

*Pilot*

# AVIATOR E603

Installation and Service Manual



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### *Note*

This manual specifically instruction for service engineers and distributors only.  
This is not a manual for user use.

## 1. Introduction

The Stairlift basically consists of four parts: the carriage, the footrest, the seat, and the rail. The stairlift is powered by rechargeable batteries inside the carriage. There are safety sensors on the upper and lower covers and bottom of the footrest. These sensors will stop the unit if any obstruction is detected on the rail or stairway. The footrest, the armrests and the seat can be folded up when not in use to allow for more space on the stairway. Pull the swivel handle up to unlock the seat when you reach the top of the stairs. This will allow you to get into or out of the seat at a convenient position. The rail has two charging points at the top and bottom. The batteries can be recharged automatically when the unit stops at these positions.

### 1.1 Intended Use

The Stair Lift System is a powered patient transport, also commonly known as a Stairway Chairlift, or Stairlift. It is a motorized device intended for medical purposes to assist transfers of patients, or mobility-impaired persons, up and down flights of stairs. This stairlift can only be used on straight staircases inclined between 25° ~ 45°. It is designed to carry one person at a time and the maximum weight capacity is 158kg (350lbs). **Any other use which this stairlift does not intend for may cause serious injury or damage to personal property.**

### 1.2 How to Use Installation

This manual provides instruction for installation of the stairlift.

This manual includes whole sections in the following:

- Introduction
- Installation
- Testing

All section titles, subject subtitles and illustration are listed in the Table of Contents.

**1.3 Safety Rules**

As you read the manual, pay close attention to the following:

- Fire Hazard: Do not use an improper voltage source. Verify the rated voltage matches the voltage of the charger before applying power.
- Electrical Shock Hazard: Do not remove or open the cover during operation.
- Disconnect the power cord from the electrical outlet before cleaning or servicing.

**Specifications**


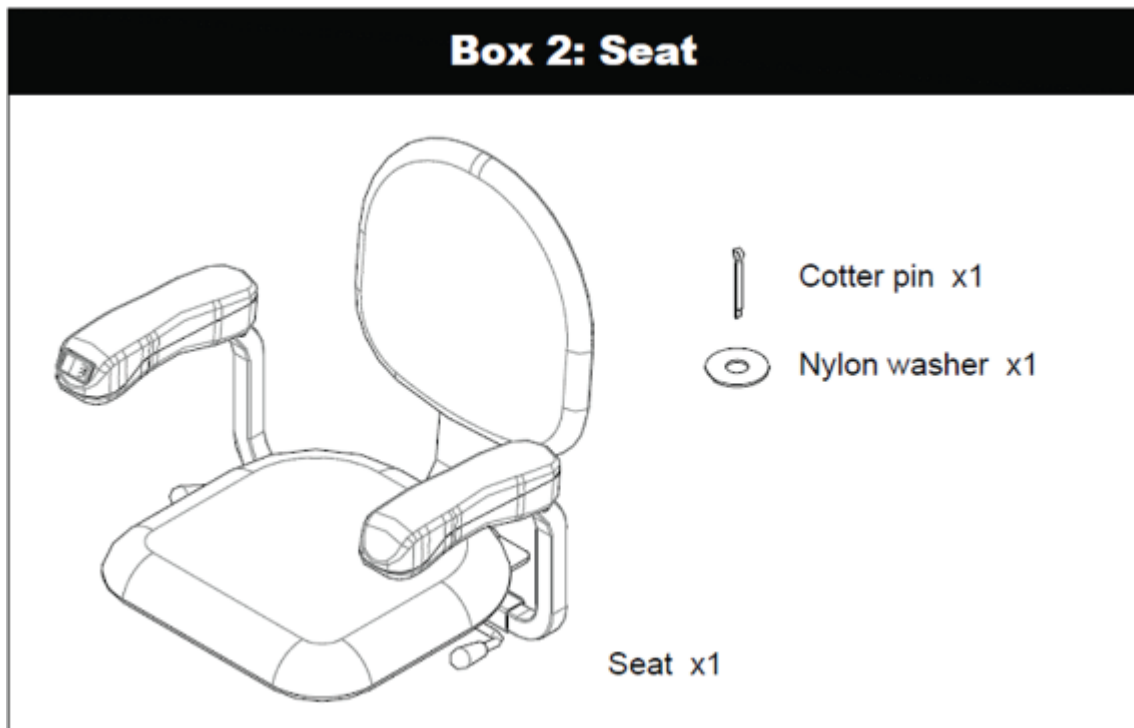
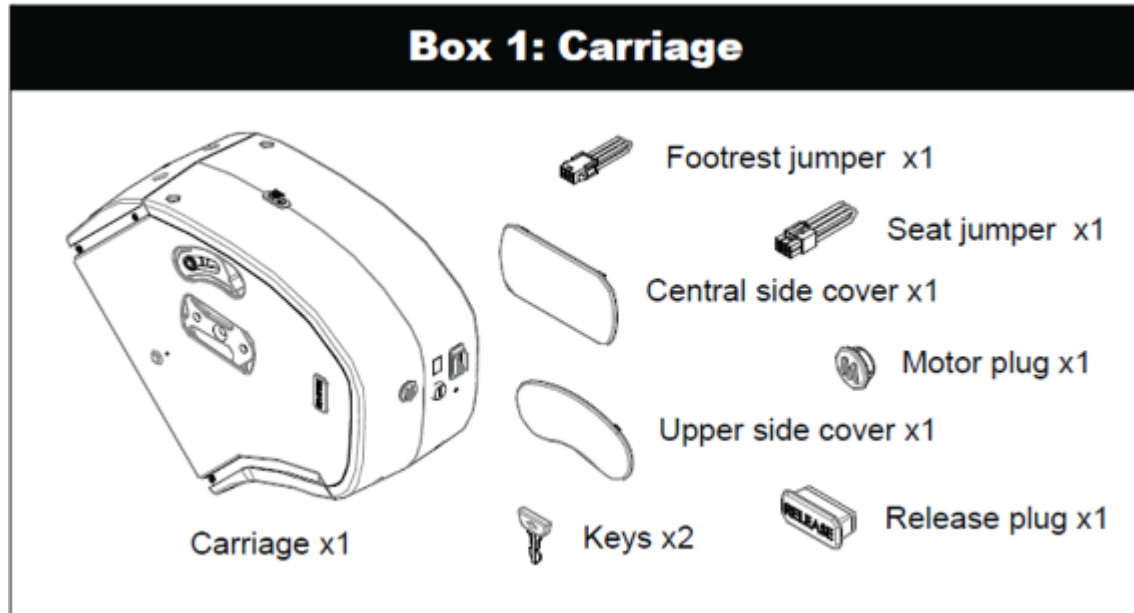
<b>Technical Specs:</b>	
<b>Load Capacity</b>	350 lbs @ 45° or 300 lbs with hinge Rail
<b>Range of Stair Angle</b>	25° ~ 45° Note: According to ASME A18.1, no lift should be installed to operate on a greater incline than 45 degrees as measured on the mean.
<b>Travel Speed</b>	20 ft/min
<b>Drive System</b>	Rack and Pinion
<b>Operator Control</b>	Constant-pressure rocker switch and remote controller
<b>Operating Voltages</b>	24VDC rechargeable batteries
<b>Motor</b>	1/2 HP, 24VDC
<b>Brake (Optional)</b>	Electromagnetic brake
<b>Charging</b>	On the top or bottom stop of the rail. Input: 115/230VAC, 50/60Hz. Output: 24V  2A
<b>Operating Ambient Temperature (Humidity)</b>	14°F ~ 104°F (up to 95% non-condensing) (up to 2,000m in altitude)
<b>Storage/ Transport Temperature (Humidity)</b>	14°F ~ 140°F (up to 95% non-condensing)

Table1 Specification of Stairlift

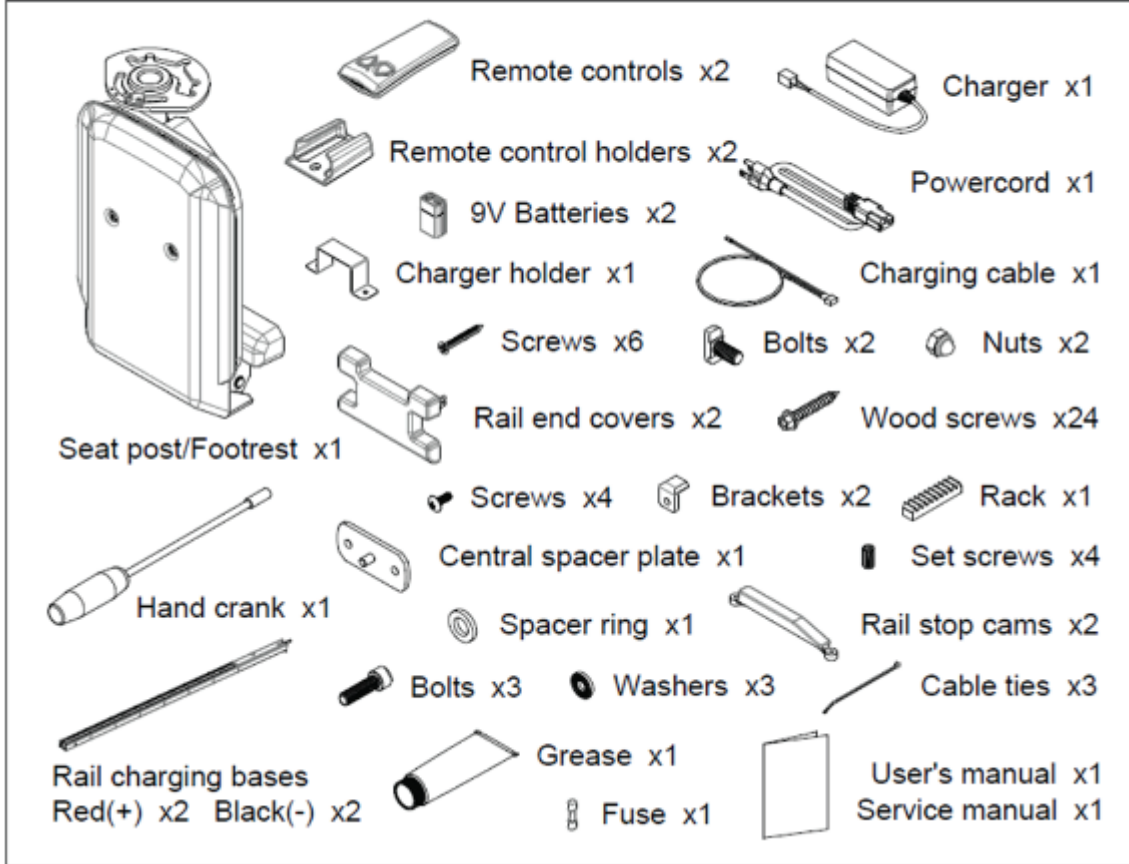
## 2. Installation

### 2.1 Unpack and verify the shipment

Check for any obvious damage to the carton or its contents. Pictures of damaged parts are required for warranty claims.



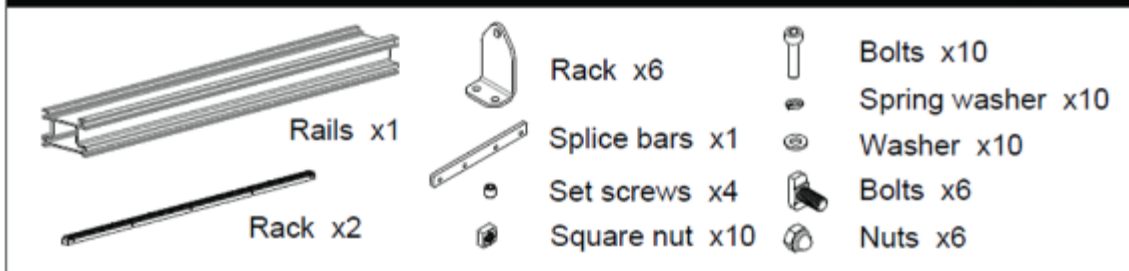
### Box 3: Seat post/Footrest and Accessories



### Box 4: Rails



### Box 5: Rails



## 2.2 Determine handing

Stand at the bottom of the stairway looking upward. A right-hand unit will be installed on the right side of the stairs (shown below). A left-hand unit will be on the left side.

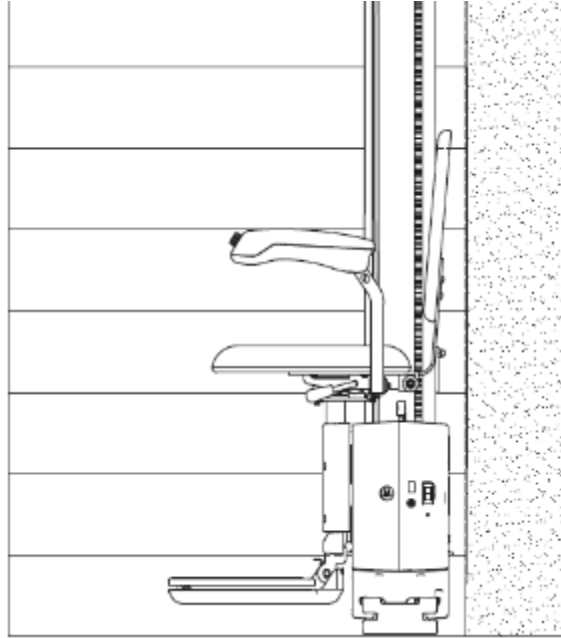


Figure 2-2 The rail is installed on the right side of the stairs for the right-hand unit

**NOTE: If installing a hinge rail, switch to hinge rail instruction manual for rail installation.**

**2.3 Cut the rail to length**

The rail is the same for both left-hand and right-hand units (shown below). The steel rack is always on the right side of the rail. Cut the aluminum rail separate from the steel rack. Always cut the rail at the top and install the cut end at the top.

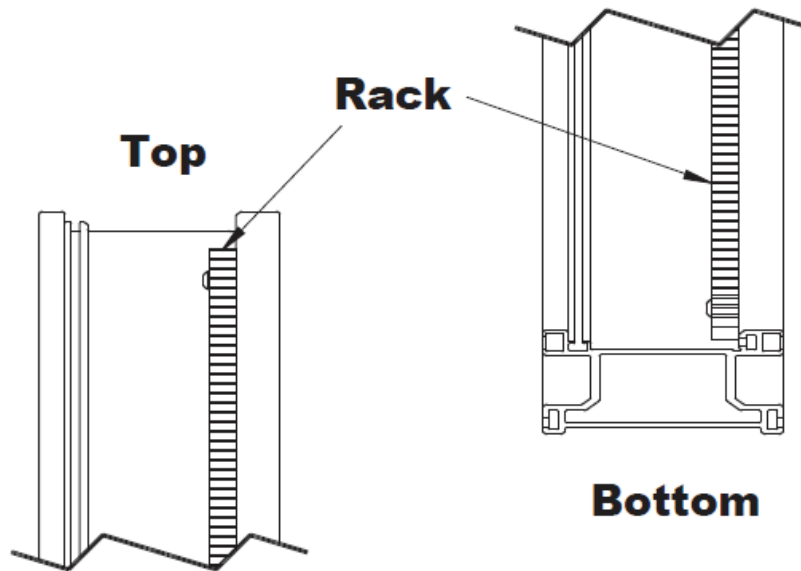


Figure 2-3 The top and bottom side of the rail

### 2.3.1 Stairs Measurement

1. Measure the length from the nose of top landing to the floor at the bottom landing.
2. Measure the angle of stairs.

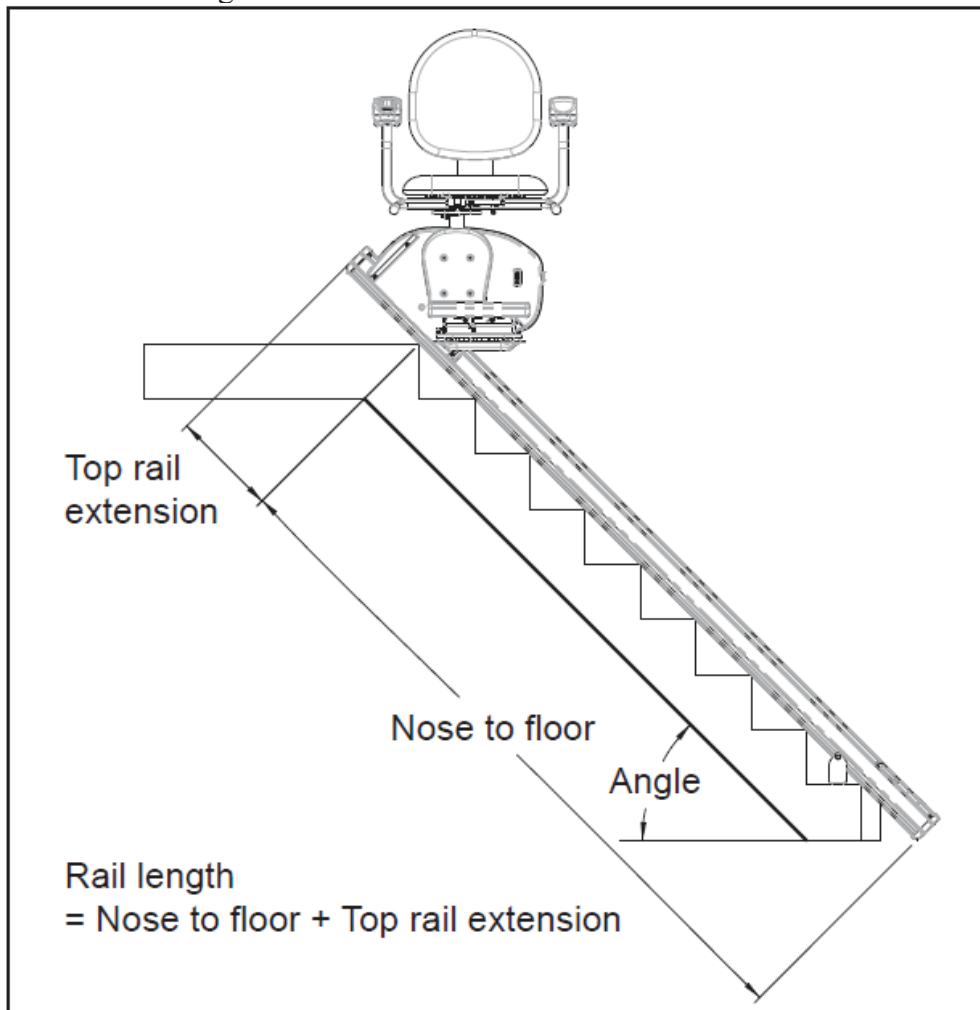


Figure 2-3.2 Stair Measurement

**2.3.2 Determine the Rail Length**

Refer to the table below for the length of the rail extension required at the top landing. Recommend install with H=2" for smaller gap between the footrest and the top landing.

Angle of stairs	Top rail extension length	
	Height from Footrest to Landing (H)	
	H = 0	H = 2"
25	5-5/8"	10-1/4"
30	6-5/8"	10-5/8"
35	7-1/2"	11"
40	8-1/8"	11-1/4"
45	8-7/8"	11-3/4"

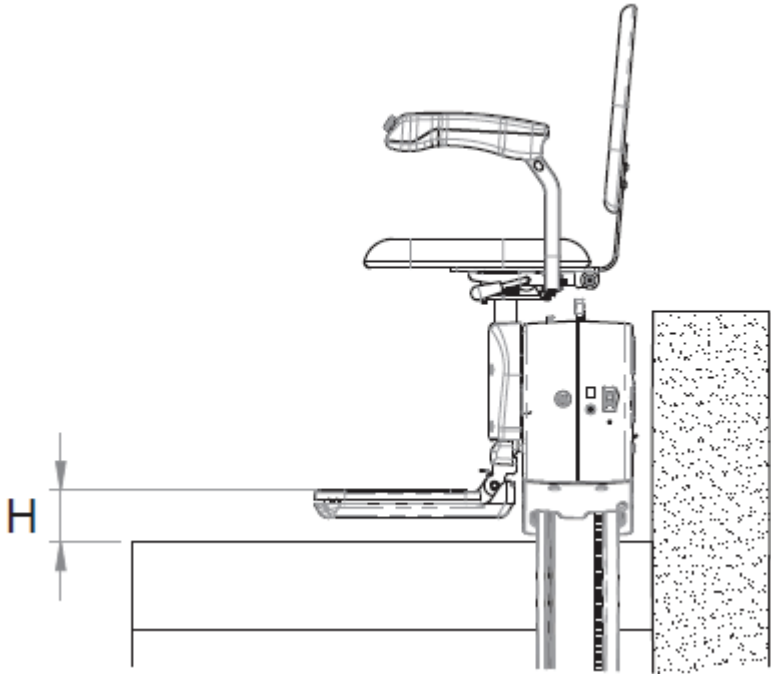


Table 2-3.3 Top rail extension length

***Note***

Always choose the angle larger than the measured one if the angle is between two angles on the table.

## 2.4 Connect rail sections together

Place the rail sections end to end on the floor. Connect the rail sections using the splice bars in the accessory box. Slide the rails together. Tighten the screws to secure the rail sections together.

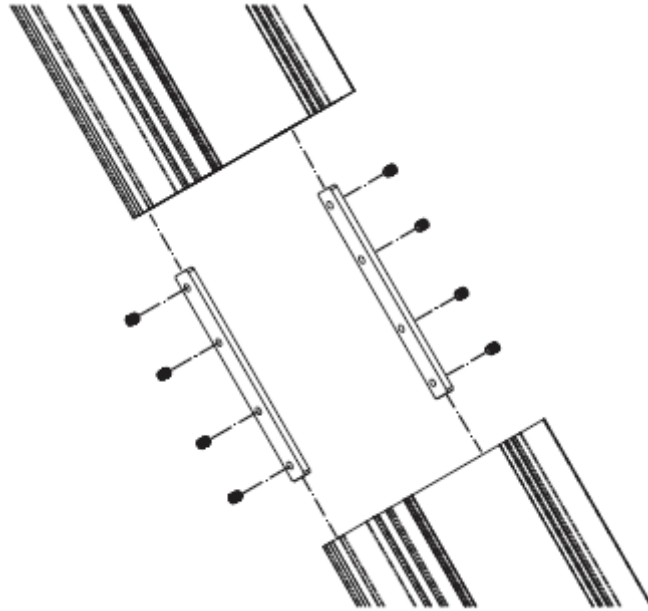


Figure 2-4 Connect rail sections together

### *Note*

If you are connecting more than two rail sections, insert T-bolts into the middle rail section before inserting the splice bars.

## 2.5 Install Bottom Rail Accessories

Assemble the charging bases of the bottom rail section. The negative ports are always installed on the rack side. Tighten the set screws. Install the limit switch cam on the bottom rail.

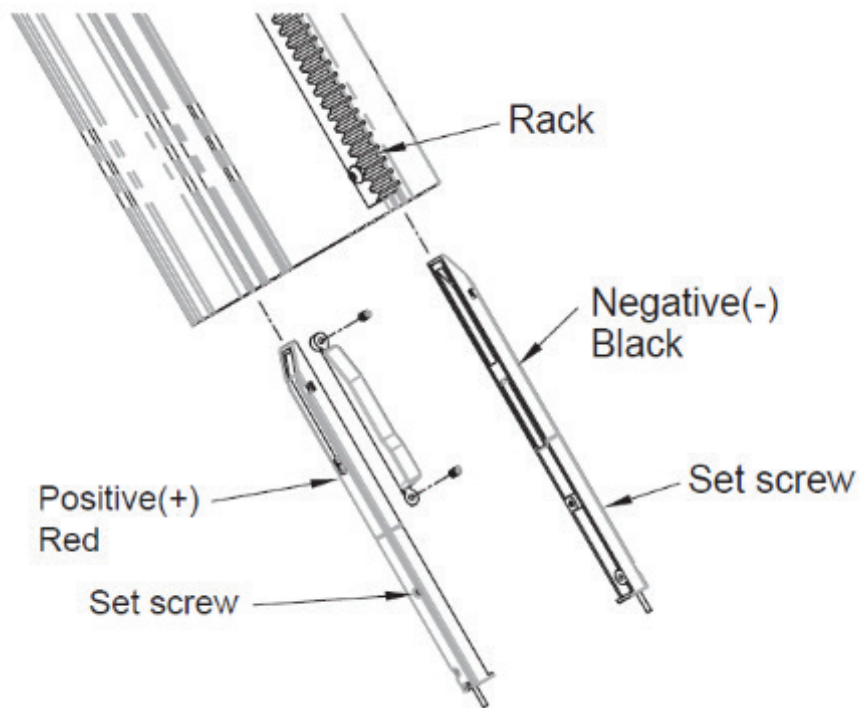


Figure 2-5 Install charging bases and limit switch cam

## 2.6 Install Rail Assembly on Stairs

Position the rail assembly on the steps. The minimum distance between the wall and the rails is 2-3/8". Slide the T-bolts into the lower slots of the rails for the mounting brackets. There should be six t-bolts on one rail section (three on each side). Place the mounting brackets at lowest and highest stairs that the rail spans. Mount the third one at the middle of the other two brackets. Ensure the distance between two mounting brackets is smaller than 40". Leave the bottom of rail about 3/8" above the floor.

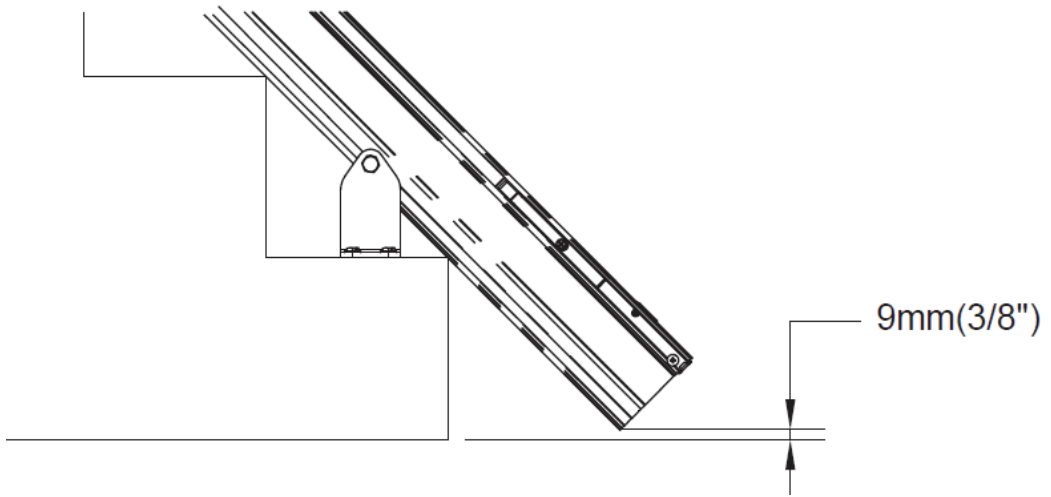


Figure 2-6.1 Rail bottom distance to the floor



Figure 2-6.2 Install mounting brackets

### 2.7 Install Racks on Rail Assembly

Loosen the screws that hold the rack to the rail on (any) rail above the lowest rail. Slide all the racks down so no gaps are between the racks. Check timing between each rack section with the timing block and tighten screws. The last steel rack needs to be cut 1/2" shorter than the rail to allow for installation of top rail cap on the upper most rail. Make sure that there are at least two fasteners for the top rack section before cutting the rack. Swap the position of the short rack sections with the long one to meet the requirement if necessary. Leave the top rack section uninstalled. **\*\*DO NOT REMOVE ANY SCREW - ONLY LOOSEN TO ALLOW MOVEMENT OF THE RACK\*\***

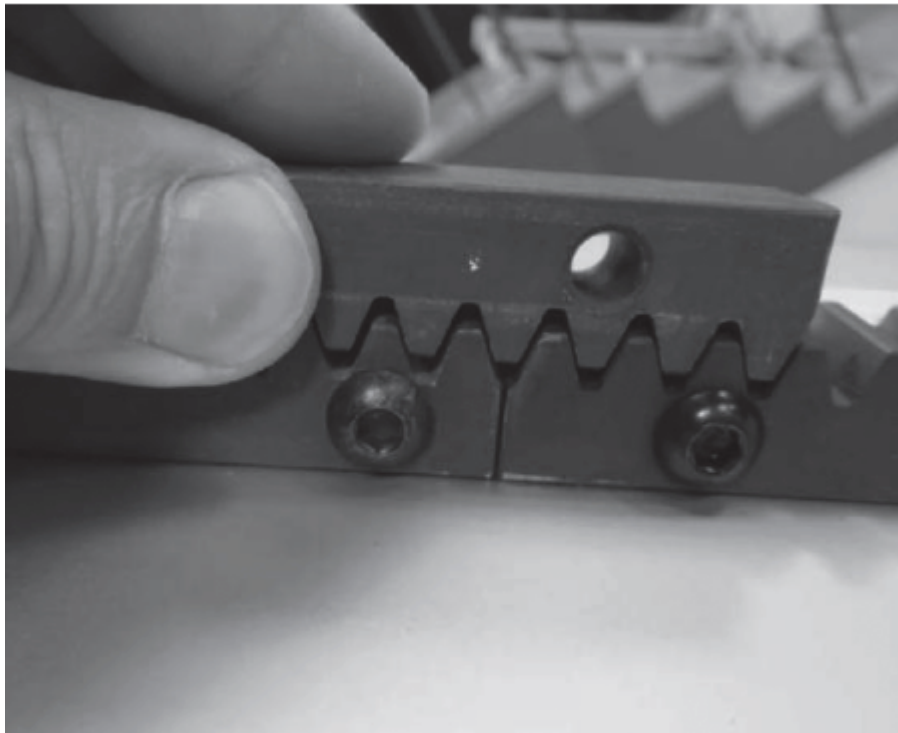


Figure 2-7 Mesh the rack sections

#### *Note*

**Do not remove any of the screws on the racks** once the rack is installed. The nuts in the slot will fall and cannot be tightened again. You will have to remove the complete rack to reinstall the rack screw again if the screw has been removed.

Ensure all screws are tightened up to avoid loosen  
(recommended torque 8NM (70.8 in/lbs))

## 2.8 Slide Carriage onto Rail

Remove the top rack section, limit switch cam, and charging bases on the top rail section if they have been installed. Lift the carriage and line up the rollers with the rail. Slide the carriage carefully onto the rail. **Pay attention to the charging pins and limit switches inside the carriage.**

### *Note*

The carriage is heavy. Take care when handling the carriage assembly.

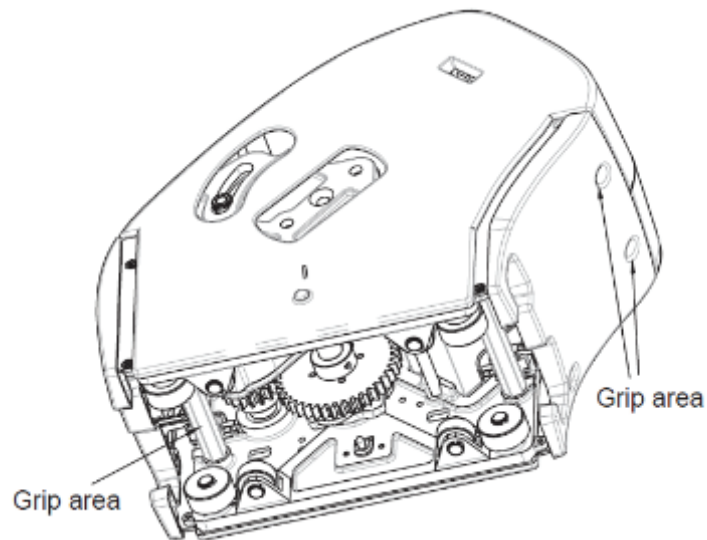


Figure 2-8.1 Carriage gripping area

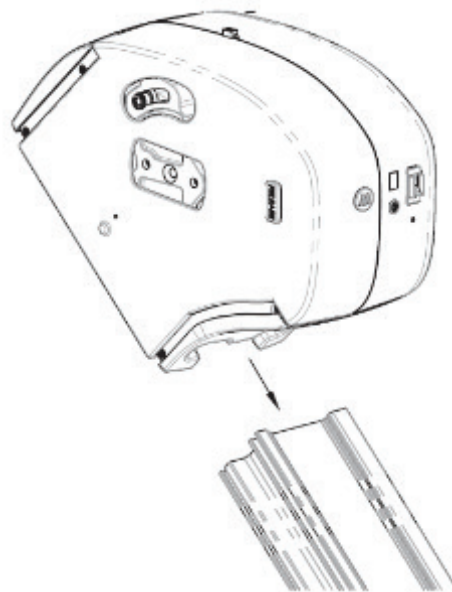


Figure 2-8.2 Carriage installing direction

### 2.8.1 Engage Carriage Gear with Rack on Rail

Release the motor brake if required. Use the hand crank to drive the carriage down about 1”.



Figure 2-8.1.1 Drive carriage down by hand crank

### 2.8.2 Move Carriage Down by Remote Controller

Plug the jumpers for the seat and footrest into the seat connector and footrest cable. Use the remote controller to drive the carriage down to install the top section of the rack.



Figure 2-8.2.1 Plug jumpers into carriage

### 2.8.3 Install Accessories on Top Rail Section

Assemble the charging bases on the top rail section. The negative charging strips are always installed on the rack side. Tighten the set screws. Install the limit switch cam on the top rail. Install the top rack section.

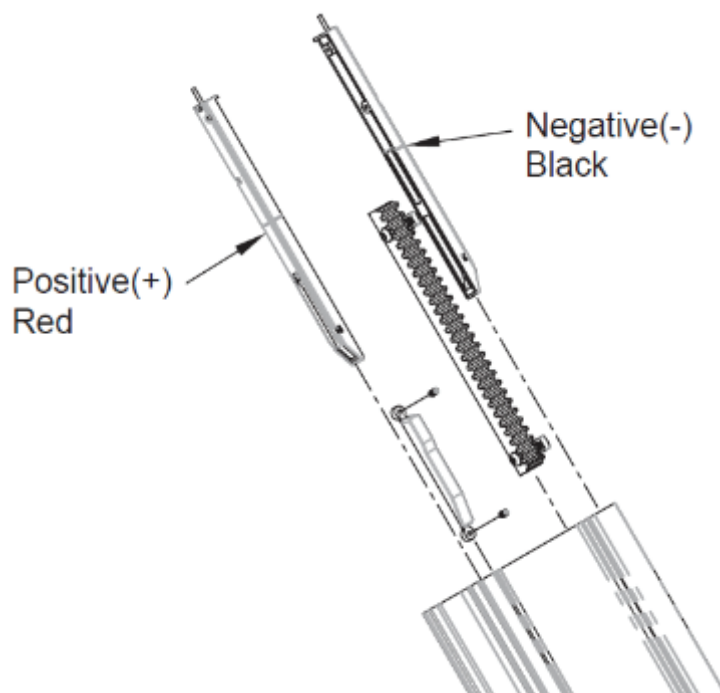


Figure 2-8.3.1 Install accessories on top rail section

### 2.8.4 Adjust Location of Top and Bottom Limit Switch Cams

Loosen the set screws on the cam. Slide the cams to the correct location and then tighten the set screws. This will dictate where the carriage will stop.

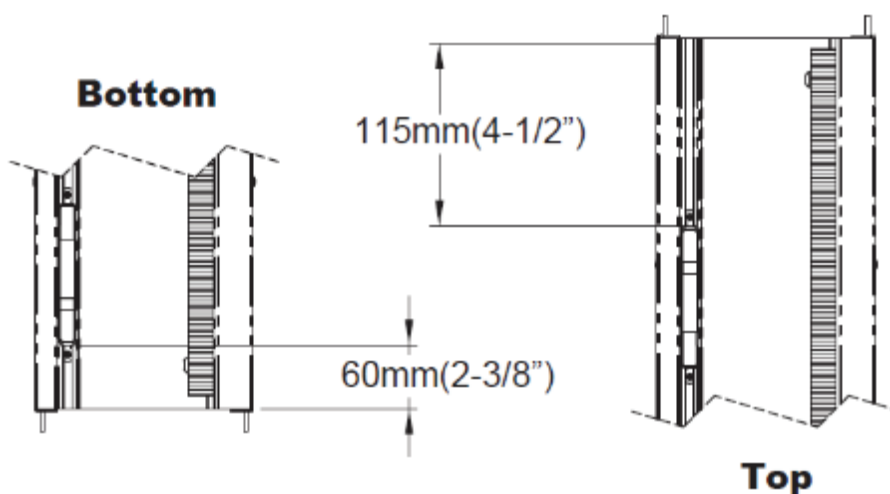


Figure 2-8.4.1 Location of limit switch cams

**2.9 Switch Handing of Footrest (if required)**

Remove covers on the footrest. Loosen two nuts and then move the bottom part to the correct side. Tighten the nuts.

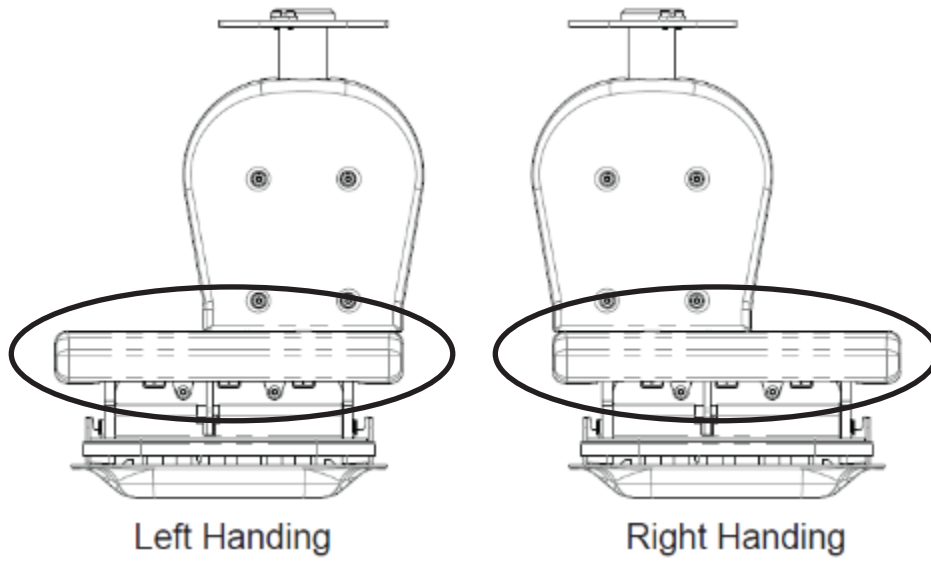


Figure 2-9.1 Footrest Handing

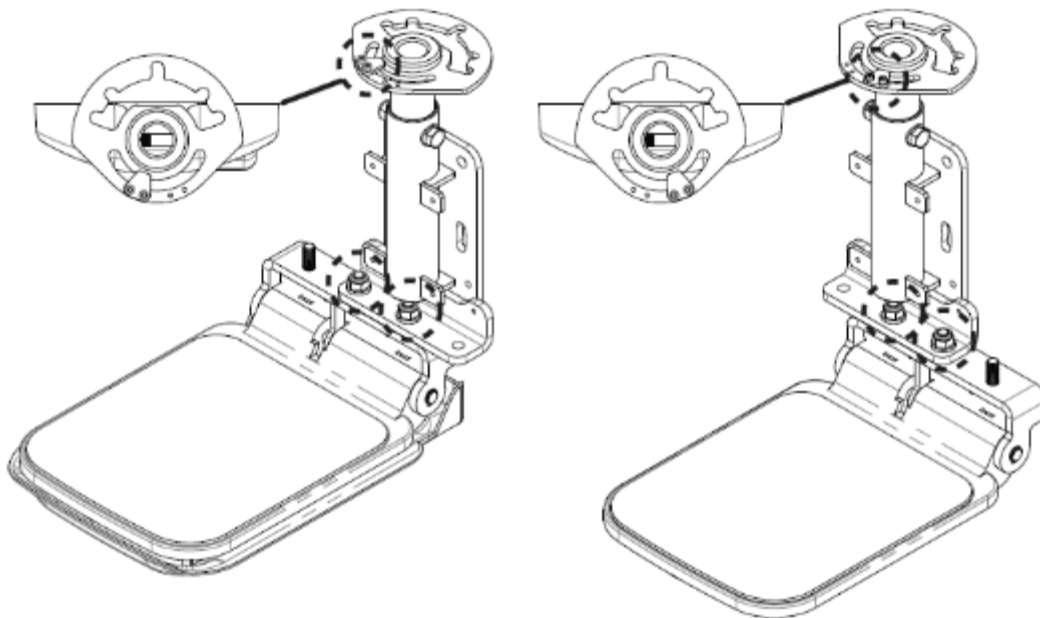


Figure 2-9.2 Switch footrest handing

### 2.9.1 Assemble Footrest

Install the central spacer plate with the welding side toward the carriage.

Assemble the footrest and spacer ring.

**Make sure the C-ring is not caught between the spacer ring and carriage side plate.**

Adjust the level and tighten with bolts and washers.

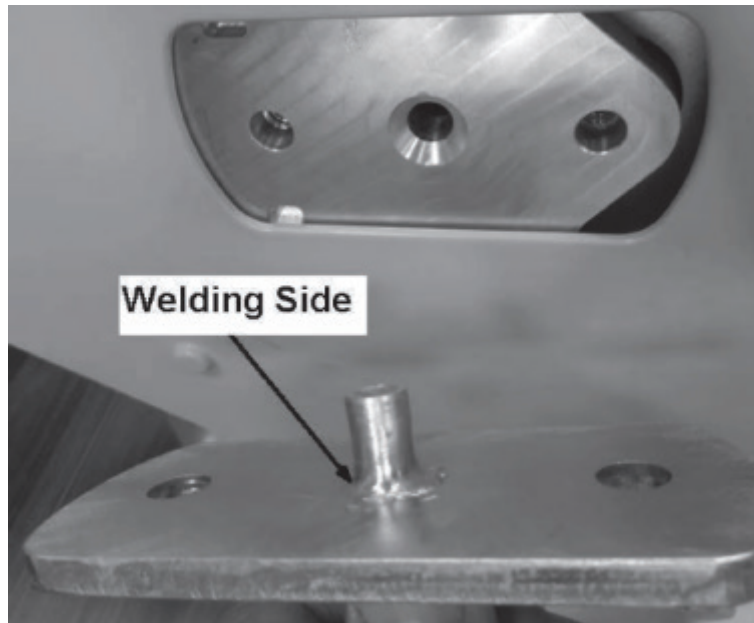


Figure 2-9.1.1 Central spacer plate

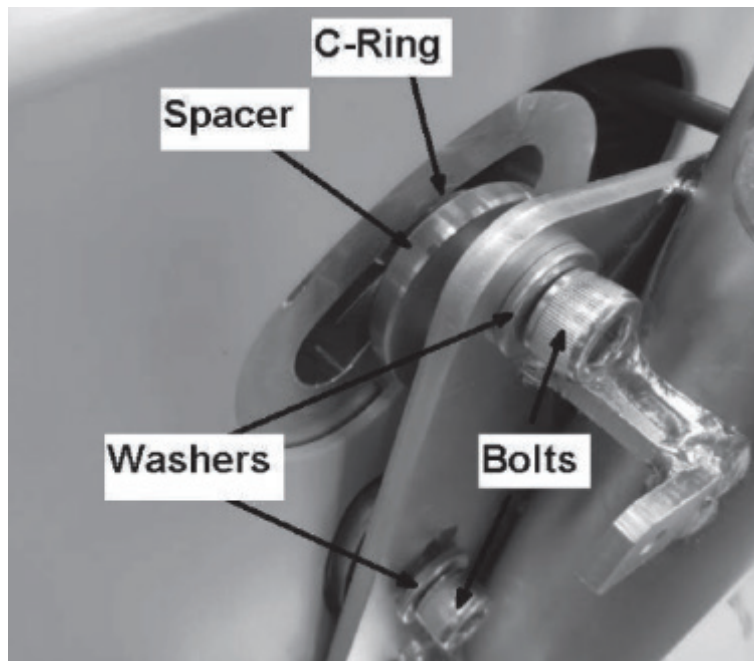


Figure 2-9.1.2 Footrest installation

### 2.9.2 Plug in Connector to Carriage Footrest Cable

Turn off the power and key switch. Remove jumper plug from the carriage footrest cable. For the left-handed type, plug in the L connector of the footrest wire. For the right-handed type, plug in the R connector.



Figure 2-9.2.1 Footrest connector

### 2.10 Switch Handing of Seat (if required)

Check the handing of the seat. If required, remove 4 screws from the seat shaft and reinstall it into the required position. Remove and install seat level spring opposite the seat shaft. When installing the seat shaft into the post make sure to lift seat handle to allow the pins to mesh with the plate on the post. (For Power Swivel see 2.10.4)

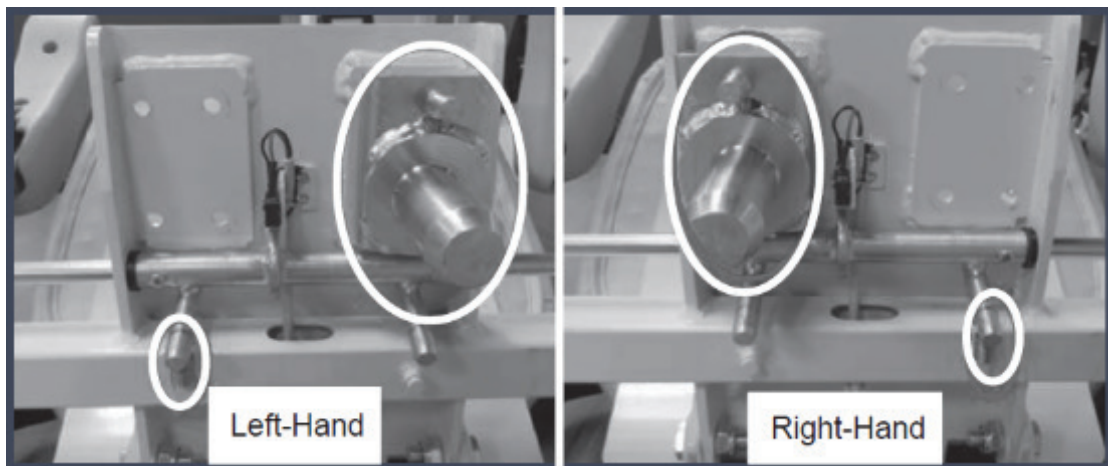


Figure 2-10.1 Seat handing

### 2.10.1 Adjust Seat Height (if required)

Remove the bolt from the seat post. Move the seat up or down as required and then reinstall the bolt.

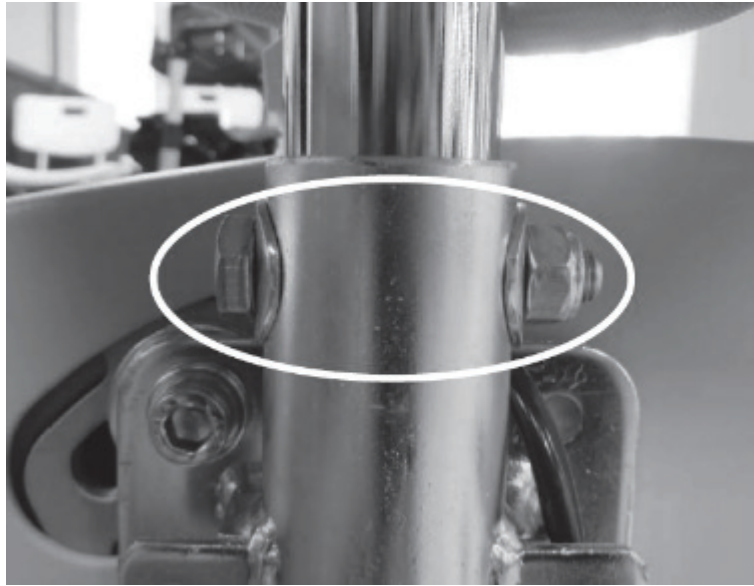


Figure 2-10.1.1 Seat height adjustment

### 2.10.2 Secure Seat on Seat Post

Install the pin and the nylon washer under the seat to secure seat on seat post. Bend one end of pin to lock it.



Figure 2-10.2.1 Install pin and nylon washer

### 1.9.3 Power swivel seat installation

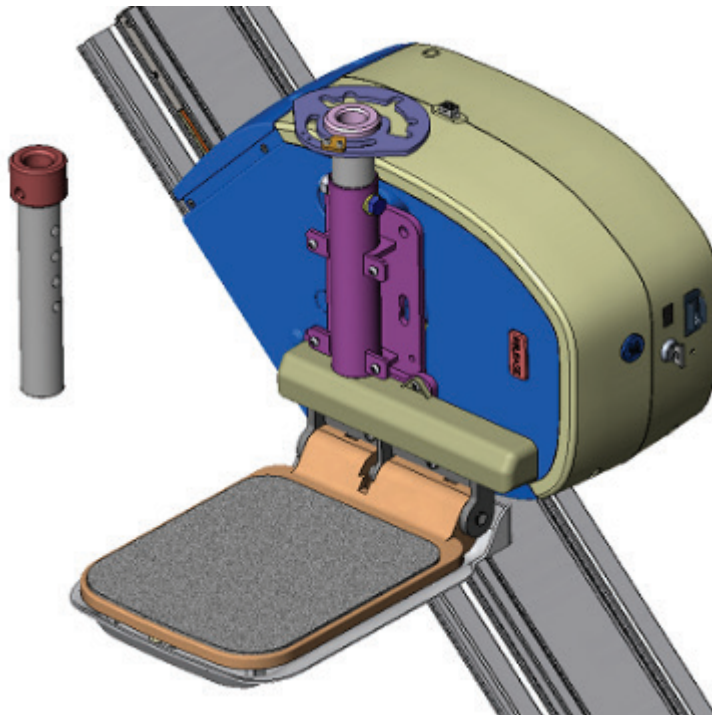


Figure 2-10.3.1 Remove the seat post shroud assembly. Replace the upper seat post assembly which is used for power swivel seat.

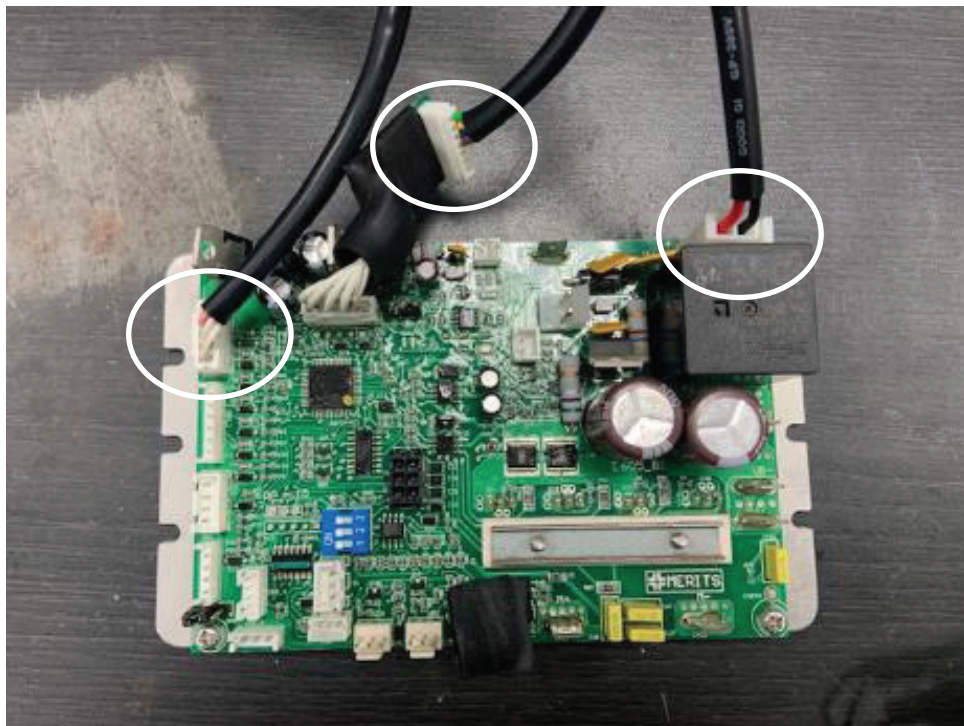


Figure 2-10.3.2 Replace the wire: Insert the connectors of the wires into the control board respectively.

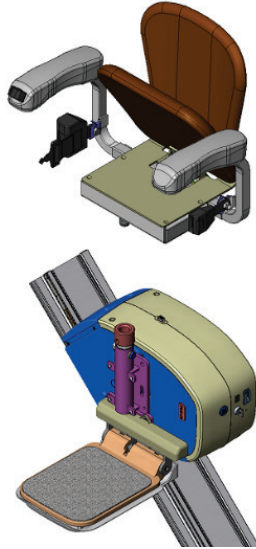


Figure 2-10.3.3 Install the power swivel seat.

#### 2.10.4 Plug in Seat Control Cable

Turn off the power and key switch. Remove jumper plug from the carriage seat connector. Plug in the seat control cable to the carriage housing. Rotate the seat to ensure the cable won't affect the function of seat.

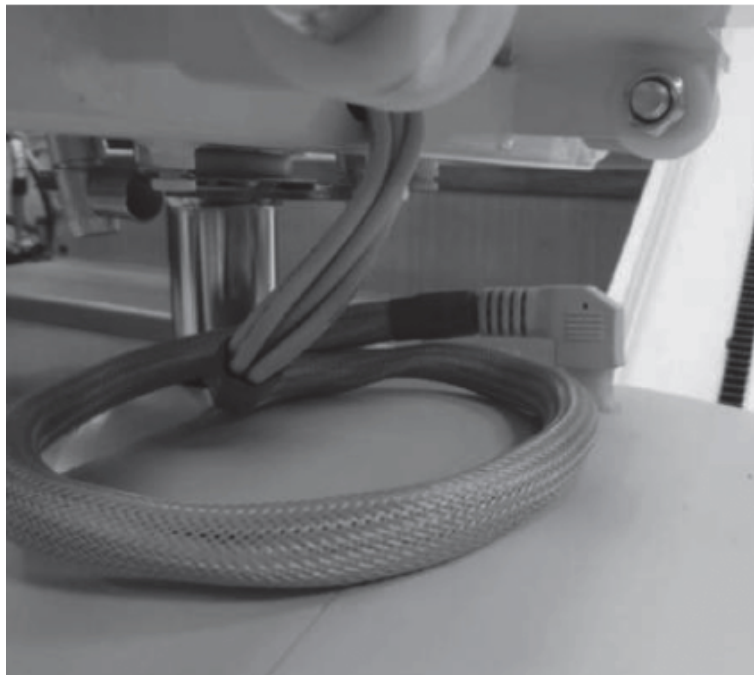


Figure 2-10.4.1 Seat cable

### 2.10.5 Change Handing of Armrest (if required)

Change the armrest safety switch if required. Unscrew the four screws under the armrests. Remove the 4 screws from the top cover, unplug toggle switch. Swap top covers and reinstall, make sure to plug in toggle switch. Close the armrest covers and fasten the screws.



Figure 2-10.5.1 Armrest bottom cover screws

#### 2.10.5.1 Change Toggle Handing

If you need to change the direction of the toggle switch, remove the toggle switch arm cover and swap black and blue wires. See the photo below.

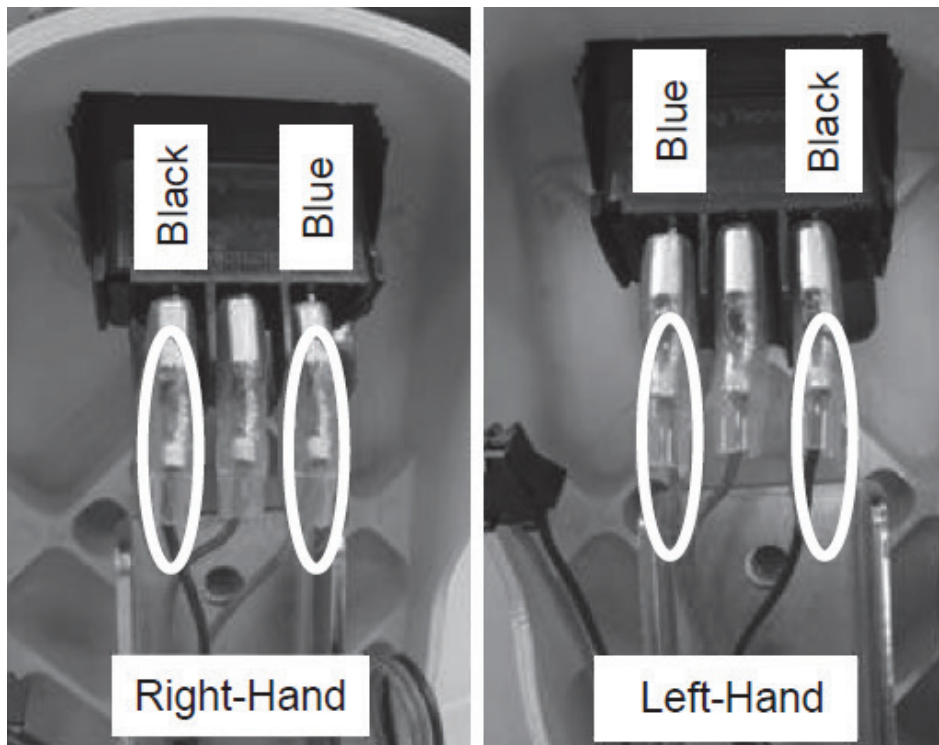


Figure 2-5.1.1 Rocker switch wiring for different handing



Figure 2-5.1.2 Armrest safety switch and plugs

### 2.10.6 Adjust Armrest Width (if required)

Loosen the screws under the seat on the back side. Slide the arm in or out as required and then tighten the screws.



Figure 2-10.6.1 Armrest width adjustment

**2.11 Install Seat Post Cover**



Figure 2-11.1 Install seat post cover

**2.11.1 Install Carriage Side Covers**



Figure 2-11.1.1 Install carriage side covers

### 2.11.2 Install Carriage Rubber Plugs



Figure 2-11.2.1 Carriage rubber plugs

### 2.12 Install Charger

Determine the charger's location (upstairs or downstairs). The yellow connector needs to be at the same location as the charger. If you are connecting multiple rails together, first connect rails, then connect extensions and feed the wire down the rail. Plug the charging wires into the charging strips.

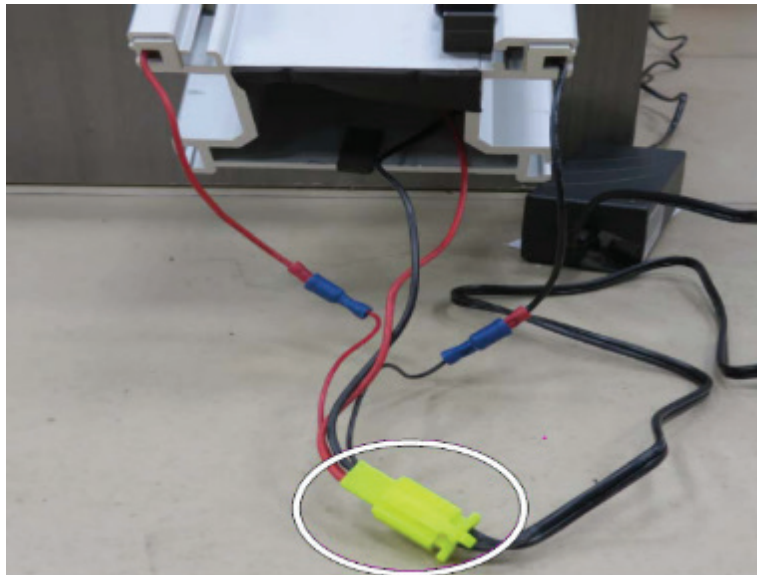


Figure 2-12.1 Charger and connectors

### 2.13 Install Mechanical Stop at Both Ends

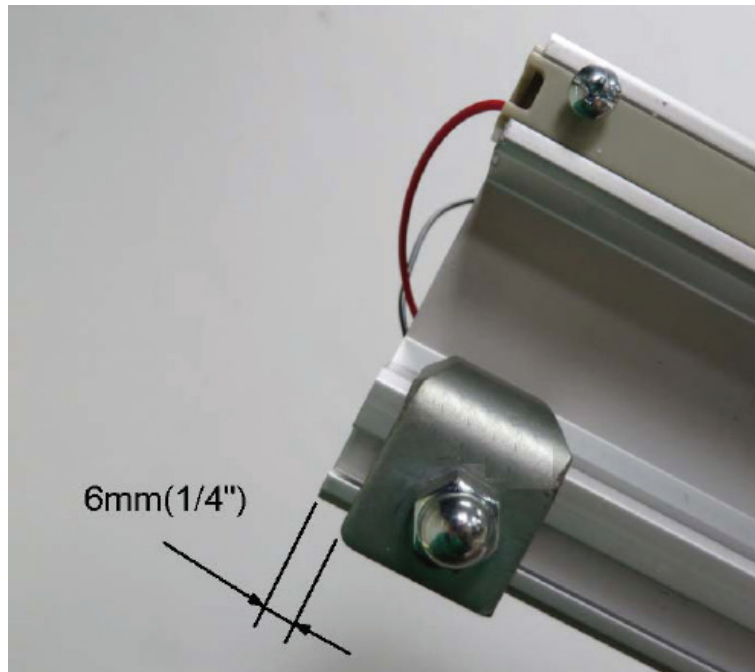


Figure 2-13.1 Mechanical Stops

### 2.14 Assemble Rail End Covers

Insert the wires into the cavity of the rail. Assemble the end covers on top and bottom of rail.

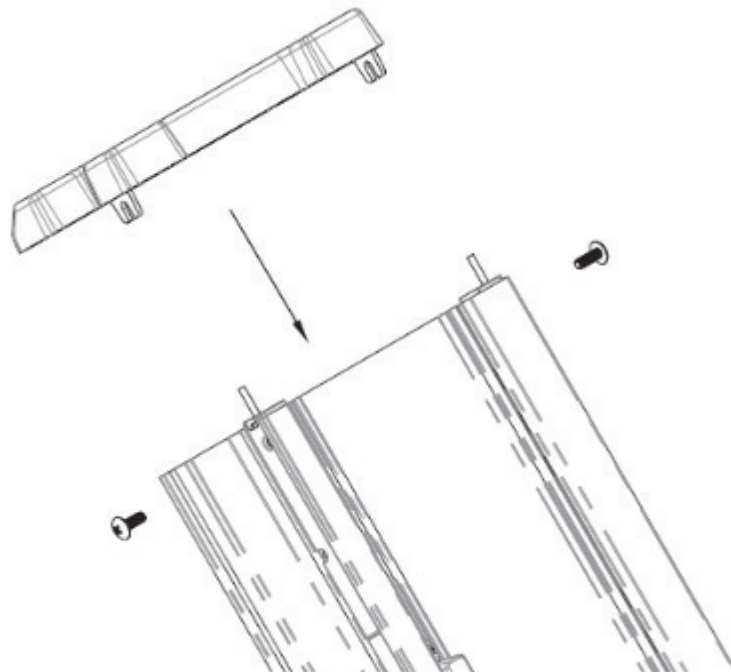


Figure 2-14.1 Assemble rail end cover

### 2.15 Check Installation and Lubricate

Verify that all mechanical components and electrical connections are properly installed. Use the tube of grease to lubricate the rack teeth. Use a light amount of grease.

### 2.16 To change the signal

If there are multiple units in the same location change the signal of the remotes. You will need to change the DIP switches on both the remote and PCB board.

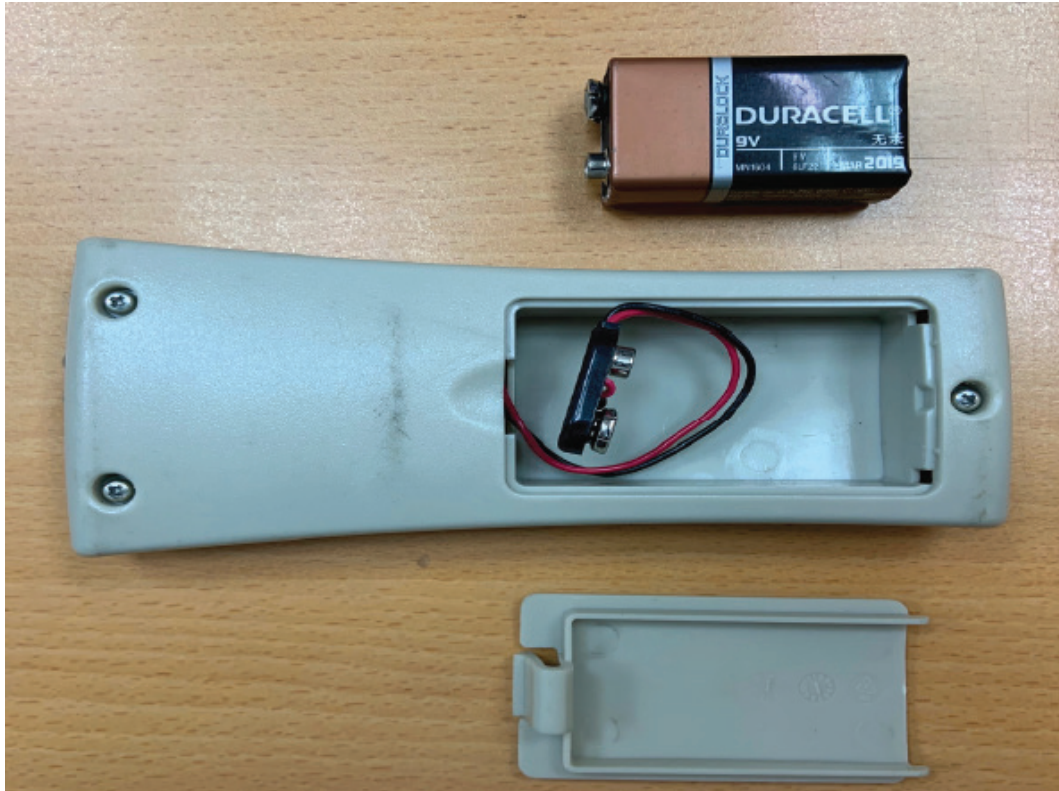


Figure 2-16.1 Remove the cover of remote control.

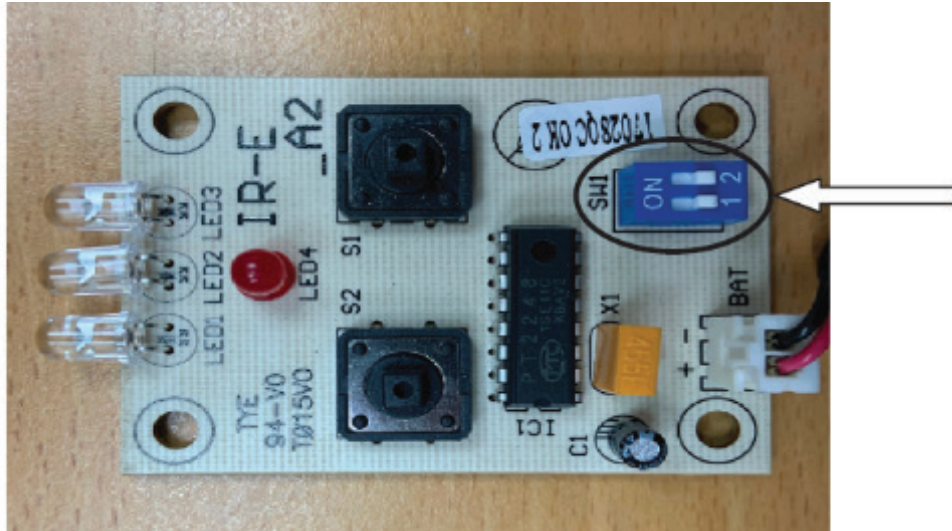


Figure 2-16.2 locate the DIP switch labeled SW1 on the remote control.

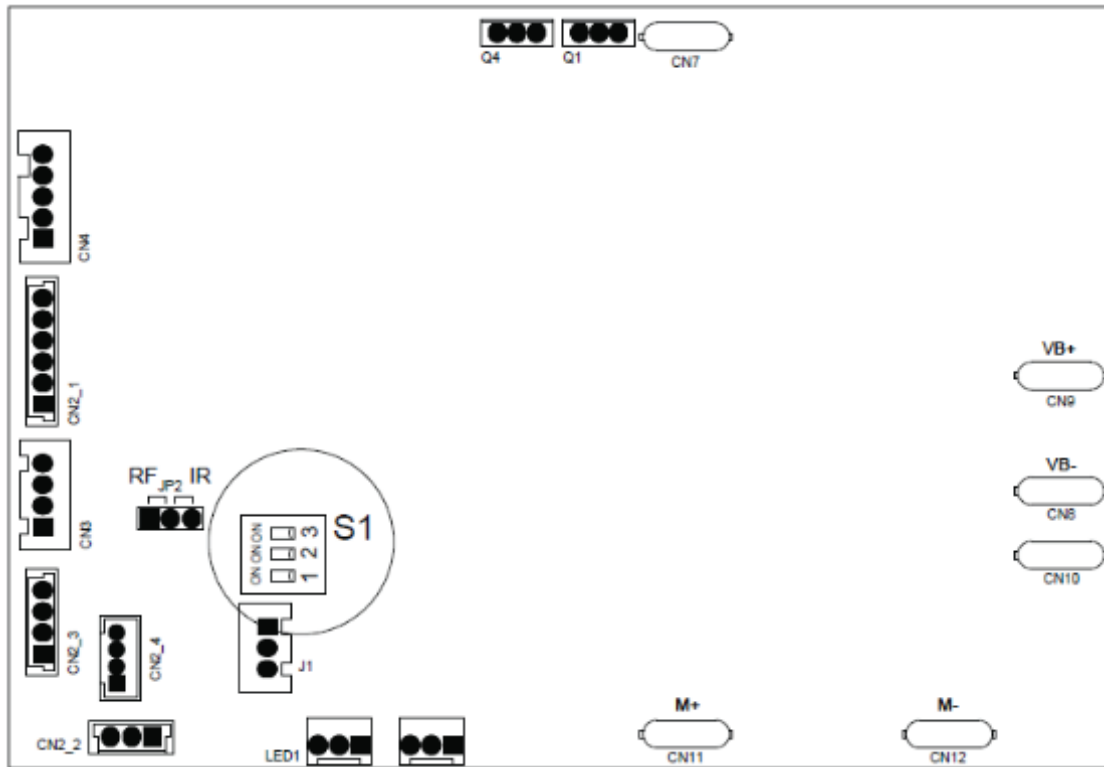


Figure 2-16.3 On the PCB board on the carriage, locate the DIP switch labeled S1.

	DIP switch S1		DIP switch SW1	
	NO.1	NO.2	NO.1	NO.2
channel 1	ON	ON	OFF	OFF
channel 2	ON	OFF	OFF	ON
channel 3	OFF	ON	ON	OFF
channel 4	OFF	OFF	ON	ON

Figure 2-16.4 Change the DIP switch settings to one of the following as needed (Channel 1 is the default).

### 3. Testing

The stairlift must be tested to ensure that it is operating correctly after installation or service.

#### 3.1 Remote Control Testing

Verify the moving direction of stairlift by pressing the up or down button on the remote control. Check the wiring of the motor if direction is reversed.

#### 3.2 Seat Testing

##### 3.2.1 Rocker Switch Direction

Sit on the seat and press the rocker switch on the armrest. Check the moving direction of the stairlift. Check the wiring of rocker switch if the direction is reversed. Refer to section 2.10.6 for correct wiring.

##### 3.2.2 Manual Swivel Seat


Sit on the seat and lift the swivel handle. Check the locking function at different angles. Press the rocker switch, the stairlift can only move when both arm rests and seat are down in riding position. The status display indicates  if the seat is not fully in riding position. The carriage will not move if the arm rest are not fully down.



Figure 3-2.1 Seat swivel



Figure 3-2.2 Armrest safety switch

### 3.2.3 Power Swivel Seat

Press the rocker switch on the armrest. The stairlift can only move when both arm rests and seat are down in the riding position. The status display indicates **4** if the seat is not fully in riding position. The carriage will not move if the arm rest are not fully down. Check that the seat will swivel at the top landing using the toggle switch.

### 3.3.1 Obstacle Detection on Footplate

Move the stairlift in the up direction and then push the footrest safety cover in three directions as shown in Figure 3-3. The stairlift will stop while pressing area “1”. The status display will indicate **4**. Move the stairlift in the down direction and test again. It will stop while pressing “2” or “3”. The status display will indicate **5**. Check the footrest connector if the directions are reversed.

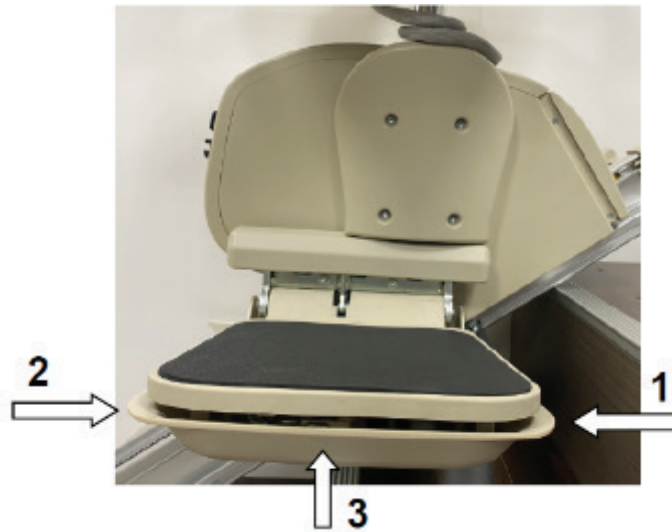


Figure 3-3.1 Footrest test direction

### 3.3.2 Obstacle Detection when Folded

Move the stairlift down and then press “4” as shown in Figure 3-3.2. The stairlift stops and the status display will indicate **5**.



Figure 3-3.2 Footrest test direction when folded

**3.4.1 Obstacle Detection**

Move the stairlift in the up direction and then press the “1” obstacle covers as shown in Figure 3-5. The status display will indicate **4**. Move the stairlift in the down direction and press “2”. The status display will indicate **5**.





Figure 3-4.1 Carriage Obstacle Sensor Testing

**3.4.2 Limit Switch Detection for Landings**


Move the stairlift up or down. The limit switches should stop the stairlift when it reaches the top or bottom of the rail.



### 3.4.3 Charging Station

Move the stairlift up or down to a charging station. The status display indicates  when the batteries are charging. If you get a  code, check the charger to see if it is plugged in and you are getting a light on the charger.




### 3.5 Diagnostic Codes




Refer to the following table to help diagnose and correct any faults.

Code	Status/Fault	Functionality	Inspection	Trouble shooting
N/A	No display.	Works abnormally	Check the circuit breaker and key switch on the carriage.	Reset the circuit breaker and turn on the key switch again. 1. Remove the shroud of the carriage. 2. Inspect the circuit breaker status and check if the key switch cable has become loose. Also, check if the key switch cable has short circuited. 3. If the circuit breaker and key switch are damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.
		Works normally.	Check the status display on PCB board.	1. Remove the shroud of the carriage. 2. Inspect the status display PCB board cable and check if the cable has become loose. 3. If the status display PCB board is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.
	The stairlift is ready to use.	Works normally.	No action required	

	1.The swivel seat switch is activated.	Works abnormally	Check the swivel seat position.	Re-rotate the swivel seat and make sure it is in the correct locking position.
			Check the position switch and cable connection.	<ol style="list-style-type: none"> <li>1. Remove the swivel seat set.</li> <li>2. Check if the main control cable has become loose.</li> <li>3. Check if the main control cable has short circuited.</li> <li>4. If the position switch is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>
	2.The final limit switch is activated.	Works abnormally	Check the location of the carriage.	<ol style="list-style-type: none"> <li>1. Check if the final limit switch is activated by the cam located on the rail.</li> <li>2. Use the manual driver to move the carriage and make sure that the final limit switch will not be activated.</li> <li>3. Check if the cam (endpoint limiters) is/ are worn. If the cam (endpoint limiter) is/are damaged, please replace with a new one(s). For parts replacement, please refer to the IPB list and drawing.</li> </ol>
			Check the final limit switch and cable connection.	<ol style="list-style-type: none"> <li>1. Remove the shroud from the carriage.</li> <li>2. Check if the final limit switch cable has become loose.</li> <li>3. If the final limit switch is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>
	3.The over speed governor is activated.	Works abnormally	Move the carriage upwards manually	<ol style="list-style-type: none"> <li>1. To reset the over speed governor, please use the manual driver to move the carriage upward.</li> <li>2. If the rack is damaged and causing an over speed issue, please replace the rack with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>
			Check the over speed governor switch and cable connection.	<ol style="list-style-type: none"> <li>1. Remove the carriage from the rail and remove the shroud from the carriage.</li> <li>2. Check if the over speed governor cable has become loose.</li> <li>3. If the over speed governor switch is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>
	Batteries are not charging.	Works normally	Check the charger located on the rail.	<ol style="list-style-type: none"> <li>1. Check if the plug of the charger is plugged into the power outlet, and it is charging.</li> <li>2. Check if the charger connecting cable located on the rail is loose.</li> <li>3. If the charger is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>
		Works normally	Check the charging copper rod located on the carriage.	<ol style="list-style-type: none"> <li>1. Remove the shroud from the carriage.</li> <li>2. Check if the copper rod is worn or for loose contact. If the charging copper rod is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>

3	Upper limit switch is activated.	Works abnormally	Look around the carriage area.	Check if the upper limit switch is stuck by a foreign object. (The carriage can only move downward in this situation.)
			Check the upper limit switch and cable connection.	<ol style="list-style-type: none"> <li>1. Check if the upper limit switch cable is loose.</li> <li>2. If the upper limit switch is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>
4	Safety sensor in up direction is activated.	Works abnormally	Look around the carriage area.	<ol style="list-style-type: none"> <li>1. Remove any obstacles that may trigger the top obstruction sensor cover switch.</li> <li>2. Remove any obstacles that may trigger the limit switch located on the footrest.</li> </ol>
			Check the switch and the cable connection.	<ol style="list-style-type: none"> <li>1. Check if the top obstruction sensor cover switch cable has become loose.</li> <li>2. If the top obstruction sensor cover switch is damaged, please replace it with a new one.</li> <li>3. Check if the footrest switch cable is loose.</li> <li>4. If the footrest switch is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>
			Replace the PCB board.	<p>If both the cable connection and switch are normal but there is still a fault warning, please replace the PCB board with a new one. For parts replacement, please refer to the IPB list and drawing.</p>
5	Lower limit switch is activated.	Works abnormally	Look around the carriage area.	Check if the lower limit switch is stuck by a foreign object. (The carriage can only move up in this situation.)
			Check the switch and the cable connection.	<ol style="list-style-type: none"> <li>1. Check if the lower limit switch cable has become loose.</li> <li>2. If the lower limit switch is damaged, please replace it with a new one. For parts replacement, please refer to the IPB list and drawing.</li> </ol>

	Safety sensor in down direction is activated.	Works abnormally	Look around the carriage area.	Remove any obstacles that may trigger the lower obstruction sensor cover switch.
			Check the switch and the cable connection	<ol style="list-style-type: none"> <li>1. Check if the lower obstruction sensor cover switch cable is loose.</li> <li>2. If the lower obstruction sensor cover switch is damaged, please replace it with a new one.</li> <li>3. Check if the footrest switch cable is loose or not.</li> <li>4. If the footrest switch is damaged, please replace it with a new one.</li> </ol> <p style="margin-left: 20px;">For parts replacement, please refer to the IPB list and drawing.</p>
			Replace the controller PCB board.	<p>If both the cable connection and switch are normal, but there is still a fault warning, please replace controller PCB board with a new one.</p> <p style="margin-left: 20px;">For parts replacement, please refer to the IPB list and drawing.</p>
	Motor current limit is exceeded.	Works abnormally	Check the component of the carriage.	<ol style="list-style-type: none"> <li>1. Remove the carriage from the rail, and check if the zero-load operation current is normal.</li> <li>2. Remove the carriage from the rail and remove the shroud from the carriage.</li> <li>3. Check if the roller and gear are worn. If the roller and gear are damaged, please replace them with a new one.</li> </ol> <p style="margin-left: 20px;">For parts replacement, please refer to the IPB list and drawing.</p>
			Check the transaxle.	<ol style="list-style-type: none"> <li>1. Remove the shroud from the carriage.</li> <li>2. If the electric motor brush is damaged, please replace it with a new one.</li> </ol> <p style="margin-left: 20px;">For parts replacement, please refer to the IPB list and drawing.</p>
	Main control PCB error.	Works abnormally	Check if the controller is in safe mode.	<ol style="list-style-type: none"> <li>1. Turn the key switch off for 30 seconds, then turn on the switch again.</li> </ol>
			Check the main control PCB.	<ol style="list-style-type: none"> <li>1. Remove the shroud from the carriage.</li> <li>2. If the main control PCB is damaged, please replace it with a new one.</li> </ol> <p style="margin-left: 20px;">For parts replacement, please refer to the IPB list and drawing.</p>

	Motor brake is not engaged.	Works abnormally	Check the motor brake lever.	Re-rotate the motor brake lever to the correct position.
			Check the cable connection of braking.	<ol style="list-style-type: none"> <li>1. Remove the shroud from the carriage.</li> <li>2. Check if the cable located on the motor brake is loose.</li> <li>3. Check if the cable which is located on the motor brake has short circuited.</li> </ol> . If the motor brake is damaged, please replace it with new transaxle. For parts replacement, please refer to the IPB list and drawing.
	The batteries voltage is too high.	Works abnormally	Check the batteries.	<ol style="list-style-type: none"> <li>1. Turn the key switch off for 30 seconds, then turn on the switch again.</li> </ol>
	The batteries voltage is too low.	Works abnormally	Check the circuit connection of charging.	<ol style="list-style-type: none"> <li>1. Check whether the plug of the charger is plugged into the power outlet, and if it is charging. Check the charging indicator light (green light or yellow light).</li> <li>2. Check if the charger connecting cable which is located on the rail has become loose. Check if the charger connecting cable which located on the rail has short circuited.</li> <li>3. If the charger is damaged, please replace it with a new one.</li> </ol> For parts replacement, please refer to the IPB list and drawing.
			Check the batteries.	<ol style="list-style-type: none"> <li>1. Turn the key switch off for 30 seconds, then turn the switch on again.</li> <li>2. Remove the shroud from the carriage.</li> <li>3. If the battery is damaged, replace it with a new one.</li> </ol> For parts replacement, please refer to the IPB list and drawing.

# *Pilot* STAIRLIFTS

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