

# PONY EXPRESS™

MOTORIZED ERGO HANDLING™ SCISSOR LIFT CART

OWNER'S/OPERATOR'S MANUAL - MODEL 1050-EL



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Revision 2.0: January 1, 2011

# PONY EXPRESS™

## PRODUCT SERVICE INFORMATION

**Please fill out and keep this manual on hand for service records**

COMPANY NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

REPRESENTATIVE \_\_\_\_\_

TELEPHONE \_\_\_\_\_

PURCHASED DATE \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

PURCHASED FROM \_\_\_\_\_

TELEPHONE \_\_\_\_\_



## **TYPICAL PRODUCT PARAMETERS**

MAXIMUM RATED LOAD	1000 lbs.
USABLE PLATFORM LENGTH	43.5 inches
USABLE PLATFORM WIDTH	23 inches
RAISED HEIGHT	64 inches
LOWERED HEIGHT	18.5 inches
MAXIMUM INCLINE RATING	6 degrees
BATTERIES	AGM or GEL technology, (2) 12 VDC, 40 amp-hour capacity
BATTER CHARGER	Input: 115-230 VAC, 50-60 Hz, 2.7/1.7 amperes Output: 24 VDC, 4 amperes UL, cUL, CE listed and ROHS compliant
BRAKING	Regenerative braking to stop, holding braking once unit has stopped
OPERATING TEMPERATURE RANGE	-20° C to +50° C
RELATIVE HUMIDITY	10% to 95% non-condensing
ESTIMATED AVERAGE OPERATING DISTANCE FROM FULL CHARGE @ FULL LOAD	2.0 miles

# SAFETY GUIDELINES

**FAILURE TO READ AND UNDERSTAND THIS OWNER'S MANUAL BEFORE USING OR SERVICING THE CART CONSTITUTES MISUSE OF THE PRODUCT AND WILL VOID THE MANUFACTURERS WARRANTY.**



## WARNING

**Safe operation is the responsibility of the operator. To minimize the possibility of serious bodily injury:**

- **DO NOT** attempt to service a loaded cart. Unload the cart and install maintenance props according to the directions shown in the maintenance section of this document before working on the cart.
- **DO NOT** work under the lift without using the maintenance props.
- **DO NOT** attempt to lift or transport loads that exceed the capacity of the cart.
- **Always load the cart evenly over the platform surface to prevent tipping.**
- **DO NOT** travel up or down inclines greater than 6 degrees.
- **DO NOT** travel sideways across inclines.
- **DO NOT** stop the cart on an incline. Always park, load and unload on a flat, level surface.
- **DO NOT** go up and down curbs. Only operate the cart on compacted, improved surfaces.
- Always take corners slowly and with caution to prevent the load from shifting.
- Always turn the key switch off before loading or unloading the cart.
- **DO NOT** manually release the electromechanical brake on or near an incline. If you must release this brake, release the brake only when on a level surface and with the cart completely unloaded. Instructions for releasing the brake are in the section titled "Pushing Manually".
- **DO NOT** stand, sit or ride on the cart.
- **DO NOT** put hands or feet under the deck at any time unless the maintenance props are in place.
- Stand clear of the cart while the lift table is moving.
- Keep clear of pinch points. As the deck rises and lowers, pinch points occur between the legs of the scissor. NEVER put any part of your body into the scissor mechanism.
- **DO NOT** use the scissor lift cart UNLESS all safety labels are in place and legible.
- **DO NOT** defeat any safety equipment on the cart.
- **DO NOT** use the cart to push or pull objects or other carts.
- **DO NOT** expose the cart to temperatures that exceed the ratings of the unit. The cart contains batteries that may be severely damaged if exposed to high temperatures.
- **DO NOT** use the cart if you hear unusual sounds while raising or lowering the deck.
- Always watch the platform and the load carefully while raising or lower the deck.
- **DO NOT** leave a loaded cart unattended. ALWAYS unload the cart, and return it to the designated storage location BEFORE you leave the cart unattended.
- **DO NOT** expose the cart or the charger to rain or adverse conditions.
- Test the operation of the cart in an environment with sensitive electronic equipment. The cart has not been tested with all manufacturers' equipment and may react to, or cause a reaction in the electronic equipment.
- **DO NOT modify the cart without the express, written approval from Electro Kinetic Technologies. Failure to receive authorization for changes to the equipment could render the cart unsafe to use and automatically voids the warranty.**



## **WARNING**

**The PONY EXPRESS Motorized Scissor Lift Cart is intended to transport materials within most industrial and commercial settings. The cart can be operated indoors on compacted or improved surfaces to move loads up to 1000 pounds by persons trained on this equipment.**

**Use of the PONY EXPRESS Motorized Scissor Lift Cart beyond its intended use can cause injury and will void the warranty.**



## **DANGER**

### **ELECTROCUTION RISKS**

- **DO NOT** contact live electrical wires with the cart or load.
- **DO NOT** make adjustments or repairs on the cart without unplugging and storing the battery charger.
- **DO NOT** make adjustments or repairs on the cart without disconnecting the power wiring from the batteries.

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## **INTRODUCTION PONY EXPRESS™ SCISSOR LIFT CART**

Welcome to the PONY EXPRESS™ SCISSOR LIFT CART . . . a member of the Electro Kinetic Technologies family of quality mobility products. We know you'll be depending on it, so we have taken great care to make it completely reliable. This owner's manual is designed to help you get the most out of your CART and includes very important safety and care information. Please read it thoroughly and keep it handy for reference. Thank you for choosing the PONY EXPRESS™ SCISSOR LIFT CART.

Information in this manual is based upon specifications in effect at the time of publication. Electro Kinetic Technologies reserves the right to make changes at any time without notice.

Be sure to complete the Product Service Information box on the inside front cover. This will be your record of important information which will help you if your PONY EXPRESS™ SCISSOR LIFT CART ever requires service. When seeking repair parts while your PONY EXPRESS™ SCISSOR LIFT CART is under warranty, a copy of your bill of sale may be requested to verify warranty status.

**FAILURE TO READ THIS OWNER'S MANUAL  
WILL VOID THE WARRANTY**

If there is anything in this manual that you do not completely understand or are unsure of,  
**DO NOT OPERATE** your PONY EXPRESS™ SCISSOR LIFT CART. Call  
Customer Service at:

**1-800-824-1068**

# OPERATING THE CART PONY EXPRESS™ SCISSOR LIFT CART

We would like you to get the most out of your PONY EXPRESS™ SCISSOR LIFT CART. When you use the CART for the first time, you must know how to properly operate and care for it to avoid unsafe situations. Please read this manual thoroughly and become familiar with all of the safety information provided.

Be aware of your surroundings – drive slowly and cautiously. Avoid collisions which could cause damage to the CART or shift the load, damaging the goods, or injuring you or surrounding people.

Anticipate and avoid unsafe situations. Be courteous of others and let your presence be known.

Perform first time operation in an open area on a flat surface free of obstacles. Have someone familiar with the operation of the PONY EXPRESS™ SCISSOR LIFT CART available to assist you.

First time operators should read and understand all instructions and controls before attempting to operate the CART.

## MODEL 1050-EL (EZ-Grip Controls)



### On-Off Key Switch

The on-off key switch is located on the side of the EZ-Grip control unit. To turn the power on, fully insert the key into the key switch and turn the key clockwise. When the power is on, the status LED located on the top of the control unit will illuminate.

### Forward/Reverse

The Forward/Reverse direction of the Cart is controlled by the thumb-wheels located on either side of the EZ-Grip control unit. Pushing either of the thumb-wheels forward (clockwise) will move the Cart forward. Pushing either of the thumb-wheels backward (counterclockwise) will move the Cart in reverse.

### Speed Limit Adjustment

Turning the Speed Limit Control Dial clockwise will increase the maximum speed of the ETC. Turning the dial counterclockwise will reduce the maximum speed. **Always reduce speeds during training, in close quarters, or in circumstances in which you risk damage or injury if the top speed is not limited.**

### Up/Down Movement

Depressing the up button raises the platform. Depressing the down button lowers the platform.

### Emergency Stopping

To stop the Model 1050-EL CART in an emergency, press in on the Emergency Stop Button. The Emergency Stop Button is the large red button covering most of the EZ-Grip control unit's front.

### Battery Condition

The Battery Gauge located on top of the EZ-Grip control unit indicates when the Cart's batteries need to be recharged. If the Battery Gauge shows red, yellow and green, the batteries are charged. If the Battery Gauge shows just red and yellow, the batteries need to be charged as soon as possible. If the Battery Gauge shows just red (either steady or flashing slowly), the batteries need to be charged immediately. The Battery Gauge reading is more accurate after the power has been on for at least one minute.

# OPERATING THE CART PONY EXPRESS™ SCISSOR LIFT CART

## Running

The Model 1050-EL Cart is equipped with the ergonomically-designed EZ-Grip control unit. To operate the Cart, follow the steps below:

1. Turn the key switch clockwise to the Drive position. Select the desired speed mode using the “Rabbit/Turtle” switch
2. Gently push either of the EZ-Grip thumb-wheels forward (clockwise). The CART will start to move and accelerate forward, away from you.
3. To stop, release the control lever. The PONY EXPRESS™ will gently slow down with the aid of dynamic regenerative braking.
4. To go in reverse, gently push either of the EZ-Grip thumb-wheels backward (counter-clockwise). The CART will start to move and accelerate toward you. For safety, the maximum speed in reverse is normally set slower than the forward speed.

## Braking Systems

All PONY EXPRESS™ SCISSOR LIFT CARTS have two types of braking systems, dynamic regenerative braking and electro-mechanical braking.

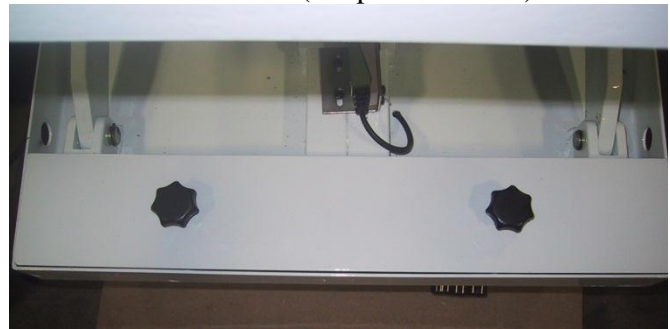
**1. Dynamic Regenerative Braking** - Dynamic regenerative braking automatically brings the CART to a smooth stop when the thumb-wheel is released. However, it does not lock the wheels in place.

**2. Electromechanical Braking** - After the dynamic braking has brought the CART to a stop, the electromechanical brake will lock the drive wheels in place. The electromechanical brake is a parking brake and can be applied instantly by pressing the emergency stop switch (located on the front of the Model 1050-EL EZ-Grip control unit). The center, or drive wheels, must be contacting the floor surface for the brake to hold.

## Charging

The PONY EXPRESS™ is equipped with two U-1 Absorbed Glass Mat (AGM) batteries, which require charging on a regular basis.

1. Position the PONY EXPRESS™ close to an AC power outlet. The CART can be charged using either 115 or 230 VAC 50/60 Hz by selecting the appropriate voltage on the battery charger.
2. Turn the unit off and remove the key.
3. Find the battery charger located under the panel on the front of the cart. (see picture below).



4. Plug the battery charger into the outlet located on the cart with the other end into an AC power outlet.

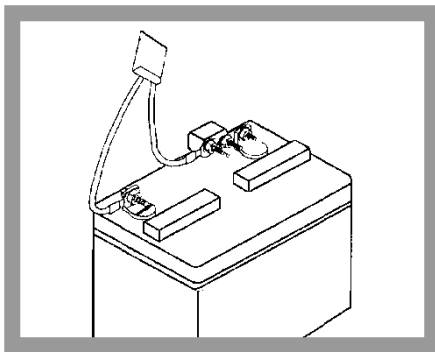


5. Allow the unit to charge overnight – six to eight hours for a full charge. For optimum battery life, charge the CART whenever it is not in use.
6. With the power on, the Battery Gauge shows the charging status. If the Battery Gauge shows red, yellow and green, the batteries are nearly or fully charged. If the Battery Gauge shows red and yellow, or just red, charging needs to be continued.
7. Unplug the cord from the power supply outlet (and if used, the extension cord from the unit)

# BATTERIES PONY EXPRESS™ SCISSOR LIFT CART

## FOR BEST RESULTS: USE ABSORBED GLASS MAT BATTERIES WITH YOUR PONY EXPRESS™ SCISSOR LIFT CART

1. The batteries supplied with the CART are maintenance free sealed AGM batteries. DO NOT remove the battery caps. DO NOT attempt to add water. This will ruin your batteries and void your warranty. Liquid-electrolyte batteries are not recommended for use with your PONY EXPRESS™ SCISSOR LIFT CART.
2. If a crusty or powdery white substance appears on or around the battery terminals, clean them: use a solution of baking soda and water with a toothbrush. DO NOT allow this solution to enter the battery vents. If you do not clean the batteries when this substance appears, or if it is left for prolonged periods, it will reduce the quality of battery connection and affect performance.
3. When replacing the batteries, clean the terminals and battery posts with a wire brush. When reattaching the terminals, be sure all connections are tight. The black wire must be attached to the negative (-) terminal. Failure to connect with proper polarity will damage the control module.



### Battery Life

Battery life depends upon use and proper care. If you use the PONY EXPRESS™ a lot, your batteries will need replacement sooner than if you only use your CART a little. Other factors which can reduce battery life are: irregular or inefficient charging, extreme temperatures, and cargo weight.

If the distance you travel on a charge becomes noticeably shorter, and ramps once easily climbed become difficult to go up, you may need to replace the batteries. Other signs indicating the need to replace batteries include heating or swelling of the batteries (sometimes accompanied by an acrid odor).

If you notice any of these conditions, have your batteries load tested.

### Battery Load Testing

A “load test” is a sure test of battery condition, and can be performed by your local Authorized Service Center.

Load testing measures battery voltage under a heavy load. Before the load test, your batteries should be fully charged. The service center will measure the open circuit voltage, or voltage across the batteries, prior to a load test. This open circuit voltage must measure at least 12.6 volts on each battery in order to receive an accurate assessment during a load test. The service center will set the load tester to 100 amperes and hold the setting for 10 seconds.

At the end of 10 seconds, the service center will read the results while the batteries are still under load, if the load test voltage is below 10.0 volts each, the batteries should be replaced.

**MAINTENANCE & INSPECTIONS**

Only trained and authorized persons should maintain, repair, adjust and inspect the scissor lift cart. Maintenance and Inspection personnel should verify that the cart complies with all regulations, codes and standards that apply in the location where the cart is used.

**Maintenance Props**

**WARNING** Before inspecting, performing maintenance on or repairing the cart, unload the cart, raise the platform, and engage the maintenance props on both sides as shown below.

Engaged



Disengaged

**MAINTENANCE SCHEDULE**

Your PONY EXPRESS™ SCISSOR LIFT CART will give you years of safe and dependable service in return for regular maintenance and early attention to any developing problems. We recommend the following maintenance program.

If you use your CART often, you may find it to your advantage to perform this maintenance more frequently.

**CAUTION: Disconnect the batteries before performing any maintenance.**

**Every Day or as Needed:**

1. Maintain the batteries' charge.
2. Clean debris from the wheels and drive unit assembly.

**Once Each Month:**

1. Check for loose connectors and any signs of unusual wear.
2. Grease caster wheel swivel assemblies. Use only industrial grade grease in the caster wheel swivel assemblies.

**Once Every Three Months:**

1. Clean your CART with a damp sponge.
2. Check the wires for wear, fraying or cracking.
3. Check the connectors for wear or cracking.
4. Examine the tires and wheel assemblies for wear or damage.

**NOTE: THIS MAINTENANCE IS BEST PERFORMED BY YOUR LOCAL AUTHORIZED SERVICE CENTER.**

**Cleaning Your PONY EXPRESS™ SCISSOR LIFT CART:**

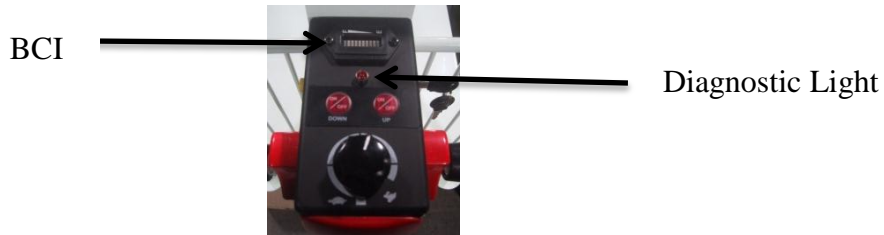
Turn the power OFF and disconnect the batteries before cleaning your CART. Use warm soapy water and a damp sponge to clean your PONY EXPRESS™. DO NOT pressure-wash or hose your CART off. Excessive water may damage electronic components.

Do not use harsh or abrasive cleansers on the PONY EXPRESS™ or its tires. These types of cleansers will damage the finish of your CART, and may cause premature tire wear. Clean your tires with a bristle brush dipped in warm water.

# DIAGNOSTICS & TROUBLESHOOTING

# PONY EXPRESS™ SCISSOR LIFT CART

Your PONY EXPRESS™ SCISSOR LIFT CART has been designed and built to be dependable and trouble free, but we know that there can be unexpected problems with any technical product. The following checklists will give you a “First Aid” approach to dealing with most problems. You can also call our Service Hotline: 800-824-1068.



MODEL 1050-EL		
SYMPTOM	POSSIBLE CAUSE	SOLUTION
<b>BCI Dark, Unit Will Not Operate</b>	Key Switch turned to Off position.	Turn Key Switch to Drive (right) position.
	Batteries are dead	Charge batteries. Load test batteries
	Circuit breaker open.	Reset circuit breaker.
	Power connection interrupted.	Check power cables to batteries.
<b>BCI Illuminated, Unit Will Not Operate</b>	Obstruction in pathway of wheels.	Check for obstruction.
	Motor worn out.	Contact Authorized Service Center.
<b>Diagnostic Light Flashing, Unit will not Operate</b>	Holding brake is disengaged.	Set holding brake (page 8)
<b>Unit Runs Slow</b>	Battery charge low.	Charge batteries.
	Weak or Low batteries.	Charge batteries. Load test batteries.
<b>Battery Weak or Won't Take a Charge</b>	Charger power interrupted.	Check wall outlet for continuous power.
	Loose connection in wiring.	Check all exposed wire connections.
	Charger burned out.	Replace charger.
<b>Intermittent Running</b>	Loose connection in wiring.	Check all exposed wire connections.
	Worn motor brushes.	Contact Authorized Service Center.
<b>Hard to Turn</b>	Casters require lubrication.	Lubricate casters.
	Locks on casters are engaged	Unlock casters.
	Worn out caster bearings.	Replace casters.

# TRANSPORT PONY EXPRESS™ SCISSOR LIFT CART

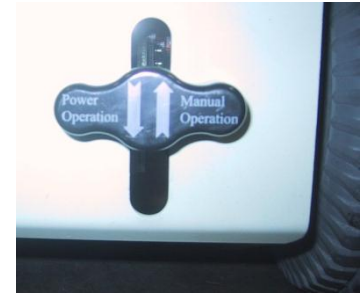
## PUSHING MANUALLY

The drive system on the PONY EXPRESS™ SCISSOR LIFT CART can be disabled to allow you to push the unit manually.



**WARNING DO NOT release the brake on or near an inclined surface. The unit will not stop on its own when the braking system is disengaged. Severe injury may result if the unit is left to roll unattended.**

1. With the power off, move the brake handle to the up position.
2. After pushing the cart, return the brake handle to the down position. Failure to do this step will keep the drive system disengaged and the cart cannot be moved under power.



The cart also has a temporary brake disable located on the left side of the main control panel that will only operate when the power is on. Depressing this button will temporarily disable the brake and allow the cart to be moved manually. Releasing the button will reengage the holding the brake.

Brake Disable





HEALTHCARE



RETAIL



ERGO HANDLING™

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Ergonomic Solutions for Transport

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