

CooLiftOwner's Manual

For CooLift models with electric hydraulic lift AND propulsion (CPA-- models)

IMPORTANT: Read entire manual before operating

Serial #:	
Date of Purchase:	





Warranty

Magliner products have a one (1) year warranty (unless otherwise specified) from the date of purchase against defects in workmanship or material. Any part or component, except items covered by warranties of other manufacturers, returned to the factory or service center freight prepaid by the owner, found upon examination by Magline, Inc. to be defective or the result of improper workmanship by the factory will be repaired or replaced without charge and returned to the owner freight prepaid by Magline, Inc.

Alterations of Magliner products void any warranty or liability on the part of Magline, Inc. Magline, Inc. does not guarantee product capacity if alterations are made.





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Thank you for purchasing the Magliner CooLift! If you have any questions regarding your new Magliner product please call our customer service department at 1-800-MAGLINE (624-5463) or (989) 512-1000. Please read this manual thoroughly to become familiar with the safe operation and maintenance of your new Magliner CooLift.

General Safety Instructions

- Carefully read this entire manual before using your Magliner CooLift.
- Keep hands and feet away from all moving parts.
- Always stand clear of lifting platform area when operating.
- Do not attempt to use the Magliner CooLift on a truck ramp.
- Engage the holding brake whenever in a stopped position.
- Keep the Magliner CooLift in an upright position at all times.
- Do not utilize Magliner CooLift as a lifting device for anything other than a CooLift pallet.
- Do not use the Magliner CooLift to lift or to transport people.
- A routine check of the CooLift should be performed daily that includes, but not limited to: checking for any leaks in the brake system; making sure the containment strap functions correctly; making sure the lift deck raises and lowers smoothly without excessive noise, slowing or shuddering; checking the brake system to ensure proper slowing, stopping, and holding functions.
- Always use the containment strap when moving loads with the Magliner CooLift.
- When transporting a load, always use the handles provided at the user end of the CooLift in order to provide quick access to the braking system should immediate stopping be required.
- Operator should be positioned uphill from CooLift when descending on natural grades, sloping or uneven surfaces.
- Use hand brake to control speed.
- Avoid making sharp turns.
- Always use a Magliner battery charger to charge your battery.
- Do not exceed the pallet capacity limit.
- Brake fluid is a slip hazard on any flooring surface; if a leak occurs it should be cleaned up immediately and completely.
- Do not operate without all guards and safety features securely in place and/or functioning properly.



Please follow the reminder labels found on your CooLift unit.

CooLift® Capacity:
1,200 lbs. with 43" CooLift® pallet
1,350 lbs. with 48" CooLift® pallet
1,500 lbs. with 53" CooLift® pallet

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Serial No 12345



Always stand clear of lifting platform area when operating



Keep hands and feet clear of lifting platform

WARNING:

Raise deck before fastening containment strap

Safety Instructions

- Read and understand operating instructions before using
- Always inspect CooLift and pallets for damage before using. Do not use if there are signs of damage, improper maintenance or load shift
- Do not exceed capacity limit
- NO RIDING Riding on the CooLift could cause serious injury
- DO NOT USE ON TRUCK RAMPS
- Use caution on natural grades; operator should be positioned uphill from cart when descending, use brake to control speed, no sharp turns
- Always apply holding brake and lower lift before unloading pallet or leaving CooLift unattended



General Specifications	CPA43	CPA48	CPA53
Corresponding pallet size	43 inch	48 inch	53 inch
Capacity	1,200 lbs	1,350 lbs	1,500 lbs
Weight without battery	280 lbs	280 lbs	272 lbs
Weight with battery	346 lbs	346 lbs	338 lbs
Overall height	60 inches	60 inches	60 inches
Overall width	19 inches	19 inches	19 inches
Overall length	60 inches	60 inches	60 inches
Operating temperature*	-20 to 120°F	-20 to 120°F	-20 to 120°F
Propulsion assist speed	0 - 2.5 mph FWD 0 - 2.5 mph REV	0 - 2.5 mph FWD 0 - 2.5 mph REV	0 - 2.5 mph FWD 0 - 2.5 mph REV

*NOTE: When the outside temperature is below 30°F the CooLift should not be left inside the truck overnight and should never be left inside a freezer or a cooler for extended periods of time. Extended exposure to subfreezing temperatures will adversely affect CooLift battery life.

The CooLift should be stored above 48°F when possible. If the unit is stored in cooler temperatures, the throttle should be exercised to ensure it will return to neutral position when throttle is released.

Battery Specifications

Weight	33 lbs each (66 lbs total)					
Voltage	24v (two 12v battery cells)					
Battery cells	Sealed lead acid - maintenance free					

Fluid Specifications

Brake fluid	DOT 3 or DOT 4



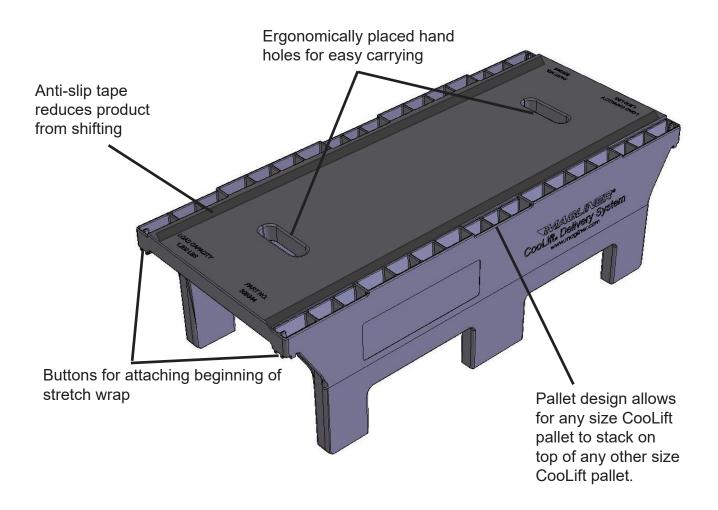


Pallets

General Pallet Information:

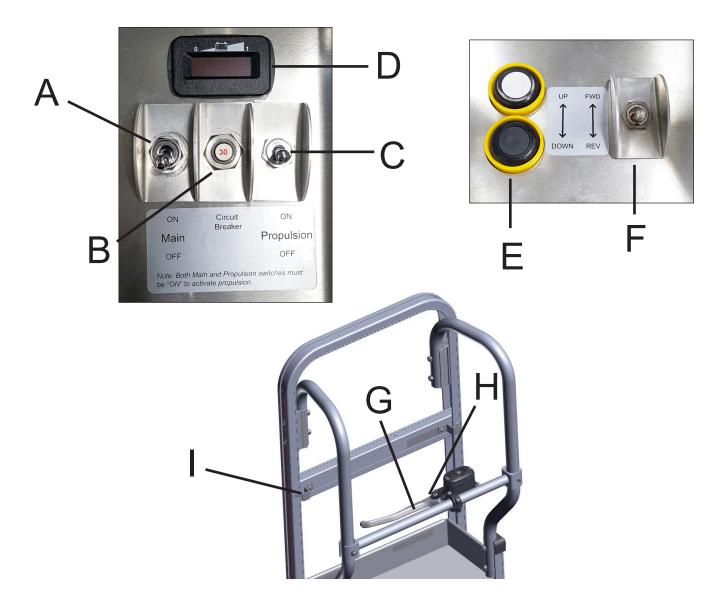
- Always load within capacity limit.
- Always load within pallet footprint; do not allow load to hang over pallet.
- CAUTION: When using any multiple load handling system (such as a triple-double) to move the CooLift pallets, do not spread the forks while underneath pallet as it may result in pallet failure.
- Store in upright position in cool, dry location.
- Do not drop.
- Do not stand upon.
- Wash with mild soap and water.
- Do not use if damaged.
- Make sure to interlock empty pallets when stacking.
- Only stack pallets when empty.
- Do not make modifications to pallet.
- Secure load before transporting.
- Use for intended purpose only.

Sizes	Capacity	Part Number			
43" pallet	1,200	309344			
48" pallet	1,350	309345			
53" pallet	1,500	309346			





- A) Main Power Switch provides power to the unit for raising and lowering the deck.
- B) Circuit Breaker helps to protect the components should an electrical short or overload occur.
- C) Propulsion Power Switch provides power to the unit for using the propulsion assist feature.
- D) Battery Meter indicates level of charge in batteries.
- E) Deck Positioning Switch (up/down) used to raise and lower the lift deck.
- F) Directional Switch (forward/reverse) used to set direction for propulsion assist feature.
- G) Brake Lever used for slowing and stopping the momentum of the CooLift.
- H) Holding Brake Latch used to keep the CooLift from rolling inadvertently **Always engage** holding brake whenever CooLift is unattended.
- I) Cord Storage Brackets holds the AC built-in battery charger input cord when not in use.
- J) Containment Strap should be used to secure loads during transport.
- K) Throttle used to control speed for propulsion assist feature.
- L) Throttle Interlock Button used to activate propulsion assist feature.
- M) Folding Lift Assist Handles (optional) provides ergonomic lifting solution when leverage is needed for removing CooLift from under pallet/overcoming thresholds.











CooLift with product strapped to deck

General Operation of the Magliner CooLift

- A) Storage and Limited Use of Holding Brake
 - 1) Engage the holding brake whenever leaving the CooLift unattended.
 - 2) Pallets on the Magliner CooLift should always be in the down position when not moving.
 - 3) Keep hands, feet and all items clear of the moving parts of the CooLift.
 - 4) Never place hands or feet under a loaded elevated pallet.
 - 5) The holding brake is intended to be used for limited periods of time only.
 - 6) Store the CooLift on a hard level surface.

B) Loading a pallet on the Magliner CooLift

- 1) Make sure CooLift deck is in down position.
- 2) Push the CooLift under the pallet until fully inserted and the back of the pallet is touching the enclosure (CPA53), bulk head (CPA48) or pallet stops (CPA43).
- 3) Press and hold the up switch until the lift deck is fully raised (this is noticeable by the sound changed of the running hydraulic pump and the stop of upward motion of the pallet).
- 4) Engage the holding brake by depressing the brake lever back toward the horizontal handle with one hand and flipping the holding brake latch into one of the provided notches to hold it in place.

Note: Make sure the deck is in the up position prior to fastening the containment strap.

- 5) Fasten the containment strap to secure the load by: a) firmly grasping the end of the strap; b) pulling it out from the roll directly over the center of the load taking care not to twist the strap; c) extending strap far enough to snap into position; and d) hooking strap to the containment lock located at the lower front end of the cart (see Front Underside View).
- 6) The maximum stacking height for all models (CPA43, CPA48 and CPA53) models is 50" from the floor. However, never stack a load that is higher than your line of vision.



Figure 1: CooLift secured under a loaded pallet with the holding brake engaged



Figure 2: CooLift strapped into truck for transport

C) Transporting a pallet with the Magliner CooLift

- 1) When transporting a pallet with the CooLift the operator should always use caution on natural grades. Be positioned uphill from cart when descending, use brake to control speed and make no sharp turns.
- 2) Care should be taken to address any sidewalk ramps or door thresholds to help maintain stability in the load.
- 3) Use caution at all sloping or uneven surface areas and make any final positioning changes.
- 4) Depress the down switch and hold it until the CooLift deck has lowered completely. Note: it is possible to have the pallet sitting on the floor and the deck still engaged to the bottom of the pallet if the deck has not been completely lowered.
- 5) Remove the CooLift from under the pallet.

D) Unloading a pallet from the Magliner CooLift

- 1) Position the cart in place on a level surface and engage the holding brake.
- 2) Lower the deck completely.
- 3) Unlock the containment strap from the lock by lifting the tab and sliding the latch out.
- 4) Walk the strap back into position on the roll.
- 5) Disengage the holding brake by pulling the brake lever back until the latch releases.
- 6) Pull CooLift out from under pallet

E) Transporting the Magliner CooLift inside the truck

Note: It is important to keep the CooLift upright at all times.

- 1) If you are transporting the CooLift on a truck that has loaded pallets, insert the CooLift completely under a fully loaded pallet and toggle the up switch until the lift deck makes contact with the bottom of the pallet but does not lift and engage the holding brake (Figure 1).
- 2) If there are no loaded pallets on the truck, the CooLift should be parked next to the wall and strapped in with the holding brake engaged (Figure 2).



- F) Using the Variable Speed Propulsion Assist Feature
 - 1) Turn both the Main and Propulsion power switches to the "On" position.
 - 2) Use the directional switch to indicate either forward or reverse movement. The switch must pushed backward for reverse.
 - 3) Press and hold the dead-man's switch button so that propulsion can be fully activated.
 - 4) Slowly press the throttle forward while the dead-man's switch button is held to begin motion.

Note: Once the throttle is engaged, the dead-man's switch button cannot be released without inactivating propulsion. If the dead-man's switch button is released, you will need to fully return the throttle to its home position and then repeat steps 3-4 above in order to reactivate propulsion assist feature.



Dead-Man's Switch (Throttle Interlock) Button



Throttle

General Propulsion Assist Warnings:

- Do not use propulsion assist when in confined spaces.
- Be sure there are no obstacles or people in front of the CooLift before activating propulsion.
- Check to be sure the path is clear.
- Check behind you for obstacles or people before using the propulsion assist in reverse mode.
- Keep both hands on the CooLift handles while using the propulsion assist feature.



Battery

General Battery Warnings:

- Do not connect accessories to the battery; this will cause premature battery failure or possible damage to the batteries.
- Unauthorized modification could create a hazardous condition and result in serious injury.
- Batteries contain acid, which can burn eyes, skin, clothes, etc. Use caution! Always wear gloves when working with batteries. If contact occurs, flush immediately with water and get medical attention. Protect surfaces from battery damage by placing batteries on rubber or plastic surfaces.
- To prevent electrical shock, do not touch non-insulated parts of the charger output connectors, battery connectors or battery terminals. Do not use connectors that are cracked, corroded, or do not make adequate electrical contact. Use of damaged or defective connectors could result in fire or electrical shock.



- Keep sparks, flame and smoking materials away from batteries.
- Batteries can supply a large amount of current. Do not wear jewelry or watches when working on the batteries as an accidental shorting could occur and cause severe burning.
- Only qualified technicians should service your Magliner CooLift power supply system.
- Disconnect the batteries by unplugging the main wiring harness at the control board before attempting to replace any electrical components.
- Only use authorized Magliner CooLift replacement parts.

Battery Life

The Magliner CooLift is powered by two 12-volt storage batteries. The lift and propulsion motors draw current from the batteries based on the amount of effort required to meet load being lifted. Testing and research has been done to ensure a fully-charged battery will allow the user to go through two days of single-shift operation without recharging the system. This amounts to a total of over 500 lift cycles and traveling 3 miles with propulsions. However, extreme temperature ranges and extreme loads can have an effect on the amount of power available during one charging cycle.

NOTE: The battery must be charged within 6 months of storage to prevent self-discharge. If the battery is not charged within 6 months of storage, permanent loss of capacity may occur.

If the CooLift will be used regularly, it is recommended that the unit be kept on a charger whenever it is not in use; the batteries will not overcharge. If the CooLift will not be used for an extended period of time, take the unit off the charger. It is good practice to fully charge the battery once every 2 weeks if the hand truck is not used for an extended period of time.

^{*}Battery has a warranty of six (6) months.



Battery Charging

A built-in Magliner AC charger (part #63084) when using a common 120v domestic or 230v international outlet is capable of safely charging your CooLift battery. This charger uses standard household power.



Battery Charging Warnings:

- ✓ Use only Magliner chargers designated for use with CooLift.
- ✓ Do not expose charger to excessive rain or snow.
- ✓ To prevent risk of fire, use the charger only in a dry, well ventilated room without flammable fluids or explosive gases.
- ✓ Do not allow clothing, blankets or other material to cover battery charger during charging process. Even though the charger has an internal temperature gauge and will not function if the temp gets too hot, as a precaution, keep any highly flammable objects away.
- ✓ Use of an attachment not recommended or delivered by the battery charger manufacturer may result in a risk of fire, electric shock or injury to persons.
- ✓ Avoid using an extension cord as it can present risk of fire and electrical shock. Never use a household extension cord if the charger plug does not reach outlet. If an extension cord must be used, use a three conductor No. 14 AWG (or heavier) cord with proper ground, in good electrical condition and kept as short as possible.
- ✓ Make sure the cord is located such that it will not be a trip hazard or otherwise subject to damage or stress.
- ✓ Do not operate a charger with a damaged cord or plug replace immediately.
- ✓ Do not operate a charger if it has received a sharp blow, been dropped, or otherwise subjected to damage or stress.
- ✓ Do not disassemble the charging unit.
- ✓ To reduce risk of electrical shock, unplug the charging unit from the AC power supply source before attempting any maintenance or cleaning.
- ✓ Always unplug the charging unit before operating the Magliner CooLift.
- ✓ Always use battery chargers supplied by Magline, Inc. Other battery charging units could cause damage to your batteries or personal injury.
- ✓ Batteries generate gases that can be explosive. If an interruption of the charging cycle is desired, simply disconnect the charger from the power supply source at the wall outlet.
- ✓ To avoid damage to battery charger connectors and cords, disconnect the plug by grasping the plug body and pulling it straight out of the wall outlet. DO NOT pull on the cord. DO NOT twist, rock, or pull the connector sideways.
- ✓ The metal tip on the end of the plug may be hot when it is first unplugged.



Using the AC Charging Unit

Note: A completely drained 18Ah battery can take up to 4 hours to fully charge.

- 1. To charge the CooLift, connect the AC charger plug to an AC outlet (120v domestic or 230v international).
- 2. The batteries may be charged as often as desired. Magline recommends charging at least once after each delivery route is complete.

NOTE: Each positive and negative wire from each charging bank has a 7.5A fuse.

AC Charging Unit LED Indicators

The flashing red lights indicate the charging phase while the batteries are charging.

- 1 bar = 0-25% charged. The light will turn solid when 25% charge is reached, and the next light will begin to flash.
- 2 bars = 25-50% charged. The light will turn solid when 50% charge is reached, and the next light will begin to flash.
- 3 bars = 50-75% charged. The light will turn solid when 75% charge is reached and the next light will begin to flash.
- Flashing green light + 3 red light = 75-95%, this DOES NOT mean fully charged.
- Maintenance mode (flashing green + 0 red lights) = 95-100%, means battery is optimizing the charge going into the battery, which ensures the battery is not overcharged. This prolongs battery life.
- Solid Green light = 100% fully charged



Charging notes: If batteries are fully charged and the charger is plugged in, the charger light will run through the entire cycle (1 red bar, 2 red bars, 3 red bar etc). This can take up to 3-5 minutes to go through the cycle; do not assume the charger did not charge the batteries. The charger constantly reads the batteries to determine optimal charging behavior. Wait several minutes for the charger to properly read the batteries.



Other Charger LED Indicators

These two orange power lights can mean 2 possible things.

- 1. Press buttons 1 and 2 until the desired mode light is illuminated. The correct mode for your model is stated below.
- 2. There is an error in the connection with the batteries. This will show when the charger cannot read a connection between the batteries, and pressing buttons 1 & 2 do nothing. Possible causes are loose terminal(s), wire or fuse disconnect, or a faulty battery bank. If lights light up, this means that power is being supplied to the charger, but not to the batteries.



The white lights indicate the mode the charger is in either 12V Standard, AGM, Lithium or repair mode. The modes are selectable using buttons 1 & 2 once the charger is plugged in and the orange icons light up. Below are the following modes, and which mode should be selected.

- 12V Standard is used for a general range of battery types. Select this mode for CooLift models WITH propulsion assist (models beginning in CPA).
- AGM mode used for certain AGM batteries.
- Lithium mode is for lithium batteries (not available for CooLift units).
- Repair mode will be used if a battery is showing less than 1 volt. Repair mode will not fix all battery problems. To use repair mode, hold down buttons 1 & 2 for at least 3 seconds.





Error LED Indicators



Solid - Charger is in Standby mode or battery voltage is to low for charger to detect.



Solid - Battery voltage is too high for the selected charge mode. Check the battery and charge mode.



Solid - Possible battery short / battery will not hold a charge. Contact Magline.



Solid - Reverse polarity. Reverse the battery connections.



Flashing - Charger internal temperature too high - Charger will resume function once the charger internal temperature drops, OR

Charger ambient temperature too cold - Charge will resume function once the charger ambient temperature rises.

Battery Meter Operating Instructions

- Battery meter will show the charged state of the battery whenever the main power switch is turned ON
- During normal operation, the charged state of the battery is indicated by the number of bars displayed on the meter
 - · Full charge is 10 steady bars
 - A partial charge is two to nine steady bars
 - · A low battery is two alternately flashing bars
- While the battery charger is plugged in and charging the battery, the display will repeatedly scroll across the bars up to the level of charge in the battery
 - Full charge is indicated by scrolling across 10 bars
 - A partially charged battery is indicated by scrolling across two to nine bars
- When the main power switch is OFF, the battery meter will not display



Troubleshooting

The unit does not turn on.

- ✓ Is the main switch turned on?
- ✓ Have the batteries been charged?
- ✓ Has the circuit breaker been tripped?
- ✓ Is the battery box fully plugged in?
- Check electrical connections for tightness, including battery terminals within the enclosure.
- ✓ Contact Magline if problem persists.

The CooLift is not charging up.

- ✓ Is the charger working correctly?
- ✓ Are the batteries connected correctly?
- ✓ Have all electrical connections been checked?

The pump is running but the deck is not lifting.

- ✓ Is the fluid level correct in the reservoir?
- ✓ Do you see any leaks in the hydraulic system?
- ✓ Is the manual pump release valve open?
- ✓ Is the breather cap for the pump reservoir plugged?

The deck lifts to the top position but then gradually lowers.

- ✓ Is the manual release valve fully closed?
- ✓ Do you see any leaks in the hydraulic system?

The deck lifts OK but lowers slowly.

- ✓ Does it go down quicker when opening the manual release valve?
- ✓ Do you see any fluid leaking out of the gas springs?

The deck lifts slower than usual.

- ✓ Is the manual release valve closed all the way?
- ✓ Is the fluid level correct in the reservoir?
- ✓ Do you see any leaks in the hydraulic system?

The deck is in the up position and will not go down.

- ✓ Is there any foreign matter in the linkage system?
- ✓ Check for loose wire connections.
- ✓ Use the manual pump handle to lower the deck (the manual pump handle is stored inside the enclosure).



Troubleshooting

The brakes are not working or braking unevenly side to side.

- Do you see any leaks in the brake system?
- ✓ Is the brake fluid level correct in the reservoir?
- ✓ Are both of the calipers mounted tightly to the rail?
- ✓ If you pump the brake lever several times, does it start working?
- ✓ Check to see that the discs are running true and mounted properly.
- ✓ Check to see if disc mounting screws have not backed out.
- ✓ Contact Magline if problem persists.

The pump runs and will not shut off.

- ✓ Turn off main power switch.
- ✓ Check the continuity of the starter solenoid.
- ✓ Check the continuity of the operator on/off switch.

Hydraulic or brake fluid has dripped into the drip pan underneath the CooLift deck.

✓ Wipe up any fluid that may have leaked into the drip pan using shop towels.

Brake fluid has dripped into the drip pan underneath the CooLift deck.

- ✓ Check for leaks in the brake system and tighten loose components, or repair any damaged components.
- ✓ Wipe up any fluid that may have leaked into the drip pan using shop towels.
- ✓ Contact Magline if problem persists.

The propulsion assist feature is not operating.

- ✓ Have the batteries been charged?
- Are both the lift system and propulsion system switches turned to the ON position?
- ✓ Fully lower the deck and turn both the lift system and propulsion system switches to the OFF position. Wait 2-3 minutes and turn the lift system and propulsion system switches to the ON position.
- ✓ Have you pressed the throttle interlock button before using the throttle?
- ✓ Are the wires to the interlock and throttle connected? Both in the enclosure and on the handle?
- Check the chains in the propulsion system to see if they are in place and tensioned properly.
- ✓ Has the parking brake been released?
- ✓ Check for loose wire connections from the controller or battery.
- ✓ Is there any debris in the chains or in other parts of the propulsion system?
- ✓ Contact Magline if problem persists.





Required Maintenance Procedures and Inspection Log

		Notes					
Maintenance Date: Completed By (name		Frequency	Every 2 Weeks	Monthly	Monthly	Monthly	Monthly
Maintenance Date: Completed By (name):		Maintenance Instructions	 Lift deck to its fully raised position Remove cover protecting the propulsion system. Turn off CooLlft Check for and remove all debris including on screws and around the lift chain assembly 	 Lift deck to its fully raised position Check the lower limit switch by pressing the metal tab gently toward its black box; it should respond by snapping quickly back into place Now lower the deck to its fully lowered position. Check the upper limit switch by pressing the metal tab gently toward its black box; it should respond by snapping quickly back into place 	 Lift deck to its fully raised position Turn off CooLift Apply a lithium-based grease to the lead screws Brush the grease evenly across the threads Turn on the CooLift; run deck up and down a few times to distribute grease 	 Lift deck to its fully raised position Turn off CooLift Oil chains lightly with a 40 weight (or greater) oil. Moly chain lubricant may be used as a substitute. 	 Lift deck to its fully raised position Turn off CooLift Chain should have 1/8" side-to-side play between sprockets when you push on it To adjust, loosen or tighten the 3-1/4" long socket head cap screws in the mount plate until 1/8" play in chain is reached
Cart Serial No:		Related Components	Entire system	Limit Switch	Acme lead screws	Lift chain (front of deck) lubrication	Lift chain (front of deck) tension
ÖÖ	5	Area	Lift System	Lift System	Lift System	Lift System	Lift System



Frequency Notes	Monthly	n Monthly
Maintenance Instructions	 Lift deck to its fully raised position Remove cover protecting the propulsion system Turn off CooLift Oil chains lightly with a 40 weight (or greater) oil. Moly chain lubricant may be used as a substitute. 	 Lift deck to its fully raised position Turn off CooLift Chain should have 1/4" side-to-side play between sprockets when you push on it To adjust, loosen or tighten the 5/16"-18 x 2" long socket head cap screws in the mount plate until 1/4" play in chain is reached
Related Components	Drive chain Iubrication	Drive chain tension
Area	Propulsion System	Propulsion System

			Notes						
	I		Timing	Daily	Daily	Daily	Daily	Daily	Daily
)ate:			Findings Pass or Fail						
Inspection Date:	_ Inspector's Name:		Normal Condition	 Frame is not twisted or bent User enclosure is perpendicular to the frame Deck is angled slightly toward enclosure when retracted Handles are not bent or damaged 	Straight sectionsSmooth curvesFlat surfaces	Cart should travel in nearly a straight line for several feet	 Brakes should feel responsive and not "soft" Brake lever should not contact handle 	Brake should remain engaged	 No excessive noise or extraneous sounds from lift motors No rattles Deck lifts and lowers within 3-4 seconds (each way)
			Method of Inspection	Visual inspection	Visual inspection	Push cart and let roll	Roll cart at walking speed and apply brakes	Lock brakes for 10 minutes then push on cart with brake still locked	Operate lift system up and down several times electrically
Cart Serial No:	Customer:	Estimated Usage:	Description	Cart is straight and properly aligned	No damage or excessive wear	Cart rolls smoothly	Brakes are responsive when applied	Holding brake remains active over time	Electrical operation
Cart	Cus	Estil	Area	General Inspection	General Inspection	General Inspection	General Inspection	General Inspection	Lift System

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	AGL	INER *							
Notes									
Timing	Daily	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly
Findings Pass or Fail									
Normal Condition	 Unit should run smoothly in either direction No rattling or excessive noise 	 Labels are in place and not coming loose Labels are in good condition Red stripes are in place and in good condition 	 Straight sections Smooth curves Flat surfaces Minor scratches and dings are expected 	 Plate should be flat and free of damage or excessive wear Plating should not be cracked or damaged Mounting screw should be tight 	Straight sectionsSmooth curvesFlat surfacesMinor scratches and dings	Screws are tight	No leaks (rag remains dry)	No visible damageSmooth operation	• Parts are tight to mounting surfaces
Method of Inspection	Operate Fwd/Rev switch several times	Visual inspection	Visual inspection	Visual inspection	Visual inspection	Manual inspection	Wipe around fittings and master cylinder with dry rag	Visual inspection Operate brake	Manual inspection
Description	Electrical	Warning and branding labels are in good condition	Frame is in good condition No damage No excessive wear	Containment strap plate	Deck is in good condition • No damage • No excessive wear	Yoke screws are not loose in deck	No system leaks • Fittings on master cylinder, connecting block & calipers • Master cylinder body • Caliper body • Hoses	Brake lever in good condition and operating properly	Mounting screws tight • Master cylinder mount to handle • Master cylinder cap • Connecting block to base of enclosure • Caliper mounting
Area	Propulsion System	General Inspection	Frame	Frame	Deck	Deck	Brake System	Brake System	Brake System

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Notes								
Timing	Weekly	Daily	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly
Findings Pass or Fail								
Normal Condition	 Mounting screws on brake disc are not backing out Brake disc is mounted tightly to the center wheel 	No visible damageBrake locks in place	Wheels and tires are free of damage	 Components are not damaged and operate freely Main axle plating is not cracked or damaged 	Components are tight to mounting surfaces	 Straight sections Smooth curves Flat surfaces Minor scratches and dings are expected 	Grips are not worn or damaged	Belt should be free of tears and abrasions Plating on buckle should not be cracked or damaged Mounting screws should be tight Mounting tab should not be bent or damaged Belt should retract into housing such that only the buckle protrudes Housing should not be cracked or damaged Strap tongue should rotate freely
Method of Inspection	Visual inspection	Visual inspection Set brake	Visual inspection	Manual inspection	Manual inspection	Visual inspection	Visual inspection	Manual / Visual inspection
Description	Mounting screws on brake discs are tight	Holding brake pawl in good condition and operating properly	Wheels and tires are in good condition	Components are straight and undamaged Front wheel mounting yoke Main axle Rear swivel caster frames	External mounting screws are tight • Base plate mounting to frame • Enclosure mounting or base plate • Handle mounting screws • Switch mounting hardware is tight	 Handle, enclosure and door are free of damage and in good condition Door latches are fully functional 	Handle grips	Containment strap
Area	Brake System	Brake System	Suspension	Suspension	Operator Interface	Operator Interface	Operator Interface	Operator Interface



Notes											
Timing	Daily	Every 2 weeks	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
Findings Pass or Fail											
Normal Condition	 No cracks or damage. No loose mounting hardware. 	No loose componentsWiring harness are not damagedCheck connectivity	 No loose components Wiring harness are not damaged Check connectivity 	Fluid level up to notch in master cylinder reservoir	No visible damage or wear	Wheel should continue to rotate several times before stopping	Wheel should continue to rotate several times before stopping	All hardware is tight	Lift system mount screws are tight to frame; deck mounting screws are tight	All hardware is in place and in good condition	 Components move freely up and down the screws Screws are straight Screws are clear of debris
Method of Inspection	Visual inspection	Manual inspection	Manual inspection	Visual inspection	Visual inspection	Spin wheel	Manual inspection	Manual inspection	Manual inspection	Visual inspection	Visual inspection
Description	Buttons and switches	Lift system • Limit switches • Motor	Propulsion system • Motor • Clutch	Fluid level	Hose without damage, abrasion, wear	Brake discs have minimal rub and warp	Wheels and casters spin freely	 Mounting hardware is tight Front wheel yoke Rear caster frame Main axle mounts to frame and axle clamp Nuts for main wheels 	Lift system mount screws to frame and deck are tight	Hardware is properly installed and undamaged	Acme screws
Area	Electrical	Electrical	Electrical	Brake System	Brake System	Brake System	Suspension	Suspension	Lift System	Lift System	Lift System



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Notes													
Timing	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Quarterly	Quarterly	Quarterly
Findings Pass or Fail													
Normal Condition	Propulsion system mount screws are tight to frame	All hardware is in place and in good condition	 No loose or missing fasteners Approximately 1/4" play in chain when pushed between sprockets 	Components are tight to mounting surfaces	No cracks or damage	 Rod is straight with no signs of wear Rod plating is not cracked or damaged 	Blocks are not damaged or worn and move freely in the vertical slide	No loose connections, crimps or solder joints					
Method of Inspection	Manual inspection	Visual inspection	Visual inspection	Manual inspection	Visual inspection	Visual inspection	Visual inspection	Visual inspection	Visual inspection	Visual inspection	Visual inspection	 Visual inspection Cycle deck up and down several times 	Manual inspection
Description	Propulsion system mount screws to frame and deck are tight	Hardware is properly installed and undamaged	 Mounting hardware is properly installed and tightened Chain tension is within acceptable range 	Internal mounting hardware is tight • Vertical slide mounting screws • Guide block cotter pins in rod	No cracked welds	Front caster plate	Base plate	Enclosure	Frame - general	Handle cross bar	Vertical slide rod	Guide blocks	Wiring Wire connections Wire crimps, connectors and solder joints
Area	Propulsion System	Propulsion System	Propulsion System	Operator Interface	Welds	Operator Interface	Electrical						



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Notes								
Timing	Quarterly	Quarterly						
Findings Pass or Fail								
Normal Condition	 No loose components Wiring harness connectors are securely in place Wiring harnesses are not damaged 	 Deck should move through entire range of motion without tripping circuit breaker Buttons should not stick in down position 						
Method of Inspection	Manual / Visual inspection	Cycle deck up and down several times						
Description	Control boards	Operation						
Area	Electrical	Electrical						



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