

UNIVERSAL INSTALLATION GUIDE



130 T700 STRAIGHT STAIRLIFT

42112-138

CONTENTS

Health And Safety Hazards	3
Unpacking the Stairlift Carriage	4
Pre-Installation Procedure	5
Box Contents	6
Installation Tools	9
1.1 Required	9
Optional	10
Installation	11
1.2 Installation Procedure	11
1.2.1 Preparation on Site	11
1.2.2 Joining the Rail	12
1.2.3 Installing the Rail	13
1.2.4 Installing the Stairlift Carriage	15
1.2.5 Setting Seat Angle	17
1.2.6 Setting Footrest Angle	19
1.2.7 Installing the Seat	20
1.2.8 Setting Top Stopping Point	23
1.2.9 Fixing Down the Rail	24
1.2.10 Connecting the Transformer	24
1.3 Safety Checks	26
1.3.1 Check Controls	26
1.3.2 Check Remote Controls	26
1.3.3 Check Safety Sensors	27
1.3.4 Check Stopping Limits	28
1.3.5 Check Seat Swivel	28
1.3.6 Check Battery Isolation Switch	29
1.3.7 Check Key Switch	29
1.3.8 Hand Winding	29
1.3.9 Labelling	29
1.3.10 Check Correct Fixing of Carriage to Rail	29
1.4 Demonstrate Stairlift to User	30
1.5 Maintenance	30
1.6 Avoiding Unsafe Installations	30

IMPORTANT!

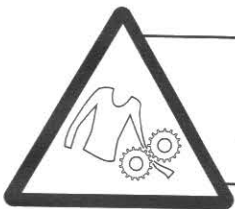
READ THESE PROCEDURES THOROUGHLY PRIOR TO STAIRLIFT INSTALLATION

IMPORTANT: INSTALLATION SHOULD ONLY BE COMPLETED BY A TRAINED ENGINEER OR A COMPETENT PERSON WHO HAS QUALIFIED WITH THE PRACTICAL EXPERIENCE REQUIRED BY LAW IN THE PARTICULAR COUNTRY / STATE AND HAS APPLIED FOR ANY APPLICABLE LICENSES / PERMITS THAT MAY BE REQUIRED.

CHECK FOR LOCAL REGULATORY REQUIREMENTS.

Health and Safety Hazards

The following health and safety hazards should be considered when installing the stairlift:



The risk of loose clothing or body parts getting trapped

Correct manual handling procedure.



Injury resulting from drilling, inappropriate use of tools etc.



Use of necessary eye protection (safety glasses, etc.)



Direct or indirect electrical contact



Never use worn tools



Falling down the stairs



Tripping hazards on the stairway



Falling tools

Follow the current regulations regarding safe working practices

FOLLOW THE REGULATORY REQUIREMENTS IN REGARDS TO THE LICENSES / PERMITS FOR YOUR APPLICABLE COUNTRY / STATE.

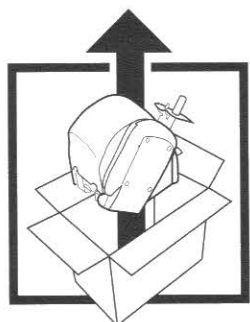
Unpacking the Stairlift Carriage



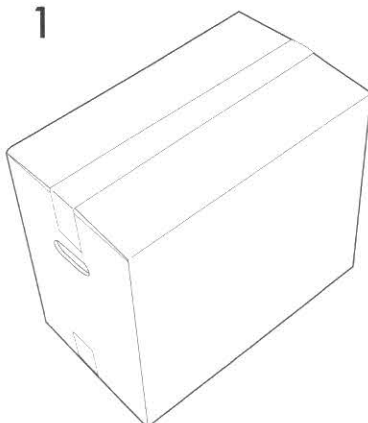
WARNING!

Take care when handling the carriage assembly, as this is a heavy component. Before unpacking carriage it is recommended if possible to unpack box at top of stairway using PACKING / UNPACKING INSTRUCTIONS provided.

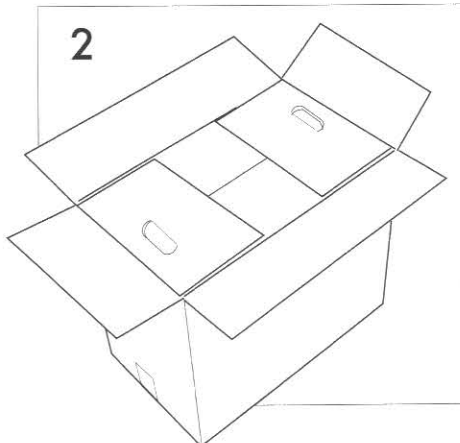
PLEASE READ PACKAGE INSTRUCTIONS BEFORE REMOVING THE CARRIAGE FROM BOX



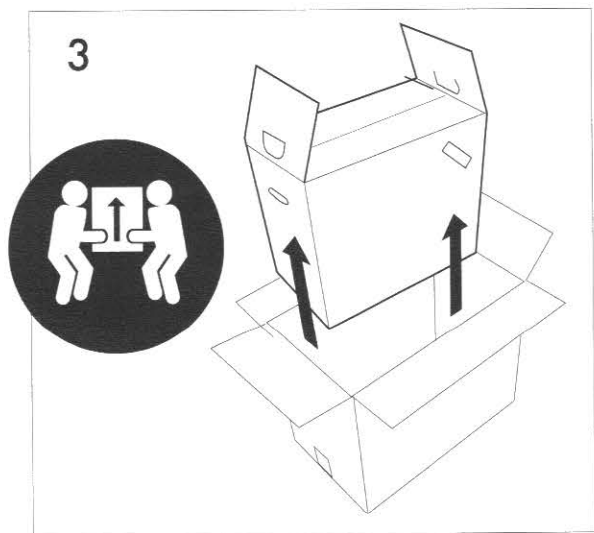
1



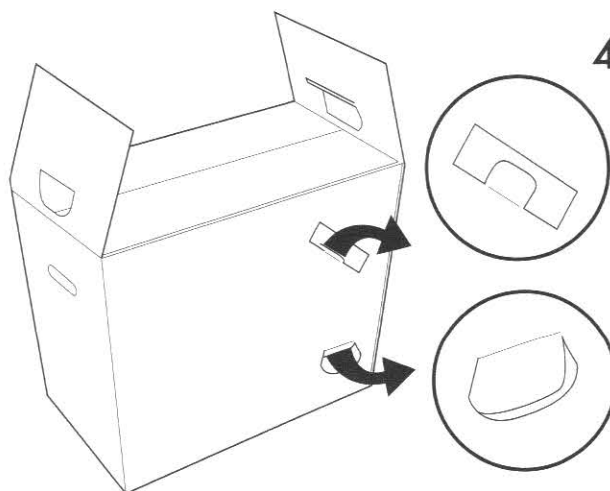
2



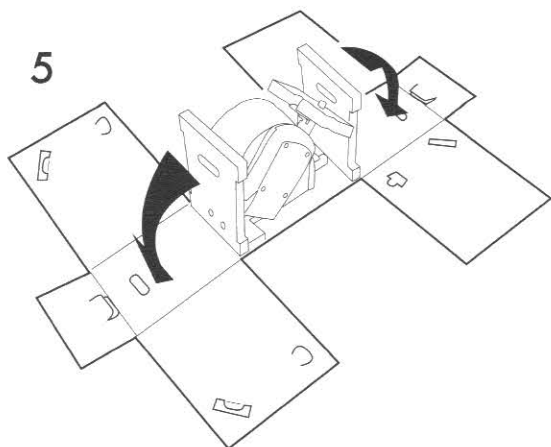
3



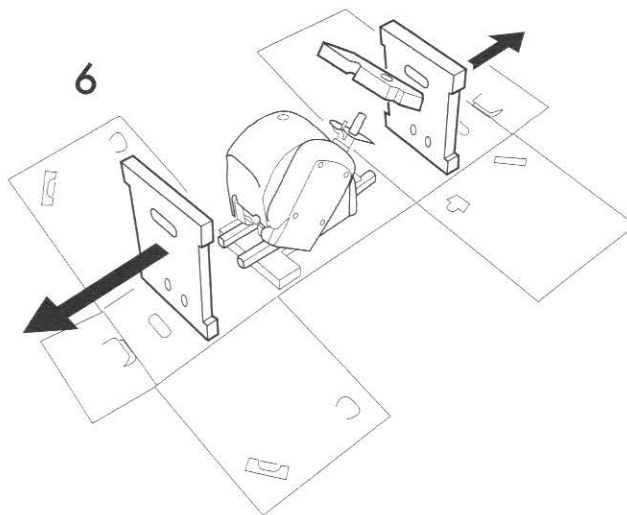
4



5

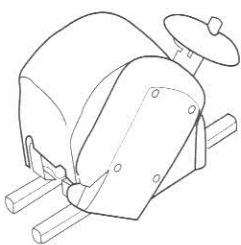


6



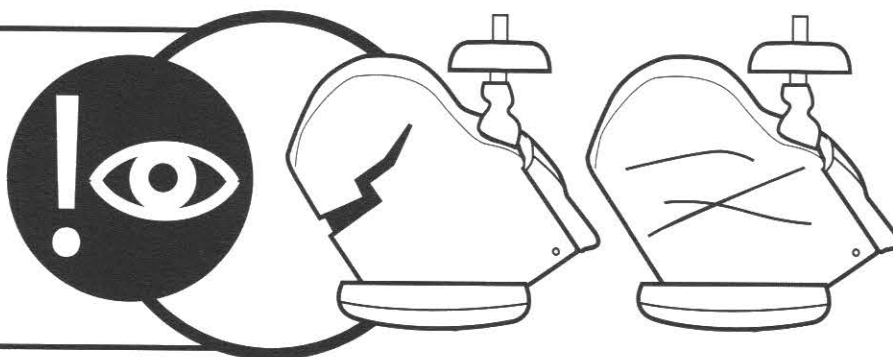
Pre-Installation Procedure

When all the packaging has been removed, leaving the carriage on the shipping rails, carry out the following checks.



Ensure that you have the installation manual to hand

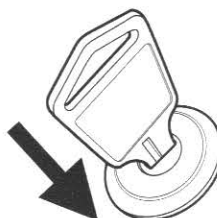
1. Visually inspect the covers and footplate (ie: scratches, cracks, scuffs). Make a note of any issues.



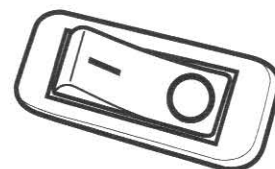
2. Open the bag that contains the two remote controls, batteries, keys and user manual. Install a battery into each remote.



3. Insert the key into the key switch.



4. Switch on the isolation switch.



5. The lift should continually BEEP indicating lift has powered up but not receiving a charge. The diagnostic display will show **A4**.

6. Turn the key clockwise.

The diagnostic display will show **A1** and BEEP.



7. Press the UP button on the remote control.



8. The lift will CLICK (brake release) indicating the lift is running.

The display will show **A4**.

9. Repeat the process by pressing the DOWN button on the remote control.

The display will show **A5**.



WARNING!

IN THE EVENT OF FAILURE OF ANY OF THESE PRE-INSTALLATION CHECKS, PLEASE CONTACT YOUR AUTHORIZED DEALER

Box Contents Carriage



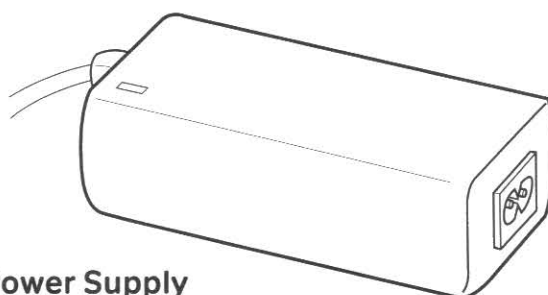
Carriage



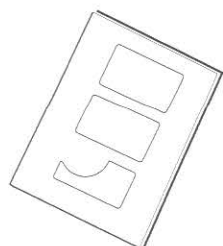
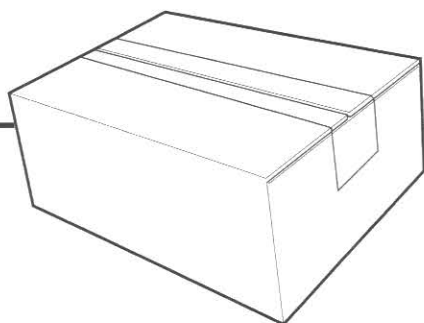
Packing Instructions



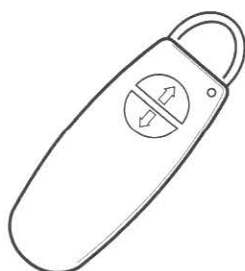
Seat Index
Plate Cover



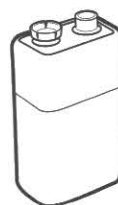
Power Supply



Packet of labels
and Instructions
(multilingual)



x2 Remote Controls



x2 9v Batteries



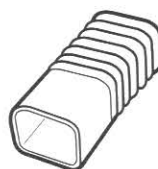
User Manual
& Warranty Card



x2 Keys



x4 Blanking
Plugs

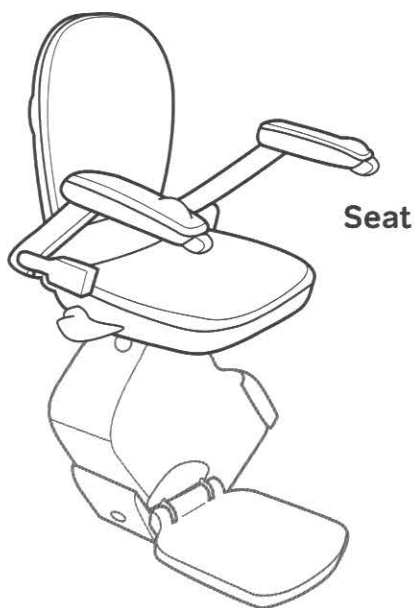


x2 Plastic Rail
End Connectors

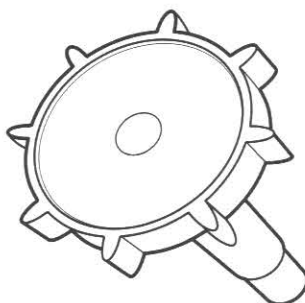


Installation Guide

Box Contents Seat



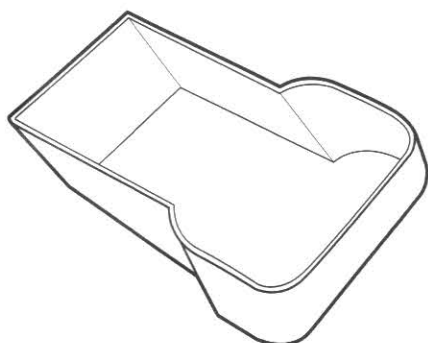
Seat



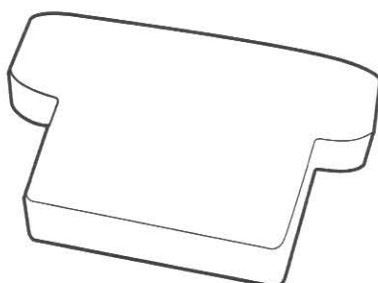
Handwinder



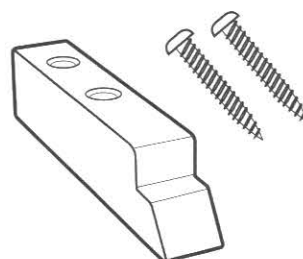
**x3 Handwinding Labels
(Various Languages)**



Bottom Rail Cover



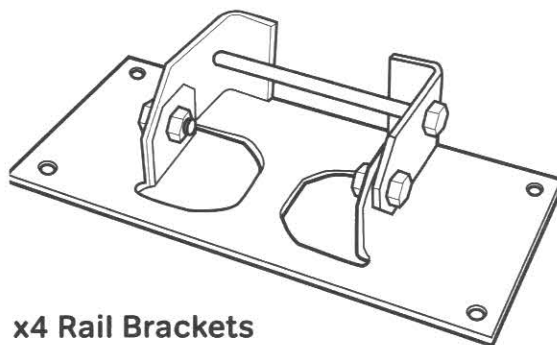
Top Rail Cover



**x1 End Stop
(x2 screws)**

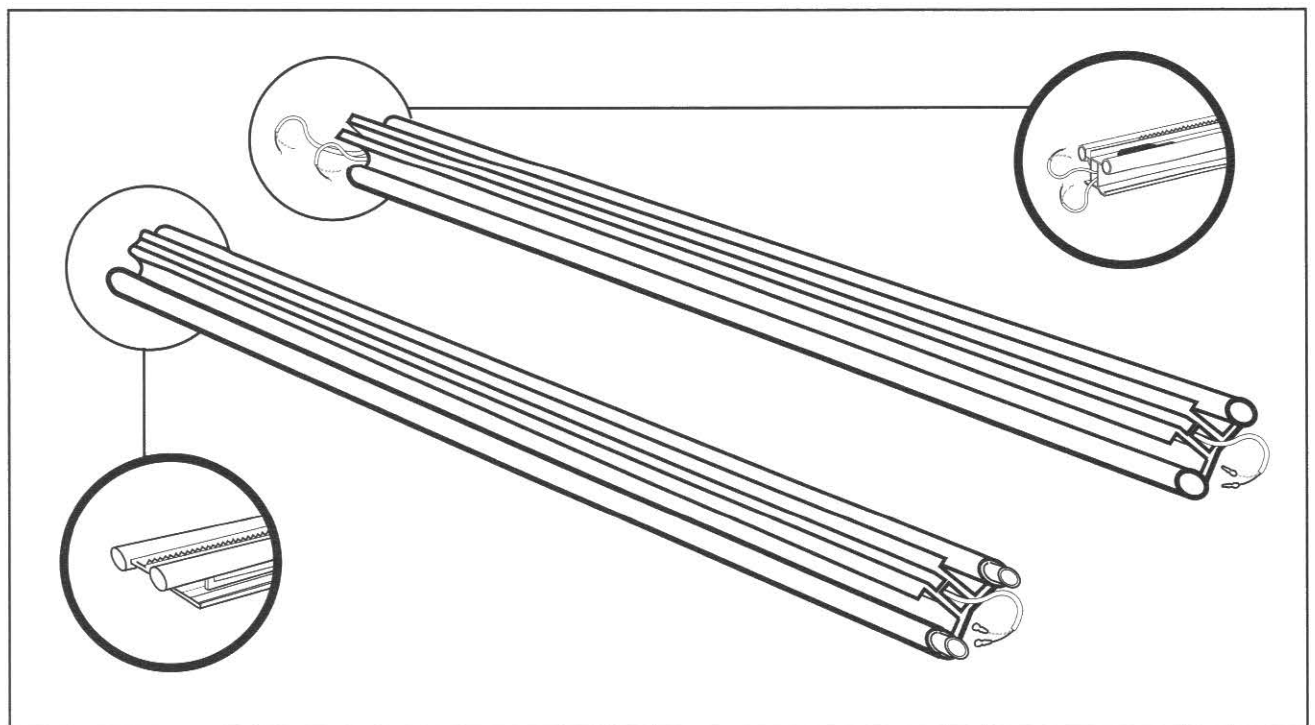
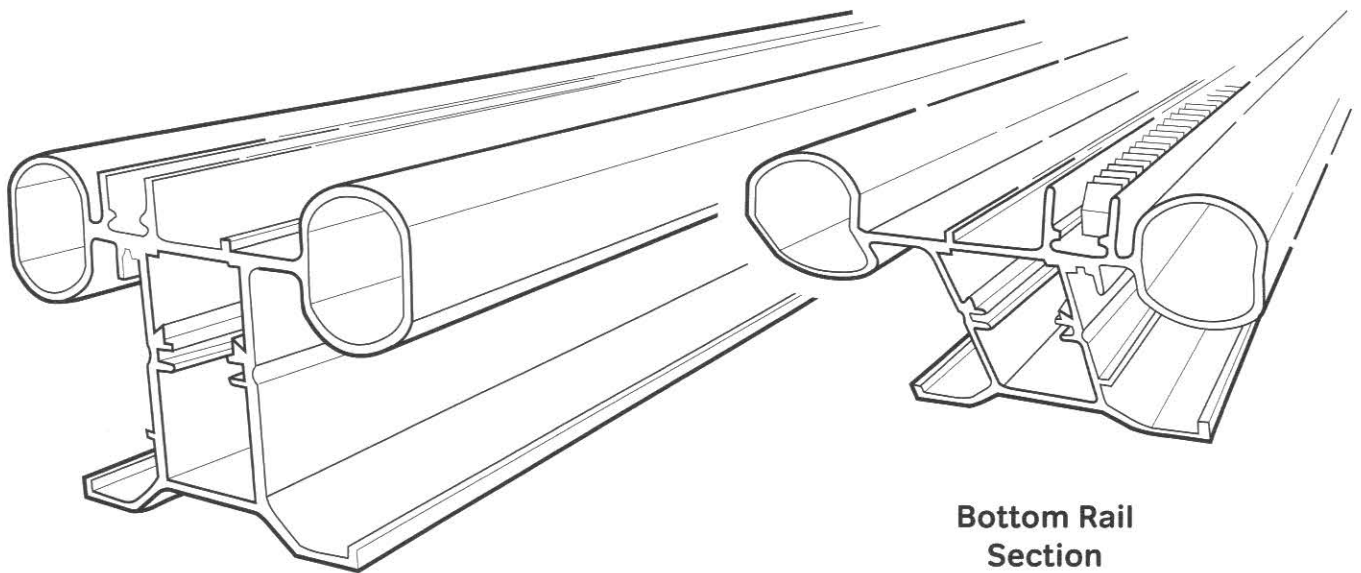


**x16 Rail Bracket
Fixing Screws**



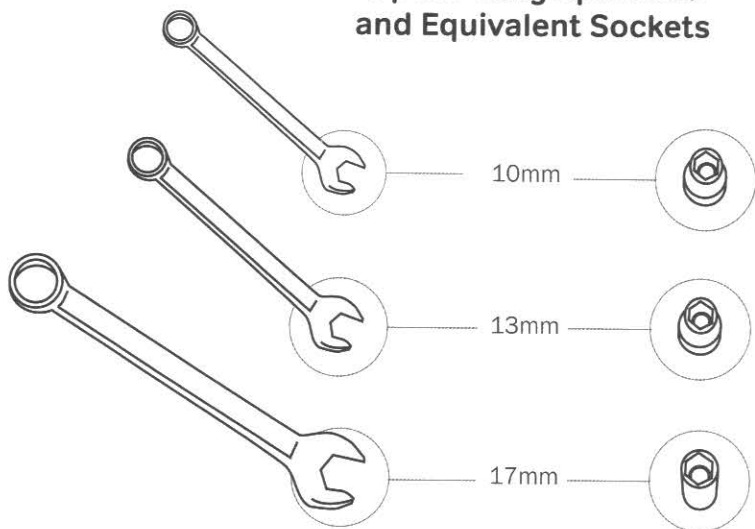
**x4 Rail Brackets
(including nuts and bolts)**

Box Contents Rail Sections

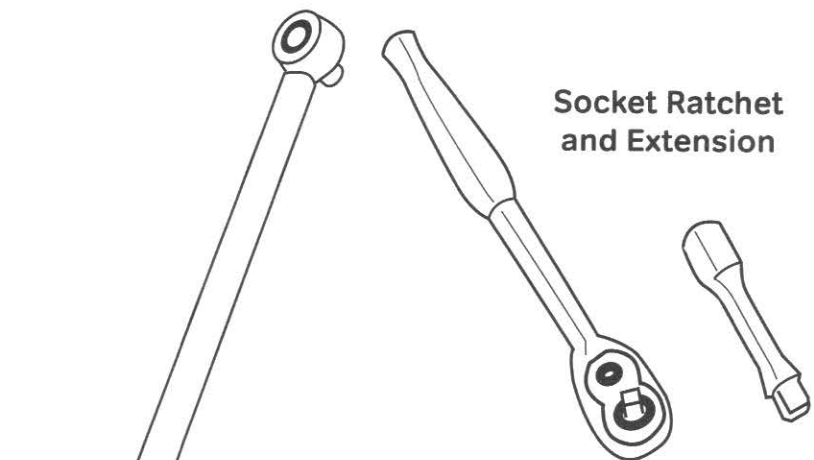


Installation Tools Required

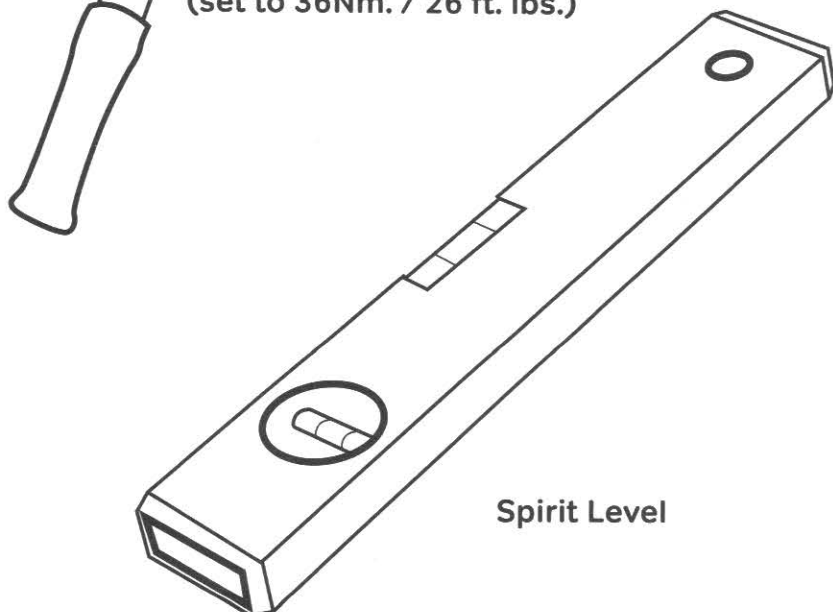
Open / Ring Spanners and Equivalent Sockets



Socket Ratchet and Extension

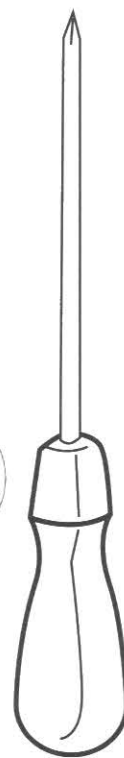
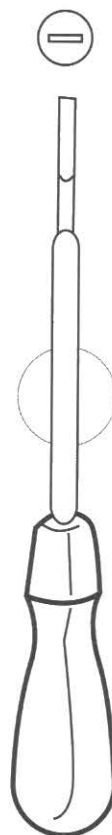


Torque Wrench (set to 36Nm. / 26 ft. lbs.)

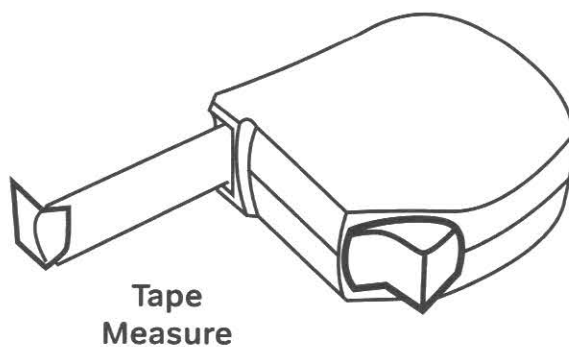


Spirit Level

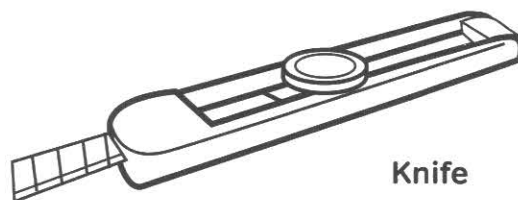
Flat Head Electrical Terminal Screwdriver



Nº 2 / Nº 3 Phillips Screwdriver

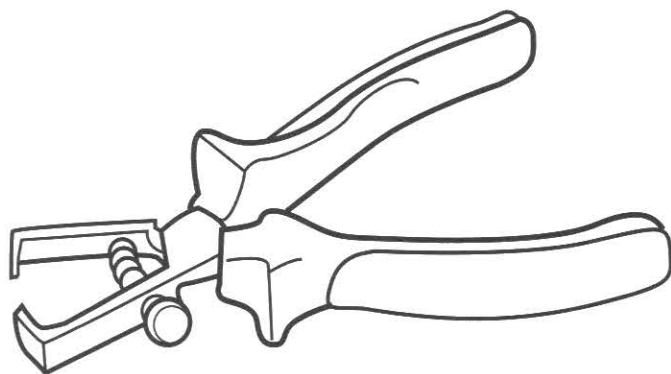


Tape Measure



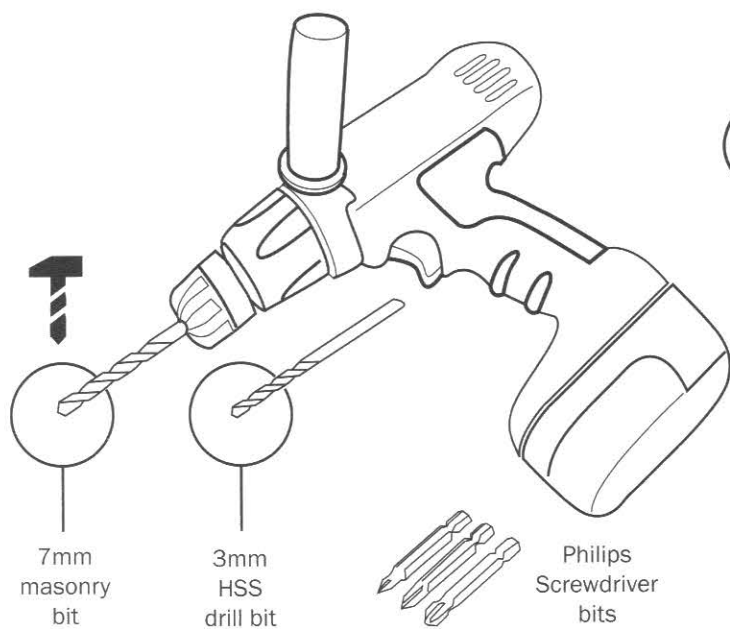
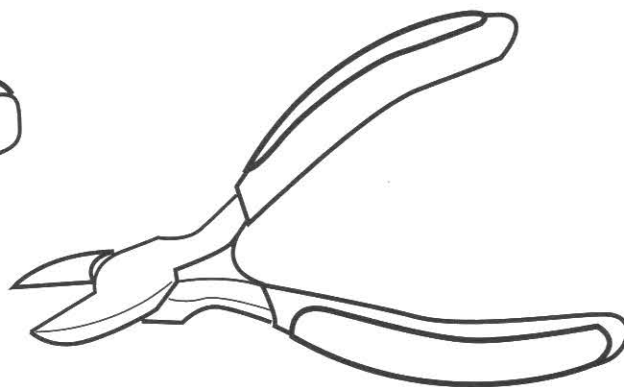
Knife

Installation Tools Optional



Wire Strippers

Side Cutters

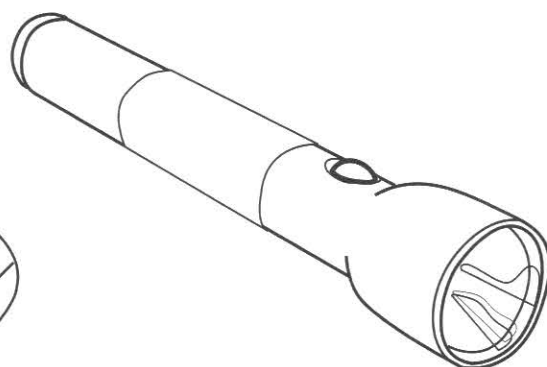


7mm
masonry
bit

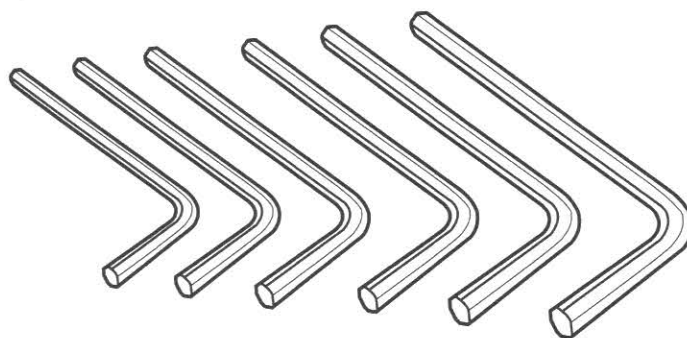
3mm
HSS
drill bit

Phillips
Screwdriver
bits

**Hammer Drill
with Drill Bits shown**



Torch



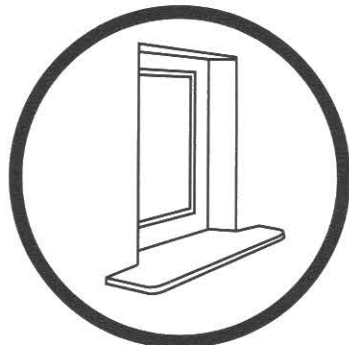
Metric Allen Keys

1.2 INSTALLATION PROCEDURE

1.2.1 Preparation on Site

It is recommended that the following examinations be carried out prior to taking the rail into the end users' property:

1.



Visually check the site making sure that all obstructions such as window sills, pipes, bulkheads, newel posts etc have been allowed for.

2.

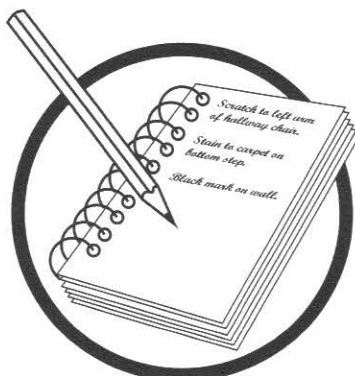


Examine the stairs, relocate any removable objects that may get damaged or could cause a tripping hazard when the rail is brought into the property.



If the stairway is open plan or there is access to the rear of the installation (not against a wall), then the installation must not go ahead until the access has been panelled off.

3.



Identify existing damage to:

- Decorations
- Floor coverings, furniture and other furnishings
- Windows, doors, etc

4.

Do not remove the handrail until the rail has been installed, in case of mis-measure / abort.

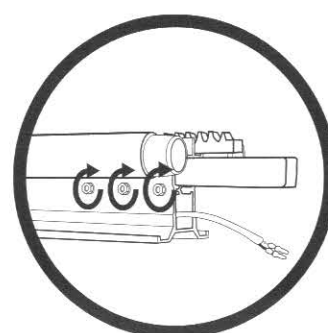
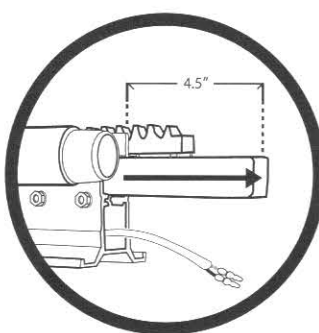
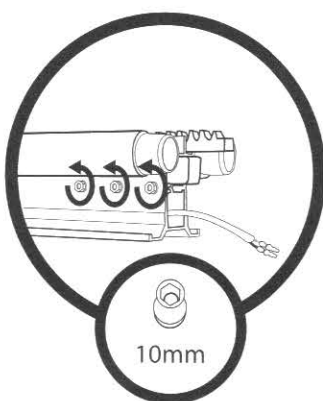
The stairlift rail is shipped in two pieces that are spliced together during installation.

The upper and lower charge points and upper and lower stopping limit ramps are installed on the rail sections at the factory.

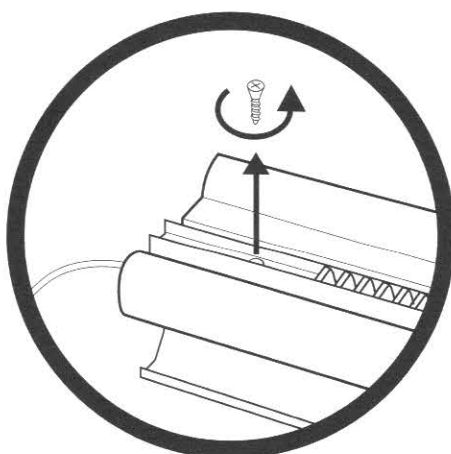


Before positioning, it is recommended, whenever possible, to join the rail together at the base of the stairway making assembly easy.

1. On the bottom rail, loosen the 3 pinch bolts and slide out the 1 inch square joint-bar until it protrudes approximately 4 ½ inches. Tighten the 3 pinch bolts.



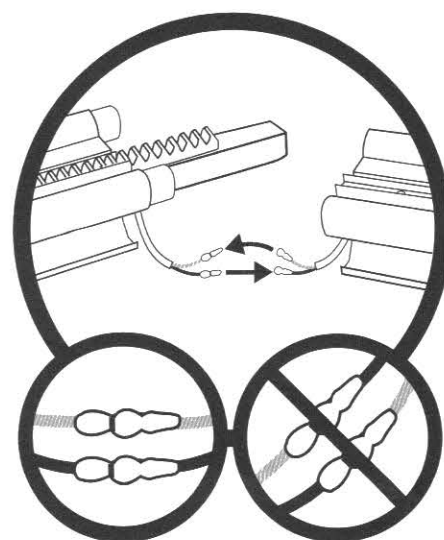
- 2.



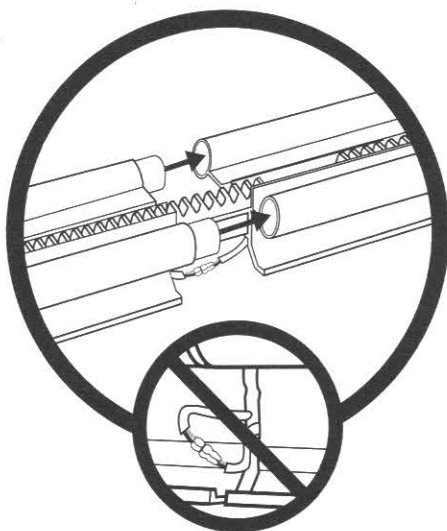
On the upper section of the rail, temporarily remove the screw from where the gear rack will go when fully assembled.

3. Connected to the lower charge point and running through the inside of the lower rail section is a two wire cable that terminates with two female wire connectors.

Connect the male and female wire connectors of the rail cable together (brown to brown, blue to blue).



4.



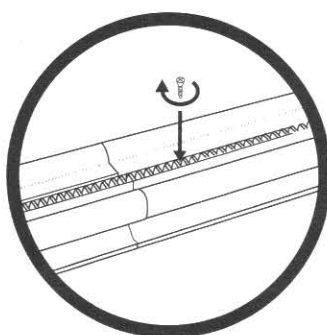
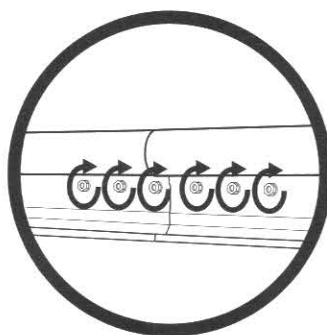
The two rail sections now need to be fixed together.



IMPORTANT!

Make sure that the wiring isn't trapped between the edges of the rail preventing a flush join.

5.



Re-tighten the pinch bolts to hold the joint-bar securely in place, using 2 x 10mm spanners.

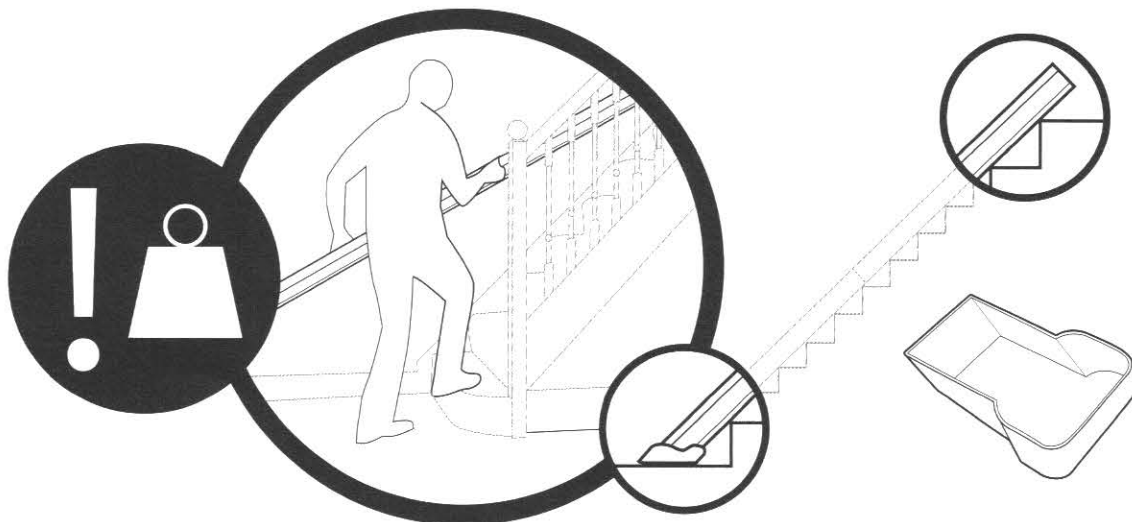
Replace the screw into the gear rack and back into the upper rail.



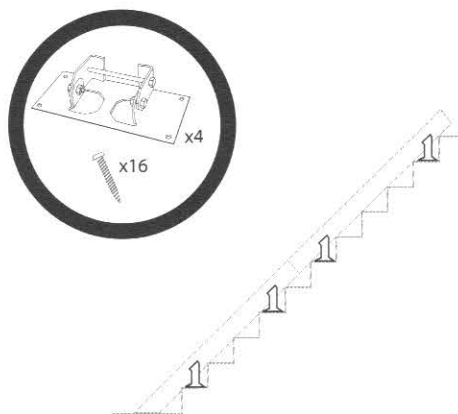
Do not remove the handrail until the rail has been installed, in case of mis-measure / abort.

1.2.3 Installing the Rail

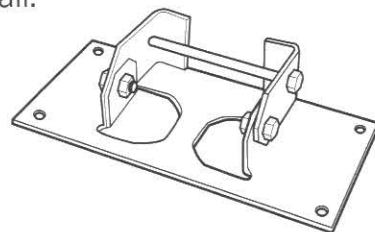
1. Position the rail as one complete assembly on the staircase, with the lower (angled) end resting on the floor, at the bottom of the stairs and the steel toothed rack uppermost. Place the rail end cap on the bottom of the rail.



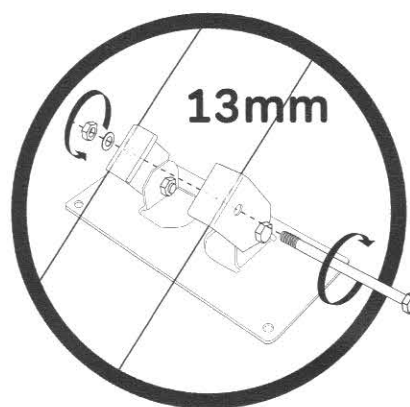
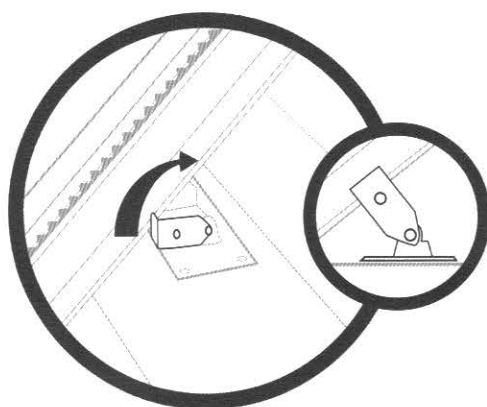
2.



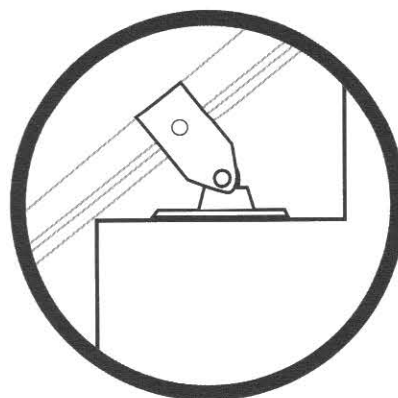
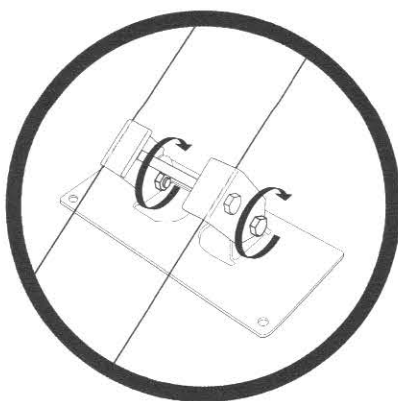
Position the stair brackets underneath the rail - one on the first step, one on the very top step or on the landing and the middle two either side of the join in the rail.



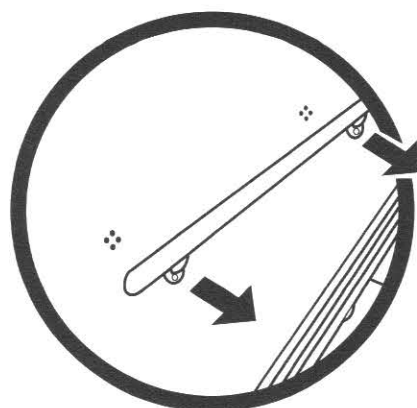
3. The stair brackets clamp to the underside of the rail and are secured by tightening the 13mm hex nut and long bolt, which runs right through each bracket.



4. Position the bracket so that it sits firmly on the stair tread and tighten the two short 13mm hex nut / bolts on either side of the bracket. Do not fix the bracket to the stair tread at this time.

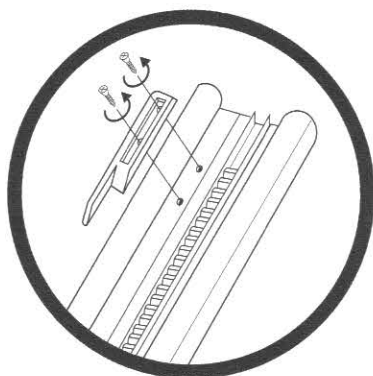


5.

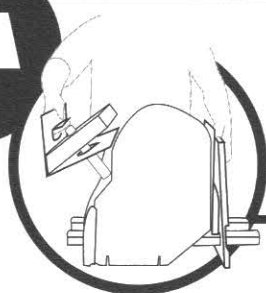


With the rail correctly sitting on the stairs the handrail, if fitted, can now be removed if required.

1.

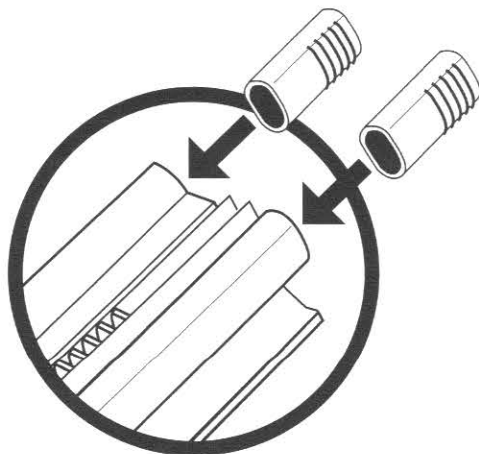


Remove the adjustable upper stopping limit ramp moulding from the top end of the rail.



WARNING! Take care when handling the carriage assembly, as this is a heavy component.

2.



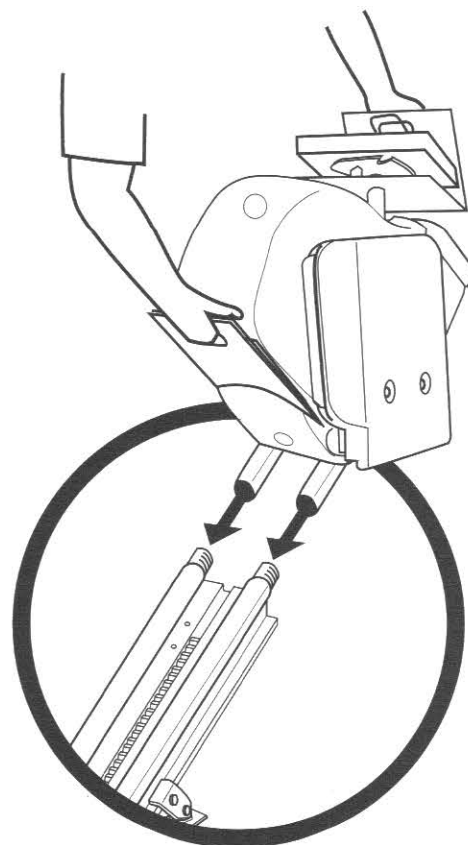
Insert the two plastic rail end connectors at the top of the rail for carriage installation.

3.

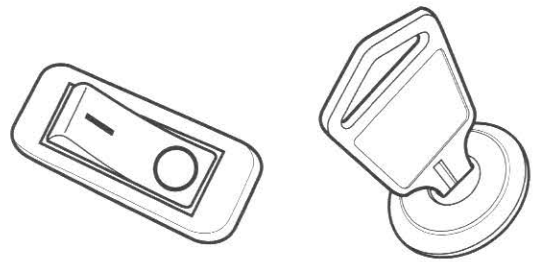
Place the carriage on the top of the rail, positioning the two rail lengths on the carriage onto the two plastic rail end connectors.



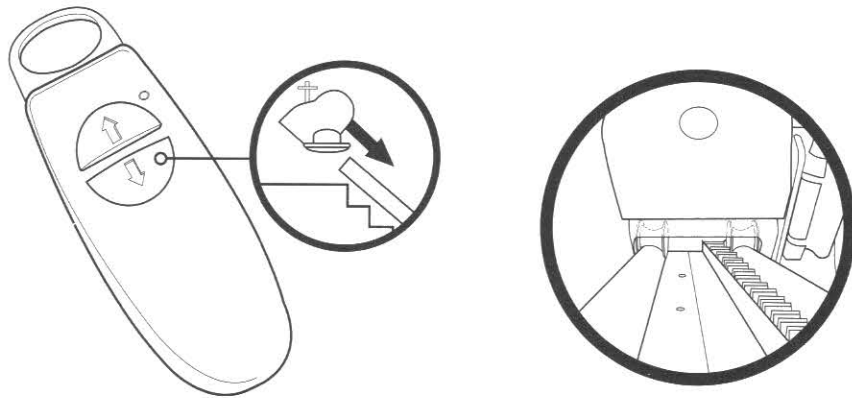
WARNING! Take great care not to damage any of the three micro-switches that protrude from the underneath of the carriage body



4. Switch on battery isolation switch and turn the key to ON.

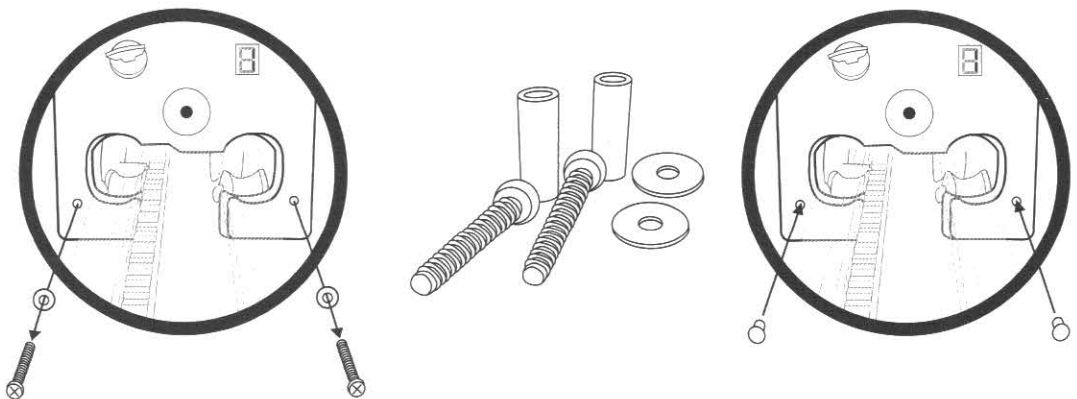


5. Drive carriage onto rail using a remote control.



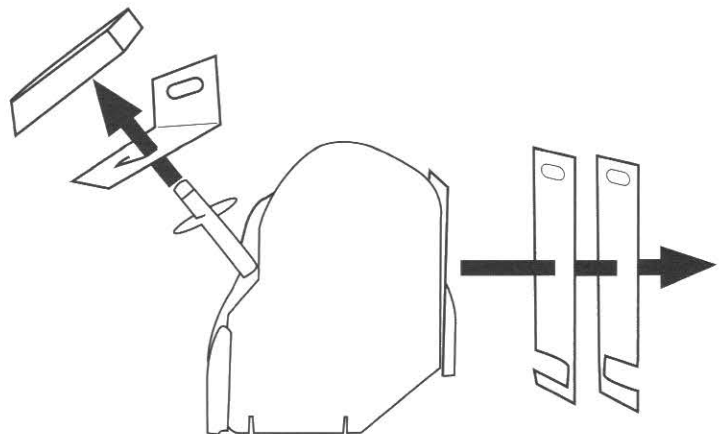
Remember to remove the end pieces from the top of the rail.

6. Remove yellow warning labels and transit screws attached to both upper and lower carriage safety edges then fit blanking plugs supplied into holes.



7. Remove the safe handling aid.

SEE PACKING INSTRUCTIONS

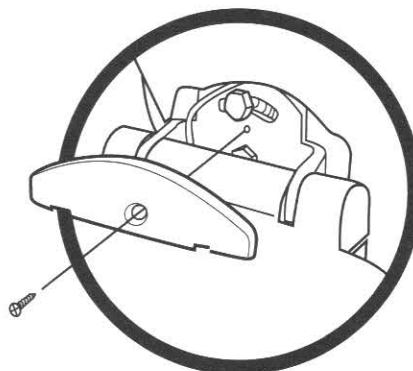


1.2.5 Setting Seat Angle

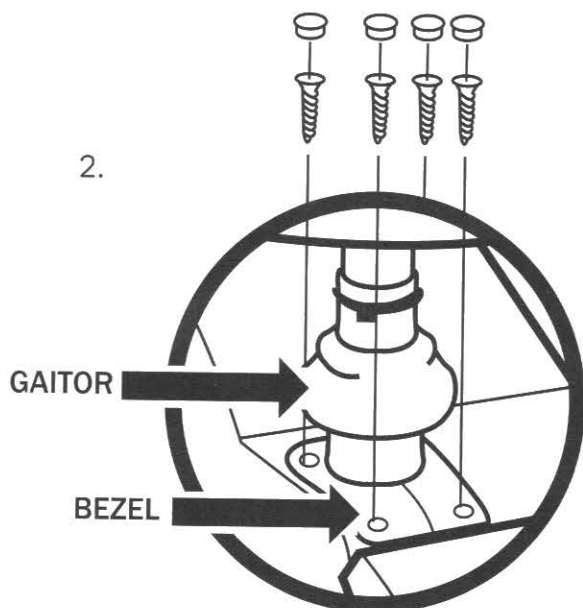


The following procedure must be STRICTLY adhered to, to avoid damage to the chassis plates.

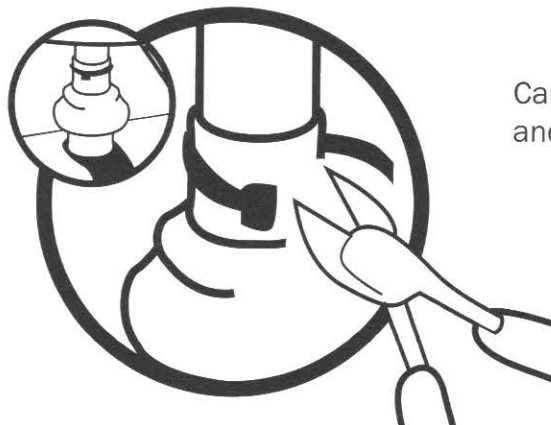
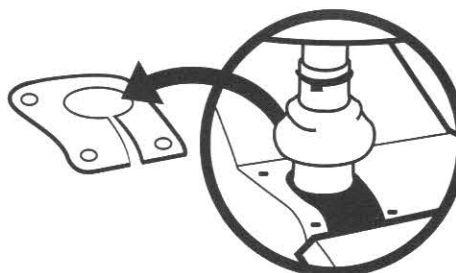
1. Remove the footrest hinge cover by removing the screw.



- 2.



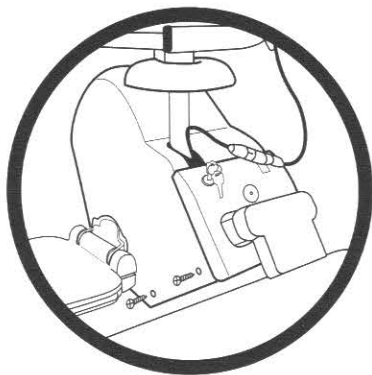
Undo the screws on the bezel and remove.



Carefully cut the cable tie and remove the gaiter.

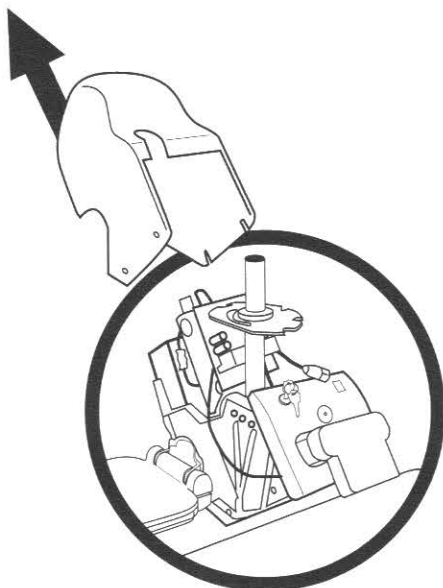


3.

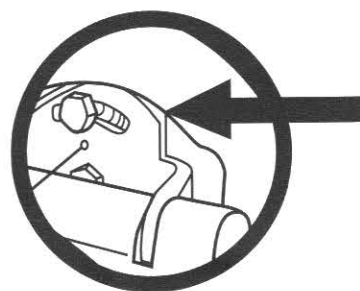


To remove main cover, remove the two screws that are located along the front bottom edge and loosen or remove the two rear screws.

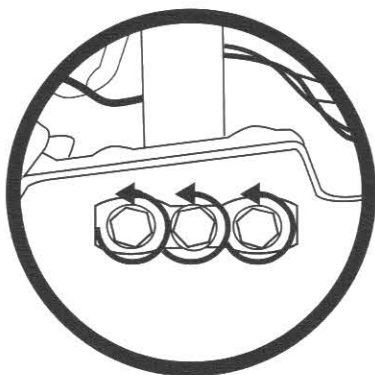
4.



Gradually remove the cover on an angle. It may be necessary to loosen the footplate adjusting bolt.

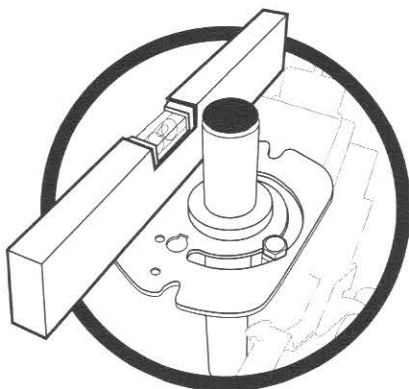


5.

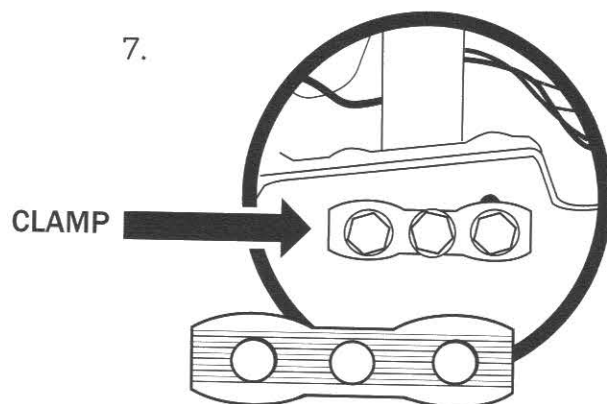


Loosen the 6 horizontal bolts (3 either side) until the post can just move.

6.

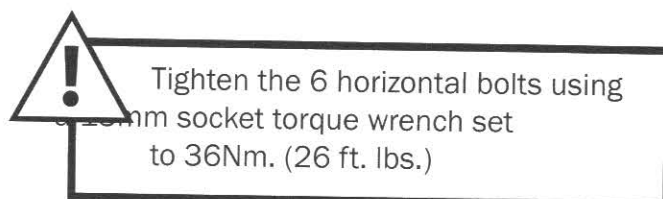
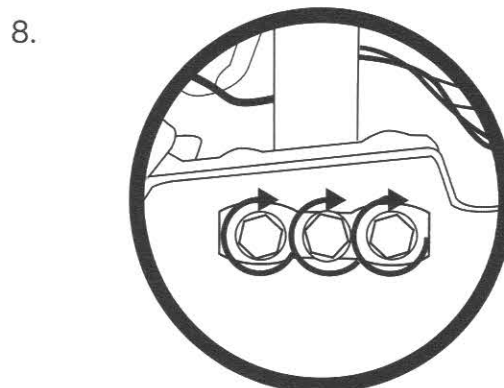


Adjust the seat post to the correct angle by placing a spirit level on the seat post platform.



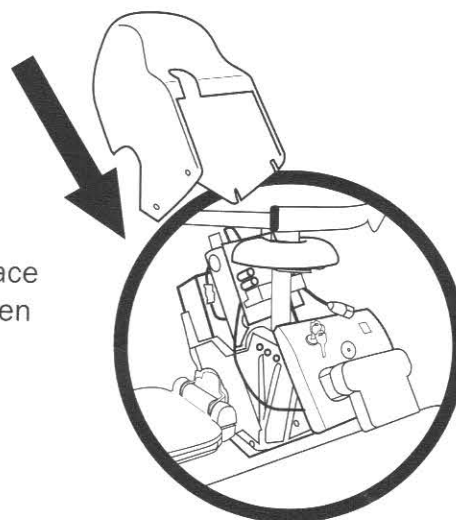
Ensure that the anti-slip clamps are in the correct horizontal position. The serrated side should be facing inward towards the carriage, with the smooth side facing outward.

Also make sure that the bolt washers are located between the bolt head and the anti-slip clamp.

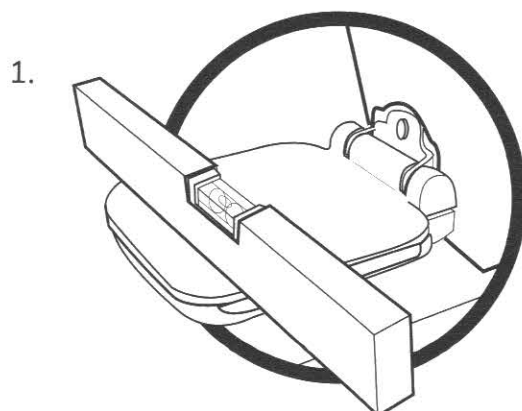


9. Replace the carriage cover and replace the two screws at the front and tighten the two rear screws.

10. Refit the gaitor (see page 17).



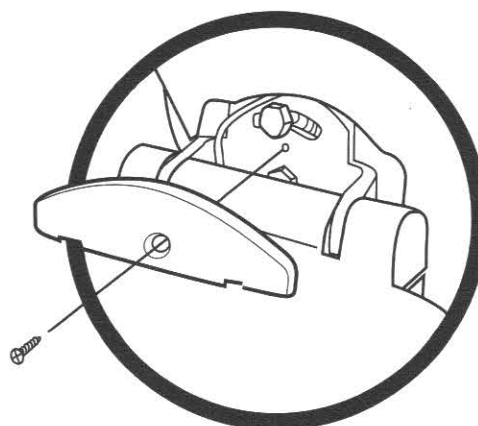
1.2.6 Setting Footrest Angle



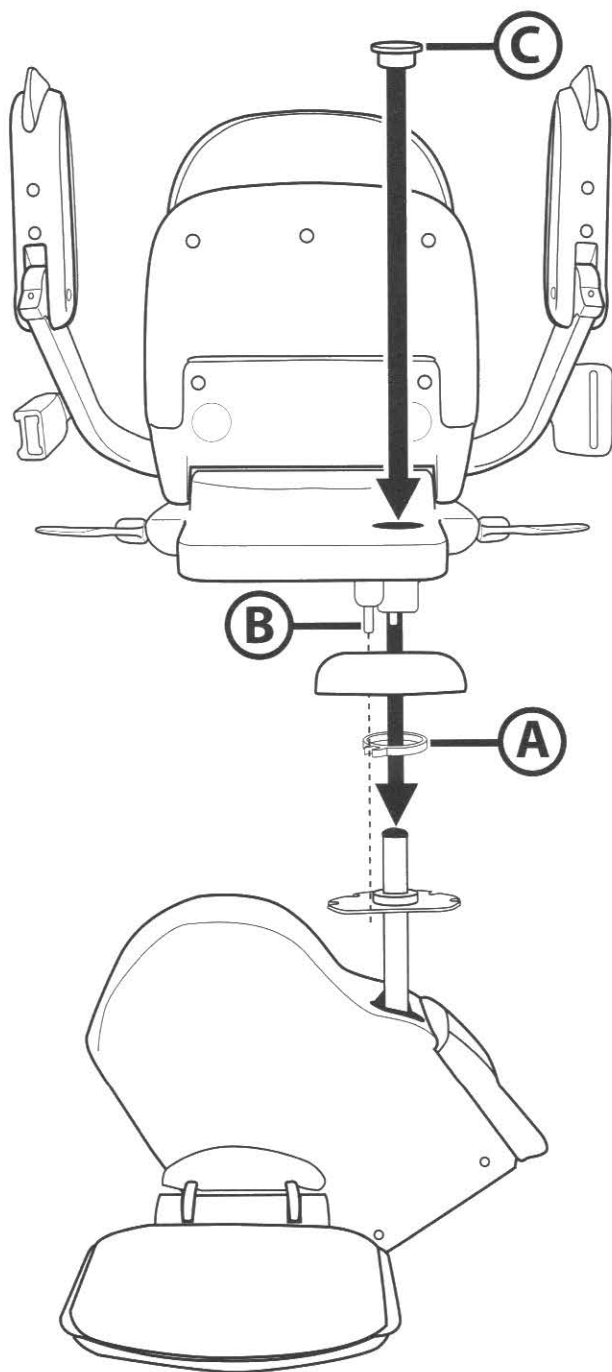
Loosen the centre bolt and adjust to the correct level using the spirit level.

Once level, tighten the bolt back up.

2. Return the footrest hinge cover by replacing the screw.

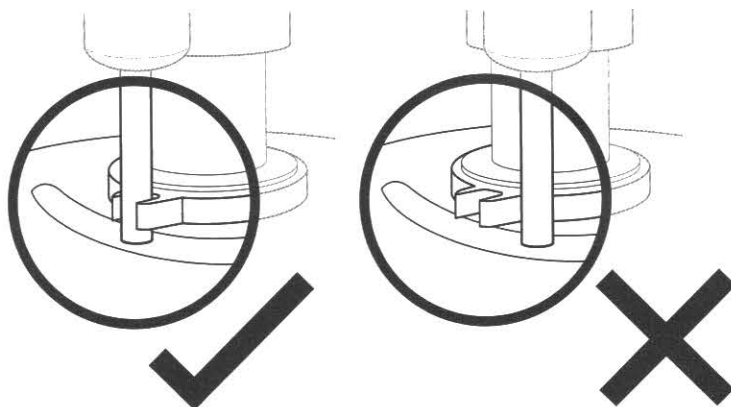
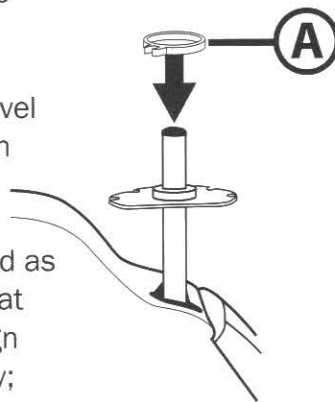


The seat assembly now needs to be fitted to the seat post on the carriage.
Carry this out as follows:

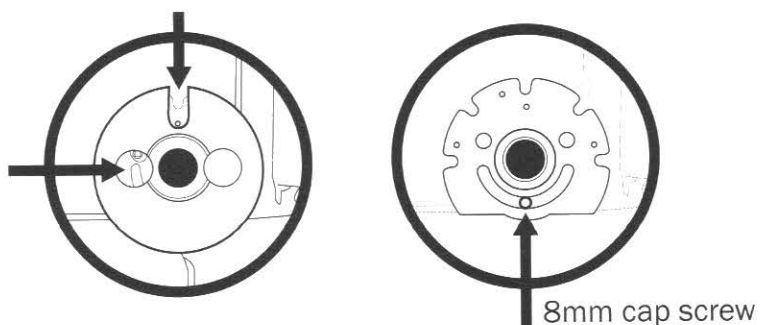


1. Fold up the seat arms and seat base.
2. Position the Seat Swivel Switch Actuator (A) on the seat index plate.

Ensure it is positioned as shown so that the seat swivel pin (B) will align with the ring correctly; sitting between the two outward facing tabs.



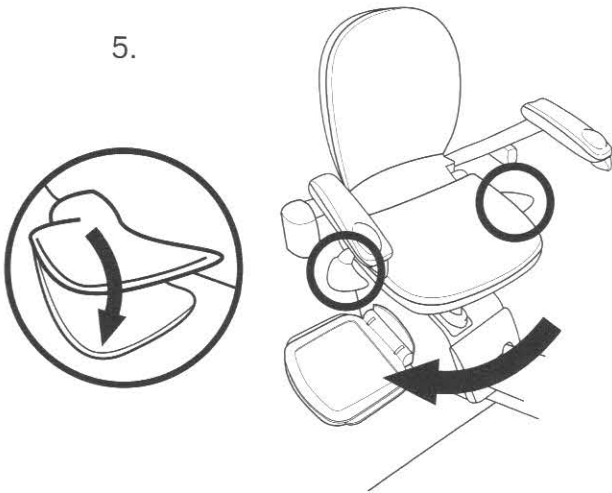
3. Fit Seat Index Plate Cover. Ensure that all wires are clear and will not become trapped. Position the index plate as arrowed below.



Ensure that the 8mm cap screw is tightened. This prevents the seat from turning more than 90°. Tighten with 13mm spanner for the nut and a 6mm allen key for the cap screw.

4. Position the seat on top of the seat post protruding from the chassis, and push firmly into place.

5.



With the seat facing across the stairs, hold the swivel locking handle down, and gently twist the seat from side to side, easing it downwards.

Do this until the seat will not lower any more, and check that the seat post appears flush with the top of the seat frame.

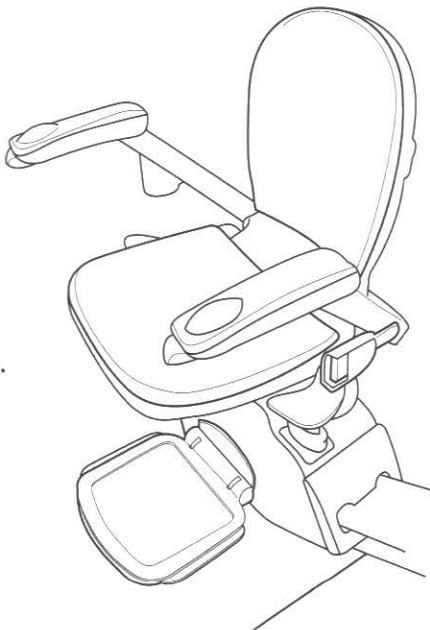
Ensure that the Seat Swivel Switch Actuator (A) is still in the correct position as the seat is pushed into place. Fit the seat post retaining plug (C).

Test the seatbelt by pulling and fastening across the seat.



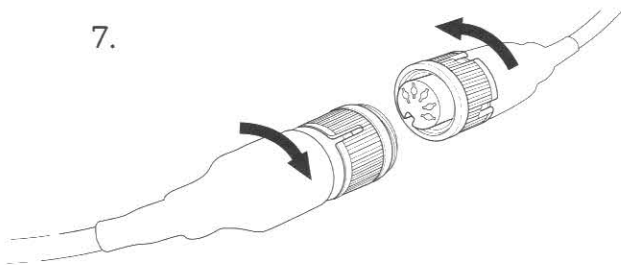
IMPORTANT Outdoor unit clip must be fitted after seat.

6.



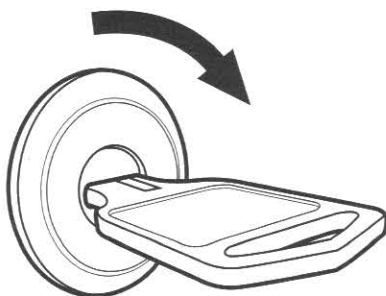
Release the seat swivel lever and rotate the seat until it is locked into the normal riding position – facing across the stairs.

7.




Connect the electrical connection between the seat and the carriage, by pushing together the 'DIN' plugs, and screwing the collars to ensure a safe, permanent connection.

8.



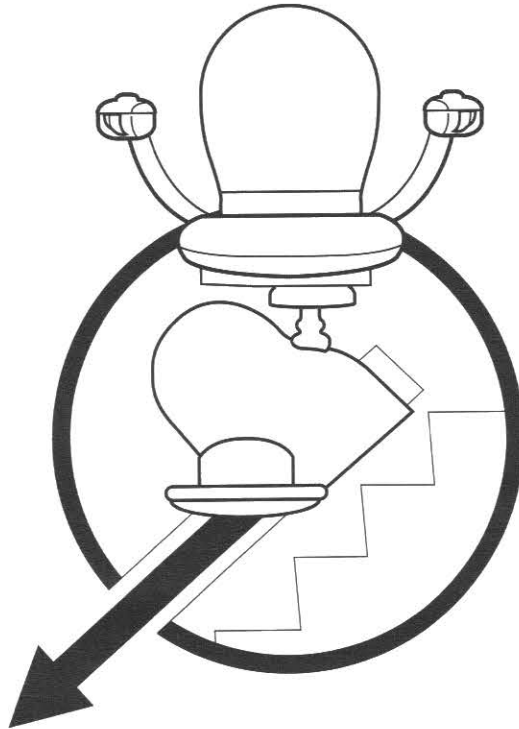
Check that the key switch on the upper carriage safety pad is in the 'ON' position and that the seat is in a locked position facing across the stairs (see point 5).

When all parts are correctly located, the LED display will show  and beep showing the charging system is not connected to the mains. If other codes are displayed refer to the error codes in the User Manual.



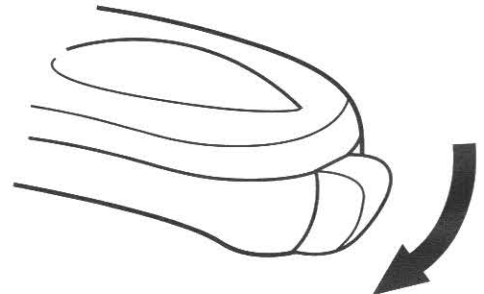
IMPORTANT Ensure the downside arm is fully down. As it is interlocked the arm control will not function with the arm in the upright position.

8.



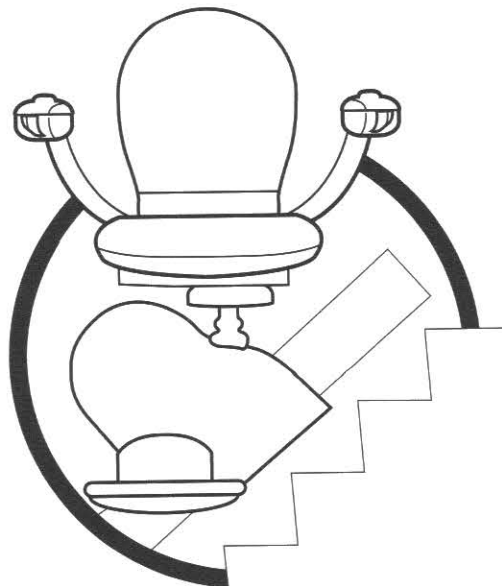
The stairlift can now be 'driven' downwards to locate the motor drive pinion on to the toothed rack on the rail.

Operate the toggle switch on the chair arm towards downstairs (in the direction of travel).

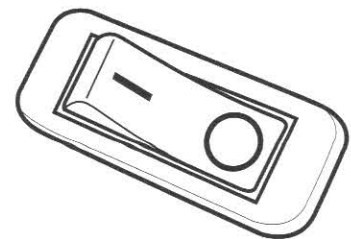


The lift should cleanly locate on the rack and begin its first descent.

9.

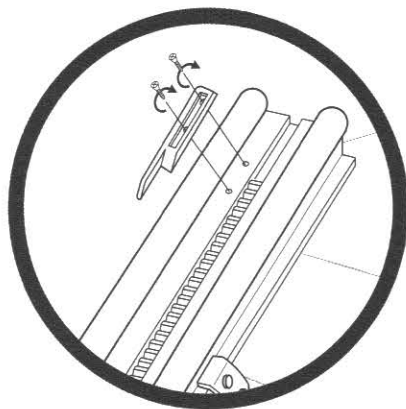


Stop the lift 3 or 4 steps down and switch off the battery isolator switch.



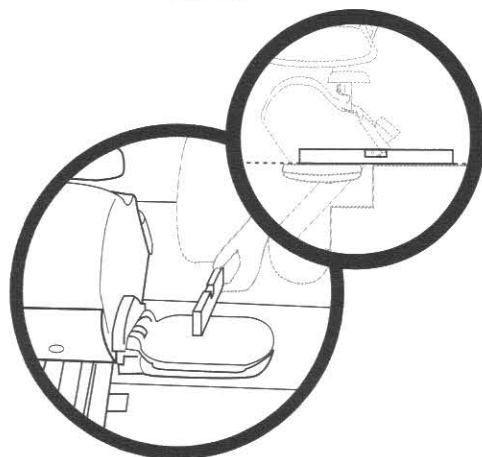
This is to stop the 'Batteries Off Charge' warning signal.

1.



Replace the top stopping limit ramp; but do not fully tighten the screws at this point.

2.

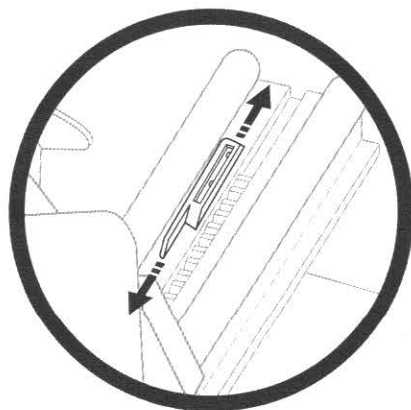


Switch the power back on to operate the stairlift.

Run the stairlift back to the top of the stairs until it comes to a full stop.

Check how level the footrest is with the landing using the spirit level.

3.



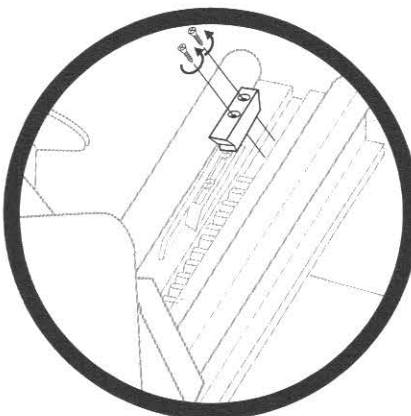
If the footrest IS NOT level with the landing, run the stairlift down 3 / 4 stairs and stop.

Slide the stopping ramp up or down to a suitable position.

Run the stairlift back to the top of the stairs and check to see if the footrest is level with the landing. If not, repeat until correct.

When top stopping position is correct tighten the screws on stopping ramp.

4.



Position the rail end stop at the end of the gear rack and drill a 3mm hole into the aluminium rail. Secure using the screws provided.

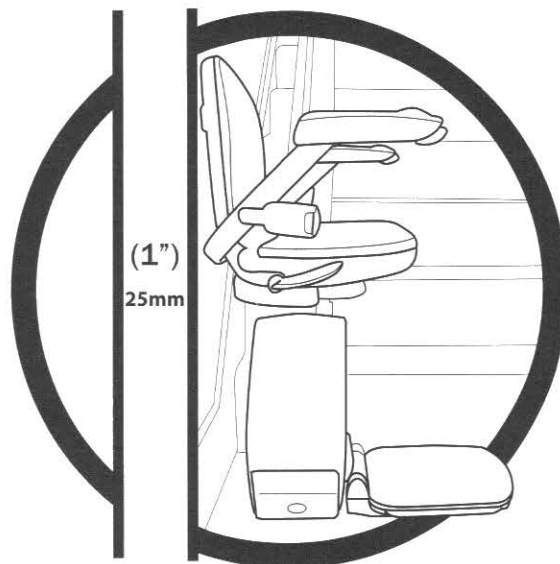


In cases where it is necessary to cut the rail and gear rack to length, this end stop will secure and prevent any possible movement of loose gear rack.

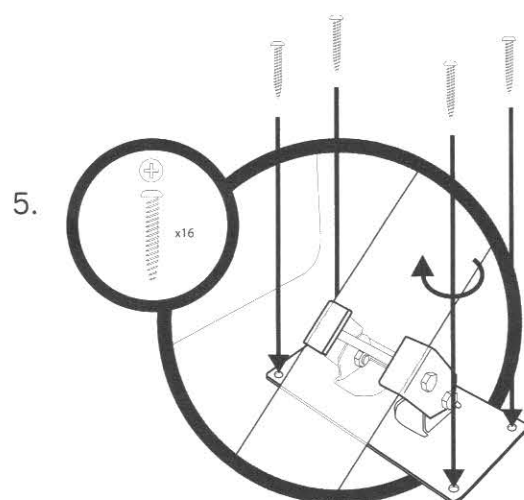
1.2.9 Fixing Down the Rail

1. Run the stairlift down to the bottom of the staircase.
2. Visually check that the rail is parallel to the adjacent wall, and looking up the stairs, behind the seat that the stairlift will not catch the wall on the way up.
3. Also check that there are no obstructions such as window cills.

There should be approximately 25mm (1") between seat back and the wall to avoid trapping hazards.

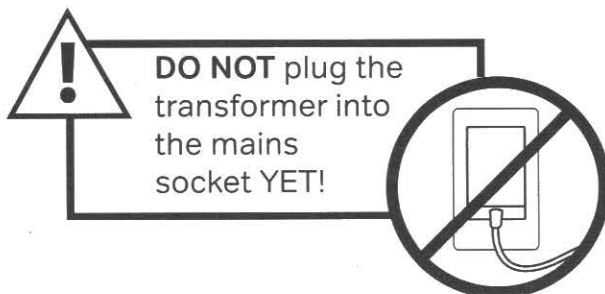


4. Adjust the clearance between the stairlift and the wall by moving the rail in or out appropriately.

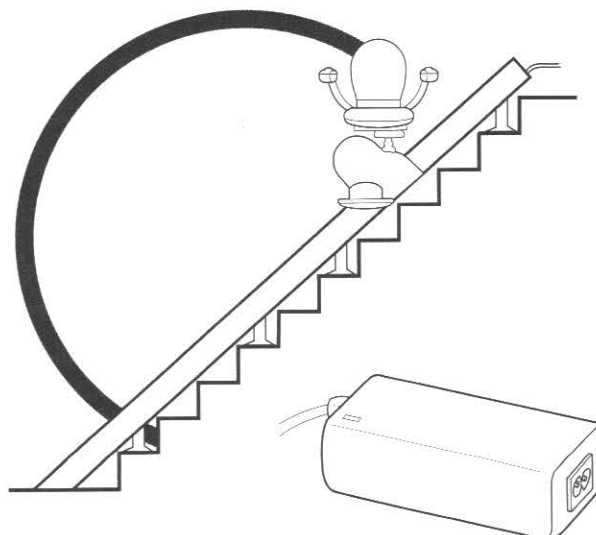


Once checked and final position verified, secure the rail brackets down to the stairs using the screws applicable for the staircase construction.

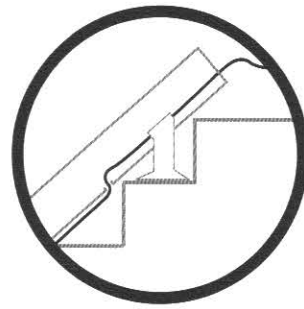
1.2.10 Connecting the Transformer



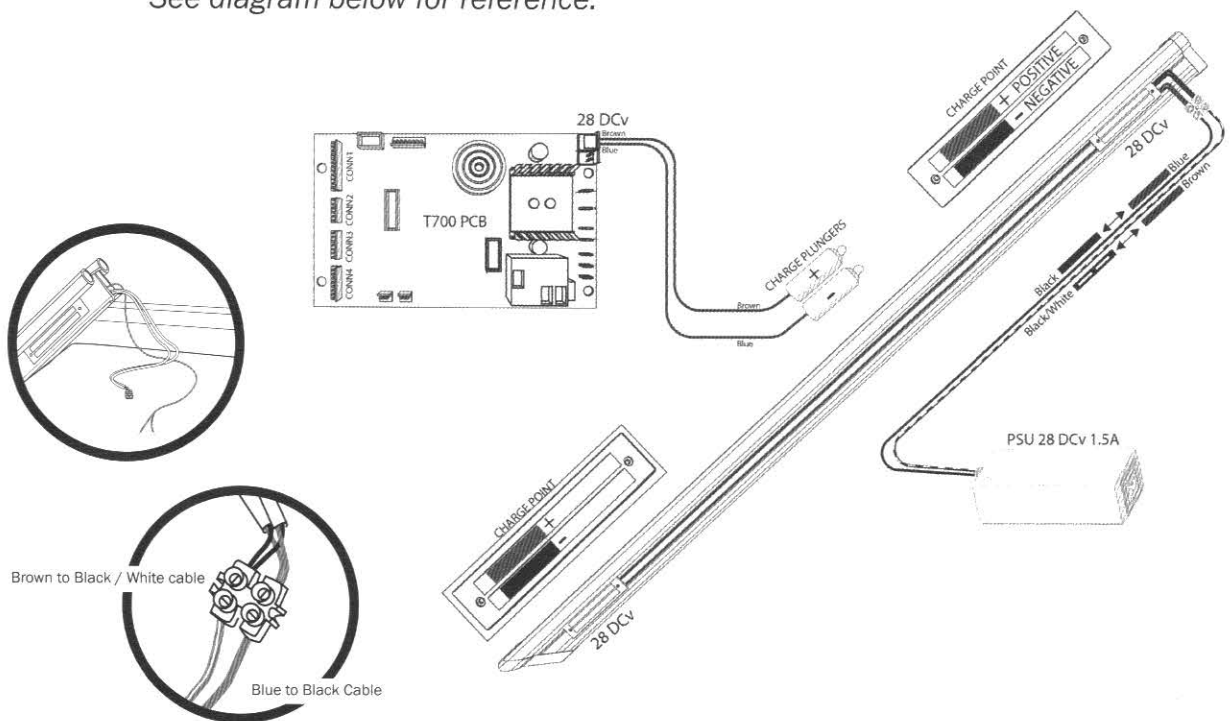
The transformer from the fitting kit now needs to be connected to the charge system wiring as follows:



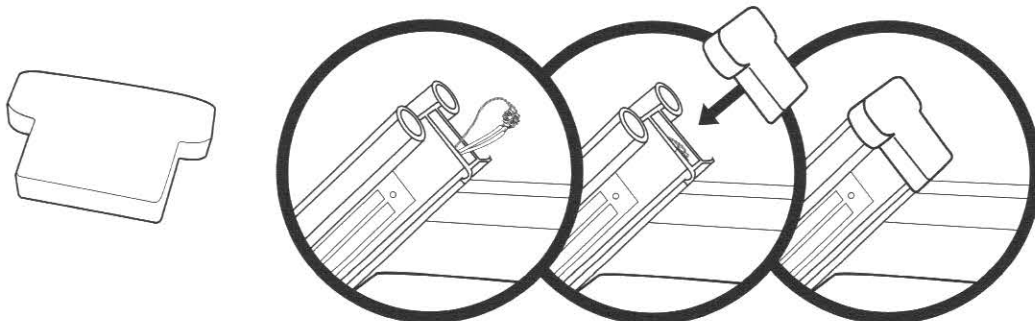
1. Insert the transformer lead through the hole on the underside of the rail (rubber-grommet) and out through the end of the rail.



2. Pull out the charge point wires and connector block from the end of the Rail and join the wires from the transformer into the connector block. The transformer output is DC. Connect the internal brown rail cable to the black with white lines wire from the transformer, and the blue internal rail cable to the black wire from transformer. See diagram below for reference.



3. Push the jointed wires and connector block back into the rail end, push the rail end cap over the end of the rail.



Ensure that the transformer wire is neatly routed so it will not cause a tripping hazard or get caught by the moving stairlift.

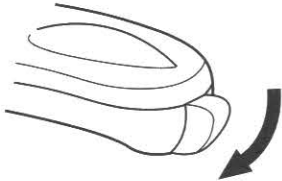
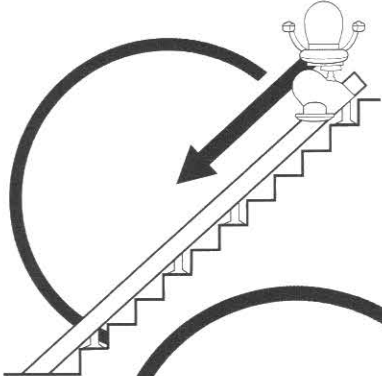
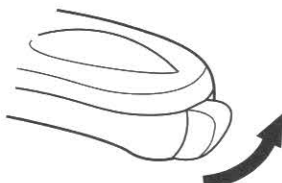
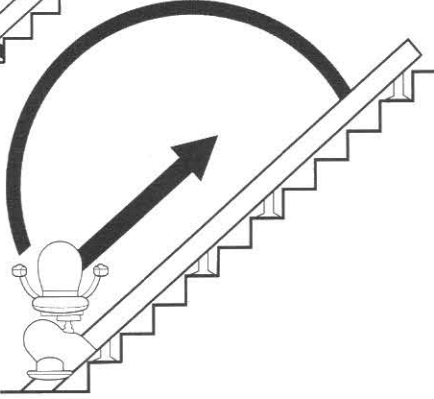



Plug in the transformer only on completion.
Only use the dedicated power supply for the stairlift

1.3 SAFETY CHECKS


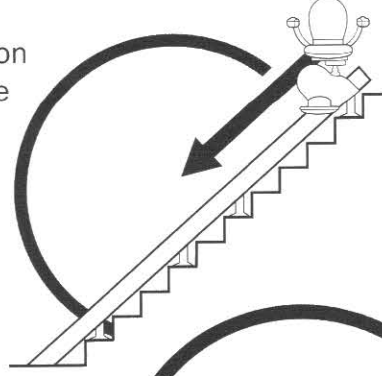
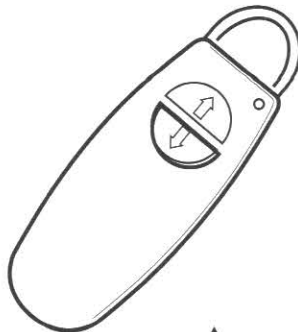
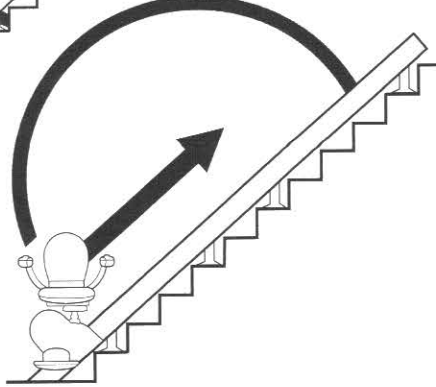
Checklist - to be completed after installation and, if applicable, recorded on the installation work report by ticking the appropriate box and making supplementary notes as required.


1.3.1 Check Controls

1.  Press the toggle in the 'DOWN' direction. The stairlift should start to travel down. 
2.  Press the toggle switch in the 'UP' direction. The stairlift should start to travel upwards. 

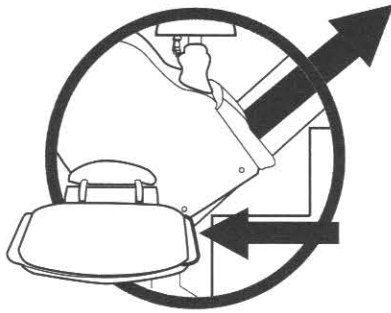
 Check arm toggle does not function if downside arm is lifted.

1.3.2 Check Remote Controls

1.  Press the DOWN button on the remote and the stairlift will descend.
By releasing the button the stairlift will stop travelling. 
2.  Pressing the UP button on the remote and the stairlift will travel in upwards.
By releasing the button the stairlift will stop travelling. 

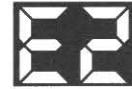
 With the downside arm in the upright position, the unit should receive a call with the remote control.

1.

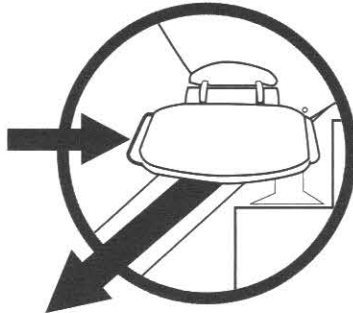


Footrest 'top' side sensor - with the lift ascending, push top-side spring-loaded edge of footrest - lift should stop immediately.

LED Display will show



2.

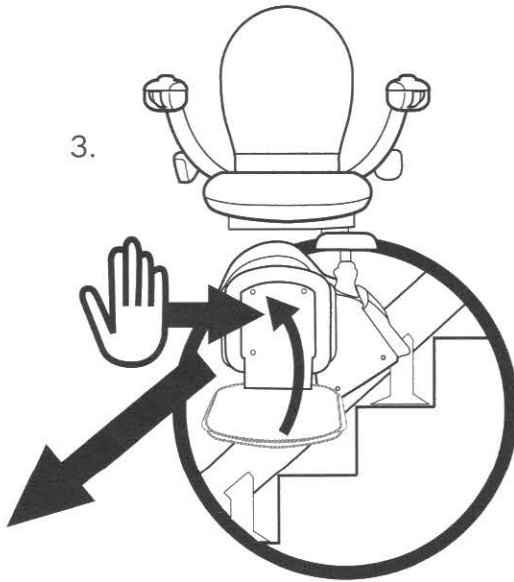


Footrest 'bottom' side sensor - with the lift descending, push bottom-side spring-loaded edge of footrest - lift should stop immediately.

LED Display will show



3.

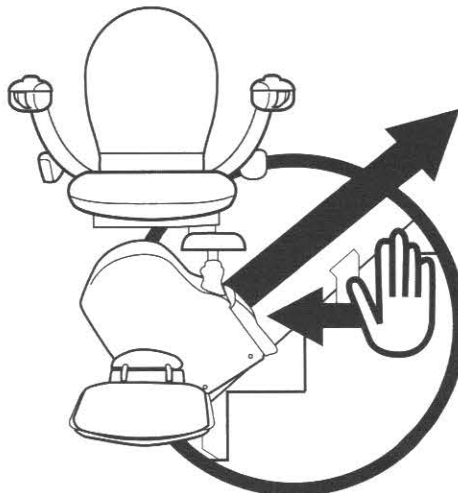


Footrest base sensor - with the lift descending, push in the base of the footrest - lift should stop immediately.

LED Display will show



4.

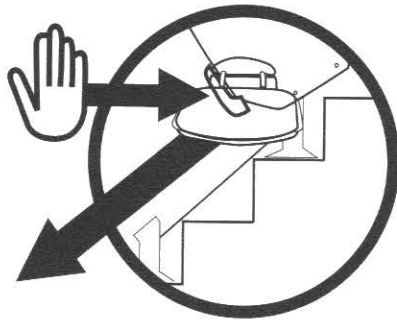


Carriage 'top' side sensor - with the lift ascending, push the top-side spring-loaded moulding attached to the carriage, immediately surrounding the rail - lift should stop immediately.

LED Display will show



5.



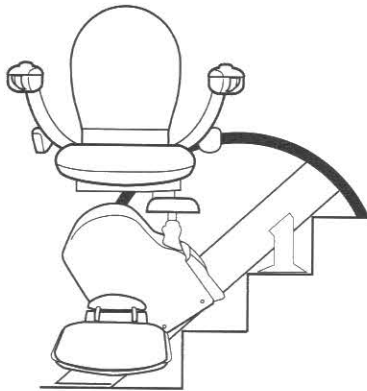
Carriage 'bottom' side sensor - with the lift descending, push the bottom-side spring-loaded moulding attached to the carriage immediately above the rail - lift should stop immediately.

LED Display will show



1.3.4 Check Stopping Limits

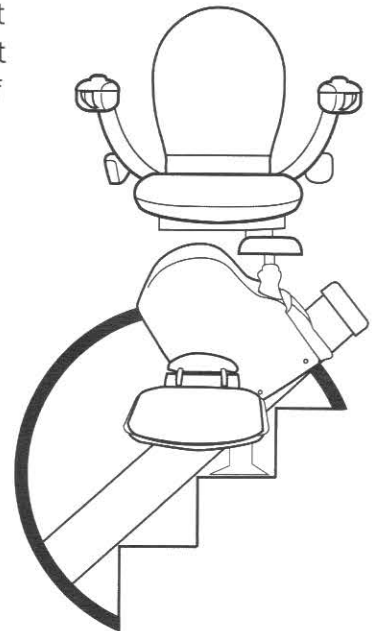
1.



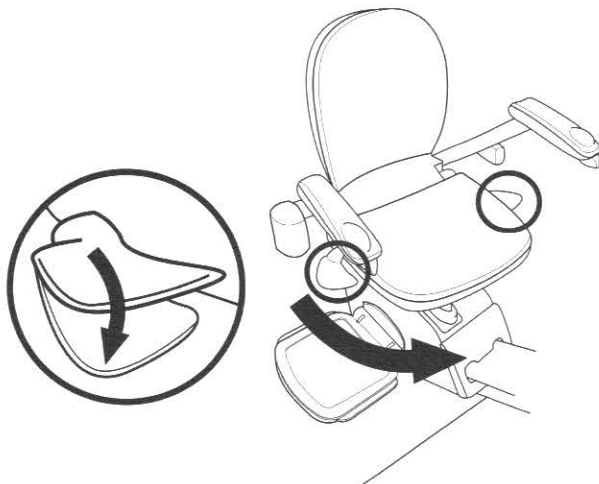
Bottom stopping limit operative - run the lift right to the bottom of the rail - lift should automatically come to a 'soft' stop at the foot of the staircase.

2.

Top stopping limit operative - run the lift right to the top of the rail - lift should automatically come to a 'soft' stop at the top of the staircase.



1.3.5 Check Seat Swivel



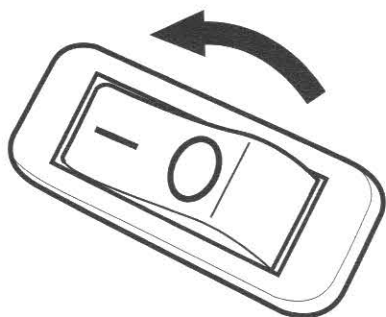
Turn the seat toward the top of the stairs away from the riding position.

The LED display should show



and the stairlift will not operate

1.3.6 Check Battery Isolation Switch

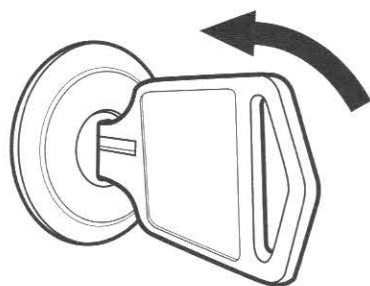


Turn the battery isolation switch to the OFF position.

The LED display should go blank and the stairlift will not operate.



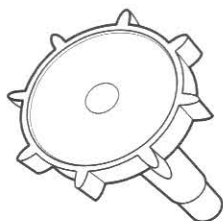
1.3.7 Check Key Switch



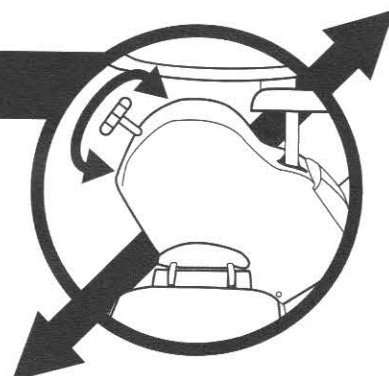
Turn the key switch to the off position. The LED display should change to and the stairlift will not operate.



1.3.8 Hand winding



Remove the blanking plug from top of cover, insert the Hand winding wheel and turn a few turns observing the correct movement of the stairlift in both directions.

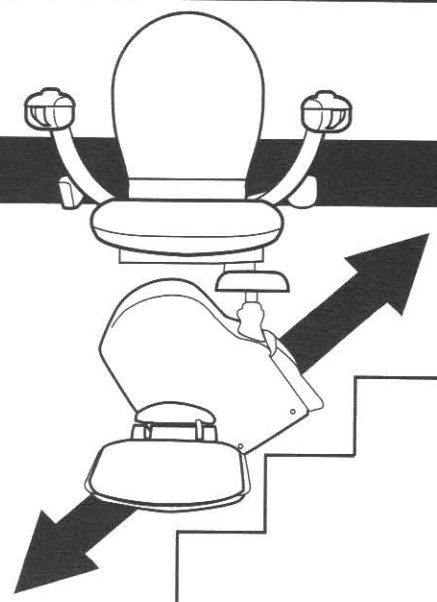


1.3.9 Labelling

Check all labels are fixed to the stairlift.

1.3.10 Check Correct Fixing of Carriage to Rail

Ride the stairlift up and down once, ensuring the ride is smooth and stable and that the stairlift stops in the correct positions at top and bottom.



1.4 Demonstrate Stairlift to User



Please have the User Manual to hand for clear explanation

Correct operation of the stairlift, troubleshooting procedures and a description of the safety features must be demonstrated to the end user prior to hand over.

You should observe the user using the stairlift once upwards and once downwards **AT LEAST** until you are certain that they are able to use it safely.

If the user is unable to operate the stairlift correctly and safely, the stairlift should be removed, unless it is to be operated by an attendant. In this case, the attendant should be present at the installation.

1.5 Maintenance (if applicable)

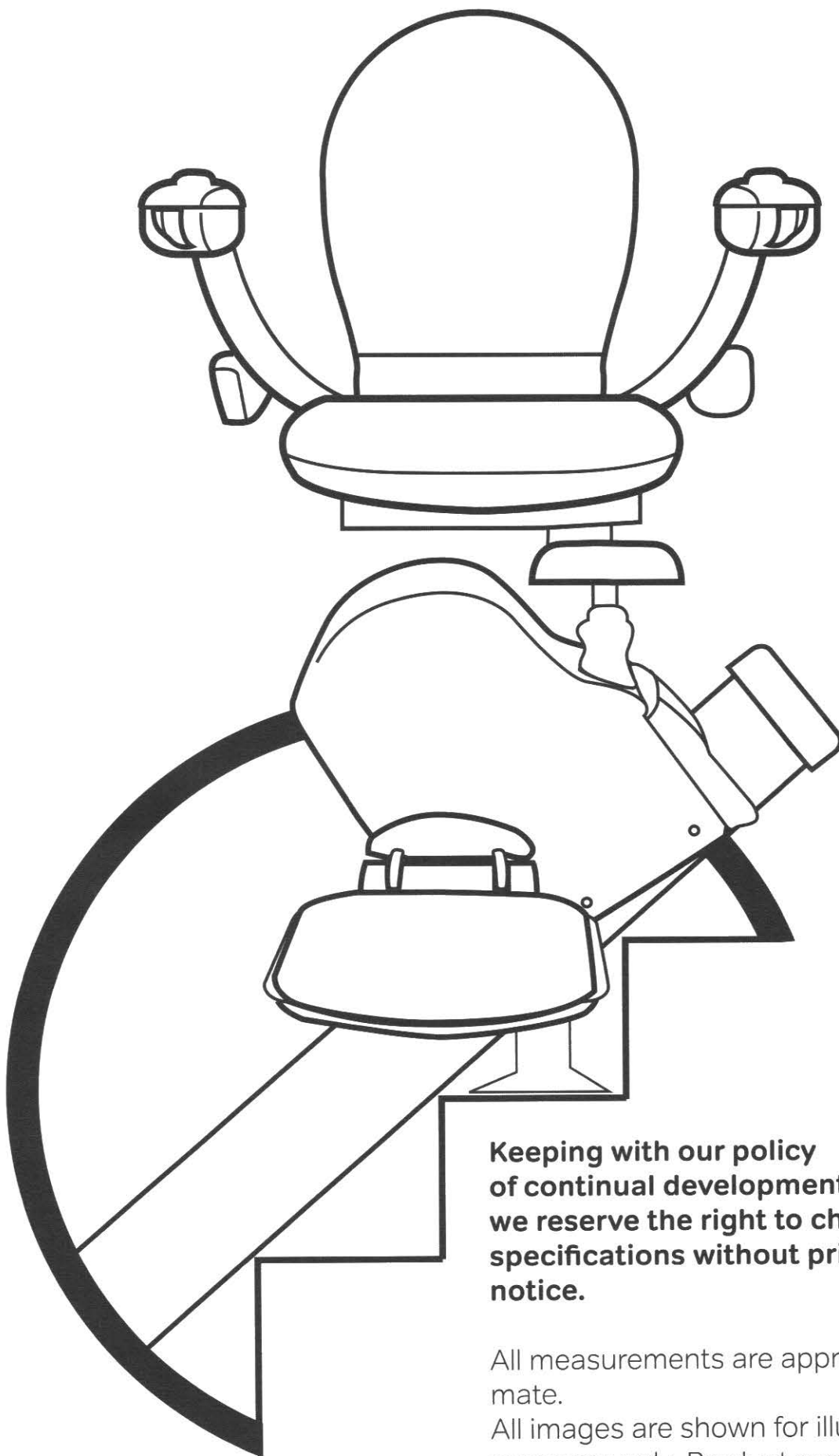
Ensure that the purchaser is informed of requirements for the examination, testing and servicing of the stairlift and any associated national regulatory requirements.

MAINTENANCE IS DOCUMENTED IN THE USER MANUAL

1.6 Avoiding Unsafe Installations

- The installer should not proceed with an installation if, for any reason, it is considered unsafe.
- If the user exceeds the Safe Working Load of 127Kg, (300lbs or 20 stones) the installation should not proceed.

If fitting a heavy duty version, the maximum Safe Working Load is 159kg (350lbs or 25 stones).
- If any of the final safety checks fail, they should be repaired and re-tested before the stairlift is put into service. Under no circumstances should any safety feature be overridden or disabled.
- In the event that there is no wall or solid vertical surface behind the stairlift in its intended position, or on an open plan stairway the installation should not proceed until adequate shielding has been fitted.
- If the angle of the stairs is greater than 55° or less than 23° the installation should not proceed.



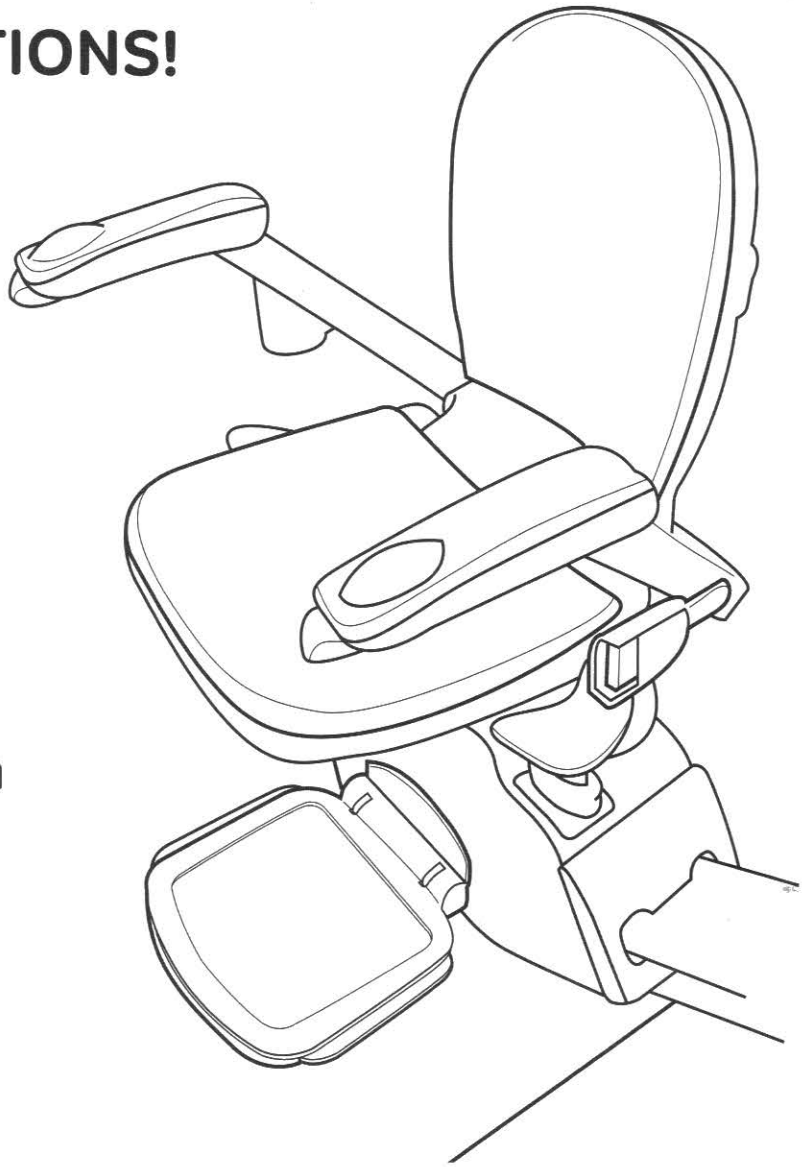
Keeping with our policy of continual development, we reserve the right to change specifications without prior notice.

All measurements are approximate.
All images are shown for illustrative purposes only. Product may vary slightly.

CONGRATULATIONS!

You have installed
your Stairlift.

Don't forget to fill
in your registration
card!



In case of assistance, please
contact your Authorized Dealer