

Stairmate Major

TRE-52

Portable Wheelchair Lift
Owner's Manual



Baronmead
INTERNATIONAL

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1 Safety First!

SAFETY WARNINGS

Safety warnings containing important safety and handling information are affixed to the Stairmate Major to ensure that it is operated safely. The following markings appear in the Owner's Manual as well as on the safety labels.



SAFETY WARNING SYMBOL

This Indicates hazards that could result in serious personal injury or death if the safety precaution is ignored and the product is not handled properly.



SAFETY WARNING LABELS

Safety labels are affixed to the Stairmate Major to ensure that it is used safely. Please make sure you read and follow all safety warning labels. Safety labels that are damaged, lost or are no longer legible should be replaced. Safety labels can be ordered from the local dealer.

The labels contain the following key safety warnings:



SAFETY WARNINGS

Maximum Load Capacity is 440 lbs (200 Kg). Load includes wheelchair and passenger. Do not overload.

Maximum Stair Angle is 35°. Place the Stair-slope Indicator across two stair noses to check the stair angle. Operate Stairmate Major only when the arrow is in the green zone.

Do not operate if you have not read the Owner's Manual.

Do not carry wheelchairs or scooters that do not fit within the platform area. The front wheels of the wheelchair must fit behind the blue line on the platform deck.



(continued on next page)

Safety First!

SAFETY WARNINGS (continued from previous page)



Set the Parking Brake when loading and unloading passengers and if leaving the unit unattended.

Do not let go of the Operating Handle when a passenger is onboard and the platform is tilted back.

Always position Stairmate Major at an angle of 90° to the stairs.



Use EXTREME CAUTION on wet stairs.

Do not use Stairmate Major on icy, slippery or littered stairs.

Do not use Stairmate Major on spiral stairs, irregular stairs or stairs with loose or insecure treads or coverings.

Do not operate Stairmate Major unless the wheelchair and passenger are properly secured using the tie-down straps and seatbelt. Engage the wheelchair brakes(s) and turn off the controls to power wheelchairs.



Always come to a complete stop at the red STOP MARK balance point when ascending and descending stairs.

Keep the front castor wheel back from the edge of the stairs. Do not roll Stairmate Major forward past the yellow mark on the drive frame. When tilting the platform forward to the horizontal position, make sure the front castor wheel will contact the floor well away from the stair edge.

Do not reach under the platform. Do not touch any moving parts.

Turn off the key switch and remove the key when Stairmate Major is not in use. Leaving the key switch turned on will drain the battery.



Operating Stairmate Major with a second person present will increase the level of safety and is recommended, particularly when operating with a heavy load.

If using Stairmate Major to transport freight, do not exceed the maximum capacity of 440 lbs (200 Kg). Ensure that the freight is well secured. Keep the weight low and to the rear of the platform.

When learning to operate Stairmate Major, always start with an empty machine. Practice ascending and descending the stairs. In particular, practice consistently stopping on the red STOP MARK at the top of the stairs. When you are proficient, find an able-bodied partner to practice with. Be an operator and a passenger. Use The Stairmate Major to transport people with disabilities only when you have this level of experience.

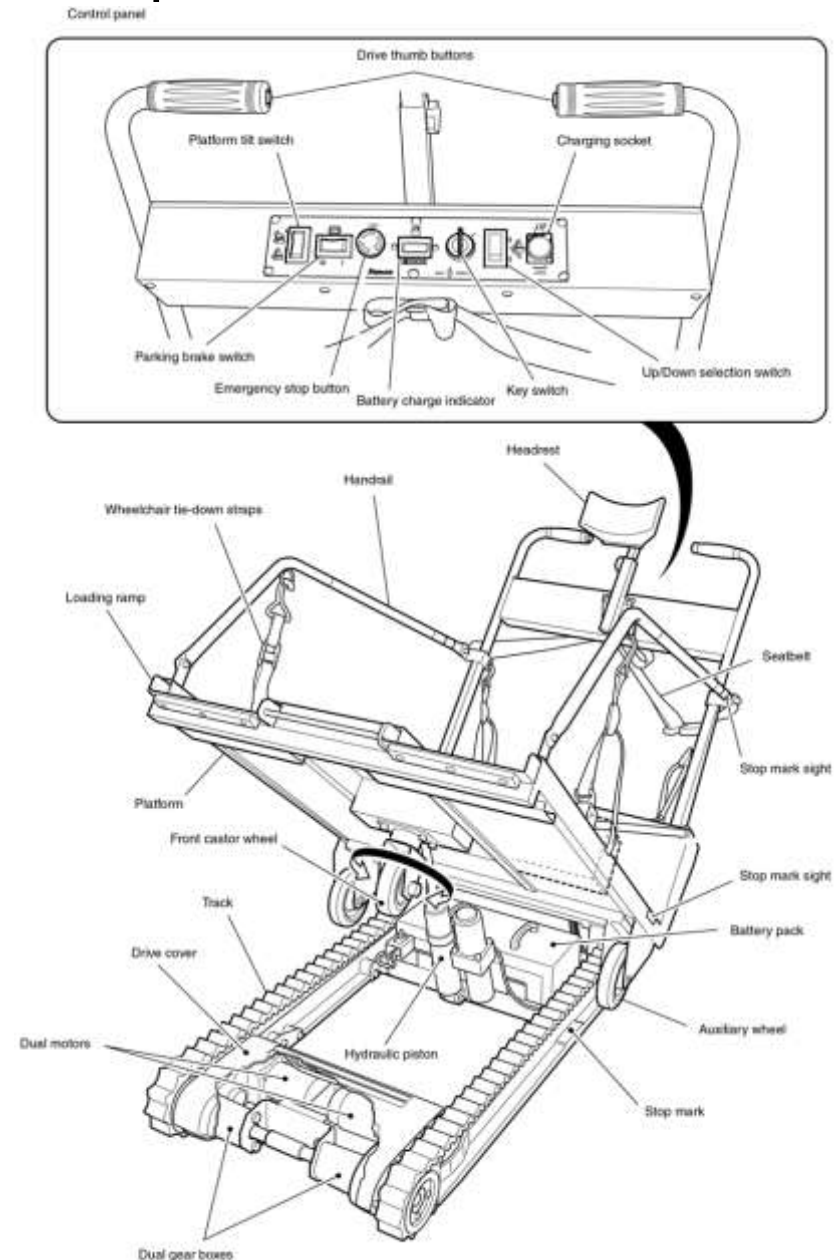


2 Specifications

Stairmate Major TRE-52 Specifications

Capacity:	200 Kg (440 lbs)
Drive Motors:	2 x 12 volt DC - 190 W
Brake:	2 x electromagnetic spring brake
Battery:	2 x 12 volt - 24 AH
Battery Charger:	Automatic 115 / 230 VAC
Speed:	Up 6.51 m (21.4 ft) / min Down 10.59 m (34.7 ft) / min
Weight:	115 Kg (253 lbs)
Dimensions:	Height: 1280 mm (50.4") Length 1258 mm (49.5") Width 757 mm (29.8")
Platform Size:	Length 892 mm (35.1") Width 690 mm (27.4")
Wheelchair Attachment:	4 x quick-release tie-down strap Electrically interlocked seatbelt
Parking Brake:	Electrical activation Wheels retract - tracks rest on floor
Auxiliary Wheels:	Front 5 in. castor rubber wheel Rear 6 in. fixed rubber wheel x 2
Rubber Belt Tracks:	Moulded rubber reinforced with braided wires Width 51 mm (2") Length 1219 mm (48")
Turning Clearance:	1600 mm (63") required to turn at landings
Maximum Stair Angle:	35°

3 Component Identification

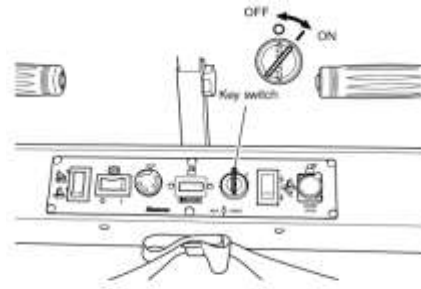


4 Component Function

KEY SWITCH

The key switch on the control panel is used to turn the power ON or OFF.

When the Stairmate Major is not in use (when it is in storage, being recharged or in transit) put the key switch in the OFF position (O), remove the key and keep it in a safe place.



BATTERY LIFE TIP

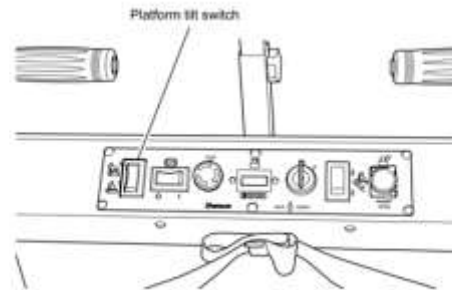
If the key switch is left in the ON position, the battery will discharge and will eventually go dead. When not in use, always put the key switch in the OFF position and remove the key.

PLATFORM TILT SWITCH

The platform of the Stairmate Major must be tilted so it is horizontal when going up or down stairs. The tilting is done by a hydraulic actuator that is activated by a rocker switch on the control panel. This is the Platform Tilt Switch.

Press and hold the top of the rocker switch to tilt the platform back and the bottom of the rocker switch to return the platform to the horizontal position.

The platform will stop moving when you take your finger off the switch or when it reaches the maximum travel. The hydraulic actuator will make a louder noise when this happens. This is normal.

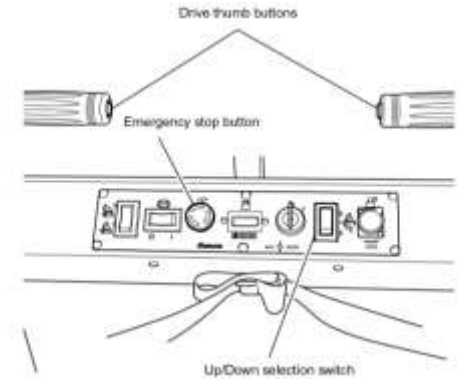


The Stairmate Major will not climb up or down stairs unless the platform is tilted as far as it can go. Also, this switch will not work while the Stairmate Major is on the stairs. There is a safety interlock.

DRIVE CONTROLS

Drive Thumb Buttons

Operate the tracks and work only when both buttons are pressed. The Stairmate Major will stop moving if you take your thumb off one button.



Up/Down Selection Switch

Use this to choose the direction of travel on stairs.

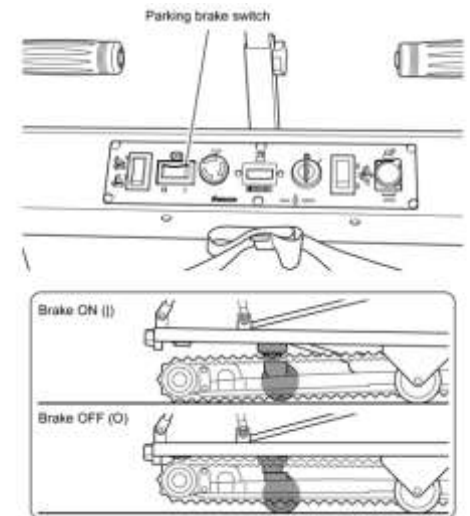
Emergency Stop Button

Push to stop the Stairmate Major if other controls fail to function. To cancel, turn to the right.

PARKING BRAKE Parking Brake Switch

Used to lower the tracks to the ground so that the wheelchair can be loaded and unloaded safely. Press the Parking Brake Switch to the ON position (|) to lower the tracks to the ground. This will keep the Stairmate Major stationary.

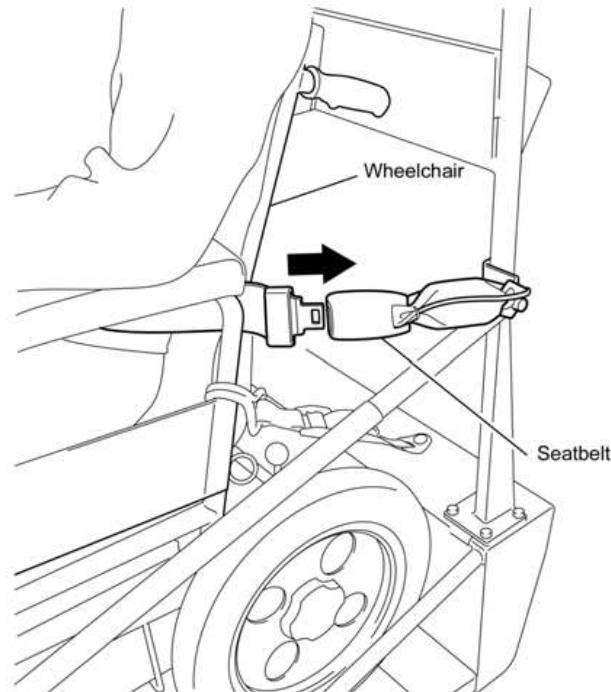
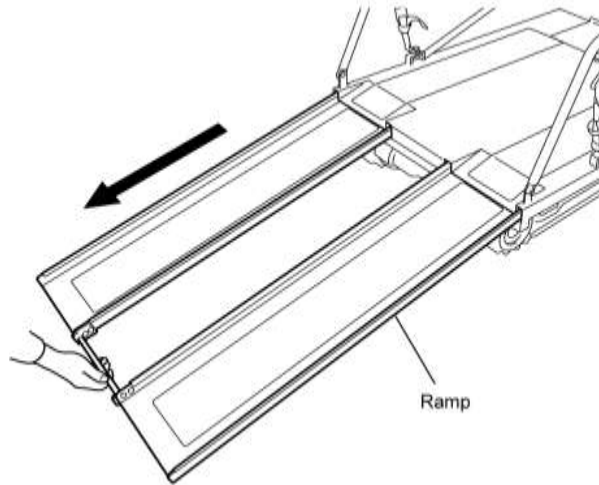
Press the Parking Brake Switch to the OFF position (O) to raise the tracks off the ground.



LOADING RAMP

The Loading Ramp is located under the platform of the Stairmate Major. It provides a gentle slope for loading and unloading the wheelchair.

Pull it out from under the platform as shown. Always slide it back to its original position once the wheelchair has been loaded or unloaded.



SEATBELT

To ensure the safety of the passenger, the Seatbelt must always be fastened around the passenger.

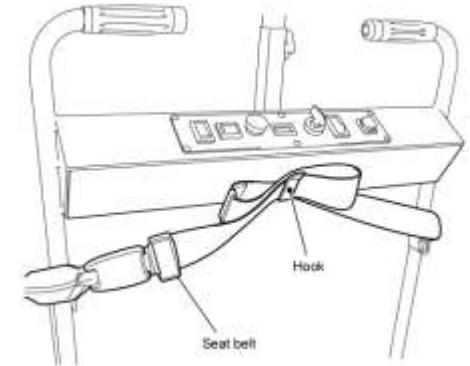
Trouble Shooting Tip

The Seatbelt contains an electrical interlock. The controls, including the parking brake switch, will not work unless the seatbelt is fastened.

Correct Seatbelt Storage

When there is no wheelchair on the Stairmate Major, the seatbelt should always be buckled and placed on the storage hook provided.

Again, Stairmate Major will not function, even when empty, unless the Seatbelt is fastened together.



WHEELCHAIR TIE-DOWN STRAPS

The 4 Wheelchair Tie-Down Straps must be attached securely so there is no danger of the wheelchair moving while the Stairmate Major is in use.

Tightening the Tie-Down Straps

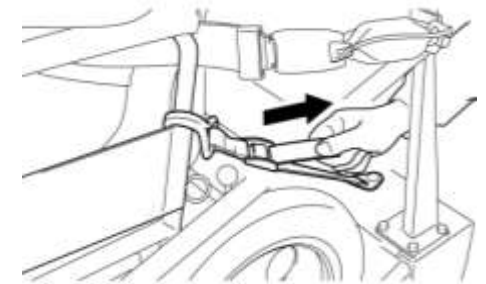
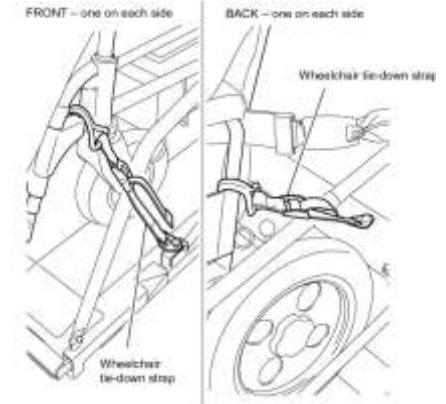
Pull strap towards you to fasten.

Releasing the Tie-Down Straps

Push the flap on the buckle (1) and push in the direction of the arrow (2) to release.

Storage of Tie-Down Straps

When there is no wheelchair on the Stairmate Major, the straps must be hung in the 4 red storage rings. If the straps are not stored correctly they could fall into the tracks and cause damage.



5 Batteries and Recharging

BATTERIES

Small, sealed lead batteries are used in the battery pack. There is no risk of fluid leaking and no maintenance (replacing water etc.) is required other than charging.

When handling batteries, please observe the following precautions:

Charge Batteries after Every Use

Batteries should be recharged immediately after use with the special battery charger provided. Putting the Stairmate Major away without recharging the batteries may cause problems when it is next used if the batteries are weak or dead. Further, if the batteries are left without being charged for a long time, they may stop working altogether.



BATTERY SAFETY WARNINGS

- Do not recharge batteries inside a sealed structure.
- Do not place batteries near fires.
- Do not dismantle or reassemble batteries.
- Do not short-circuit batteries with tools or metal items.
- Batteries should only be recharged with the special battery charger provided.
- Check batteries and replace if you notice any damage such as cracks or deformities or any leaking fluid.
- Check batteries and clean with a cloth moistened with water. Do not wipe with oil or an organic solvent such as petrol or thinner.
- If batteries rupture and electrolyte gets on your skin or clothing, rinse immediately with plenty of water. If any electrolyte gets in your eyes, wash with clean water and see a doctor immediately.



Recommendations for Long Battery Life

The Stairmate Major uses sealed batteries. The batteries will not work if you remove the battery covers.

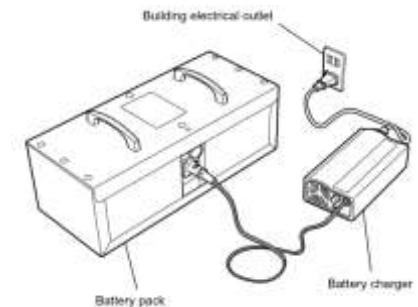
If the batteries are allowed to run too low, you may not be able to use them again.

When the Stairmate Major is not used for a long period of time, the batteries should be fully charged and then removed, kept in a dry place with low humidity and recharge once a month.

As batteries deteriorate when stored, they may not work as well as they did before they were put away.

BATTERY CHARGER

The Stairmate Major's special battery charger automatically charges depending on the discharge level of the batteries. Therefore, once battery voltage reaches a certain level during recharging, it will stop charging. Batteries that are completely used up take about 5 hours to recharge.

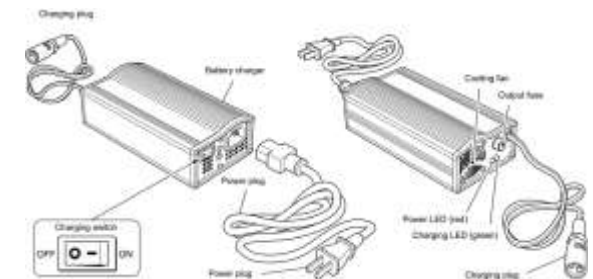


SET CHARGER FOR LOCAL VOLTAGE

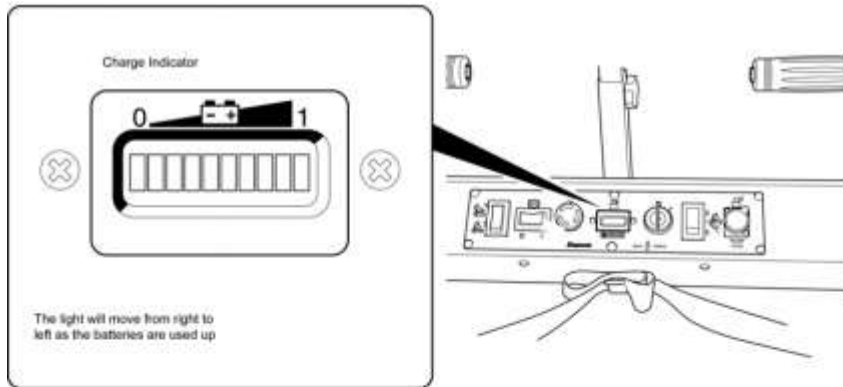


Before using the charger, be sure to set the sliding switch on the back of the charger to the local voltage:

**110 – 115 VAC or
220 – 230 VAC**



HOW TO READ THE BATTERY CHARGE INDICATOR



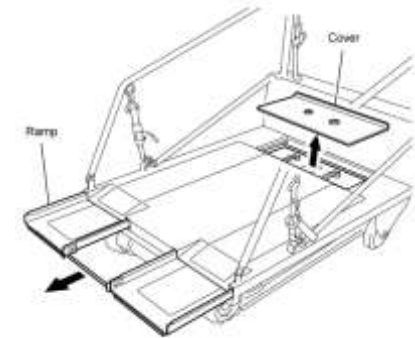
How to read the charge indicator after charging the batteries.

	Charge Indicator	Time left: (Percentage of charge)
1	 Far right light is on	Approx. 40 mins (100%)
2	 Fourth light from right is on	Approx. 20 mins (50%)
3	 Seventh light from right is on	Approx. 10 mins (25%)
4	 Second light from left flashing	Stop (0%) (Stop using and recharge batteries immediately)
5	 Two lights on the far left flashing	If this goes on, the batteries will deteriorate considerably. It is better to stop using and recharge the batteries at Stage 4.

When the key switch is in the ON position (|), the light on the battery charge indicator may move to a position to the left of where it was when the Stairmate Major was last used.

REMOVING THE BATTERY PACK

The battery pack does not need to be removed for charging. However, if there is no electrical receptacle nearby, the battery pack can be removed and carried to where there is a power source for the charger.



Also, in the case of heavy use, 2 or more batteries can be swapped when the charge gets low.

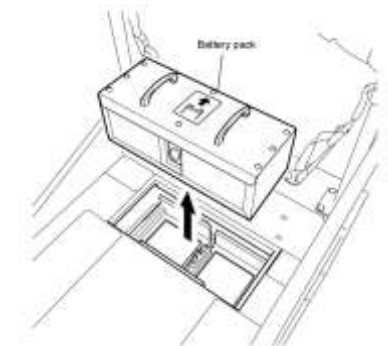
Remove the cover at the top end of the platform deck of the Stairmate Major. Pull out the ramp until the battery pack can be removed. Hold the handles on the battery pack with both hands and lift out.

To put the battery pack back in place, simply reverse the process.

BATTERY PACK ALIGNMENT

The battery pack can only be put back with the arrow pointing in the direction shown. This is so the contacts align.

Make sure the battery pack is inserted correctly as it could be damaged if inserted back to front.



WARNING

Be careful not to drop the battery pack as the batteries could be damaged. This could result in leakage of the battery fluid.

RECHARGING THE BATTERIES

Connect the power cord to the battery charger.

When the battery pack is in the Stairmate Major, lift up the flap over the charging socket on the control panel and insert the battery charger plug.

When the battery pack has been taken out of Stairmate Major, lift up the flap over the charging socket on the battery pack and insert the battery charger plug.

Insert the battery charger plug into the building electrical outlet.

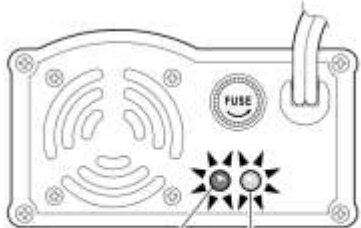
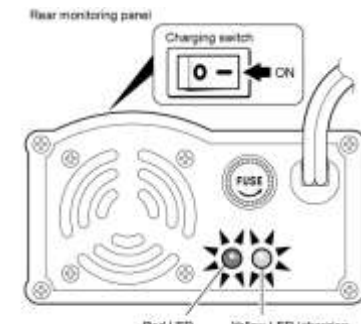
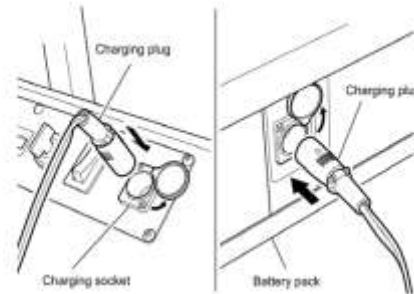
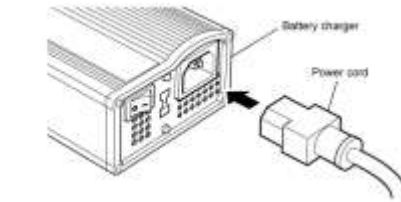
Put the charging switch in the ON position. Charging will commence when the red and yellow LED's come on.

As the batteries are charged, the yellow LED will turn green, indicating that the

batteries are fully charged

Take the battery charger plug out of the building electrical outlet.

Take the battery charger plug out of the socket.



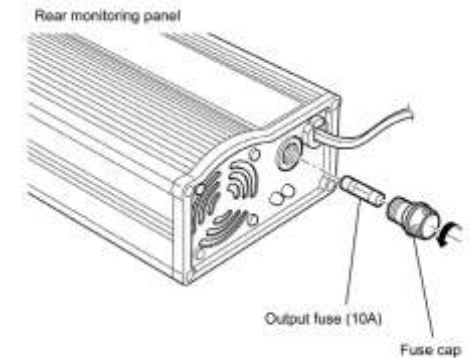
Red LED
Yellow LED (charging has commenced) → Green LED (charging complete)

CHARGER SAFETY WARNINGS

- Make sure no combustible objects are placed near the battery charger, as it will become very warm during use.
- To ensure that the battery charger is used safely, please read the instruction manual carefully beforehand.
- The cover should never be taken off. Tampering with the inside of the battery charger could give you an electric shock.
- The battery charger should be used and stored indoors in a dry place away from direct sunlight. Otherwise it could cause electric shocks or the unit could be damaged.
- The When the batteries are near the end of their life span, they will no longer be able to reach battery voltage during charging and the charging automatic shutoff function will stop working.

REPLACING THE FUSE

A prolonged flashing green light means that something is wrong (a blown fuse, faulty connection etc.) Remove the fuse cap in the diagram on the right by turning in a counter-clockwise direction and put in a new 10A output fuse.



BATTERY CHARGER TROUBLE-SHOOTING GUIDE

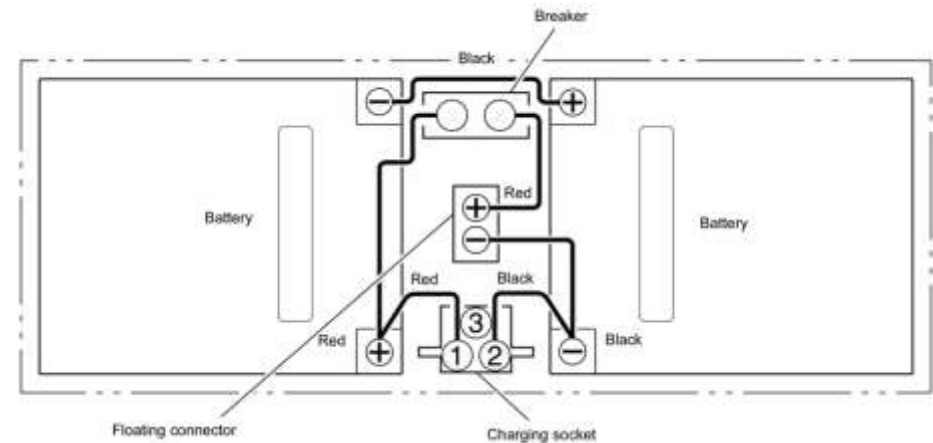
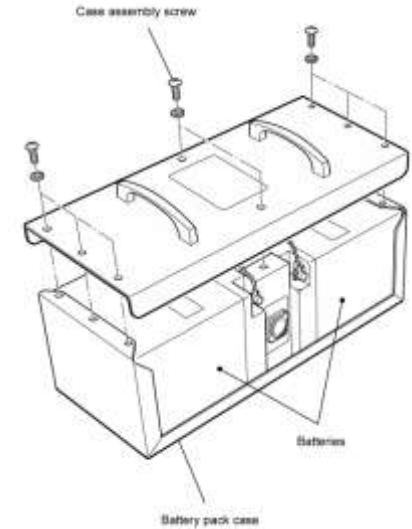
PROBLEM	CAUSE	SOLUTION	
Does not charge. The red LED does not come on.	Bad connection between plug and electrical outlet.	Check connections and connect securely.	
	The charging switch is not in the ON position.	Follow the procedure for putting the charging switch into the ON position.	
	There is no power to the building electrical outlet.	Check power supply or find a working outlet.	
	Something is wrong with the input end of the battery charger.	Arrange to have checked and repaired.	
The red LED comes on and the green light flashes as soon as charging commences.	The output fuse has blown	The wiring at the output end of the charger is disconnected. The batteries have been connected with the (+) and the (-) in the wrong positions Defective batteries (at the end of their life etc.)	Remove the nonconformity and follow the procedure for replacing the fuse (See P. 15) If the fuse continues to blow, service should be arranged.
		Replace fuse. Replace batteries.	
	Bad connection between charging socket and charging plug or no connection at all.	Check connections and connect securely.	
	Either the power cord at the output end or the battery pack cord is damaged or not soldered properly.	Arrange to have repaired or replace.	
	Something is wrong with the output end of the battery charger.	Arrange to have checked and repaired.	
	Defective batteries (at the end of their life or overcharged).	Replace batteries.	
	Something is wrong inside the battery charger (timer etc.).	Arrange to have checked and repaired.	
When charging commences, the red Led comes on and the yellow LED immediately turns green.	The batteries are fully charged.	Normal	
	Defective batteries.	Replace batteries.	
The batteries have been charged but run out again quickly.	The batteries are near the end of their life span.	Replace batteries.	
	The temperature is too low where the batteries are being charged.	Batteries should be recharged at a temperature of between 5°C and 40°C.	

Replacement batteries can be purchased through your local, authorized Stairmate Major dealer.

Unscrew the case assembly screws on the battery pack and remove the case.

Disconnect the wires from the battery terminals and put in new batteries.

Connect wires to batteries as before. Refer to the wiring diagram below.



BATTERY LIFE TIP

The batteries will discharge rapidly if the key switch is left in the ON position. Make sure the key switch is in the OFF position and the key has been taken out when the Stairmate Major is not in use.

6 Loading and Unloading

WHEELCHAIR LOADING AND UNLOADING

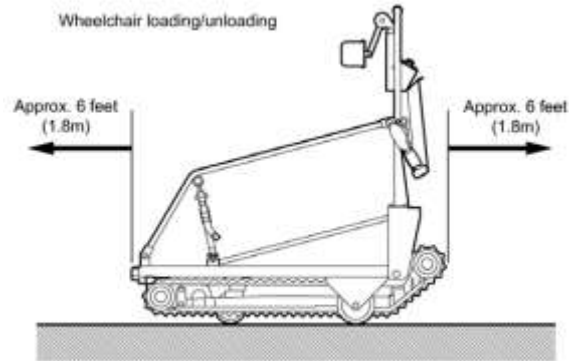
How to load the wheelchair

Make sure there is nothing in the way for about 6 feet (1.8m) in front and behind the Stairmate Major.

Turn the key switch to ON (|).

Set the parking brake so that the Stairmate Major will not move during boarding.

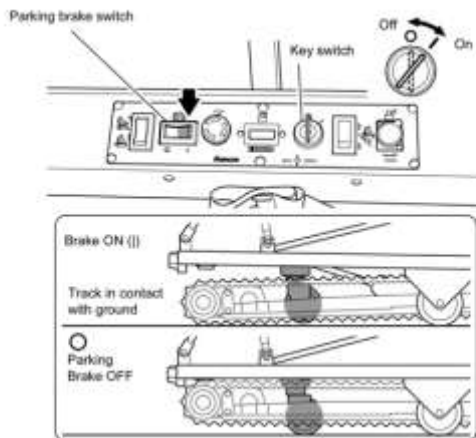
To do this push the parking brake switch on the control panel. This will lower the tracks to the ground.



WARNING



The parking brake should always be applied when loading/unloading the wheelchair.



LOADING RAMP

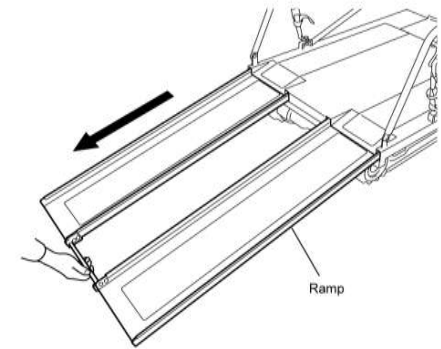
Pull out the loading ramp that is located under the platform of the Stairmate Major.

Roll the wheels of the wheelchair up onto the ramp and gently push the wheelchair up with one person on either side.



WARNING

Check that the wheels of the wheelchair fit into the ramp channels. Watch for interference from anti-tip bars. These may need to be removed.



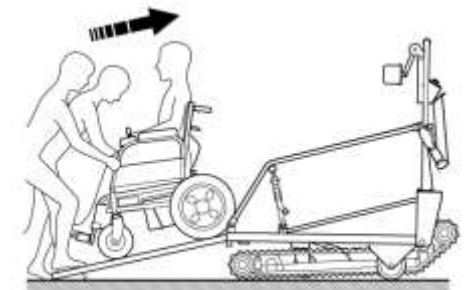
WARNING

The angle of the ramp may cause the passenger's upper body to shift forward. Be prepared to support the passenger's upper body when loading and unloading.



WARNING

It may be necessary to disengage the drive of power wheelchairs to roll them up the ramps. Power wheelchairs are heavy. Use caution.



MOVE PASSENGER ONTO THE PLATFORM

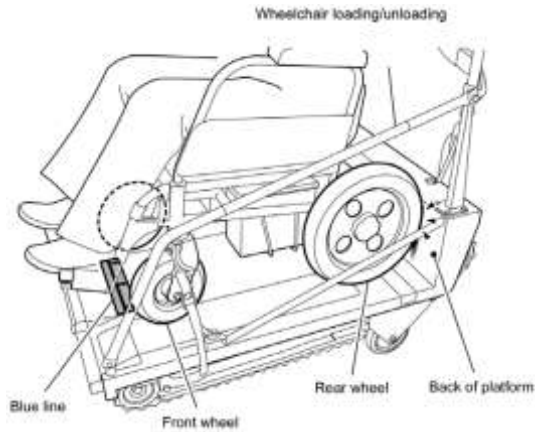
Roll the wheelchair back onto the Stairmate Major platform until the front wheels are behind the blue line on the deck and the rear wheels are touching the back of the platform.

WARNING



Safety
Warning

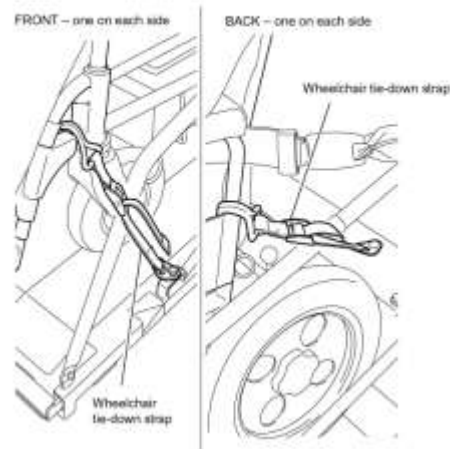
Do not carry wheelchairs or scooters that do not fit within the platform area. The front wheels of the wheelchair must fit behind the blue line on the platform deck.



SECURE THE WHEELCHAIR

Ensure the wheelchair brakes are ON. Check that the power is turned off on electric wheelchairs.

To ensure there is no danger of the wheelchair moving while the Stairmate Major is in use, the 4 wheelchair tie-down straps must be securely fastened. To tighten, pull strap towards you.



WARNING



Safety
Warning

The 4 wheelchair tie-down straps must always be fastened. Failure to do so could result in the wheelchair coming off the Stairmate Major platform.

FASTEN THE SEATBELT

Fasten the seatbelt around passenger and wheelchair. Tighten as required.



Safety
Warning

WARNING

The Stairmate Major will only move when the seatbelt is fastened. The seatbelt must always be fastened around the passenger and wheelchair.

ADJUST THE HEADREST

Adjust the headrest so that it is comfortable for the passenger. Remember that the passenger will be reclined before climbing the stairs.

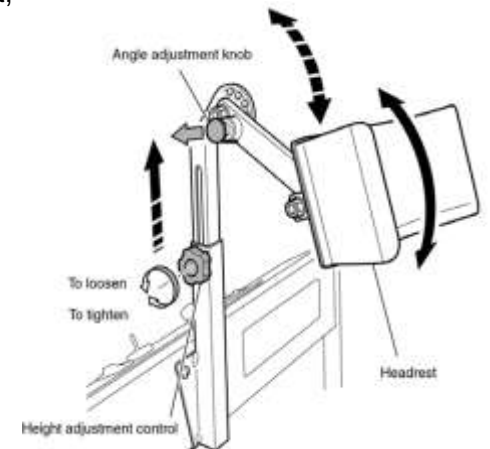
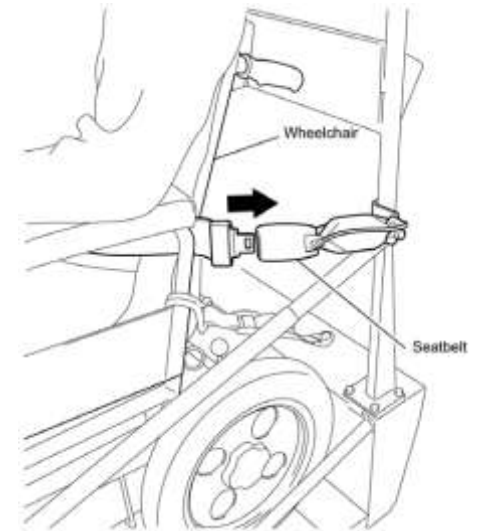
To adjust the height of the headrest, loosen the height adjustment control and tighten once you have decided how high you want it to be.

To adjust the angle of the headrest, pull out the angle adjustment.

Make any fine adjustments to the cushion part of the headrest so that it supports the passenger's head properly.

STORE THE LOADING RAMP

The final step is to slide the loading ramp back under the platform.



UNLOADING THE PASSENGER

Make sure there is nothing in the way for about 6 feet (1.8 m) in front and behind the Stairmate Major.

Turn the key switch to ON (|).

Set the parking brake so that the Stairmate Major will not move.

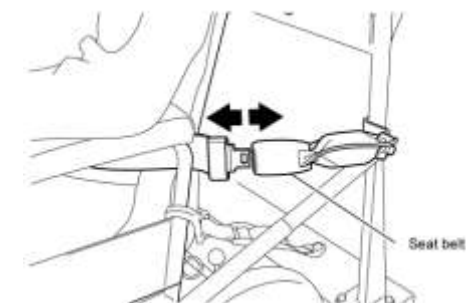
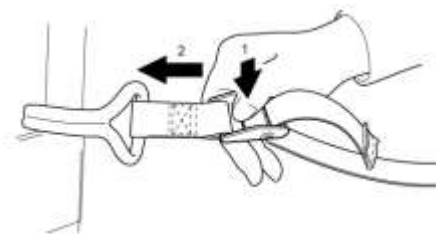
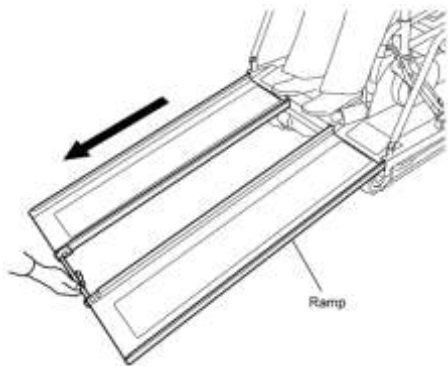
To do this, push the parking brake switch on the control panel. This will lower the tracks to the ground.

Pull out the loading ramp.

RELEASE TIE-DOWN STRAPS

Release the wheelchair tie-down straps. Push the flap on the buckle (1) and release in the direction of the arrow (2). Detach from the wheelchair.

RELEASE THE SEATBELT



FASTEN & STORE SEATBELT

Refasten the seatbelt behind the operating handle and place the slack belt in the storage hook below the operating controls.

Stairmate Major will not operate unless the seatbelt is refastened.

SECURE THE TIE-DOWN STRAPS

Place the wheelchair tie-down straps in the red storage rings and tighten.

UNLOAD PASSENGER

Gently roll the wheelchair off the platform and down the ramp with one person on each side.

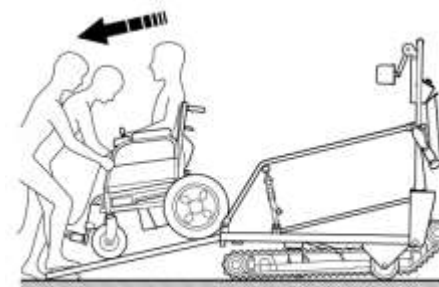
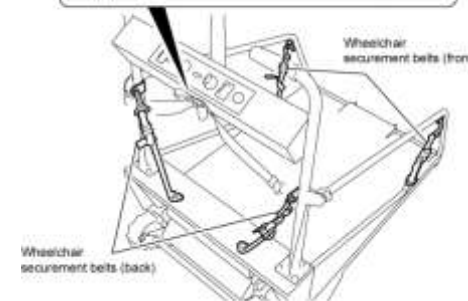
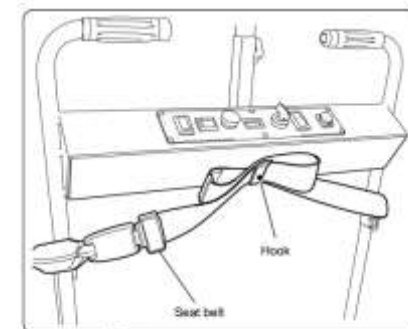


WARNING

Be sure to support the passenger's upper body. Use extreme caution. Be prepared to support the combined weight of the wheelchair and passenger rolling down the ramp.

STORE THE LOADING RAMP

The final step is to slide the loading ramp back under the platform.



7 Operating on Flat Surfaces

Stairmate Major is equipped with 3 auxiliary wheels for rolling across flat surfaces such as hallway floors and stair landings.



SAFETY WARNING

Do not roll Stairmate Major on ramps or inclined surfaces. It is very heavy and could run away from the operator. If the unit starts to roll on its own, set the parking brake immediately and then get assistance to move Stairmate Major back to a flat area.

OPERATING ON FLAT SURFACES

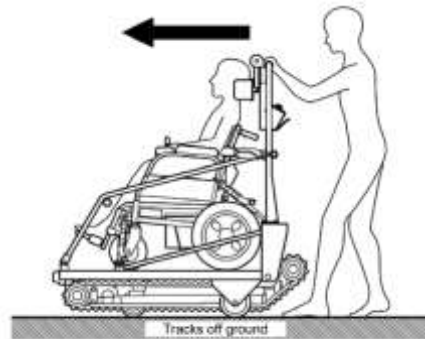
Push the parking brake switch to the OFF position (O). The tracks will retract and Stairmate Major will be free to roll on the auxiliary wheels.

Push the Stairmate Major forward manually. This is the normal manner to cover any distance.

Change direction with the castor wheel located at the front of the unit.

Note that you will need to pull Stairmate Major backwards when positioning it at the bottom of the stairs for stair climbing.

Stairmate Major will roll more easily on a hard floor surface, such as tile, than on a carpeted surface.



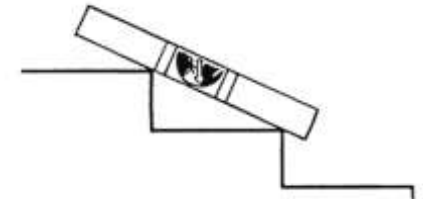
8 Ascending Stairs

PASSENGER COMFORT

To ascend stairs you will be tilting the passenger and moving onto the stairway. To help relax the passenger it is always a good idea to tell the passenger what will happen next.

CHECK THE STAIR SLOPE ANGLE

Remove the stair slope indicator from the base of the operating handle. Place it across two stair noses to check the stair angle. Use Stairmate Major only if the stair slope is 35° or less. This is the green zone on the stair slope indicator.



WARNING

Do not use Stairmate Major on stairs with slopes greater than 35°. Stability of Stairmate Major will decrease as the stair slope becomes steeper.

POSITIONING STAIRMATE MAJOR TO ASCEND STAIRS

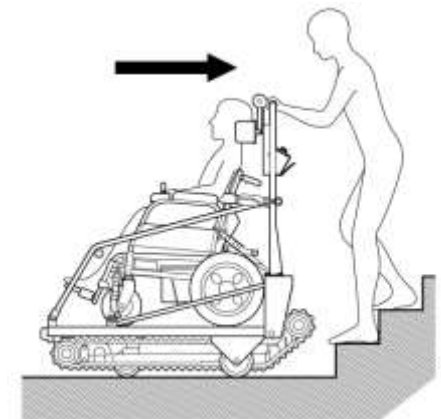
Reverse the Stairmate Major using the auxiliary wheels until it is at right angles to the bottom step. This will be when the tracks come into contact with the step at the same time.



WARNING

It is very dangerous if the tracks are not aligned at right angles to the stairs.

The Stairmate Major will not be able to climb in a straight line.



TILTING THE PLATFORM

Turn the key switch on the control panel to ON (I) and press the upper part of the platform tilt switch until the platform is tilted to the maximum range of travel. You will hear a loud whining sound from the hydraulic pump when it reaches this point. This is normal.

The platform is now in the correct position for going up the stairs.

The drive thumb buttons will not work unless the floor is tilted as far as it can go.



WARNING

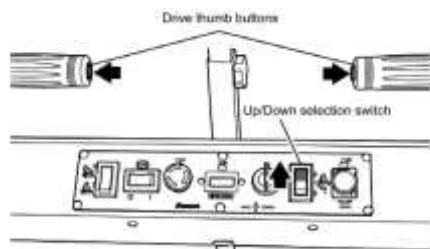
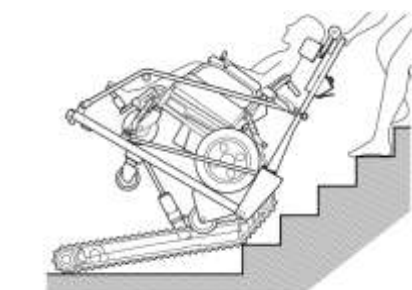
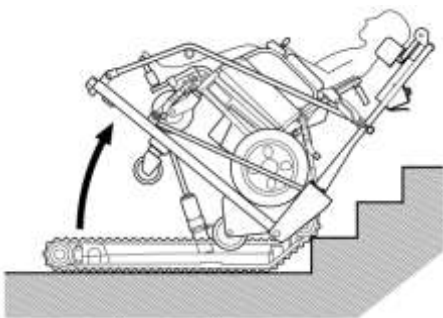
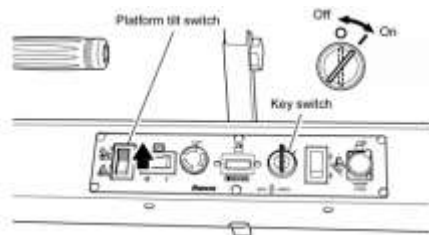
When the platform is tilted, weight will shift to the operating handle. Be sure to grip it firmly and be prepared to support this increased load until you begin to climb the stairs.

STARTING STAIR ASCENT

Press the Up / Down selection switch to UP and then press the drive thumb buttons on both handles simultaneously.

The Stairmate Major will start going up the stairs. Continue pressing the thumb buttons until you get to where you want to stop.

Take your thumbs off the buttons to stop the Stairmate Major.



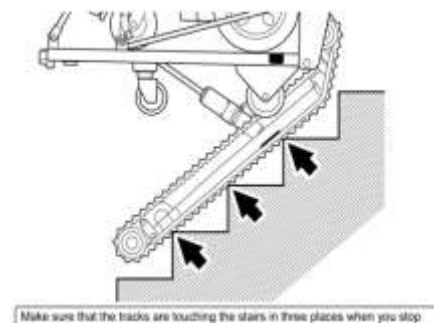
WARNING

While the Stairmate Major is going upstairs, the operator must always keep both hands on the operating handles.



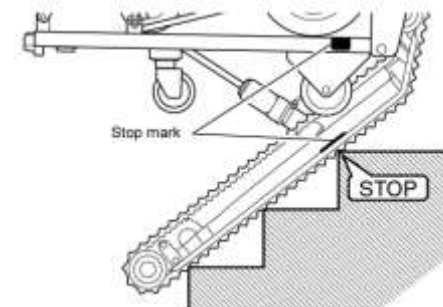
WARNING

If stopping on the stairs, make sure that the tracks are in contact with at least 3 stair noses. This ensures maximum stability.



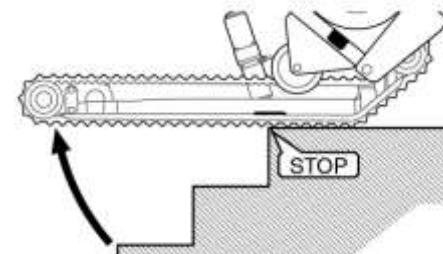
STOP AT TOP OF STAIRS

Continue to ascend the stairs. When you get to the top of the stairs, stop Stairmate Major when the red STOP MARK on the side of the drive frame is aligned with the top stair nose. Position your line of sight so you can see the STOP MARK clearly.



TILT STAIRMATE MAJOR ONTO LANDING

Stop the Stairmate Major when the STOP MARK is aligned with the top stair nose. Then gently pull back on the operating handles to lower it onto the landing. This manoeuvre is always done manually.



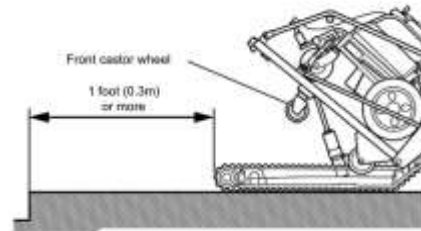
WARNING



Safety
Warning

Do not drive Stairmate Major past the STOP MARK. This could result in a sudden tilting back and shift of weight to the operating handles.

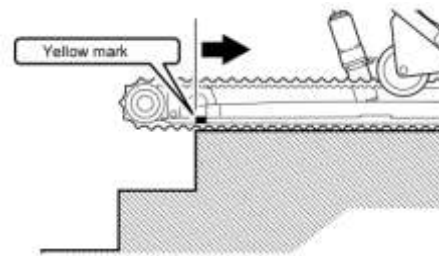
Once the tracks are level resting on the landing, press the drive thumb buttons and continue to drive backwards until the Stairmate Major is at least 1 foot (0.3 m) from the edge of the stairs. If the landing is wide enough, move further away from the stairs for increased safety.



Safety
Warning

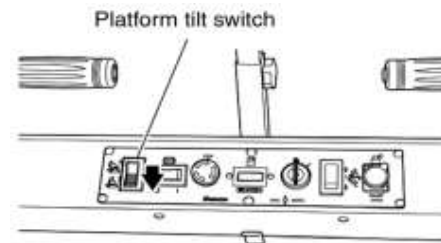
WARNING

Ensure that the Stairmate Major is far enough back from the edge of the stairs that the YELLOW LINE on the drive frame does not protrude over the edge of the stairs. This is to ensure that the front castor wheel lands on the floor when the platform is tilted back to the horizontal position.



RETURN PLATFORM TO HORIZONTAL POSITION

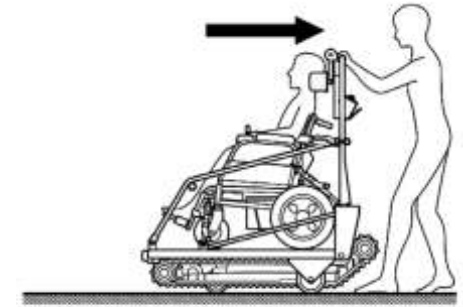
Once Stairmate Major is a safe distance away from the stairs, press the lower part of the platform tilt switch to return the platform to the horizontal position.



MOVE AWAY FROM STAIRS

Use the auxiliary wheels to move the Stairmate Major to the next stair flight or the unloading area.

The Stairmate Major cannot operate on a flat surface unless the platform is returned to its original horizontal position.



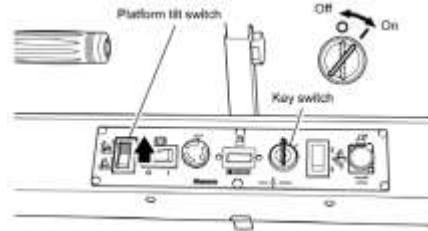
If you are going to unload Stairmate Major, set the parking brake and follow the unloading procedures.

9 Descending Stairs

PREPARING TO DESCEND STAIRS

Position the Stairmate Major so that it is at right angles to the stairs.

Put the key switch on the control panel in the ON position (I) and press the upper part of the platform tilt switch until the platform is tilted back as far as it will go.



The platform of the Stairmate Major will tilt, bringing it into the correct position for going down the stairs.

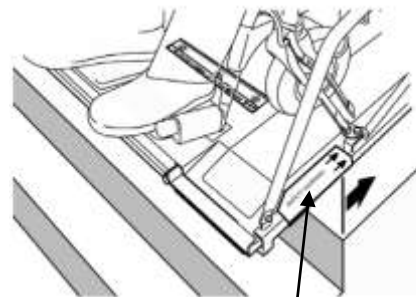
The Stairmate Major will not go down when the drive thumb buttons are pressed unless the floor is tilted as far as it will go.

When there is not much room on the landing, make sure that the warning mark on the bright yellow labels on the platform does not protrude over the edge of the stairs.



WARNING

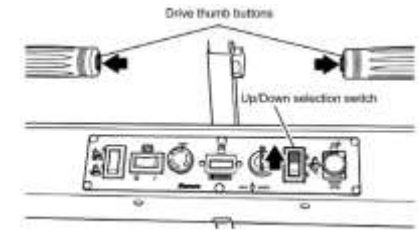
If you push the Stairmate Major too far towards the edge of the stairs, past the warning mark on the bright yellow labels on the platform, the front castor wheel could drop off the landing onto the stairs. Use extreme caution when rolling Stairmate Major near the edge of the stairs.



Yellow warning label

DRIVEING OUT TO STAIR EDGE

Press the Up/Down selection switch to DOWN and then press the drive thumb buttons on both handles simultaneously to Drive Stairmate Major forward to the edge of the stairs.



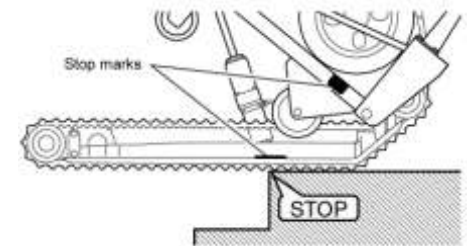
Use the bright orange stop mark sights on the handrails and the platform deck to determine the STOP MARK location as you drive the Stairmate Major forward.

Stop Stairmate Major when the STOP MARK is aligned with the top stair nose.



WARNING

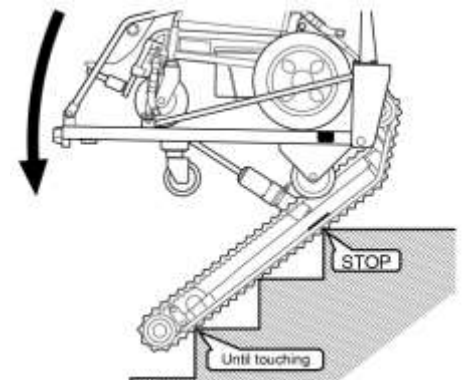
Always stop the Stairmate Major when the STOP MARK is aligned with the top stair nose. Never drive Stairmate Major past this point. This could result in a sudden weight shift forward. The operator could lose control of the Stairmate Major.



TILT STAIRMATE MAJOR ONTO STAIRS

Stairmate Major is now stopped at the edge of the stairs. The STOP MARK is aligned with the top stair nose. Now lift up on the operating handles to tilt Stairmate Major up and forward until the tracks are resting completely on the stairs.

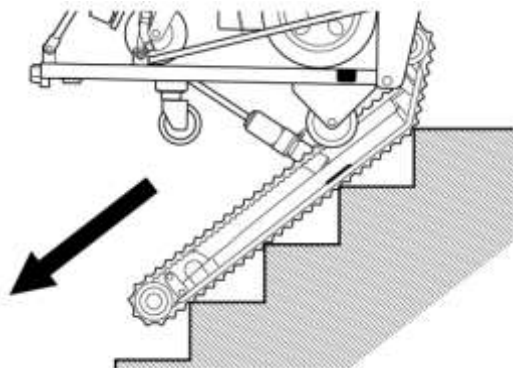
At this point the Stairmate Major should be balanced so very little force will be required.



This manoeuvre is always done manually

DESCENDING THE STAIRS

Once the tracks are touching the stairs and Stairmate Major is stable, press the drive thumb buttons on both handles simultaneously to go down.



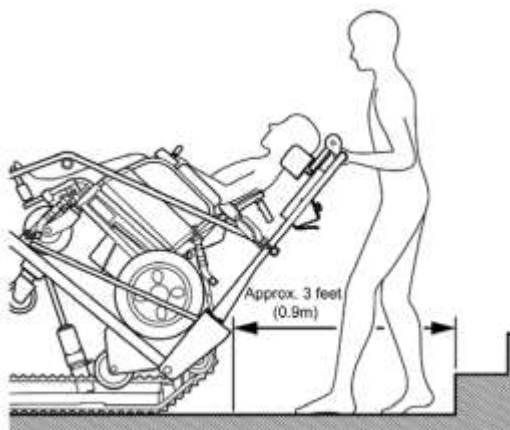
MOVING ONTO THE LOWER LANDING

When you reach the landing at the bottom of the stairs, continue to press the drive thumb buttons and Drive Stairmate Major forward about 3 feet (0.9 m) from the base of the stairs before stopping.



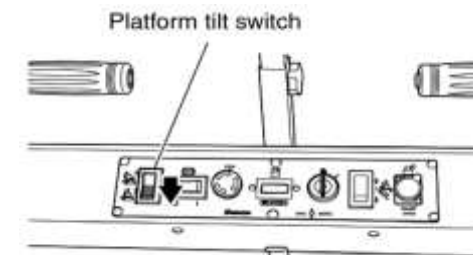
WARNING

When you drive out onto the landing, the weight of the passenger will shift back towards the operating handles. Be prepared for this. You may need to lift up slightly on the handles until the platform is tilted to the horizontal position.



RETURN PLATFORM TO HORIZONTAL POSITION

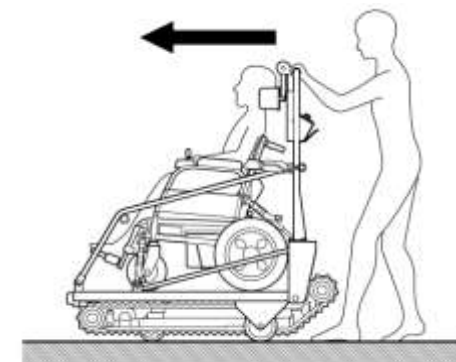
Once Stairmate Major is a safe distance away from the stairs, press the lower part of the platform tilt switch to return the platform to the horizontal position.



MOVE AWAY FROM STAIRS

Use the drive wheels to operate the Stairmate Major on a flat surface. The Stairmate Major cannot operate on a flat surface unless the platform is returned to its original horizontal position.

If you are going to unload Stairmate Major, set the parking brake and follow the unloading procedures.



10 Maintenance

BATTERIES

Turn the key switch OFF and remove the key when the batteries are being charged and at all other times except when the Stairmate Major is being used.

If the key switch is left in the ON position, the batteries will discharge overnight and you will not be able to use the Stairmate Major the next day.

After using, always recharge the batteries before putting Stairmate Major away. Charging the batteries may take a long time so you must do this if you want to be able to use the Stairmate Major the next day. The batteries will last longer if they are charged on a regular basis.

If the Stairmate Major is not to be used for a long time, make sure the batteries are fully charged before Stairmate Major is put away. Failure to do so could result in the batteries completely discharging. This will shorten battery life.

If the Stairmate Major is not being used the batteries should still be recharged at least once a month, even if they are fully charged before the Stairmate Major is put away.

RUBBER CRAWLER TRACKS

If any oil or slippery fluids gets on the tracks, it should be wiped off immediately.

If dirt or wax from the floor was build up on the tracks, clean with a cloth dampened with warm water and mild detergent.

Do not use solvents or other strong cleaning fluids on the tracks. You could damage the rubber and shorten track life.

Check for any cracks or wear and if you find any, stop using the Stairmate Major immediately.

Check the track tension periodically and adjust using the procedures on the following pages.

SAFETY COMPONENTS AND SAFETY WARNING LABELS

Check the integrity of the seatbelt and wheelchair tie-down straps each time you use Stairmate Major. Ensure the anchor points are securely fastened and that there are no cuts or tears in the strap material.

The safety warning labels are important references. If a label becomes damaged so that it is no longer legible, it should be replaced. Replacement label kits are available.

Routine care and maintenance will greatly extend the life of your Stairmate Major.

Please perform the following checks regularly to ensure safe and proper functioning of your Stairmate Major. Routine care and maintenance will prevent problems from occurring in the future.

STAIRMATE MAJOR MAINTENANCE CHECKS

	Parts to check		What to check	Solution to problems
Electrical parts	Control panel	Key switch	Normal function.	Replace
		Up/Down select switch	Normal function.	Replace
		Platform tilt switch	Normal function.	Replace
		Parking brake switch	Normal function.	Replace
		Battery indicator	Normal function.	Replace
		Emergency stop button	Normal function.	Replace
		Drive thumb buttons	Normal function.	Replace
	Seatbelt	Wiring faults and twisting.	Adjust or replace	
	Relay box below operating handle	Wire couplers for damage or missing.	Adjust or replace	
		Receptacle undamaged.		
Drive unit	Crawler tracks	Wear or cracks.	Replace	
		Tension.	Adjust	
		Pitch error.	Adjust	
	Gearboxes	Unusual noises.	Replace	
		Damage.	Replace	
	Motors	Unusual noises.	Replace	
	Sprockets	Damage.	Replace	
	Idler	Damage.	Replace	
Hydraulic cylinder	Unusual noises, oil leaks or damage.	Replace		

MAINTENANCE CHECKS (cont'd)

	Parts to check	What to check	Solution to problems
Drive Frame	Front castor wheel	Wear or damage.	Replace
	Rear auxiliary wheels	Wear or damage.	Replace
	Operating handle	Deformities or damage.	Replace
	Ramp	Deformities or damage.	Replace
	Handrails	Deformities or damage.	Replace
	Platform deck	Deformities or damage.	Replace
	Headrest	Deformities or damage.	Replace
	Wheelchair tie-down straps	Deformities or damage.	Adjust or replace
	Battery pack	Battery case	Damage.
Socket is not damaged.			Replace
Batteries		Capacity, cracks or damage.	Replace
Battery charger	LED lamps	Normal function.	Replace
	Charging plug	Damage.	Replace
	Charging switch	Normal function.	Replace
	Output fuse	Continuity	Replace
	Wiring	Continuity & Condition	Correct or replace
Others	Various screws	Any loose or missing screws.	Tighten or fit new screws



WARNING

When you do these maintenance checks and find any problems (abnormalities, faults or damage) do not use

Stairmate Major until the problem has been corrected. This could be dangerous.

If you are not sure about what to do or are unable to correct the problem, please contact Baronmead.

ADJUSTING TRACK TENSION

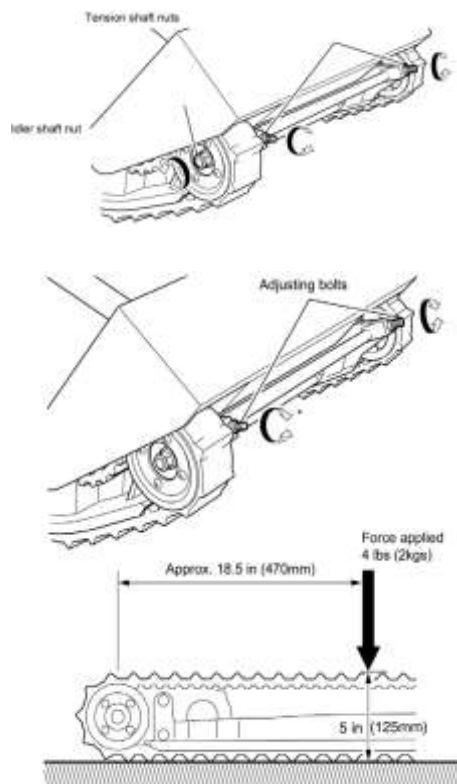
Tilt the platform of the Stairmate Major and loosen the idler shaft nuts and tension shaft nuts (on both sides).

Use the adjusting bolts to adjust the tension of the tracks.

Turn the adjusting bolts in a clockwise direction to increase tension.

The upper part of the track should be approximately 5 inches (125mm) above the ground when a force of approximately 4.4 lbs (2 kg) is applied to a point approximately 18.5 inches (470mm) from the centre of the driving sprocket shaft. Force applied 4.4 lbs. (2 Kg)

After adjusting the tension, tighten the tension shaft nuts and idler shaft nuts securely.

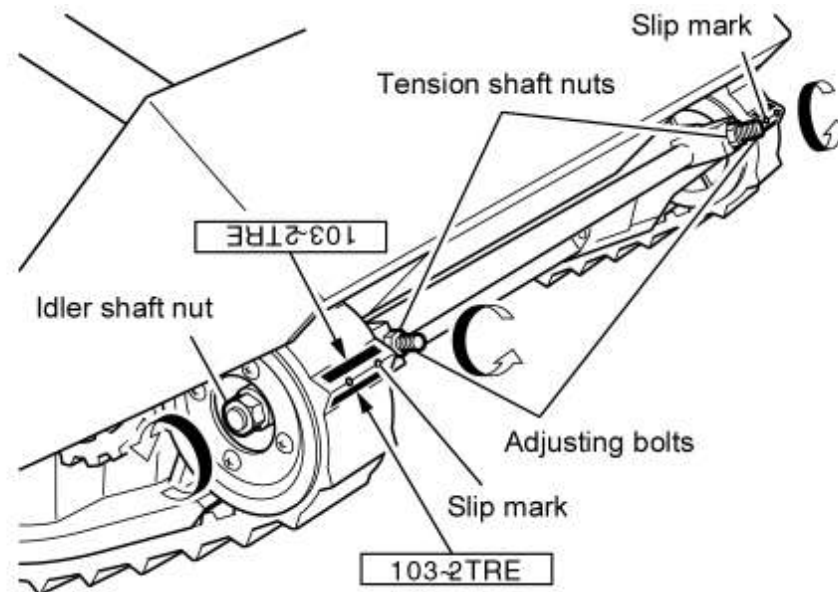


WARNING

The tracks will come off if they are too loose. If they are too tight they will place a greater load on the motors and shorten the life of the batteries. Adjust so that both sides are at the same tension or you may not be able to move the Stairmate Major in a straight line.

CORRECTING TRACK ALIGNMENT PROBLEMS

If the tracks are not properly aligned, the Stairmate Major will not be able to go up or down stairs smoothly.



Put the platform in the horizontal position and with the parking brake OFF, loosen the idler shaft nuts and tension shaft nuts (on both sides).

Loosen the adjusting bolts and align the tracks so that the ID marks on both tracks are in the exact same place, as shown in the drawing to the right.

Re-tension the tracks in accordance to the instructions in the previous section.

REPLACING THE TRACKS

Remove the rear auxiliary wheels.

Loosen the idler shaft nuts and tension shaft nuts. Turn the adjusting bolts in an anti-clockwise direction and take out the four machine screws to remove the side rings.

Then, with the platform tilted, let the track go completely slack and take it off sideways.

Follow the same procedure in reverse to fit new tracks.

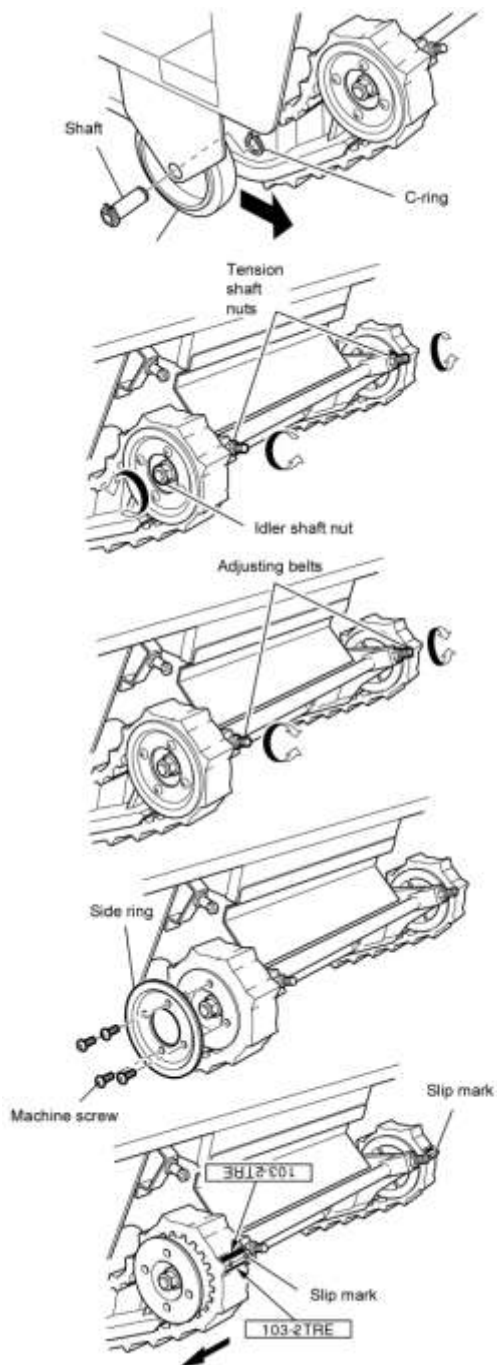
Align and tension the tracks following the instructions in the previous sections.



Safety Warning

WARNING

The tracks are like car tires. They must be replaced when worn down. When you can no longer see the ID marks, it is time to replace the tracks.



11 Replacement Parts

Over the course of the life of your Stairmate Major, certain parts may break or be damaged. Important safety items such as the Stair Slope Indicator or the Operator Training Video may be misplaced or lost.

To ensure the safe and reliable operation of your Stairmate Major, broken parts and lost safety items should be replaced immediately. Safety warning and training materials should always be with the unit or available for reference by both trained and new operators.

Please contact Baronmead if your Stairmate Major requires service or if you require training.

To ensure prompt supply of the correct parts or materials please reference the part numbers and descriptions shown below. Refer to the Component Identification table on page 4 of this Manual for further assistance.

COMMON PARTS, SAFETY ITEMS AND TRAINING MATERIALS

Part Description	Quantity Required
Stair slope indicator	1
Battery charger	1
Owner's Manual	1
Paint, touch-up, 300 ml, white	N/A
Seatbelt, female end with buckle & switch	1
Auxiliary wheel, rear	2
Auxiliary wheel, front castor	1
Crawler track, rubber	2
Battery cell, replacement, 12 VDC	2
Battery pack, complete, 24 VDC	1
Switch, drive thumb button	2
Switch, parking brake	1
Switch, up / down selection	1
Switch, platform tilt	1
Warning label kit, all labels	1

12 Warranty

ONE YEAR LIMITED WARRANTY

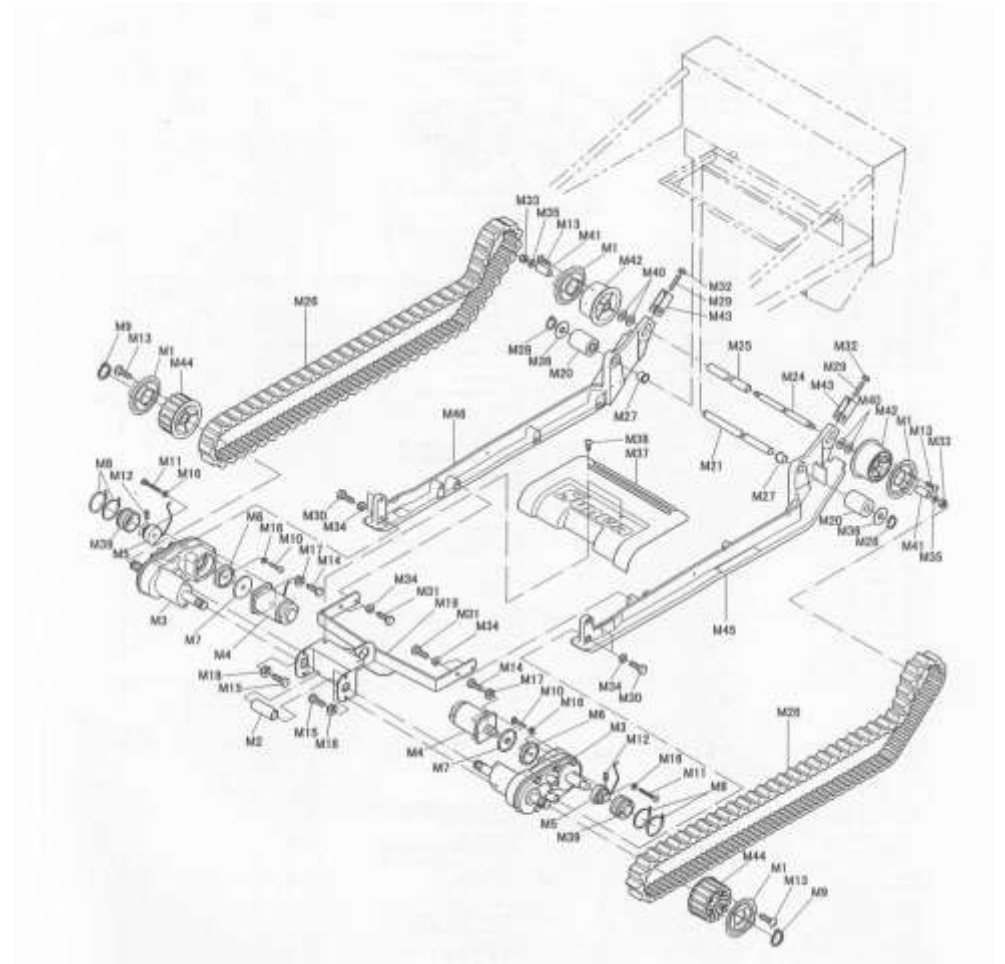
Baronmead warrants the Stairmate Major TRE-52 to be free of defects in materials and workmanship under normal use and service for a period of one year from the date of purchase, reasonable wear and tear excluded. Proof of purchase showing the purchase date is required to validate the warranty.

This Warranty does not extend to any Stairmate Major unit that has been subjected to misuse, neglect, accident, modifications, or damage from fire, lightning, or water, or used in violation of the instructions furnished, nor units repaired or altered by any other than an authorized Baronmead dealer.

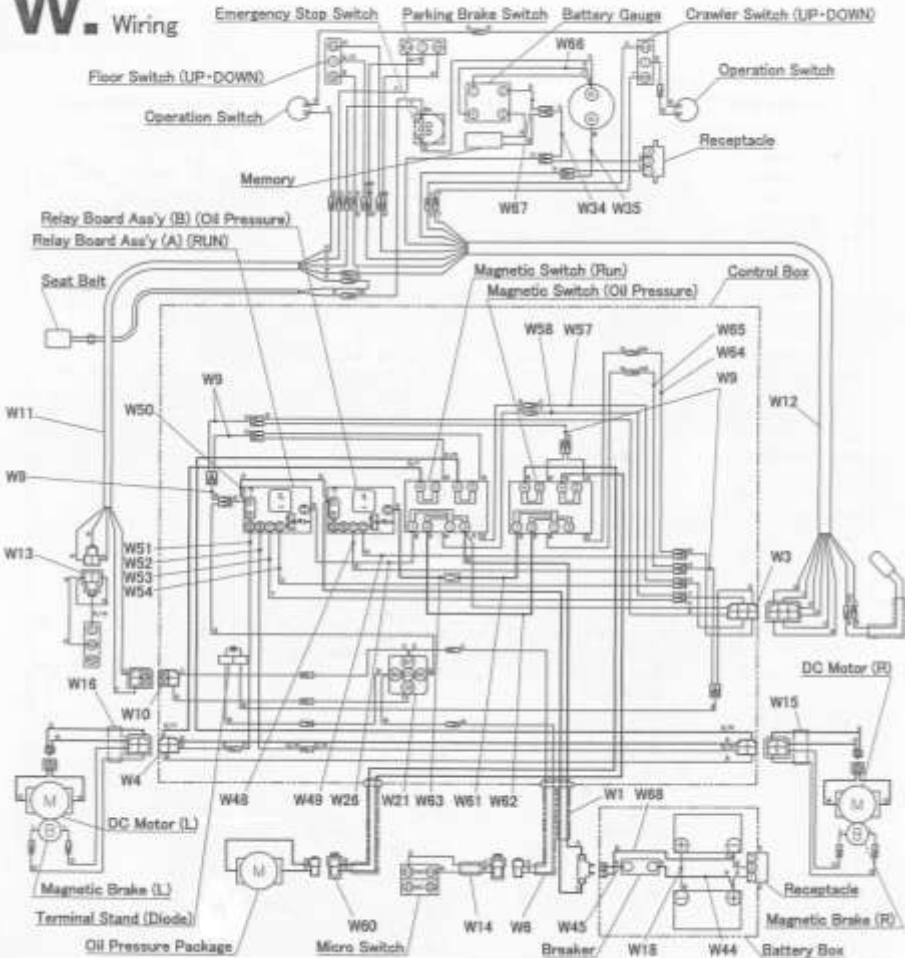
Baronmead's liability hereunder is limited to repair and replacement only. Transportation and local labour charges are not covered. Baronmead accepts no liability for any loss or damage resulting from the use or misuse of Stairmate Major, whether such loss or damage is direct, indirect or consequential. All other express or implied warranties, statutory or otherwise, are excluded.

THANK YOU!

Thank you for purchasing your Baronmead Stairmate Major TRE-52. We welcome your comments on this product or any of the related instructional material.



Wiring



Part no.	Part name	Qty	Part no.	Part name	Qty
W 1 - FA16-A5-B3-7	Loom (A)	1	W48-FA16-A5-B3-C36-3	Loom (C)	1
W 2 - FA16-A5-B3-9	Loom (C)	1	W49-FA16-A5-B3-C36-4	Loom (D)	1
W 4 - FA16-A5-B3-10	Loom (D)	1	W50-FA16-A5-B3-C40-2	Loom (A)	1
W 6 - FA16-A5-B3-12	Loom (F)	1	W51-FA16-A5-B3-C40-3	Loom (B)	1
W9-FA16-A5-B3-15	Loom (I)	5	W52-FA16-A5-B3--C40-4	Loom (C)	1
W10-FA16-A5-B3-16	Loom (J)	1	W53-FA16-A5-B3-C40-5	Loom (D)	1
W11-FA16-A6-5	Loom (A)	1	W54-FA16-A5-B3-C40-6	Loom (E)	1
W12-FA16-A6-6	Loom (B)	1	W57-FA16-A5-B3-47	Loom (M)	1
W13-FA16-A6-7	Loom (C)	1	W58-FA16-A5-B3-48	Loom (N)	1
W14-FA16-A6-8	Loom (D)	1	W60-FA16-A5-B3-8	Loom (B)	1
W15-FA16-A6-9	Loom (E)	1	W61-FA16-A5-B3-13	Loom (G)	1
W16-FA16-A6-10	Loom (F)	1	W62-FA16-A5-B3-14	Loom (H)	1
W18-FA16-A5-B2-6	Cable (B)	1	W63-FA16-A5-B3-C35-2	Loom (B)	1
W21-FA16-A5-B3-4	Relay Ass'y (B)	1	W64-FA16-A5-B3-45	Loom (K)	1
W26-FA16-A5-B3-C40-1	Loom	1	W65-FA16-A5-B3-46	Loom (L)	1
W34-FA16-A6-B1-9	Loom (C)	1	W66-FA16-A5-B1-7	Loom (A)	1
W35-FA16-A6-B1-11	Loom (E)	1	W67-FA16- A6-B1-21	Loom (F)	1
W44-FA16-A5-B2-5	Cable (A)	1	W68-FA16-A5-B2-29	Battery, connector (B)	1
W45-FA16-A5-B2-28	Battery connector (A)	1			