

AFFORDABLE WHEELCHAIR LIFTS

Model KCSPM3648

Installation Manual

SAFETY

Safety is paramount. If you have a question or concern about safe installation or operation please give Affordable Wheelchair Lifts a call at (757) 524-3420

Use common sense when installing or operating this equipment.

The installer and operator are responsible for the safe operation of this equipment.

It is your responsibility to know and comply with all applicable legal codes and regulations regarding your wheelchair lift.

Misuse of this equipment can cause serious injury or even death.

WARRANTY WARNING

Do not open any control boxes, motors, or hand control devices. The product warranty will be void if these components are tampered with. Do not attempt to alter component wiring or adjust or modify the structure of the product in any way or the warranty will be void. Any repair or replacement of wheelchair lift parts must be performed by authorized personnel.

LUBRICATION

This product is designed to be maintenance free. The lift motors are permanently lubricated and sealed – no additional lubrication is required. The anti-friction pads need no lubrication.

Note: Throughout this document this is used as a caution symbol:

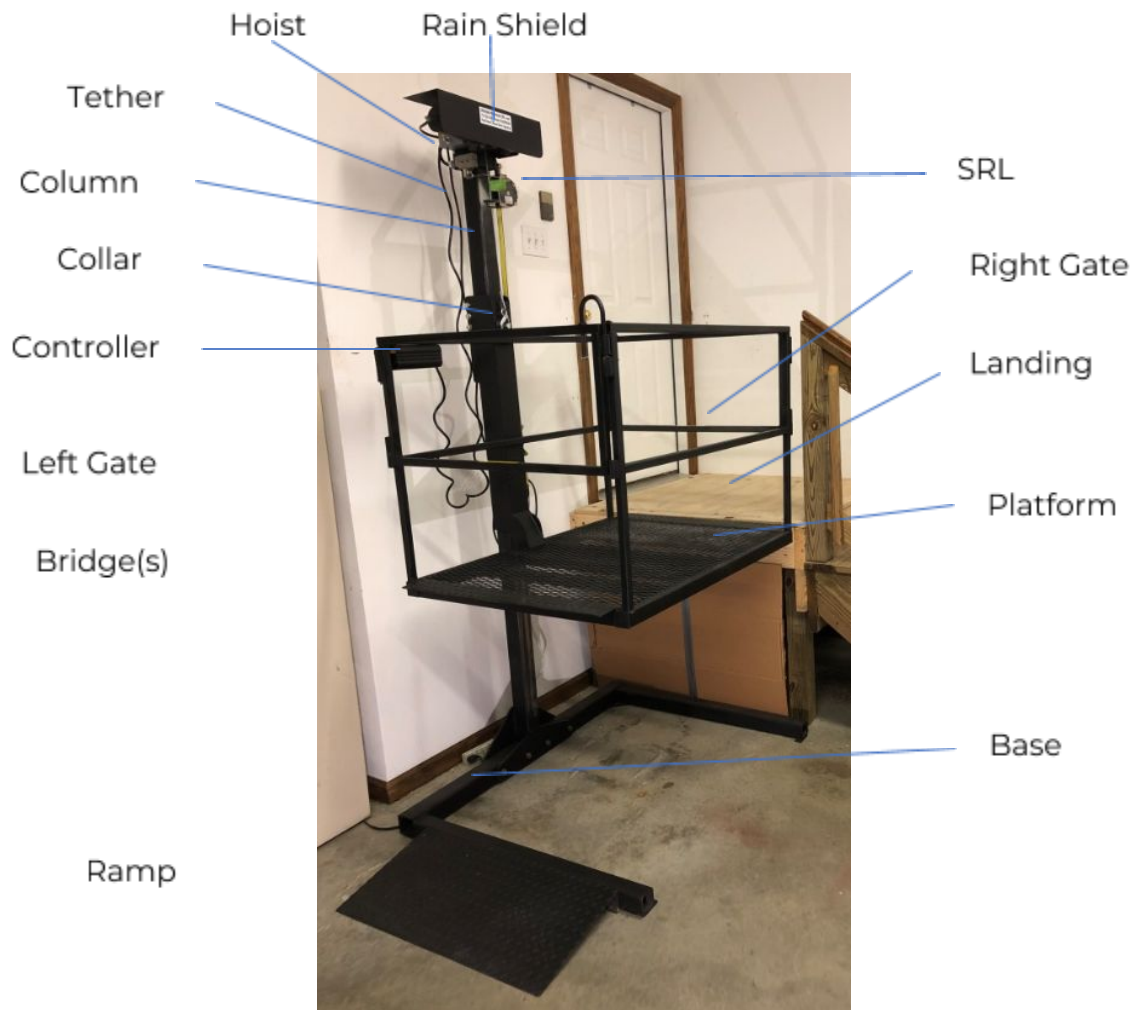


WARNING!

FOR OPTIMAL WHEELCHAIR LIFT OPERATION, USE A GROUNDED ELECTRICAL CIRCUIT. FAILURE TO USE A GROUNDED ELECTRICAL CIRCUIT COULD COMPROMISE SAFETY OR CAUSE PRODUCT MALFUNCTION.

Lift Components Illustration

This photo might not exactly match your particular lift.



ORIENTATION

Front, Back, Right and Left - The Column is located on the back side of the lift. The side of the lift opposite the back is the front. Right and left are determined when you are outside of the lift facing it from the front.

Lift Components Table

Base	U-Shaped bars that support the entire unit.
Platform	The platform is the metal, gated enclosure that carries the passenger up and down
Gate(s)	A removable and reversible gate is attached to each side of the platform. Each gate has a latch.
Bridge(s)	A bridge is the flat diamond plate metal surface attached to each side of the platform.
Column	The column supports the hoist and the Self-Retracting Line (SRL)
Landing	The level area from which you enter and exit the lift platform when the platform is at its designated rise height.
Collar	The collar attaches to the platform and slides up and down the column. A safety guard covers the collar.
Hoist	The hoist raises and lowers the platform. AC and DC powered hoists are available. In exterior applications, a rain shield protects the hoist from weather.
Controller	The controller houses the Up and Down switches for the lift.
Ramp	This is an optional diamond plate metal surface to provide a smooth entrance to the platform.
Rain Shield	The rain shield keeps rain from the hoist motor.
Tether	Connect the controller to the hoist.
SRL (Self-Retracting Line)	Serves as a safety backup in case the lifting mechanism fails.

Introduction

Congratulation on your purchase of a new wheelchair lift from Affordable Wheelchair Lifts! This lift has been quality engineered with design features to assure safety and reliability then installed and operated properly. We sincerely hope that this lift will help you accomplish the things that are important to you and those you love.

This manual is designed to help guide you in the safe and secure installation of your new wheelchair lift. This manual covers only the installation of a fully assembled unit. You may wish to also consult the Owner's Manual and the Assembly Instructions.

NOTE: If your new wheelchair lift arrived unassembled and crated, as is common for general freight carrier delivery, please refer to the Assembly Manual to properly assemble the unit before proceeding with the instructions in this manual.

Excerpt from the Order Confirmation Email:

The customer understands that he/she is responsible for this wheelchair lift's proper and safe installation and operation. This includes but is not limited to:

- Making sure the lift is installed in a safe location by personnel adequate to the task.
- Making sure that the electrical power is adequate and supplied in a safe manner. Outdoor and garage lifts need to use a GFI circuit.
- Making sure the lift and its installation complies with any applicable regulations and that any lift operators are properly trained.
- Recognizing that Affordable Wheelchair Lifts' delivery technicians will deliver the lift and are not necessarily qualified or licensed to do related electrical, masonry, carpentry or other contractor type work.
- Addressing any applicable taxes.
- Inspecting the lift periodically to insure that it is safe to operate.

Regarding lift operators and users, the customer understands that:

- The customer is responsible for making sure that the person(s) operating the lift has/have been instructed in its use pursuant to the Owner's Manual and are mentally capable of safely operating the lift.
 - This may mean restricting access to the lift controller(s) to prevent unqualified persons from operating the lift.
-

-
- **Persons with dementia or who are susceptible to mental confusion are not qualified to operate the lift**, though a qualified caregiver may operate it for them.
 - **Persons incapable of recognizing that the lift has reached ground level are not qualified to operate the lift**, though a qualified caregiver may operate it for them.
 - The manufacturer is not responsible for injuries or damages of any sort resulting from operator error.

Planning Your Installation

While installation circumstances, such as indoor versus outdoor, can require some common-sense tweaks to your lift installation, most all of the steps and considerations outlined here apply to any lift installation.

First, the installation site should be flat and level, free of debris and as accessible as possible. The lift should sit on a solid surface (ground floor, concrete, asphalt, etc.) or substantial pavers

The landing area also should be flat and level. Any needed modifications to landing railings such as cutting away a railing section or installing a railing safety gate should be made prior to or during installation. Toe shear protection should already be installed.

Toe shear protection should be installed if it has not already been done.

Before Toe Sheer Protection

With Toe Sheer Protection



Children and pets should be excluded from the area during installation.

The amount of electrical power needed to run the lift depends upon which hoist motor you have chosen. Most require 15 amps. GFI circuits should be used where appropriate.

Most customers prefer the lift be oriented for straight-through travel from the ramp onto the Platform to the landing to inside the home (or onto the second floor). Sometimes this is not practical.

If your lift is equipped with multiple wireless control buttons, be aware these devices work over a 50-foot radius. Someone with a wireless controller who is out of sight of the lift can activate it. Always unplug your lift before cleaning or maintaining it to prevent someone inadvertently using a call button to activate the lift and accidentally causing injury or death.

We recommend that, if possible, the Column side of the lift be placed closest to a nearby wall. If bracing is desired (or required) then this positioning will make bracing easier. Generally speaking, your lift will not require bracing if it is rising to a landing of 48 inches or less in height, although you may desire bracing for added stability. For lifts traveling over 6 foot or to a second floor (96 inches or more), we would suggest bracing is mandatory.

The following two photos demonstrate two different “lift platform-to-landing” orientations, as well as an unbraced (left photo) and a braced (right photo) installation, as evidenced by the brace bar above the rain shield.



Gates (Re-positioning)

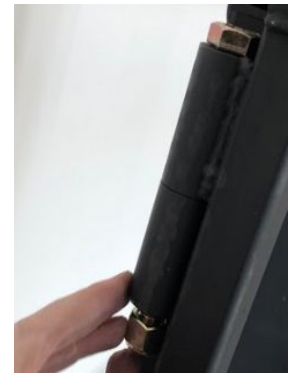
Each gate comes pre-attached to the Platform. While gate and latch styles may vary, each gate can hinge on either the right or the left side of the Platform. The default is to hinge on the left side when entering the Platform from either direction.

This gate is hinged on the left side.



You can detach a gate easily and switch the side it hinges from using the appropriate wrenches or sockets.

To change the hinge side for a gate, remove the two bolts and lock-nuts to detach the gate. Position the gate hinges the way you want them, then re-insert and fasten the bolts to re-attach the gate.



Rehinge each gate, as needed, to best suit your particular installation site.

Positioning Your Lift

The Lift can be moved with a dolly or a crowbar and some good old-fashioned muscle. For positioning the lift in a tight space, it might be helpful to invest in some detachable wheels for moving the platform base. (Contact Affordable Wheelchair Lifts for wheels.)



Regardless of your method, it's time to move your lift to its final position. Don't worry about leveling or bracing the unit just yet. We'll cover that later.

First, we want to adjust the unit's positioning relative to the landing and set the lift's maximum platform height.

Once we have the lift in its desired position, slowly raise the platform to the height of the landing. The goal here is to accomplish two things. First, we want the edge of the Bridge to be around $\frac{1}{4}$ " from the toe shear board all along the Platform's travel, and especially at the landing. Reposition the lift accordingly.

Secondly, we want to set the maximum Platform height for the lift – the height level with your landing. This adjustment is made by raising or lowering the nut on the metal rod of the Limit Switch Actuator. (See Below)



This metal rod, nut and accompanying plastic tubing is located behind the Safety Guard and all adjustments can be made without removing the Safety Guard. The metal rod can just slide out once you remove the plastic rod.

With the plastic rod seated on the metal rod, carefully use the controller to raise the platform until the limit switch stops it. Measure your current Platform height. Then do one of the following steps. *(Repeat this process until the Platform stops at the height you desire.)*

If the Platform stops at your desired height, then tighten the nuts to each other to prevent them from moving. You have now completed the step of adjusting the lift's maximum height.

If the Platform stops lower than you want, then shorten the limit switch actuator to allow the Platform to go higher:

- Determine how many inches higher you want the Platform to actually go.
 - Lower the platform a bit to give you some slack to work with.
 - (You can do the steps below without removing the Safety Guard. The metal rod can just slide out once you remove the plastic rod.)
 - Shorten the limit switch actuator by the number of needed inches by lowering the nuts on the metal rod.
 - Do not lower the nuts any lower than 2" from the lower end of the metal rod, or the rod will not be stable in its slot.
 - If you cannot lower the nuts enough you can always easily cut the plastic rod with a knife or saw to be slightly shorter. Do not accidentally cut the plastic rod too short or else you will need to either replace the plastic rod or purchase a longer metal rod.
-

If the Platform stops higher than you want, then lengthen the limit switch actuator to force the Platform to stop lower:

- Determine how many inches lower you want the Platform to actually go.
- Lower the platform a bit to give you some slack to work with.
- (You can do the steps below without removing the Safety Guard. The metal rod can just slide out once you remove the plastic rod.)
- Lengthen the limit switch actuator by the number of needed inches by raising the nuts on the metal rod.
- Do not raise the nuts any higher than 2" from the upper end of the metal rod, or the upper rod will not be stable on the lower rod.
- If you cannot raise the nuts enough you can always replace the plastic rod with a longer one. The upper rod is simply 1" diameter EMT pipe that can be bought at any hardware store and easily cut to a different length. It is pressure fitted onto the trigger plate, so you can easily attach the trigger mechanism to your new pipe. (If your lift arrived assembled and did not include assembly instructions, please visit our website at www.affordablewheelchairlifts.com for additional information.)

Leveling Your Lift

Use a level and shims to shim the base so that the lift is level. The most critical point to adjust the leveling is between the edge of the Bridge of the Platform and the landing.



Position the Entry Ramp

The ramp sits on the floor (ground) next to one of the base arms.



A “U” shaped metal connector can optionally be used to keep the ramp from moving over time. This connector rests on its back with one of its arms on the inside of the base’s arm and the other of its arms on the inside of the ramp’s back.

Brace Your Lift

Bracing is required for lifts with more than 4’ of rise. We can supply the bracing kit, or you can make your own. Wall mounted lifts and lifts of more than 6’ require a bracket cap to support more robust bracing.

Affordable Wheelchair Lifts sells a bracing kit that is customized for your situation. Contact us.



Anchoring Your Lift (Optional)

Anchoring your lift to the floor or to a concrete pad is optional. There are four anchor points built in to the lift base should you desire to anchor your lift.



Do not anchor the lift down until you are sure of the final lift locations. Make sure the gates are properly working, the unit is level and interacting with the landing railings first!



Drilling Note - If you are securing your lift to a concrete pad (or garage floor), then drill deep enough so that the anchor can be hammered down into the pad (floor) once the lift is removed.

AFFORDABLE WHEELCHAIR LIFTS
Installation Manual

© Affordable Wheelchair Lifts
2884 Hidden Lake Drive
Williamsburg, Virginia 23185-8020
Phone (757) 524-3420 · Fax 708.253.1632

www.AffordableWheelchairLifts.com
