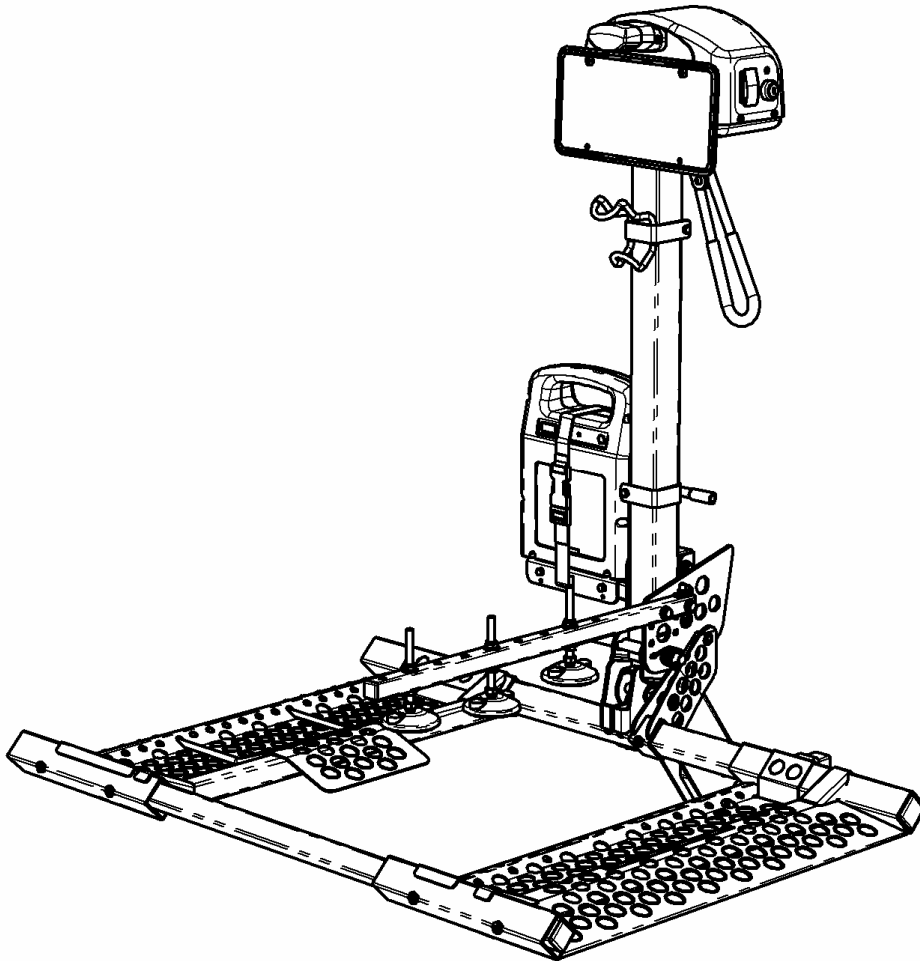




CAR-GO-MATE 225 (Ultra-Lite) LIFT
(CLASS II & III HITCH)
INSTALLATION PROCEDURES
OWNER'S MANUAL
WARRANTY



These instructions are provided to assist you in the installation of the Car-Go-Mate 225 lift. If you require further assistance, our trained staff is ready to provide you with quick, efficient service. Call our toll-free number:

1-800-755-2856

Monday thru Friday, 8:00 AM – 6:00 PM (Except holidays) E.S.T
Before calling please have your customer number or order number available.

TABLE OF CONTENTS

CLASS II HITCH APPLICATION WARNING! 3
REQUIREMENTS AND CONSIDERATIONS BEFORE INSTALLATION 4
 HITCH REQUIRED 4
 VEHICLE RECOMMENDATION 4
SAFETY FIRST 5
TOOLS AND SUPPLIES REQUIRED FOR INSTALLATION 6
GENERAL LIFT INSTALLATION 6
HOLD-DOWN ARM INSTALLATION & ADJUSTMENT 8
TIE-DOWN STRAP INSTALLATION & ADJUSTMENT 11
CONNECT POWER 13
 BATTERY OPTION 13
 DIRECT WIRING THE LIFT MOTOR 13
 Starting at the Car Battery: 13
 WIRING THE LICENSE PLATE LIGHT 14
 WIRING THE LIFT MOTOR WITH SWING-AWAY 14
SWING-AWAY INSTALLATION 15
TRAINING THE END-USER 16
OPERATION – WITH HOLD-DOWN ARM 16
 LOADING THE SCOOTER: 16
 UNLOADING THE SCOOTER: 17
OPERATION – WITH TIE-DOWN STRAP 18
 LOADING THE SCOOTER: 18
 UNLOADING THE SCOOTER: 19
SWING-AWAY USE 20
MAINTAINING THE LIFT 21
TROUBLESHOOTING 21
LIFT FAILURE 22
Lift Warranty 24
 What and Who is Covered and for How Long 24
 Limitations 24
 Other Conditions/Disclaimer 24
 What the Customer Must Do 24
 Warranty registration Information 24

FOR YOUR RECORDS

NAME OF INSTALLER _____	SALESPERSON _____
ADDRESS _____	TELEPHONE _____
PURCHASE DATE _____	LIFT SERIAL # _____
CUSTOMER # _____	ORDER # _____

CLASS II HITCH APPLICATION WARNING!

A Class II (1.25" square tongue bar) outside lift is NOT suitable for use on all vehicles, even though the vehicle may be suitably adapted or adaptable for the installation of a commercially available Class II (1.25" square box style) trailer hitch. The Class II trailer hitch itself may be rated to withstand the required maximum load; however, your specific vehicle (passenger car, mini-van, mid-sized SUV) MAY NOT. It is not uncommon for certain lightweight vehicles to be capable of having a Class II trailer hitch installed, and may even state in a trailer hitch brochure or similar publication of its adaptability. However, the tongue hitch weight (not the towing or pulling weight) may only be 150 lbs. or less. **THIS IS TOTALLY UNSUITABLE AND UNSAFE.**

You must first confirm your vehicles suitability to accept a Class II trailer hitch and the vehicles suitability to withstand the required tongue hitch load and/or consult the manufacturer of your specific vehicle for its safe and proper tongue hitch load capability. You must make sure your specific vehicle has the required maximum tongue hitch load-bearing capability before installing and using this lift. See "HITCH REQUIRED" section of this manual for additional information.

A Class II lift must be mounted to a Class II hitch using the Class II (1.25" square) hitch tongue bar shipped with your lift (See FIGURE 1). If you have a Class III (2" square) hitch, a Class III tongue bar, such as the one shown in FIGURE 1, must be provided. Please contact the lift manufacturer if your lift does not match your vehicle's hitch.

WARNING: DO NOT MOUNT A CLASS II TONGUE BAR INTO A CLASS III HITCH USING ANY COMMERCIALY AVAILABLE ADAPTER. USING AN ADAPTER COULD RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE LIFT, THE SCOOTER, AND VEHICLES.

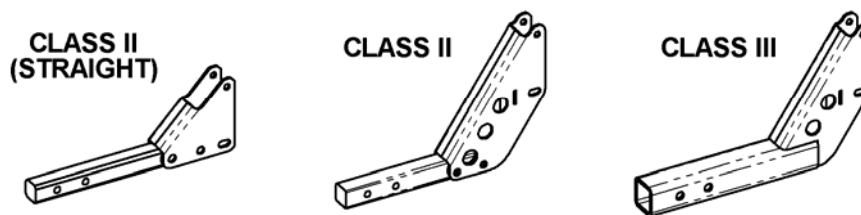


FIGURE 1: HITCH TONGUE BAR OPTIONS

The lift manufacturer is NOT responsible for any misuse, intentional or unintentional, and therefore, NOT responsible for any damages to your vehicle or any personal injury, including death, to you and/or any other individual or individuals as a result of this incorrect usage.

REQUIREMENTS AND CONSIDERATIONS BEFORE INSTALLATION

HITCH REQUIRED

Your vehicle will require a box style Class II (1.25" square) or Class III (2.00" square) trailer hitch. (See additional application warnings on page 2.) The maximum allowable scooter weight will depend on your hitch and your vehicle's Tongue Weight capacity. The lift itself weighs 84 LB and has a rated capacity of 225 LB. The battery option adds 11 LB and the swing-away option adds 28 LB. This means the CGM Scooter Lift can function with scooters up to 225 LB resulting in a maximum combined tongue weight of 309 LB (320 LB with battery option or 348 LB with combined battery and swing-away options). **The lift weight and scooter weight combined must not exceed your hitch's or your vehicle's tongue weight capacities.** Typically a Class II hitch has a rated capacity of 300 LB and Class III hitch has a rated capacity of 500 LB or greater. However, many vehicles, when outfitted with a hitch, have an allowable tongue weight that is **less** than the capacity of the hitch. Hitch requirements may be less if your scooter weighs less than 225 LB. See your hitch and vehicle owner's manuals or contact their manufacturers for the specific ratings for your hitch and vehicle.

WARNING: EXCEEDING THE LIFT'S, HITCH'S OR TRANSPORTING VEHICLE'S MAXIMUM TONGUE WEIGHT CAPACITIES COULD RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE LIFT, THE SCOOTER, AND VEHICLE.

VEHICLE RECOMMENDATION

We recommend that load-adjustable shock absorbers and/or heavy-duty springs be installed to compensate for the additional weight of the lift and your scooter. Your vehicle's tire pressure and headlights may also need to be adjusted to compensate for the added weight.

WARNING: DUE TO THE ADDITIONAL WEIGHT AND LENGTH IN THE REAR OF THE VEHICLE, YOUR VEHICLE MAY HANDLE DIFFERENTLY. EXERCISE EXTRA CARE WHEN DRIVING IN INCLEMENT WEATHER AND UNTIL YOU ARE AWARE OF THE HANDLING CHANGES TO YOUR VEHICLE.

We recommend that you always use some form of securing device (i.e. Bicycle pad lock, Chain and lock, etc.) when you leave your unit on the lift.

SAFETY FIRST

1. **The scooter must have the brake engaged and be securely attached to the lift during transport.** The hold-down arm or tie-down strap, when properly adjusted and maintained, is intended to provide clamping pressure on the scooter. Security of the scooter and lift should be checked before each use. **The hold-down arm or tie-down strap must be firmly against the scooter's floorboard, wheels properly seated in the lift platform's wheel wells, and all tires properly inflated.**

WARNING: FAILURE TO ENGAGE THE BRAKE AND SECURELY ATTACH THE SCOOTER TO THE LIFT DURING TRANSPORT COULD RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE LIFT, THE SCOOTER, AND VEHICLES.

2. The lift is equipped with a 30 AMP auto-resetting circuit breaker on the wire harness. It is located in the vehicle near the battery end of the power cable. The circuit breaker protects the lift against direct shorts due to scratched or broken wires contacting the vehicle's frame. The circuit breaker also protects the motor from overloads. If the circuit breaker trips, wait for it to reset (about one minute) and try to operate again. If the circuit breaker blows continually, have the unit inspected by the installer or by an authorized service center to determine and correct the problem.

WARNING: DO NOT ATTEMPT TO BYPASS THE FUSE AS THIS MAY CAUSE SERIOUS DAMAGE TO THE LIFT AND/OR CAUSE A FIRE.

3. The lift has a maximum weight lifting limit of 225 pounds.

WARNING: COMBINED SCOOTER AND LIFT WEIGHT SHOULD NOT EXCEED THE TONGUE WEIGHT CAPACITY OF YOUR HITCH OR VEHICLE. DO NOT EXCEED THE MAXIMUM CAPACITY OF CARRIER OR SERIOUS INJURIES OR DEATH MAY OCCUR.

If you have any questions on the weight of your scooter, please contact your lift installer or scooter manufacturer.

4. The lift has been designed to lift scooters. It has not been designed or intended to lift any other object. Lifting people or objects other than scooters may be dangerous.
5. Keep the area underneath of the lift clear at all times (i.e. objects, pets, people, etc.).
6. The lift has a hold-down arm that automatically clamps the scooter to the lift. It is recommended that a secondary strap (not provided) be used to secure the scooter to the lift platform during extended transport or transport over rough and winding roads.
7. When transporting your scooter, slow down below 5 MPH and proceed with caution over speed bumps, potholes, and railroad crossings.

TOOLS AND SUPPLIES REQUIRED FOR INSTALLATION

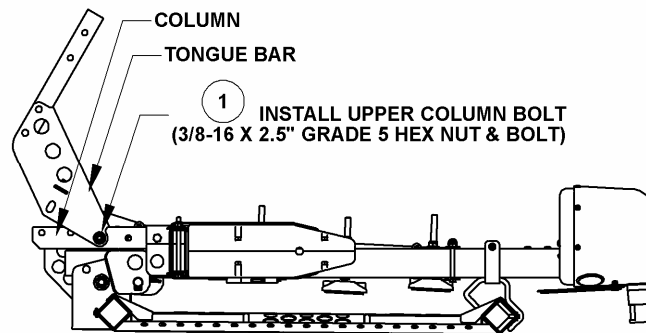
Ratchet wrenches
Open-end wrenches
Torque wrench

Allen wrenches
Philips screwdriver

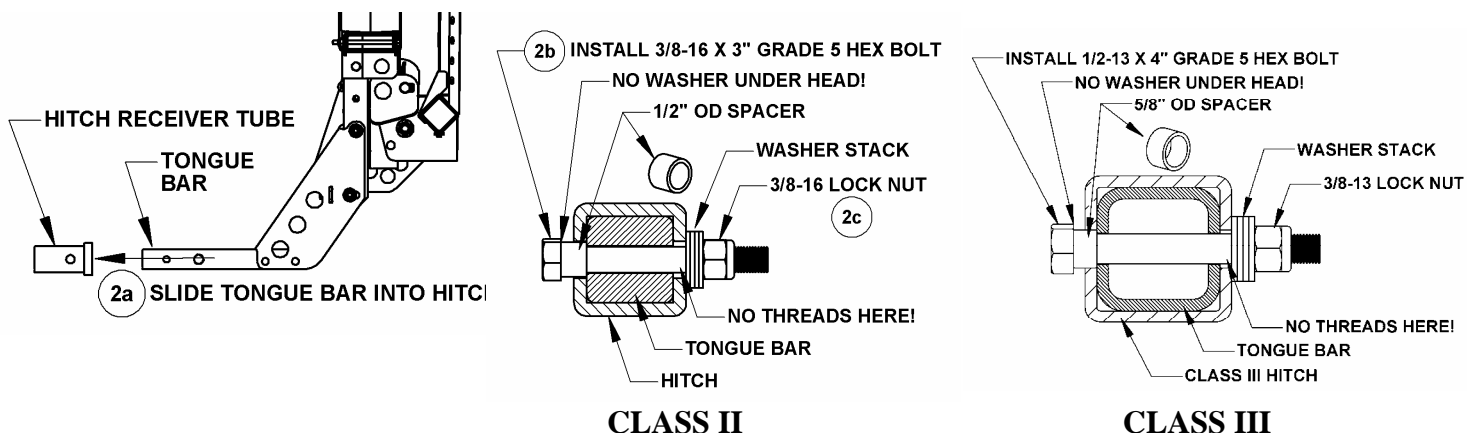
GENERAL LIFT INSTALLATION

The lift has been partially assembled for your convenience. Follow these steps to adapt the lift for your specific scooter:

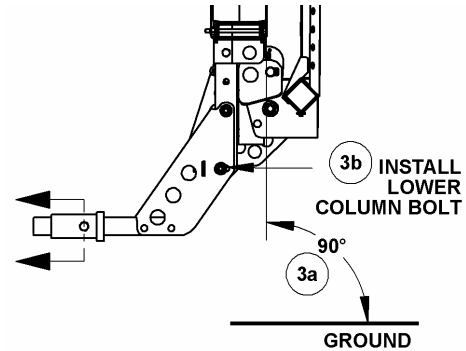
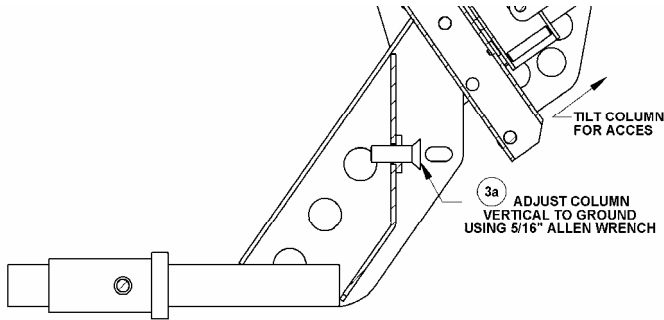
- 1) **MOUNT TONGUE BAR TO LIFT:** Remove the lift from the carton and attach the tongue bar to the bottom of the column. Use the 3/8-16 x 2.5" hex head grade 5 bolt, washers, and Nylock hex nut in the top mounting hole of the tongue bar as shown. (Use 2 washers under the hex head to reduce the length of bolt extending from the reverse side.) The bottom bolt will be installed later. The tongue bar can be mounted to the column at one of two positions and should be mounted such that the vehicle's ground clearance is adequate and that the platform is no more than 26" above the ground. The illustration shows the tongue bar in the lowest position.



- 2) **INSTALL TONGUE BAR IN HITCH RECEIVER:** Insert the tongue bar into the vehicle's Class II (1.25") hitch as shown. The tongue bar should be inserted as far into the hitch as possible to position the lift close to the vehicle. Install the hex head grade 5 bolt and tubular spacer into the assembled hitch and tongue bar **EXACTLY** as shown. (It is sometimes necessary to make the column adjustments in step 3 before installing the hitch bolt since the lift can be slid out of the hitch to access the adjustment screw.) The tubular spacer allows the tongue bar to be drawn tight against the inside of the hitch receiver. To assure that the spacer seats uniformly under the bolt head and on the tongue bar, **do not use any washer under the head of the bolt.** On the far side, install as many washers as needed to assembly the nylock hex nut. This bolt length and washers combination allows only the non-threaded portion of the bolt to be positioned within the load bearing areas of the hitch. Tighten the nylock hex nut to approximately 50 FT-LB to avoid excessive distortion of the tubular spacer.



- 3) **ADJUST COLUMN VERTICAL:** Adjust the lift column tilt by using the 1/2-13 flat head bolt in the tongue bar as shown. The bolt can be adjusted using a 5/16" Allen wrench. The column can be tilted as shown below to gain access to the adjustment screw. Screw the bolt "out" to angle the column toward the vehicle and "in" to angle the column away from the vehicle. One turn will result in about 1 degree of tilt. The lift's column should be vertical. Install the bottom 3/8-16 x 2.5" hex head grade 5 bolts, washers, and Nylock hex nuts into the bottom mounting hole on the tongue bar. Remember to use 2 washers under the hex head to reduce the length of bolt extending from the reverse side. (For lifts with a tie-down strap, do not install the bottom bolt yet. Refer to "TIE-DOWN STRAP INSTALLATION & ADJUSTMENT" later in the installation.)

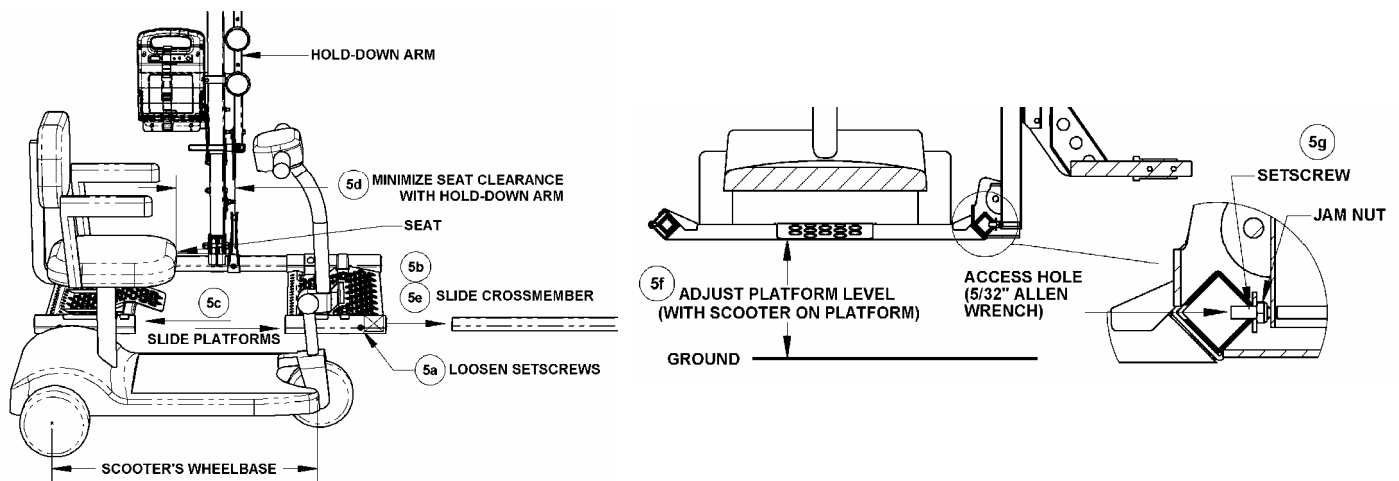


- 4) Install the lift's electrical wiring. See "CONNECT POWER" portion of this manual.

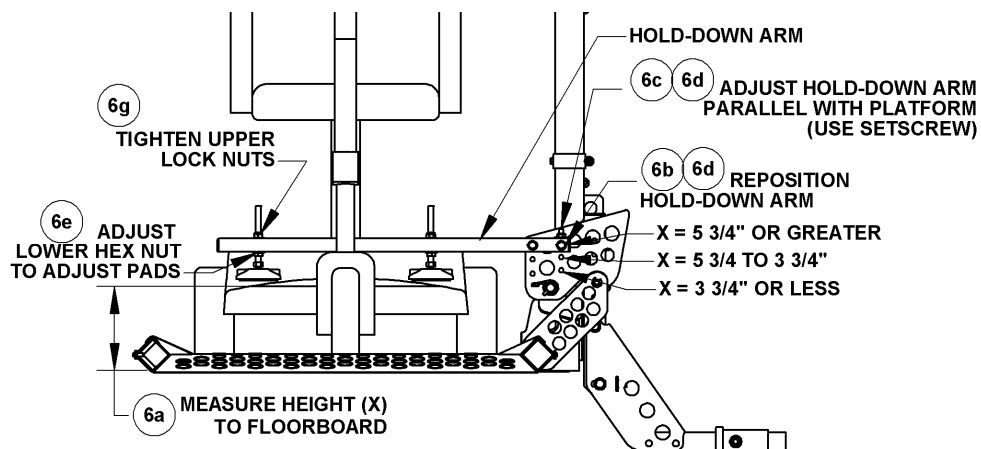
HOLD-DOWN ARM INSTALLATION & ADJUSTMENT

If your lift is equipped with an automatic hold-down arm, use the following procedure for specific installation & adjustments.

- 1) **SET PLATFORM SPACING & LEVEL:** The lift is shipped with the platform fully assembled for walk-on from the left side. Some adjustments may be required to accommodate your particular scooter. Proper platform adjustments locate the scooter with wheels positioned within each wheel well and the hold-down arm clear to clamp down on the scooter's floorboard.
 - With the scooter aligned in front of the lowered lift, loosen all 8 platform locking setscrews (4 long in the back & 4 short in the front) using a 1/8" Allen wrench and slide/remove the platform cross member. Slide the platforms to align with the scooter's wheelbase while maintaining minimum hold-down arm clearance with the seat. Re-install the cross member and tighten all setscrews.
 - Using a 5/32 x 1.5" Allen wrench, adjust the loaded platform parallel to the ground using the platform's 2 leveling setscrews inline with the lift column. Each setscrew has a jam nut on the back side of the platform to lock the setscrews' position. These nuts must be loosened using a narrow 1/2" socket before making any adjustment. The scooter may need to be removed during the adjustment. Make sure both setscrews are adjusted equally and that the jam nuts are re-tightened.

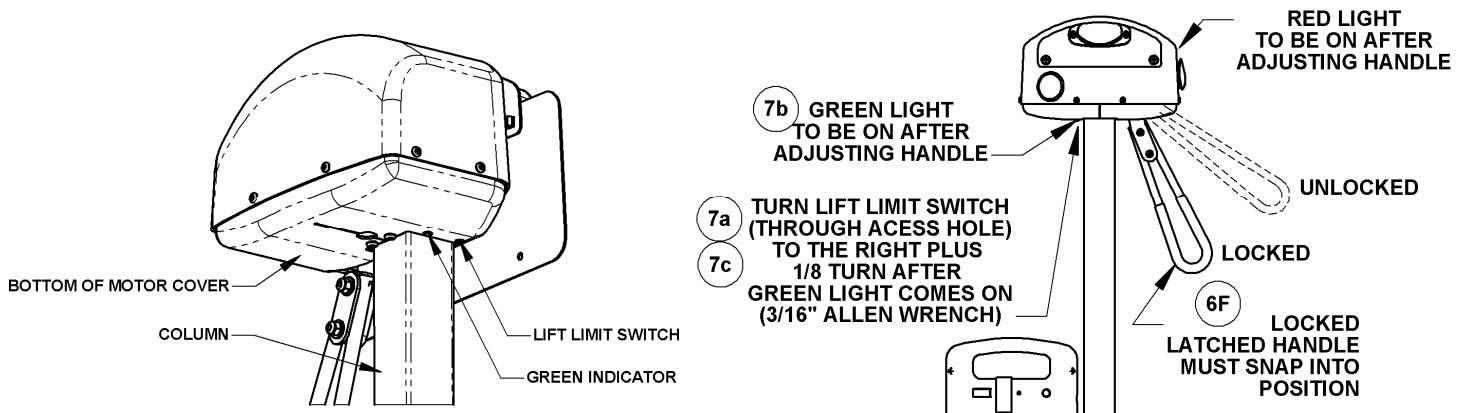


- 2) **POSITION AND SET HOLD-DOWN FEET:** Proper setup and adjustment of the hold-down arm is critical in securing the scooter to the lift. The following procedure maximizes the clamping force and must be followed carefully. The lift is shipped with the hold-down arm in its highest position and must now be configured for your scooter. Adjust the hold-down arm such that the scooter is clamped firmly, the red locking handle has the proper locking action, and the indicator lights function.
- Lower the lift and walk the scooter onto the platform from the left. Determine the proper location for the hold-down pads for your scooter by first looking at the structure directly under the scooter's floorboard. The hold-down pads must be moved to the appropriate holes in the hold-down arm directly above the most structural areas of the floorboard. At least 2 pads should be used and spread as far apart as possible on the floorboard as possible. On some scooters the structural area is directly in the middle of the floorboard in which case the third pad is needed at this location. When relocating the pads, keep the lower nut screwed all the way down to the base of the threaded stem as shipped.
 - Measure the "X" height of the scooter's floorboard from the platform surface. With the scooter lifted, reposition the hold-down arm height if necessary (3 positions available). While lifting up on the loosened hold-down arm, adjust the hold-down arm angle down relative to the platform (Turn the setscrew at the end of the hold-down arm). The arm should be approximately parallel to the platform once the hold-down pads are adjusted in the following steps and the scooter clamped to the platform. Tighten the mounting bolts and jam nut.
 - With the scooter lifted, fine-tune the clamping pressure by lowering the lift slightly and adjusting the lower hex nut on the hold-down pads directly above the most structural areas of the floorboard. The pad is extended by screwing the lower nut upward on the stem. (Initially the pad may need to be turned 10-12 turns before generating any significant pressure on the floorboard.) Raise the platform until it stops. Try to engage the red locking handle. **The red locking handle must "snap" into its locked position so that it does not disengage during transport.** This lock along with the associated red indicator light above the key switch assures that the lift is fully raised and that clamping force is maintained during transport.
 - Repeat the pad adjustment until the red locking handle "snaps" into the locked position.
 - Adjust the others pad(s) to contact the floorboard with minimal pressure and tighten all lock nuts on the pad stems. (The red and green lights, discussed later, may not be on at this point in the installation.)
 - Adjust the hold-down arm stop bar up or down the column so that the pads are retracted as far as possible when the hold-down arm is in the upper position.



- 3) **SET DRIVE TUBE LIMIT SWITCH TO ACHIEVE “GREEN LIGHT”**: Adjust the lift’s internal switch to assure that the lift stops at the appropriate height while protecting the lifts electrical systems.
- With the scooter lifted, the power on, and the red locking handle in the locked position, check the green light on the bottom side of the motor cover.
 - If the light is on initially, turn the adjustment screw to the left until the light goes off.
 - Now turn the adjustment screw to the right until the green light just comes on.
 - Turn the screw about 1/8 additional turn to the right.
 - Test the adjustments: Unlock and lower the lift a couple inches. Raise the lift until it stops. The green light on the bottom of the motor cover should be on. Engage the red locking handle. The red light above the key switch should be on.
 - If the red locking handle and hold-down arm loosen after a break-in period, repeat Steps 2 & 3.

WARNING: FAILURE TO SECURELY ATTACH THE SCOOTER TO THE LIFT AND FULLY ENGAGE THE RED LOCKING HANDLE DURING TRANSPORT COULD RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE LIFT, THE SCOOTER, AND VEHICLES.

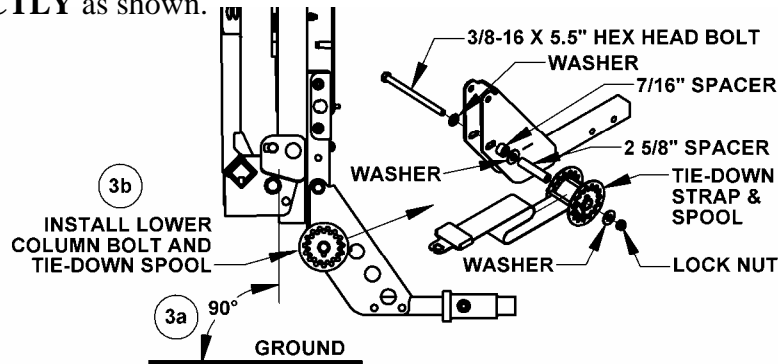


- 4) Relocate the transporting vehicle’s license plate from the vehicle to the lift’s motor cover using the 1/4-20 x 0.50” screws provided.

TIE-DOWN STRAP INSTALLATION & ADJUSTMENT

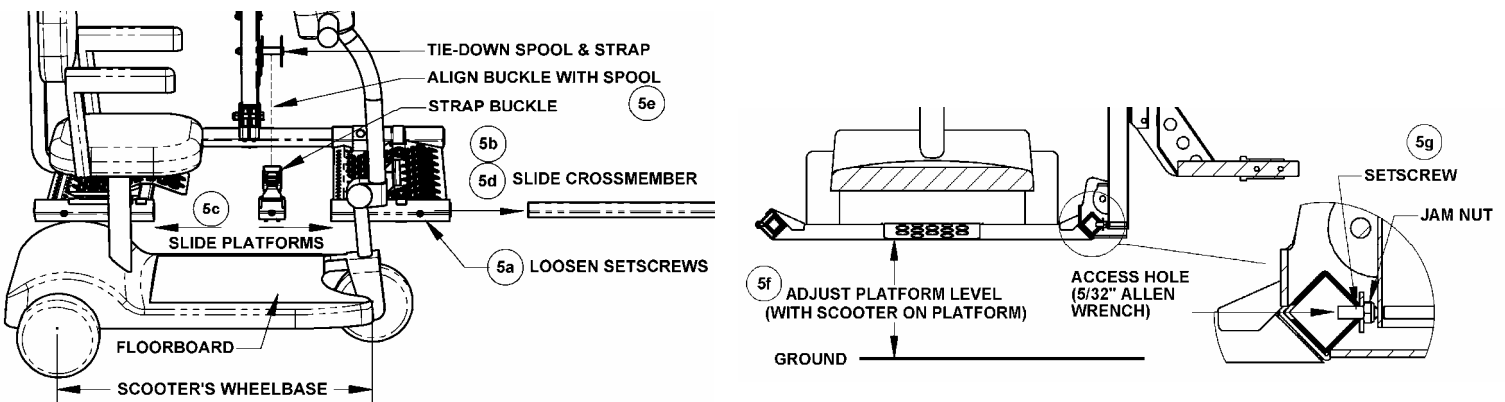
If your lift is equipped with a tie-down strap, use the following procedure for specific installation & adjustments.

- 1) **INSTALL THE STRAP & SPOOL ASSEMBLY:** Install the lower column bolt & tie-down strap spool assembly **EXACTLY** as shown.

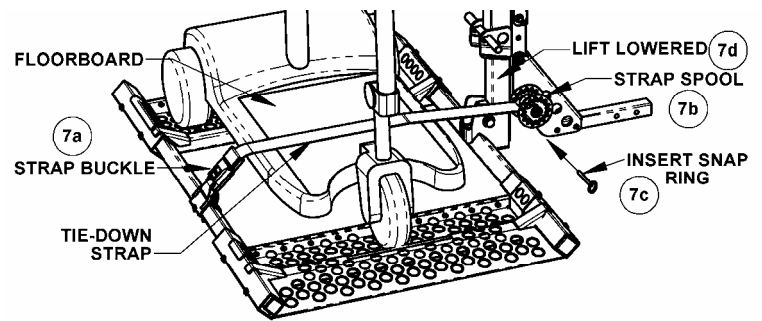
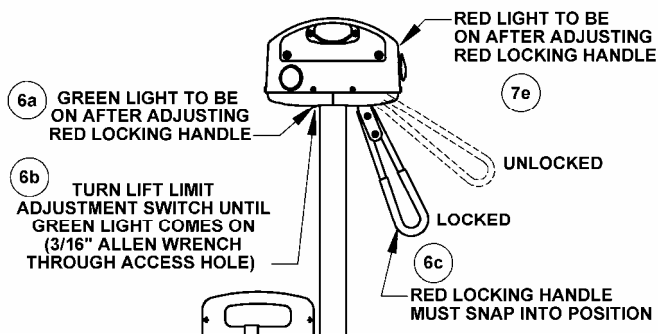


- 2) **SET PLATFORM SPACING & LEVEL:** The lift is shipped with the platform fully assembled for walk-on from the left side. Some adjustments may be required to accommodate your particular scooter. Proper platform adjustments locate the scooter with wheels positioned within each wheel well and the tie-down strap clear to stretch across the scooter's floorboard.

- With the scooter aligned in front of the lowered lift, loosen all 8 platform locking setscrews (4 long in the back & 4 short in the front) using a 1/8" Allen wrench and slide/remove the platform cross member. Slide the platforms to align with the scooter's wheelbase and to align an appropriate point on the scooter with the strap spool. Re-install the cross member and strap buckle. Position the strap buckle to align with the strap spool and then tighten all setscrews.
- Adjust the loaded platform parallel to the ground using the platform's 2 leveling setscrews inline with the lift column. The scooter may need to be removed during the adjustment. Make sure both setscrews are adjusted equally and that the jam nuts are re-tightened.



- 3) **SET LIFT LIMIT SWITCH TO ACHIEVE “GREEN LIGHT” & SNAP:** With the scooter fully lifted, the power on but the strap not buckled, check the green light on the bottom side of the motor cover. If the light is not on, turn the lift limit switch adjustment screw to the right until the light comes on. Push the handle to see if it “snaps” into the locked position. If the handle does not “snap”, the lift adjustment screw will need to be turned to the right. If the force needed to “snap” the handle is too great, the lift adjustment screw will need to be turned to the left. In both cases the lift should be lowered slightly before the adjustment is made and the lift again raised to check the handle.



4) **ADJUSTING THE TIE-DOWN STRAP:**

- With the scooter fully lifted and the power on, insert the strap tongue into the strap buckle. Wind the excess strap onto the spool and insert the snap pin into one of the spool’s perimeter holes to keep the strap from unwinding.
- Lower the platform about 3” and reposition the snap pin to wind up the excess strap. Raise the platform and check the green light on the bottom side of the motor cover. Repeat this procedure to shorten the strap until the green light does not come on. Take care not to damage the scooter by over tightening the strap.
- Lower the platform about 3” and reposition the snap pin back one hole to slightly lengthen the strap. Raise the platform again. The red latching handle should “snap” into the locked position and both the green light and red light above the key switch should be on.

WARNING: FAILURE TO SECURELY STRAP THE SCOOTER TO THE LIFT AND FULLY ENGAGE THE RED LOCKING HANDLE DURING TRANSPORT COULD RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE LIFT, THE SCOOTER, AND VEHICLES.

- 5) Relocate the transporting vehicle’s license plate from the vehicle to the lift’s motor cover using the ¼-20 x 0.50” screws provided.

CONNECT POWER

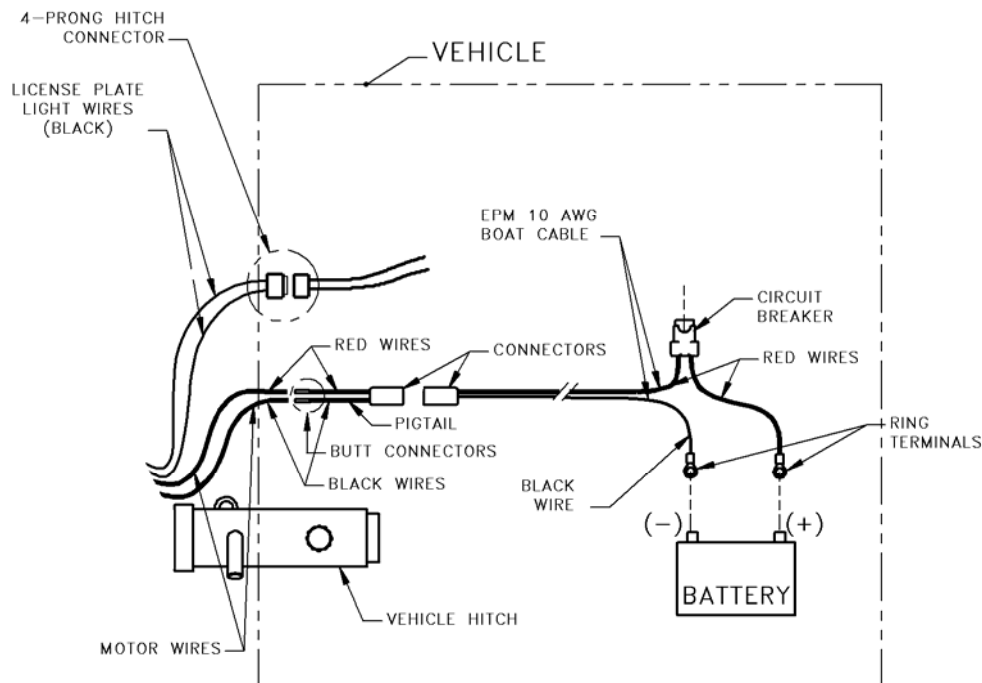
BATTERY OPTION

If your lift has the battery pack option, the only additional wiring that needs to be done is for the license plate light. Follow the “WIRING THE LICENSE PLATE LIGHT” instructions below.

DIRECT WIRING THE LIFT MOTOR

Wiring the lift involves running the supplied wire harness from the battery terminals through the passenger compartment of the vehicle to the rear mounting location. Wiring can also be achieved by going under the chassis of the vehicle using nylon wire ties to secure the wire. Take care not to pinch or nick the wire. Running the wire through the passenger compartment and then concealing it will prove to be the most challenging step of this procedure.

If the harness is not long enough you may add additional 10-gauge wire minimum with a butt connector. Protect this connection from moisture with either heat shrink tubing and/or electrical tape.



WIRING DIAGRAM

Starting at the Car Battery:

- 1) Loosely tie the end of the wire harness with the 30 AMP auto-resetting fuse near the battery. Allow enough slack for the wire to reach the positive terminal.
- 2) Remove the fuse from the wire harness by pulling it straight out of the fuse holder.
- 3) Assuming the battery is in the engine compartment, route the wire through the engine compartment. Avoid moving parts such as carburetor linkages, steering parts, fans, belts, and pulleys. Also avoid hot parts such as exhaust manifolds and pipes. Secure the wire using plastic wire ties or electrical tape.

- 4) Pass the wire through an opening in the vehicle's firewall into the passenger compartment. Usually, the wire can safely pass through an existing rubber grommet on the firewall. If a thorough search does not reveal a through hole, drilling will be necessary. Before you drill a hole in the firewall, make sure to check for objects that might get pierced by the drill bit (heater core, wiring looms, vent cabling, etc.). Wrap the section of wire running through the hole and one inch of wire on either side of the hole, with electrical tape to protect it from chafing. Seal the hole with silicon caulk.
- 5) Route the wire through the passenger compartment to the mounting area – making sure that it will not interfere with vehicle's operation, become pinched or scratched, and is hidden from view. Routing the wire under panels, doorsills and carpeting will help accomplish this task.
- 6) Route the wire in the storage compartment (trunk) so it will not interfere with trunk springs and hinges. Secure the wire as necessary up to the mounting location.
- 7) Attach the red wire with circuit breaker to the positive (+) battery terminal. Attach the black wire with the terminal ring to the negative terminal (-) on the battery.
- 8) Replace the 30 AMP auto-resetting circuit breaker in the wire harness near the battery end.
- 9) Use a portable vacuum cleaner to clean up your vehicle when you are finished.
- 10) Attach the short ring connector (blue wire) to negative battery terminal.
- 11) Using the plastic wire ties provided, fasten the motor wires and license plate wires to the rings provided on the base side of the actuator column.
- 12) Attach the 12" power adapter to the power harness. Crimp the yellow butt connector to the same color wire from the power adapter to the power harness.
- 13) Join the two connectors. The connector on the lift and the connector from the power harness adapter complete the power wire.
- 14) Join the wire harness and pigtail connectors to complete motor wiring.

WIRING THE LICENSE PLATE LIGHT

- 1) Route the two license plate light wires to the vehicle.
- 2) Connect the leads to any running light in the trunk compartment. One lead should be connected to the vehicle's ground.
- 3) Make sure the connections are secure and protected from the weather (i.e. Electrical tape, heat-shrink tube, etc.) Avoid moving parts.

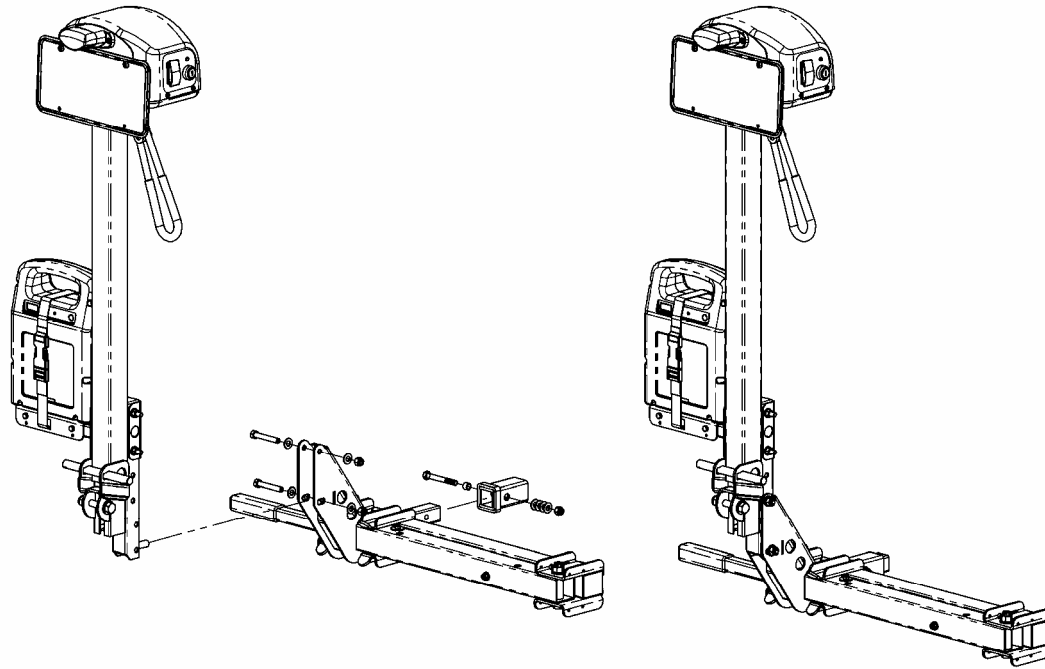
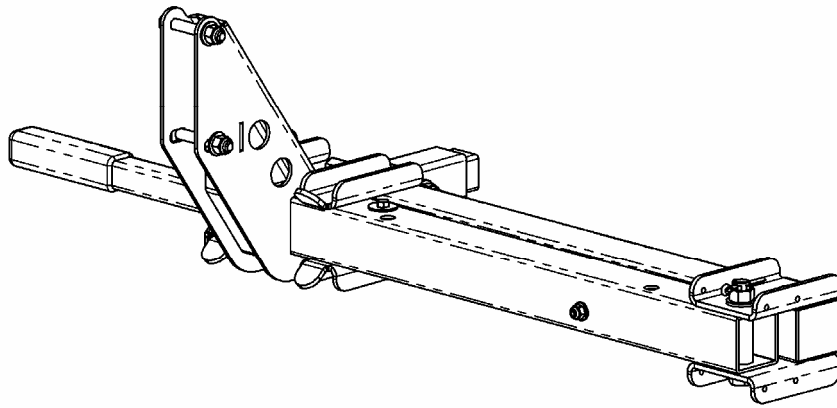
WIRING THE LIFT MOTOR WITH SWING-AWAY

If you purchased your lift with the SWING-AWAY use the jumper wires already threaded through the SWING-AWAY's frame.

SWING-AWAY INSTALLATION

This option enables you to swing the lift away from your vehicle and access either the tailgate, rear doors, or hatch of your vehicle. **If you purchased your lift with the swing-away, you must install it in place of the tongue bar. Follow installation steps 1-3.**

WARNING: DO NOT SWING THE LIFT WITH THE SCOOTER ON THE PLATFORM. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DAMAGE TO THE LIFT AND/OR THE SCOOTER.



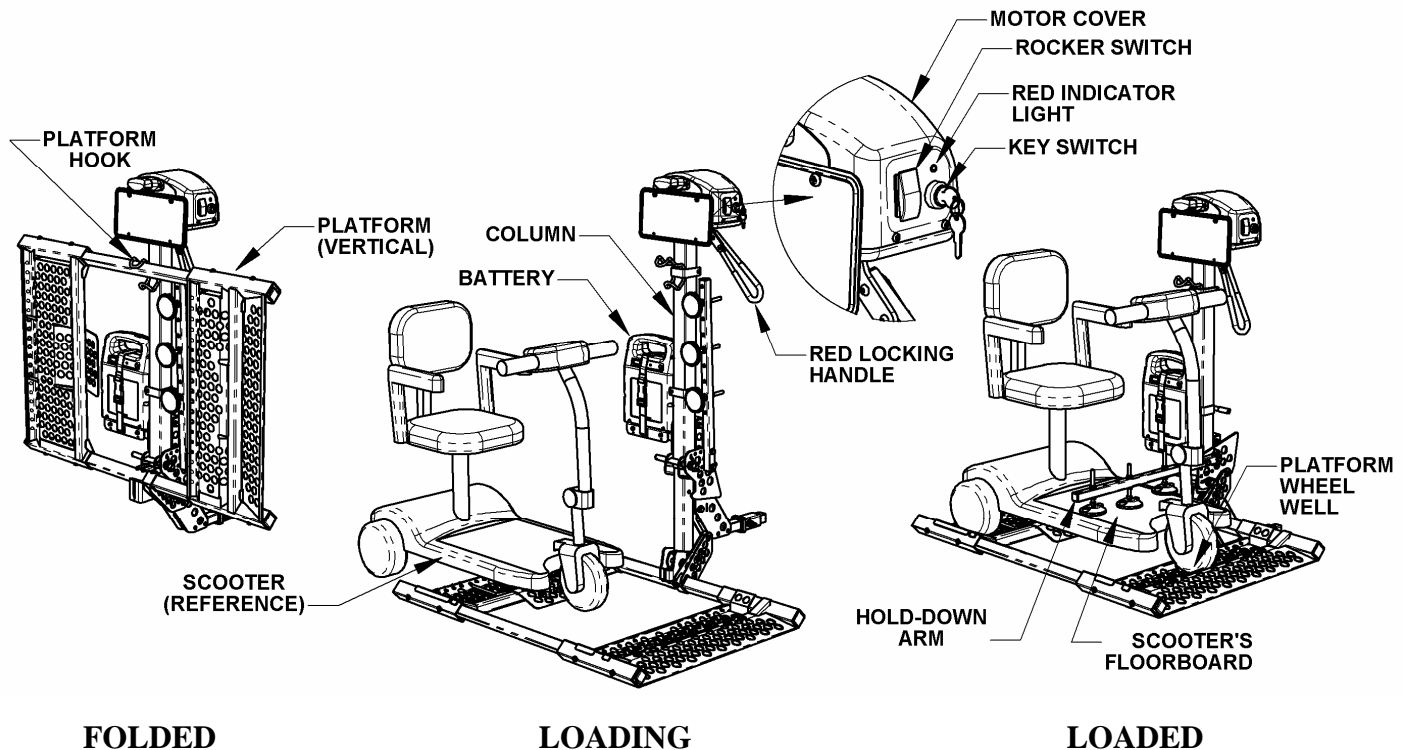
EXPLODED VIEW

ASSEMBLED VIEW

TRAINING THE END-USER

- Review all of the SAFETY ISSUES.
- Explain how the Lift is wired and grounded.
- Explain the location and operation of the Fuse in the electrical circuit.
- Review the OPERATION section of this MANUAL.

OPERATION – WITH HOLD-DOWN ARM



LOADING THE SCOOTER:

- 1) Make sure that all objects are removed from the landing area below the platform.
- 2) Insert the key into the motor cover and turn it to the ON position.
- 3) Pull the red locking handle **fully away from the lift's column**. The lift will not run until the red locking handle is fully disengaged. Depress the DOWN portion of the rocker switch on the motor cover to lower the platform a few inches. (Be careful that the platform does not hang up on the platform hook or the hold-down pads.)
- 4) Manually tilt the platform down from its stored vertical position to its horizontal position.
- 5) Depress the DOWN portion of the rocker switch on the motor cover to further lower the platform. When the platform contacts the ground, release the rocker switch.
- 6) Do not drive the scooter onto the lift. Carefully **walk** the scooter onto the lift platform, nose first, making sure that the wheels of the scooter are aligned and centered on the platform. Always enter the

platform from the left side (driver's side of vehicle). Continue until the wheels rest in the platform wheel wells.

- 7) Remove and store all loose objects. (See scooter owner's manual for brake instructions.)
- 8) Depress the UP portion of the rocker switch to raise and secure the scooter. The scooter is secure when the platform is at the top of its travel and automatically stops.
- 9) Push the red locking handle toward the lift's column. The red indicator light above the key switch will come on when the platform is fully lifted and the red locking handle "snaps" into engagement. This lock along with the associated red light assures that the lift is fully raised and that clamping force is maintained during transport. Check to make sure the hold-down arm is firmly against the scooter's floorboard. If the red locking handle and hold-down arm loosen after a break-in period, have the installer make the necessary adjustment. (See Steps "**HOLD-DOWN ARM INSTALLATION & ADJUSTMENT**" for further detailed instructions.)

WARNING: THE LIFT MUST FIRMLY STRAP THE SCOOTER TO THE PLATFORM WITH THE RED LOCKING HANDLE ENGAGED. FAILURE TO SECURELY ATTACH THE SCOOTER TO THE LIFT DURING TRANSPORT COULD RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE LIFT, THE SCOOTER, AND VEHICLES.

- 10) Turn the key switch to the OFF position and remove the key. If the lift is equipped with the battery power option, its switch may be left ON unless the lift is to be stored for an extended period.
- 11) Check to be sure no loose objects are left on or hanging from the scooter or lift.

UNLOADING THE SCOOTER:

- 1) Make sure that all objects are removed from the landing area below the platform.
- 2) Insert the key into the motor cover and turn to the ON position. (Remember to switch the battery to the ON position if your lift is equipped with the optional battery pack.)
- 3) Pull the red locking handle fully away **from the lift's column**. The lift will not run until the red locking handle is fully disengaged.
- 4) Depress the DOWN portion of the rocker switch on the motor cover to lower the platform to the ground.
- 5) Walk the scooter off the platform, backwards, to the left.
- 6) With the platform empty, depress the UP portion of the rocker switch to raise the platform. Stop a few inches before reaching the top and manually tilt the platform up to its vertical position. Once again, depress UP until the lift stops. Make sure the platform fully engages the platform hook mounted to the column.
- 7) Push the red locking handle toward the lift's column. The red indicator light above the key switch will come on when the platform is fully lifted and the red locking handle engaged.
- 8) Turn the key to the OFF position and remove the key.

OPERATION – WITH TIE-DOWN STRAP



FOLDED

LOADING

LOADED

LOADING THE SCOOTER:

- 1) Make sure that all objects are removed from the landing area below the platform.
- 2) Insert the key into the motor cover and turn it to the ON position.
- 3) Pull the red locking handle **fully away from the lift's column**. The lift will not run until the red locking handle is fully disengaged. Depress the DOWN portion of the rocker switch on the motor cover to lower the platform a few inches. (Be careful that the platform does not hang up on the platform.)
- 4) Manually tilt the platform down from its stored vertical position to its horizontal position. Release the tie-down strap from its buckle and pull the strap out of the path of the scooter.
- 5) Depress the DOWN portion of the rocker switch on the motor cover to further lower the platform. When the platform contacts the ground, release the rocker switch.
- 6) Do not drive the scooter onto the lift. Carefully **walk** the scooter onto the lift platform, nose first, making sure that the wheels of the scooter are aligned and centered on the platform. Always enter the platform from the left side (driver's side of vehicle). Continue until the wheels rest in the platform wheel wells.
- 7) Remove and store all loose objects. (See scooter owner's manual for brake instructions.)
- 8) Depress the UP portion of the rocker switch to raise and secure the scooter. Stop the platform about 3" from the top of its travel. Pull the tie-down strap across the scooter and insert the strap's tongue into the buckle mounted on the platform's front cross member. Continue to raise the platform to the top of its travel and it stops automatically.

- 9) Push the red locking handle toward the lift's column. The red indicator light above the key switch will come on when the platform is fully lifted and the red locking handle "snaps" into engagement. This lock along with the associated red light assures that the lift is fully raised and that strap force is maintained during transport. Check to make sure the tie-down strap is firmly against the scooter's floorboard. If the red locking handle and tie-down strap loosen after a break-in period, have the installer make the necessary adjustment. (See "TIE-DOWN STRAP INSTALLATION & ADJUSTMENT" for further detailed instructions.)

WARNING: THE LIFT MUST FIRMLY CLAMP THE SCOOTER TO THE PLATFORM WITH THE RED LOCKING HANDLE ENGAGED. FAILURE TO SECURELY ATTACH THE SCOOTER TO THE LIFT DURING TRANSPORT COULD RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO THE LIFT, THE SCOOTER, AND VEHICLES.

- 10) Turn the key switch to the OFF position and remove the key. If the lift is equipped with the battery power option, its switch may be left ON unless the lift is to be stored for an extended period.
- 11) Check to be sure no loose objects are left on or hanging from the scooter or lift.

UNLOADING THE SCOOTER:

- 1) Make sure that all objects are removed from the landing area below the platform.
- 2) Insert the key into the motor cover and turn to the ON position. (Remember to switch the battery to the ON position if your lift is equipped with the optional battery pack.)
- 3) Pull the red locking handle fully away **from the lift's column**. The lift will not run until the red locking handle is fully disengaged.
- 4) Depress the DOWN portion of the rocker switch on the motor cover to lower the platform about 3". Release the strap from its buckle and pull the tie-down strap out of the path of the scooter. Continue to lower the platform to the ground.
- 5) Walk the scooter off the platform, backwards, to the left.
- 6) With the platform empty, depress the UP portion of the rocker switch to raise the platform. Stop a few inches before reaching the top. Re-buckle the tie-down strap then manually tilt the platform up to its vertical position. Once again, depress UP until the lift stops. Make sure the platform fully engages the platform hook mounted to the column.
- 7) Push the red locking handle toward the lift's column. The red indicator light above the key switch will come on when the platform is fully lifted and the red locking handle engaged.
- 8) Turn the key to the OFF position and remove the key.

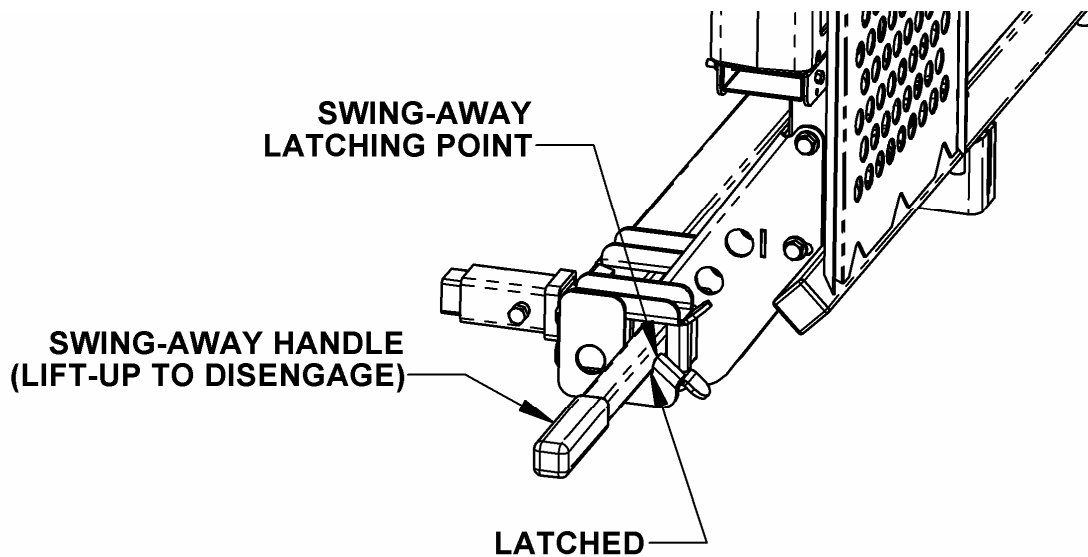
SWING-AWAY USE

1. Remove the scooter from the lift.

WARNING: DO NOT SWING THE LIFT WITH THE SCOOTER ON THE PLATFORM. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DAMAGE TO THE LIFT AND/OR THE SCOOTER.

2. Raise the empty platform until it is in the fully folded position.
3. Lift the Swing-Away Handle.
4. Swing the lift away from the vehicle taking care not to hit any nearby objects or people.
5. Once finished, accessing the vehicle as desired, swing the lift back to its original position.
6. Handle must drop and fully engage AS SHOWN.

WARNING: CHECK TO MAKE CERTAIN THAT LOCKING HANDLE IS PROPERLY ENGAGED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DAMAGE TO THE LIFT AND/OR THE SCOOTER.



MAINTAINING THE LIFT

- 1) **CLEANING:** Wash down with normal car cleaning products. Do not wash lubricant off of the bearing points. If lubricant is accidentally washed off, reapply lubricant where needed.
- 2) **MONTHLY:** Check all mounting hardware for tightness and signs of wear due to vehicle aging, rust, etc.
- 3) **TWICE A YEAR:** Lubricate all bearing points and moving parts using wheel-bearing grease. Lubricate and inspect more frequently during winter or under dirty conditions.
- 4) **Always inspect the tie-down strap (if equipped) for signs wear.** Inspect lift for rusting (surface rust). Apply touch up paint to any apparent rust stains.

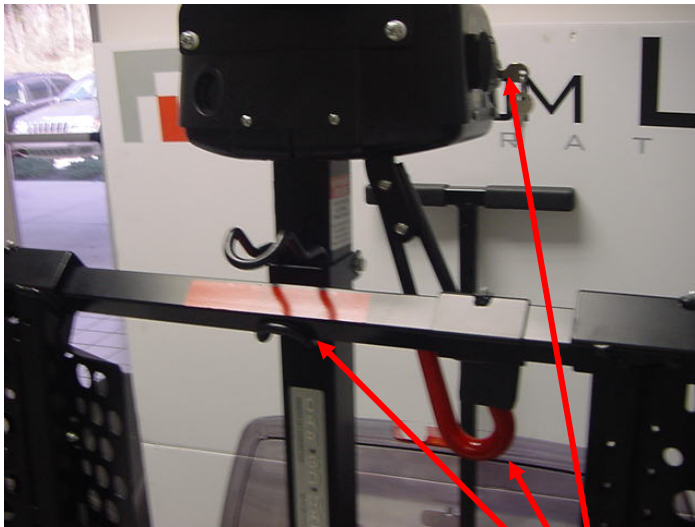
TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Lift does not work	Key switch is off. Power cord is unplugged from lift.	Turn the key switch on. Plug the power cord into the vehicles wire harness.
	Circuit breaker tripped.	Allow the circuit breaker to cool and reset, then retry.
	Vehicle battery not connected or is dead.	Check the battery connections; charge the battery.
	Loose wire connection or improper ground.	Check all wire connections. Check ground; charge battery.
	Latch handle not fully released	Pull latch handle fully away from column.
Lift runs slowly	Weak vehicle battery. Bad ground.	Charge battery; run vehicle. Check ground or install a new ground wire.
	Load is too heavy.	Only lift scooters under 225 pounds
Scooter loose on the lift	Improperly adjusted hold-down arm, tie-down strap or latch handle	Re-adjust the hold-down arm or tie-down strap or see installer
Red indicator light above key switch does not come on.	Latch handle not fully engaged.	Push latch handle fully toward column.
	Platform not fully lifted.	Run lift up until it stops.
	Improperly adjusted hold-down arm, tie-down strap or latch handle	Re-adjust the hold-down arm or tie-down strap or see installer
Lift runs backwards	Lift has been lowered to its limit and the internal lifting strap wound backwards.	Depress the “Up” rocker switch until the lift begins to run in the correct direction. If the lift will not run, see the installer.

LIFT FAILURE

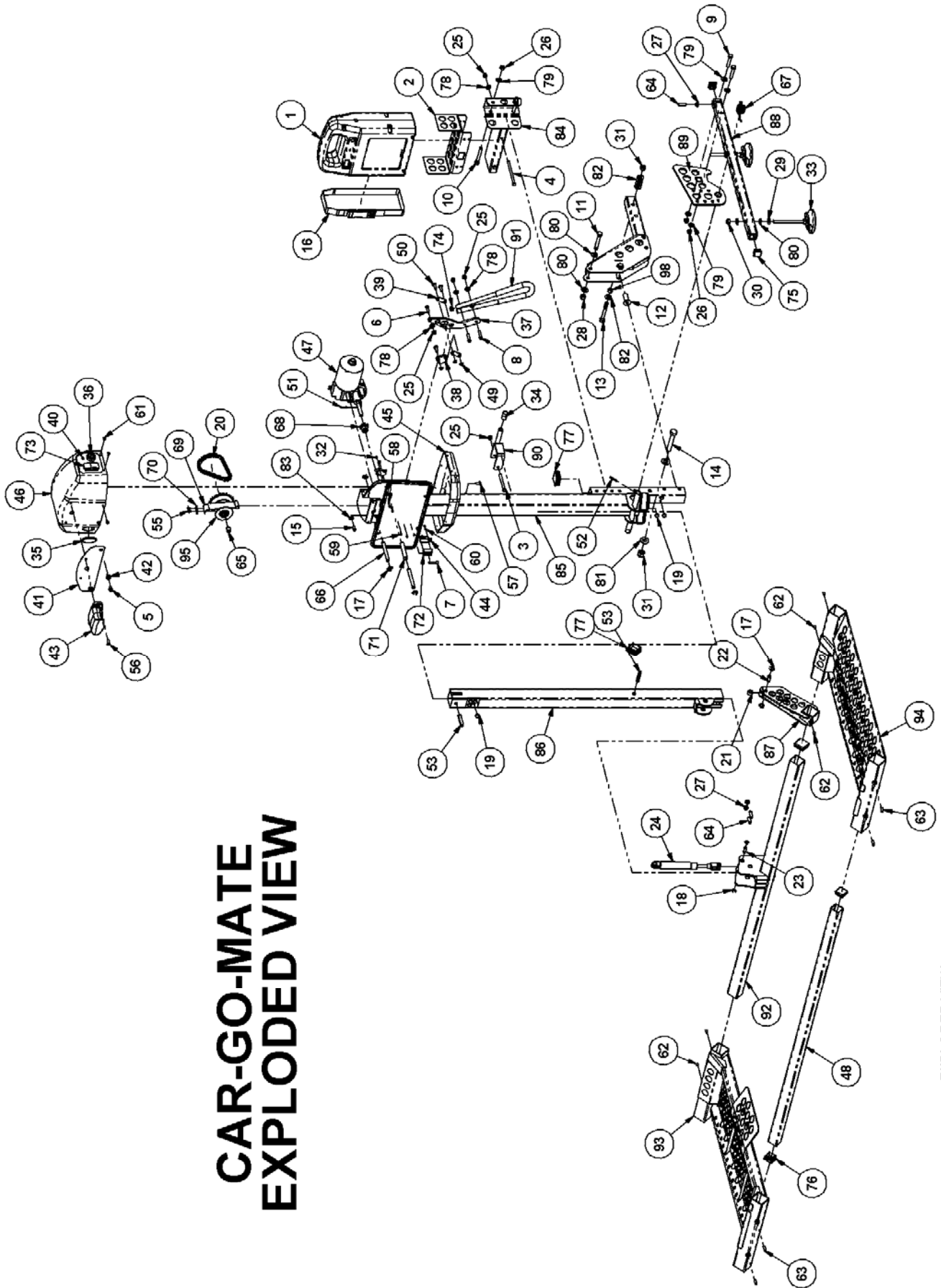
In the event the Lift will not work (a broken strap, the motor failed or loss of power to the lift.) follow these steps.

- Turn off the key switch and lift the red latching handle to the unlock position.
- Manually fold up the platform
- Lift the folded platform up to the top and onto the Platform Retaining Hook.



NOTE: Be sure the platform is fully seated, the red latching handle is down and locked and the key switch is in the off position before transporting.

CAR-GO-MATE EXPLODED VIEW



EXPLODED VIEW
ULTRA-LITE SCOOTER LIFT

LIFETIME WARRANTY

Limited, Non-prorated, Non-Transferable

For Freedom Lift Mobility Lift Products

What and Who is Covered and for How Long

FREEDOM LIFT warrants to the original owner/retail purchaser that its mobility lift products, parts and accessories (excluding electrical components*), will be free from manufacturing defects in material and workmanship when subject to normal and proper use. Should any such defect occur during the lifetime of the original purchaser (and as long as the original purchaser still retains ownership of the product), FREEDOM LIFT will repair or replace, at its option, the defective product. FREEDOM LIFT also reserves the right to refund the amount paid by the original owner for the product. This warranty does not cover labor or other services.

In the event of repair or replacement under the terms of this warranty, the original warranty shall apply to the replacement or repaired part or product and will extend for the balance of the warranty period in effect at the time the product proved defective.

***All electrical components are warranted for two years, actuators are warranted for one year and motors are warranted for a period of five years, providing they have been installed and maintained in accordance with Freedom Lift's installation and maintenance guidelines.**

Limitations

This warranty does not provide protection against any failure, defect or damage caused by situations and events beyond normal proper use, operation, and exposure conditions, including but not limited to:

- Misuse, abuse, neglect or improper handling or storage;
- Improper installation or installation not in strict adherence to FREEDOM LIFT's written instructions;
- Use of accessories which do not properly receive and/or secure FREEDOM LIFT's products;
- Impact of foreign objects, fire, earthquake, flood, lightning, hurricane, tornado or other casualty or act of God;
- Defects in, failure of or damage to vehicle or structure on which FREEDOM LIFT's products have been installed.
- Any other cause not involving manufacturing defects in the material supplied by FREEDOM LIFT.
- This Limited Lifetime Warranty is applicable only to Freedom Lift Mobility Lift Products sold on or after May 5, 2003.

FREEDOM LIFT reserves the right to discontinue or modify any of its products without notice, and shall not be liable as a result of such discontinuance or modification, nor shall FREEDOM LIFT be liable in the event the replacement material may vary in any way in comparison to the original product. If FREEDOM LIFT replaces any products or parts under this warranty, it may substitute products designated by FREEDOM LIFT to be of comparable quality or price range in the event the product initially installed has been discontinued or modified.

Other Conditions/Disclaimer

THIS WARRANTY REPLACES ALL OTHER ORAL OR WRITTEN WARRANTIES, LIABILITIES OR OBLIGATIONS OF FREEDOM LIFT. PERTINENT STATE LAW SHALL CONTROL FOR WHAT PERIOD OF TIME FOLLOWING THE SALE AN OWNER/ RETAIL PURCHASER MAY SEEK A REMEDY UNDER THE IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL FREEDOM LIFT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING ANY DAMAGE TO THE VEHICLE OR STRUCTURE, ITS CONTENTS OR ANY PERSONS THEREIN, RESULTING FROM THE BREACH OF THIS WARRANTY. FREEDOM LIFT DOES NOT AUTHORIZE ITS FIELD REPRESENTATIVES, DISTRIBUTORS OR DEALERS TO MAKE ANY CHANGE OR MODIFICATION TO THIS WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON, OR THE EXCLUSION OF, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSIONS MAY NOT APPLY TO YOU.

****This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state.***

What the Customer Must Do

The owner/retail purchaser must promptly notify FREEDOM LIFT in writing of any manufacturing defect promptly following its discovery, and provide proof of the date of purchase. All notifications should be sent to: FREEDOM LIFT North second Street, Green Lane, PA 18054, Attn: Warranty Service Department. The owner may be required to send the defective product to FREEDOM LIFT for analysis. FREEDOM LIFT will then investigate the claim and examine the product claimed to be defective. If a defect covered by this warranty is confirmed, FREEDOM LIFT within a reasonable amount of time after the inspection will repair or replace the product or refund the amount paid by the original owner for the product. FREEDOM LIFT CORP will pay for shipping back to the purchaser within the continental United States and Canada if a defect in material or workmanship is discovered. Return freight and repair charges will be the responsibility of the purchaser if the problem is not covered by the warranty.

Warranty registration Information

Register your investment. Register your product warranty by returning the warranty registration card to: FREEDOM LIFT CORP North second Street, Green Lane, PA 18054, Attn: Warranty Service Department or on our website at www.freedom-lift.com. You will then receive a numbered registration confirmation by return mail or e-mail.

**Failure to register this warranty shall not void the warranty or any of its terms.*

This warranty is effective 11/1/03. It replaces all prior warranties.