hex screws
• 2 x Remote controls & batteries
• 1 x Mains – 27v Transformer & bracket
• 8 x Phillips wood screws
• 8 x Red wall plugs
• 2 x 12v 8.5aH Batteries
• 5m x Blue and Brown 2 core cable
• 2 x M5 x 12 Hex button head rack mounting bolts
• 2 x 2.25m Rails
• 1 x Horizon carriage
• 1 x Seat and Chassis Leg.
• Silicone or PTFE Lubricant for the racking
• 1 x Manual winding handle
• 1 x User Guide
• 1 x Installation Manual
To perform a typical installation you will need to use the following types of equipment:

- Safety Goggles and Rigger Gloves
- Spirit level, tape measure
- Drill bits:
  - 8mm masonry drill bits (for drilling into brick, stone, concrete, etc)
  - No 3 Screwdriver bit and extension bar for drill to use on footplate screws
- Combination Spanners / Sockets
  - 13mm & 17mm Combination Wrenches
  - 13mm Socket with Ratchet
  - 17mm socket & 4mm allen key bit
- One set of metric Allen Keys
- Hammer
- Screwdrivers:
  - #1 Phillips
  - #2 Phillips
  - Terminal screwdriver
- Anti-static wrist strap
- Wire strippers
- Crimping Tool
- Electrical or Combination pliers and Electrical side cutters
- Digital multi-meter/ clamp meter (capable of measuring DC currents of up to 30A for at least 5 seconds)
- Electric drill (varispeed with hammer/non-hammer action), (either mains-powered or 24V cordless)
HEALTH & SAFETY GUIDANCE

Electrical Safety
Installation of the stairlift is mainly a manual process. Although you do need to plug the stairlift into a mains power supply socket, this socket MUST already have been installed by a qualified electrician.

All work on the Mains system must be done by a qualified electrician.

Safe Working Practices
When installing the stairlift, follow safe working practices in these areas:

• Working at heights or on the stairs
• Working with power tools or equipment which generate noise
• All loading, transport, unloading, unpacking, lifting and carrying of the equipment should be done in line with current HSE guidelines

Be aware of the risks of equipment falling from a height. For example, tools falling through open-treaded staircases or through banister rails, or equipment falling or sliding down stairs. Always use lifting points supplied in equipment packaging.
Please observe warnings and guidelines printed on equipment packaging.

Important – Intruder Alarms
Intruder alarms often have sensor pads at the top or bottom of staircases or on one or more steps. There may also be alarm wires hidden under a carpet or tucked under a skirting board. Check whether any such sensors or cables need to be moved before drilling into a staircase or floor.
Provide guidance to the home owner about what safety risks they and any other people might be exposed to during the installation. For example

• Movement of equipment and tools posing a risk to the buildings or things in it (such as pictures, paintings or ornaments)
• Cables and other equipment posing a trip hazard - especially on or near stairs
• Live electrical equipment (such as electric drills) posing a hazard (for example, if used inappropriately by children)
• Potentially sharp equipment (such as saws, drills bits, knives or chisels)
• Potential noise due to the use of power tools
• Potential creation of airborne dust
• Remember to let the resident know you will take them through how to use the stairlift, so they can let someone else know what time a demonstration might take place
• Resident must keep boarding/exit areas of the stairlift clear and well lit to a level of 50 lux.

Preparing The Workplace
Before you start the installation, make sure of a Safe Working Environment, with enough space to assemble the stairlift assembly and for you to work around it.

Make sure any loose or fragile property (such as pictures or ornaments) are located in a safe place away from the potential working area. Inspect the area for potential obstructions such as central heating pipes, hidden cables, underfloor heating, etc. The work area should be well lit. If sufficient lighting is not available, temporary lighting should be used. The stair treads should be inspected for their suitability of supporting the installed machinery.

If in doubt, a qualified person should be engaged to check suitability.
**INSTALLING THE STAIRLIFT**

The stairlift must be fitted so that it does not prevent doors from opening and closing.

**Laying Out The Components**
Each stairlift consists of 3 boxes, the Drive Unit, the Chair and the Chassis Leg. The Chassis leg box also contains the parts kit.

**RAIL PARTS**

**TOP RAIL SECTION**

**BOTTOM RAIL SECTION**

**GEAR RACK**

**TOP JOINING PLATE**

Insert *Top Joining Plate* into the top extrusion of the *Bottom Rail Section*. Insert Side A, the serrated end, first.

Using a soft faced hammer, gently tap the *Top Jointing Plate*, serrated end first (side A), into the upper end of the *Bottom Rail Section*. Tap until the etched line is level with the end of the extrusion.

NOTE: Example pictures are of a Right Handed Staircase install. Left Handed install’s rail will be a flipped over version of what is shown.
ASSEMBLED LEGS

An Assembled *Leg* and how it fits into the rail is shown below. These will be used in the next step.

Make sure the legs are straight and then tighten, using two 13mm wrenches. This ensures that they do not move during installation process.

**PRO TIP:**
*Place a piece of cardboard onto the floor to protect it while positioning the rail onto the stair case. This piece of cardboard can also act as a spacer for the rail clearance at the bottom (1/2” to 3/4”).*

FIT LEGS TO BOTTOM RAIL SECTION

**NOTE:** When Installing the rail on the staircase the teeth of the gear rail will face the wall.

Place assembled *Legs* at the upper and lower end of the **Bottom Rail Section**. The *Legs* will rotate into place fully assembled.

The lower end *Leg* should be located so that it sits on the step above the bottom landing.

The upper end *Leg* should be located on the step just below the end of the rail.

Adjust the Legs to give the proper 1/2” to 3/4” clearance between the railing and the floor. Lightly finger tighten Leg bolts to hold in place.
**FIT LEGS TO TOP RAIL SECTION**

Place assembled Legs onto the *Top Rail Section*. The *Legs* will rotate into place fully assembled.

The lower end *Leg* should be located so that it sits on the step above where the two rails will join.

The upper end *Leg* should be located so that it will rest on the step just below the top landing. Lightly finger tighten Leg bolts to hold in place.

Adjust top and bottom Legs so that the *Top Rail Section* aligns with the *Bottom Rail Section* on the stair case.

**NOTE:** If there is a 3rd rail section, repeat previous “Fit Legs to Top Rail Section” step.

**NOTE:** Additional *Legs* can be installed in the middle of the longest rail section.

**NOTE: Do Not Install upper section of gear rack at this time.**

Slide the *Bottom Jointing Plate* into the *Bottom Rail Section* as shown below. Move the *Top Rail Section* downward so that it slides onto the *Top Jointing Plate* and *Bottom Rail Section*. Slide the *Bottom Jointing Plate* up so that it straddles both rails and tighten screws, securing the two rails together.
SETTING CLEARANCE DISTANCES

Ensure that each leg sits level on the correct step. Adjust until the rail is a **minimum** distance of 3 1/4” from the nose of the step when measured diagonally.

We recommend the rail should be mounted 4” from the wall, however 2.5” will suffice. 4” is recommended due to slight flexing of the chair back while the lift is in use. Flexing varies from user to user.

Ensure that the wall is vertical.
If not, base the distance from the innermost point of any post or newel (central pole or support column) top or bottom.

TIGHTEN RAIL LEGS

Now that the railing is in place and the clearance distances are correct, tighten rails legs down to the rail. **Don’t tighten to steps at this time.**
DRIVE UNIT

UNPACK DRIVE UNIT

Unpack Drive Unit and inspect the bottom of the Drive Unit to be sure limit switch buttons and springs are in place.

LOAD DRIVE UNIT

Load the Drive Unit at the top of the track carefully. When loading the Drive Unit, please be aware that it must be supported so that switches DO NOT contact the rail.

NOTE: Your stair lift should come with a Gear Rack pre-installed in the Bottom Rail Section. If by some chance there isn’t one pre-installed, install only 1 Gear Rack by sliding it all the way down the rail, gear teeth facing outwards.

Ensure that the lower carriage rollers are located into rail extrusion channels correctly and that the drive and OSG (Over Speed Governor) pinions do not catch. Lower the Drive Unit slowly down the rail until the drive pinion rests against the lower gear rack section.

⚠️ Do not allow Drive Unit to free roll down the rail. Manually lower until it rests against the gear rack.
CONNECT BATTERY

Remove Drive Unit covers by inserting an allen wrench into the holes and loosening the screws as shown to the right.

Make the following connections:

1. Orange fuse link between black and red battery terminals
2. Red to +24v on PCB (Printed Circuit Board)

Turn batteries so they are seated correctly into battery tray as shown and replace top cover only.

Complete the assembly of the unit in the following steps. Until completed, the unit will not move.
**UNPACK CHASSIS LEG**

Remove *Chassis Leg* from packaging and remove plastic covers.

Before mounting *Chassis Leg*, turn the two 4mm allen screws flush with the inside of *Chassis Leg* frame.

**CHASSIS LEG ASSEMBLY**

Remove washers and nuts from *Drive Unit* bolts and attach *Chassis Leg*, ensuring all cables pass through central hole correctly.

Fit washers and nuts back onto the *Drive Unit* bolts.

**LEVEL ASSEMBLY**

*If your install is on the right side, looking up at the staircase, please do the following first.*

Lightly secure the seat on the chassis leg, allowing it to lean down the stair case. Make all electrical connections and complete the **Software Options** as instructed on pg. 20. Once the programming is complete, secure cover in place and proceed with the following steps.

*If your install is on the left side, looking up at the staircase, level assembly as shown to the right and continue with instructions.*

Place a level on top of seat and adjust as needed. Securely tighten the 4 nuts using a 13mm socket.
**CHASSIS LEG WIRING**

*If you ordered a powered swivel seat, please refer to next section, Electrical Connections - (Powered Option Units), for additional wiring.*

- Match male 4 pin plug with corresponding female end and plug in.
- Feed cables through *Chassis Leg* top hole.
- Using supplied tie-wrap, secure wires and stick to side of *Chassis Leg*.

---

**ADJUST SEAT HEIGHT**

The seat height can be adjusted if necessary. Unhook lever linked footrest spring, remove 2 bolts joining footrest link, remove 4 large bolts holding top chassis leg section and move up or down to suit. Replace 4 large chassis leg bolts, 2 lever link bolts and spring.

*To adjust seat height, remove bolts and move to desired height.*
ELECTRICAL CONNECTIONS - NON POWERED UNITS

Pictured below are connections found beneath the seat on Non-Powered Units.

- Seat's safety sensor connections.
- Arm’s Digital Display connections.

---

ELECTRICAL CONNECTIONS - (POWERED OPTION UNITS)

If the stairlift has a powered swivel, connect the swivel motor loom (Red & Black).

- Black - Black, Red - Red for a Right Hand Lift
- Black - Red, Red - Black for a Left Hand Lift

Connect swivel limit loom as shown in pictures, Purple - Purple, White - White for Both Hand Lifts.

Finally pass chair & display loom up through center of swivel boss.

---

Left Hand Lift  Right Hand Lift
ATTACH SEAT

1. Remove seat from packing and place on drive unit. Run cables through the hole in the seat. Line up screw holes between seat and leg chassis.

2. Fit Seat using 4 x 8mm hex bolts and tighten.

3. Connect seat cables. Lift manual swivel levers and turn chair, make sure it locks securely at either end of travel and that the swivel interlock switch operates correctly.

4. Secure wiring looms with tie-wrap supplied taking care to ensure that cables & plugs cannot be damaged when “swiveling”.

5. Place chair wiring cover in place and secure down with furnished plastic push pins.

6. Slide cover on from bottom of rail.

7. Connect the remaining wires to the two connectors on the seat cover. Long wire from battery to on/off switch. Short wire from switch to ground on PCB (Printed Circuit Board).

DO NOT attach the cover yet. It needs to be off in order to check the software in the next step.
SETTING SOFTWARE OPTIONS

**IMPORTANT** - If your stair lift is not properly programmed in this step, the remotes will not function correctly.

**NOTE:** If your lift is on the right side of the stair case...
The cover with the on/off switch can only be removed if the unit is at the top of the rail.

The *Key* is attached to the arm with a tie wrap. Detach it, insert into keyswitch under the armrest and turn clockwise.

Turn lift on using the On/Off switch located on left hand side cover. Set stairlift hand, swivel method, lift mode and display language using red buttons (as shown below) on the main Printed Circuit Board.

*Menu Button cycles through options.*  
*Adjust Button changes settings.*

---

**NOTE:** The lift must be programmed to the proper side of the stair case. It should indicate the side as you are looking up the stair case.

**NOTE:** The key must be installed and turned on for the lift to function.

**NOTE:** There will be a 3-5 second delay before the lift will move when the arm switch is activated.

**NOTE:** Remote Setting 1, 2, etc. references Channel Setting, not number of remotes.
NOTE: Before installing the gear racking, the chair needs to be completely assembled and powered on and moved down the rail a short distance.

Slide remaining section(s) of gear racking into the rail extrusion until it is touching the top of the 1st section of gear racking that is already in place.

Secure gear rack by tightening screw at top of rail.
INSTALL THE CHARGER

NOTE: Before installing charger, lift must be parked midway on the stair case until charger installation is complete and tested.

Run a measuring tape inside the rail from the top to the bottom. You will be attaching the charging cable to the end and pulling it back up using the measuring tape. Detach charging cable from measuring tape to connect to DC Charger. Run cable through end plate.

The following steps are for an installation with the electrical outlet at the top. If your setup requires it to be at the bottom, make your electrical connections at the bottom instead.
Connect the *charging cable’s* ground wire (ring connector end) to the rail itself using the end screw. Connect the *charging cable’s* positive wire (female end) to the *charging strip* wire (male end). Neatly stow wires inside.
It can not be closer than 2 3/4” from the end of the rail.

Insert charging strip.

Tighten screws in charging strip.

Connect charging strip to cable splitter.

Neatly stow wires inside of rail once connected.

Attach ground wire of charging strip on the other end of rail.

Insert charging strip and tighten down. Once again, it can not be closer than 2 ¾” from the end of the rail. See next page for clearance guidelines.
Charging Point Location Clearance

Check that the upper surface of the footrest is less than 6 1/2” above the bottom and top landings.

The Charging Point determines the height of the stairlift finishing position at the bottom & top of the stairs.

Non-Charger End of Rail

CHARGER & CHARGING WIRE GROUNDS (ring connector)

CHARGING CABLE (female connector)

CHARGING STRIP (male connector)

MEASURE AT TOP & BOTTOM LANDINGS
TOP OF FOOTREST TO FLOOR HAS TO BE LESS THAN 6 1/2”

LESS THAN 6 1/2”
Plug in and power on unit. Move lift down to charging strip.

Once the **chassis leg** covers are back on, move the lift to the top of stairs and ensure that the seat swivels correctly.

Plug the **charging strip** wire into charging cable and tuck wires neatly into rail. Add end caps.

**Digital display** should read “Platinum”. Add **chassis leg** covers back.
Once rails are screwed down, move the lift to the bottom charger again and ensure that the digital display still reads “Platinum”. If it doesn’t, refer to the “Troubleshooting” section below.

Install batteries into the remotes and test.

Enjoy using your Horizon Plus stair lift!

TROUBLESHOOTING

If after completion there is 27v on both charge points and the lift reads “off charge”, check the 7.5 amp fuse on the main PCB for continuity.
POWERED HINGE

Use supplied wiring looms and connect as shown in the diagram below. Place Hinge PCB box into top of rail extrusion before fitting plastic end cover.
HINGE WIRING DIAGRAM

Do not make any power hinge electrical connections with the lift parked on a charge point and the wall charger plugged in.

Disconnect ALL power supplies.
OFFSET FOOTREST

The footrest can be offset if necessary. Unhook lever linked footrest spring, remove screws holding footrest lever link bracket, disconnect footrest loom.

Remove plastic footrest cover, remove footrest limit loom, slacken off grub screw.

Tap mounting bar through bracket and remove footrest assembly, pull loom out of footrest, one connector at a time, remove 3 bolts and reposition bracket. Replace bolts and feed loom back through hole 1 connector at a time. Reattach to chassis leg by knocking mounting bar back through bracket - be careful not to damage footrest limit loom. Tighten grub screw and reattach lever link bracket with 2 screws. Rehook leverlink footrest spring.
CHAIR ALTERATION

Chair Ergonomic Alteration
The chair can be individually tailored to better fit the customer or installation area. The arm rests can be widened or made shorter, and the seat pad can be moved forward.

<table>
<thead>
<tr>
<th>The arm rests can be made shorter and/or further apart by removing the 4 x allen bolts, repositioning the arms and replacing the bolts.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Position 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully extended, fully forward. This will give maximum seat width with maximum length of useable armrest.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Position 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully extended, fully back. This will give maximum width of seat with minimum useable armrest. (For use when swivel radius width at top of stairs is reduced.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Position 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid extended, fully forward.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Position 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid extended, fully back.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Position 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum extended, fully forward. This is how the chairs are supplied as standard.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Position 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Extended, fully back. (For use when swivel radius width at top of stairs is reduced.)</td>
</tr>
</tbody>
</table>
Chair Ergonomic Alteration (cont.)

<table>
<thead>
<tr>
<th>When using <strong>Positions 2, 4 &amp; 6</strong>, the arm rest angle will need altering. Remove 4 x pozi screws in bottom of armrest cover. Remove armrest top.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Remove bolt</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>...and replace here</th>
</tr>
</thead>
</table>

| The Seat pad can be moved forwards. Undo the zips on the seat pad. Remove the 4 allen bolts shown on the right, reposition seat pad. Replace bolts. |
**STAIRLIFT TEST RUN PT. 1**

**TEST RUNNING STAIRLIFT - EMPTY**

Press manual swivel levers and turn chair, make sure it locks securely at either end of travel and that the swivel interlock switch operates correctly. Key is attached to the arm with a tie wrap, detach and insert into keyswitch under armrest.

**Important:**
If there are any issues with the stairlift, the system may display System Status Codes. Refer to the System Status Codes section for more details of what these codes mean.

To test run the stairlift (unladen):
Make sure the area covered by the movement of the stairlift is free of obstructions.

Fold down the footrest and swivel the seat into correct travel position. Leave the armrests in the upright position. Do not allow any weight to rest on the carriage as yet.

Run the unladen stairlift to the very bottom of the track. While the stairlift is travelling check:

1. Footrest, folded down, to riser clearance.
2. Armrest and seat back clearance, especially on staircases with low bulkheads.
3. Seat back clearance to wall or railing posts.
4. Arm rest clearance to wall when swivelled.

At the bottom check that the stairlift is charging correctly and the footrest is at the correct height to allow the user to easily access the stairlift. When the lift is properly charging, the word “Platinum” will be displayed on the LED screen.

Run the stairlift to the top of the track while checking all above points.

At the top check that the stairlift is charging correctly and the footrest is at the correct height to allow the user to easily access the stairlift. Also check the swivel radius to ensure that the downside armrest or seat back does not come into contact with the opposite side of the staircase.

**If the footrest contacts any step rise...**
Fold arms, seat and footrest into the UP position. Remove foot screws and move entire rail forward by moving the feet positions closer to the nose of the step.

**Be careful that the chair doesn't tip over while making adjustments.**

**If the chair contacts wall when swiveled...**
Move the entire rail farther away from the wall.

**TIGHTEN LEGS**

Once you have determined that you have the proper clearances for your stairlift, tighten all Leg screws.

**At this point, spread small dabs of the gear lubricant approximately 6-8” along the gear teeth.**
Installing the Remote Controls
There are 2 types of remote control, Infra-Red (IR) & Radio Frequency (RF). Each system comes with 2 remote controls as standard. More can be added if required. IR control is supplied as standard, RF control is an available option if local IR interference is causing an issue.

The controls have 3 buttons, Up, Down and a red Park button. The park button is only used in conjunction with the optional intermediate charge point.

To install the remote controls: Infra-Red
The infra-red receivers are mounted in the arm of the chair.

Fit the batteries into the remote controls, then use each of them to call and send the stairlift to and from the other end of the track and then back again.

The controls are sent pre-programmed to the PCB. However, if there are several stairlifts installed in close proximity or there are other infra-red/radio sources in the area creating interference, the Infra-Red signals for each of the stairlifts can be changed so that they do not interfere with each other.

To change the signal
Remove battery cover and batteries from the control. Remove the four screws holding the back cover of the control and carefully remove the PCB from the plastic housing.

Change jumper settings on all controls for this lift to either 1, 2, 3 or 4.

Carefully, put the PCB back into the plastic housing, replace back cover, batteries & battery cover.

To program the remote controls to the carriage, cycle through the menu and adjust ‘Remote 1’ to the corresponding jumper number.
TEST RUNNING STAIRLIFT - FULLY LADEN

Test running the stairlift fully laden (with someone in it) ensures the lift is working correctly, and that it clears any obstacles. It also begins the bedding in process. Please ensure that the rack is lubricated with the supplied silicone or synthetic PTFE based grease at this point. We recommend that you lubricate three teeth every 6” on the rack.

To test run the stairlift (fully laden):
Move the stairlift to the bottom of the track, fold down the armrests and footrest, and have a person get in the chair. Using one of the remote controls, send the stairlift to the top of the rail.

To test manual swivel, push down on swivel levers, and ensure chair will swivel into correct entry/exit position. Press direction control in downwards direction to ensure swivel interlock switch is working, and stairlift will not descend in this position. Push down swivel levers and ensure chair swivels back to correct travel position.

Use remote control to send stairlift down the stairs, stop part way along the rail and then reverse direction to bring stairlift back to the top, ensuring the stairlift stops correctly.

Use the remote control to travel down the stairs. Ensure the stairlift stops correctly.

Make sure the stairlift comes to a stop quickly, if you do any of the following actions:

Let go of the direction control.

Encounter an obstruction with the footrest.

Encounter an obstruction with the safety pads on the carriage.

Swivel the seat.

Run the stairlift from one end of the track to the other; then return it to its original position. For both trips make sure it runs freely and smoothly, and proceeds clear of stair treads and any other fixed obstructions. At one end of the track, stop the stairlift at one end of the track, undo the seatbelt and make sure the plug part of the lock retracts into its housing.

Lift up the seat, footrest and arm rests and make sure they all stay upright.

Run the stairlift to the middle of the track, then stop it.

Use the hand-winding procedure to make sure the chair can be hand-wound both up and down the track with the power off.
TECHNICAL INFORMATION

Weight Limits
The stairlift has been designed to carry one person only, in a seated position. The stairlift has a maximum weight limit of 308 lbs.

Operating Periods/Excessive Use
The stairlift has been designed to run for four minutes with a break of at least six minutes afterwards. If you use the stairlift too often without taking a break, the motor will not cool down between journeys and may become damaged.

Replacement Batteries
We recommend that the batteries in each remote control are renewed at least every eighteen (18) months. This is the responsibility of the customer.

Maintenance
To maintain safe and reliable operation, the standard stairlift needs an annual safety inspection and service.

Important:
Modifications which have not been expressly approved by the manufacturer may void the warranty and may cause damage. Your stairlift should be inspected and maintained by a Platinum approved service engineer.

Upholstery
Carelessness with matches, cigarettes and so on can cause a fire. The upholstery material used on your stairlift has been tested for compliance with BS5852.

Hand Winding the Stairlift
If necessary, for example to release the safety gear after the OSG has activated or to return the carriage from an over-run position, the stairlift can be manually hand-wound using the supplied winding handle. If the OSG has been activated, the carriage should only be hand-wound in the upwards direction. Hand winding should only be attempted by, or under the supervision of a competent stairlift engineer.

To hand-wind the stairlift:
• Turn power off.
• Fully insert the winding handle into the Emergency Hand Wind Mechanism Socket (8)
• Keeping the handle fully inserted, carefully rotate it as needed
• If you rotate the handle clockwise, this will move the chair to the right
• If you rotate the handle anti-clockwise, this will move the chair to the left
• Never use the stairlift when the winding handle is in the socket
• Never hand-wind the lift with a power drill
**TECHNICAL INFORMATION**

*Outdoor Lifts*

The supplied cover must be used when the stairlift is not in use.

**Releasing a Trapped User**

If a user becomes trapped on the stairlift due to a fault, they should be assisted from the chair in the following way:

- Lift one of the manual swivel levers and rotate the carriage towards the staircase until seat locks into swivelled position.
- Release users seatbelt
- Lift manual swivel levers and return seat to original position.

**Gear Rack Lubrication**

Gear Rack must be greased on a monthly basis. Extra attention needs to be taken on any lift in a salt environment (Outdoor Lifts).

White lithium grease recommended.

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Never exit seat without first turning towards staircase and ensuring that it locks into position.

Always exit upwards.
**DIAGNOSTIC CODES**

**Diagnostic Display**
These codes are displayed on the Diagnostics Display panel.

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No Display</strong></td>
<td><strong>No power</strong></td>
</tr>
<tr>
<td></td>
<td>1. Check the battery isolator switch is in the ‘I’ position.</td>
</tr>
<tr>
<td></td>
<td>2. Check batteries are correctly connected and in good order.</td>
</tr>
<tr>
<td></td>
<td>3. Check 7.5 Amp data line fuse and 20 Amp fuse.</td>
</tr>
<tr>
<td><strong>Platinum</strong></td>
<td><strong>OK</strong></td>
</tr>
<tr>
<td></td>
<td>The stairlift is on charge and everything is OK, lift should operate normally.</td>
</tr>
<tr>
<td><strong>Safety Circuit / Final Limit</strong></td>
<td><strong>Final Limit Fault/Safety Circuit short to 0v (ground)</strong></td>
</tr>
<tr>
<td></td>
<td>1. Check key switch is on connected and working.</td>
</tr>
<tr>
<td></td>
<td>2. Check seat swivel switch is connected and working.</td>
</tr>
<tr>
<td></td>
<td>3. Check if the stairlift has over-run and switch is connected and working.</td>
</tr>
<tr>
<td></td>
<td>4. Check if OSG and safety gear has actioned and switch is connected and working.</td>
</tr>
<tr>
<td><strong>Low Battery</strong></td>
<td><strong>Batteries Need Charging</strong></td>
</tr>
<tr>
<td></td>
<td>Stairlift batteries are down to 21V.</td>
</tr>
<tr>
<td></td>
<td>1. Check transformer is plugged in to mains socket and turned on.</td>
</tr>
<tr>
<td></td>
<td>2. Check charging point voltage is present unloaded and loaded.</td>
</tr>
<tr>
<td></td>
<td>3. Check charge voltage is present on white charge connector on main PCB.</td>
</tr>
<tr>
<td><strong>Off Charge</strong></td>
<td><strong>Lift is off Charge</strong></td>
</tr>
<tr>
<td></td>
<td>Stairlift batteries are not charging (the stairlift may still work). To charge them:</td>
</tr>
<tr>
<td></td>
<td>1. Move the stairlift to a charging point.</td>
</tr>
<tr>
<td></td>
<td>2. Check transformer is plugged in to mains socket and turned on.</td>
</tr>
<tr>
<td></td>
<td>3. Check charging point voltage is present unloaded and loaded.</td>
</tr>
<tr>
<td></td>
<td>4. Check charge voltage is present on white charge connector on main PCB.</td>
</tr>
<tr>
<td></td>
<td>5. Check 7.5 amp fuse on PCB</td>
</tr>
<tr>
<td><strong>End Stop</strong></td>
<td><strong>End Stop Activated</strong></td>
</tr>
<tr>
<td></td>
<td>Ensure that both track and staircase are clear of obstructions.</td>
</tr>
<tr>
<td><strong>Safety Edge</strong></td>
<td><strong>Lift stopped by safety edge in direction of travel (footplate or side cover)</strong></td>
</tr>
<tr>
<td></td>
<td>Ensure that both track and staircase are clear of obstructions.</td>
</tr>
<tr>
<td><strong>Move Right</strong></td>
<td><strong>Lift travel direction</strong></td>
</tr>
<tr>
<td></td>
<td>Right.</td>
</tr>
<tr>
<td><strong>Move Left</strong></td>
<td><strong>Lift travel direction</strong></td>
</tr>
<tr>
<td></td>
<td>Left.</td>
</tr>
<tr>
<td><strong>Seat Swivel</strong></td>
<td><strong>Seat in Swivelled position</strong></td>
</tr>
<tr>
<td></td>
<td>Lift cannot move until powered swivel seat is returned to travel position.</td>
</tr>
<tr>
<td></td>
<td>1. Check powered swivel option is selected in menu (if you have a powered seat).</td>
</tr>
<tr>
<td></td>
<td>2. Check lift is set as correct hand in menu.</td>
</tr>
<tr>
<td></td>
<td>3. Check lift is at top of track and bottom skate end stop is activated.</td>
</tr>
<tr>
<td></td>
<td>4. Check transformer is plugged in to mains socket and turned on.</td>
</tr>
<tr>
<td></td>
<td>5. Check charging point voltage is present unloaded and loaded.</td>
</tr>
<tr>
<td></td>
<td>6. Check charge voltage is present on white charge connector on main PCB.</td>
</tr>
<tr>
<td><strong>Thermal Cut Out</strong></td>
<td><strong>Motor and motor drive are running too hot, overloaded lift or excessive use.</strong></td>
</tr>
<tr>
<td></td>
<td>Switch lift off and allow motor to cool.</td>
</tr>
<tr>
<td><strong>Call Conflict</strong></td>
<td><strong>More than one conflicting call received.</strong></td>
</tr>
<tr>
<td></td>
<td>Direction toggle or wall control direction button stuck on.</td>
</tr>
<tr>
<td><strong>Release Joystick</strong></td>
<td><strong>Conflicting call received.</strong></td>
</tr>
<tr>
<td></td>
<td>User needs to release joystick and re-input call.</td>
</tr>
<tr>
<td><strong>Brake Fault</strong></td>
<td><strong>Motor brake inoperable.</strong></td>
</tr>
<tr>
<td></td>
<td>Reset lift. Check brake connection on main PCB and reset lift.</td>
</tr>
<tr>
<td><strong>Relay Fault</strong></td>
<td><strong>Power relay did not close</strong></td>
</tr>
<tr>
<td></td>
<td>Check battery charge level. Reset lift. Tap Relay. If problem persists, renew PCB.</td>
</tr>
<tr>
<td></td>
<td>There are also 3 thermal fuses on the PCB. If any of these fuses are activated, a red LED located nearby will light. This generally indicates a wiring fault on one of the circuits connected to the PCB in the surrounding area to that LED.</td>
</tr>
<tr>
<td><strong>Hinge</strong></td>
<td><strong>Hinge arm is not fully down</strong></td>
</tr>
<tr>
<td></td>
<td>Check hinge arm is fully down. Run lift upwards to intermediate or top charge point and allow hinge to lower on downwards call. Check Hinge interlock circuit for operation.</td>
</tr>
</tbody>
</table>
ENGINEER’S MENU

Engineer’s Diagnostics and Settings
Further diagnostics and settings are available by cycling through the menu system.

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 12345</td>
<td>Lifts current position on rail. Bottom end stop is 00000. Press and hold menu button to re-program.</td>
</tr>
<tr>
<td>Remote 1/2/3/4</td>
<td>Shows current Remote channel selection. Press adjust button to change.</td>
</tr>
<tr>
<td>Right / Left Hand</td>
<td>Shows current installation hand selected. Press adjust button to change.</td>
</tr>
<tr>
<td>Quiet Travel / Travel Alarm</td>
<td>Shows current travel alarm selection. Press adjust button to change.</td>
</tr>
<tr>
<td>Landing Stop / Pass</td>
<td>Shows current landing selection. Press adjust button to change.</td>
</tr>
<tr>
<td>Powered / Manual Swivel</td>
<td>Shows current swivel selection. Press adjust button to change.</td>
</tr>
<tr>
<td>Edge 123</td>
<td>Number of sensitive edge trips since last engineer reset. Press adjust button to reset to 0.</td>
</tr>
<tr>
<td>Low Batt 123</td>
<td>Number of low battery events since last engineer reset. Press adjust button to reset to 0.</td>
</tr>
<tr>
<td>Trips 12345</td>
<td>Number of trips (up or down) done by control system. Not resettable.</td>
</tr>
<tr>
<td>Safety 123</td>
<td>Number of safety circuit trips since last engineer reset. Press adjust button to reset to 0.</td>
</tr>
<tr>
<td>Brake 123</td>
<td>Number of brake faults since last engineer reset. Press adjust button to reset to 0.</td>
</tr>
<tr>
<td>Relay 123</td>
<td>Number of relay faults since last engineer reset. Press adjust button to reset to 0.</td>
</tr>
<tr>
<td>Lost Position 123</td>
<td>Number of times position has been lost since last engineer reset. Press adjust button to reset to 0.</td>
</tr>
<tr>
<td>Battery Bar (bar display 1-8)</td>
<td>A bar display of battery voltage. Approx. 21V (all off) to 27V (all on).</td>
</tr>
<tr>
<td>Low battery</td>
<td>Battery below 21V.</td>
</tr>
</tbody>
</table>

Mains Power, Battery Power and Power Cuts
The DC charger supplies power to a set of large internal batteries. These batteries then power the motor which lifts the chair up and down the stairs.
If the mains power fails, you can continue to use the stairlift for a short while as the batteries store enough power to allow you up and down the stairs a few times.

SERVICING

IF HINGE RAIL
• CHECK OPERATION OF LIMIT SWITCHES.
• CHECK OPERATION OF PLASTIC GUARD COVERS.
• CHECK OPERATION OF HINGE RAIL
• CLEAN EXCESSIVE GREASE OF MECHANISM AND CHECK FOR DAMAGE. IF NECESSARY RE-APPLY LUBRICATION.
SERVICING

Servicing
The Standard Horizon stairlift requires a service every 12 months.
If working on the drive unit while still mounted on the rail extrusion, it is advisable to move it as close to the floor downstairs as possible. All lifting and carrying should be in line with current HSE manual handling guidelines.

Service Carriage

- Remove carriage from rail. Turn off. Remove plastic side covers.
- Check rollers for wear/damage. If replacing, lubricate roller shafts lightly.
- Check pinion for wear/damage.
- Check all rollers rotate freely. If necessary lubricate roller shafts lightly.
- Check all wires and connectors for damage & operation of all switches.
- Check operation of OSG and safety gear.
- **Check operation of charge pin, left/right end stop switches and final limit switch.**
- Remove any debris including excessive, built up grease and clean all surfaces.
- Check all wiring and connectors to PCB.
- Check all wiring and connectors to batteries.
- Check battery condition. Replace if necessary.
- Check hand-wind mechanism operates correctly.
- Check wiring, connectors and switches on side cover safety edges.
- Ensure footrest operates correctly.
- Ensure footplate safety edges operate correctly.
- **Ensure footrest carpet is fixed correctly.**
- **Replace side covers ensuring they fit correctly and safety edges operate correctly.**
- Ensure Diagnostic Display shows correct codes.
- Check all wiring and connectors.
- Ensure the 4 x M8 Hex bolts are tightened to a torque of 25 Nm.
- Ensure manual swivel mechanism is free of debris and operates correctly.
- Ensure swivel interlock switch operates correctly.
- Remove plastic covers around powered swivel, check all wiring and connectors, ensure the area is free of debris. Check operation and replace plastic covers.
- Check arm rests operate correctly.
- Check seat belt operates correctly.
- Check all controls operate correctly.
- Remove plastic seat base cover.
- Check wiring, connectors and switches on manual swivel limit.
- Ensure the 4 x M5 Hex bolts are tightened to a torque of 20 Nm

Service Rail

- Clean excessive grease off racking and inspect for damage/wear. If necessary re-apply lubrication. We recommend that you lubricate three teeth every 300mm on the rack.
- **Inspect rack jointing bolts and replace/re-fit if necessary.**
- Clean rail and inspect for damage.
- **Check combined end stops/charging ramps are fixed firmly and in the correct position.**
- **Inspect rail joints and legs and replace/re-fit if necessary.**
- **Inspect all leg screws and replace/re-fit if necessary.**
- Check charge circuit is operating correctly.
- Check carriage stops in the correct position at the top and bottom.
HORIZON STAIR LIFT WARRANTY CERTIFICATE

PLEASE FILL OUT ALL FIELDS AND RETURN WITHIN TEN (10) DAYS OF PRODUCT PURCHASE.

Mail to AmeriGlide, Inc., 5110 Atlantic Avenue, Raleigh, NC 27616. AmeriGlide warrants to the original purchaser of a Horizon stair lift manufactured for us to be free from defects in material and workmanship for a 2-year period on all component parts of the lift and a 5-year period on the drive train.

Exclusions to this limited warranty are:

- Damage resulting from improper installation or operation
- Negligence, alterations, abuse or misuse of the equipment
- Fire, flood, acts of God
- Tom or dirty upholstery
- Shipping damage
- Parts used that are not supplied by AmeriGlide, Inc.
- Batteries are warranted for a 30 day period
- Labor fees for installation work or service calls

All new AmeriGlide Outdoor stair lifts are covered by a 1-year warranty against defects in the drive train and its component parts, a 1-year warranty against defects in all other stair lift parts and components, and 30 days for the batteries. Some exclusions may apply; please call our product experts for more details.

No warranty is extended, express or implied, whether of merchantability or fitness for a particular purpose, after expiration of 2 years from the date of original purchase of the unit. AmeriGlide, Inc. and its dealers shall not be liable for any consequential, special or incidental damages arising out of the purchase or use of the unit or resulting from the breach of this Limited Warranty, or any implied warranty. The limit of liability of AmeriGlide, Inc. and its dealer hereunder shall be the unit’s purchase price. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, or legal remedies, so these above limitations may not apply to you. All warranty claims must be reported to the dealer from whom the lift was purchased as they have responsibility for handling your warranty claim. The dealer is to contact the Service Department of AmeriGlide, Inc. at 1-800-580-0831 and provide the serial number of the lift along with a description of the events leading to the warranty claim. Dealers may charge for labor, service, travel, or other associated costs to make repairs, and such charges are not covered by this Limited Warranty. It is permissible to have any repairs or replacement work done as a result of any defects in material and workmanship by someone other than the Dealer under this Limited Warranty. However, the Limited Warranty does not cover any charges or expenses assessed by any such other person or company performing such repairs or replacement work. All parts used to replace defective materials must be genuine AmeriGlide, Inc. parts to be covered by this Limited Warranty. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

NOTE: Outdoor Stair Lifts are not built to be operated in snow, ice, or inclement weather and may require maintenance (lubrication, switch inspection, and steel component inspection) multiple times per year depending on the conditions to which they are exposed. The steel components are subject to rust and can degrade rapidly depending on their exposure to weather.

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**PRODUCT INFORMATION**

Model:

Serial Number:

Purchase Date:

---

**PURCHASER INFORMATION**

Name:

Address:

---

**INSTALLER INFORMATION**

Company Name:

Contact Name:

Phone:

Email:

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Phone:

Email:
Please download the most current Installation Manual at
ameriglide.com/horizon-plus-install

 Please have manual at hand if you call Technical Support.

**Technical Support**
1 (800) 791-6419
8AM-5PM EST