

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.



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 |
|-------------|----------------|



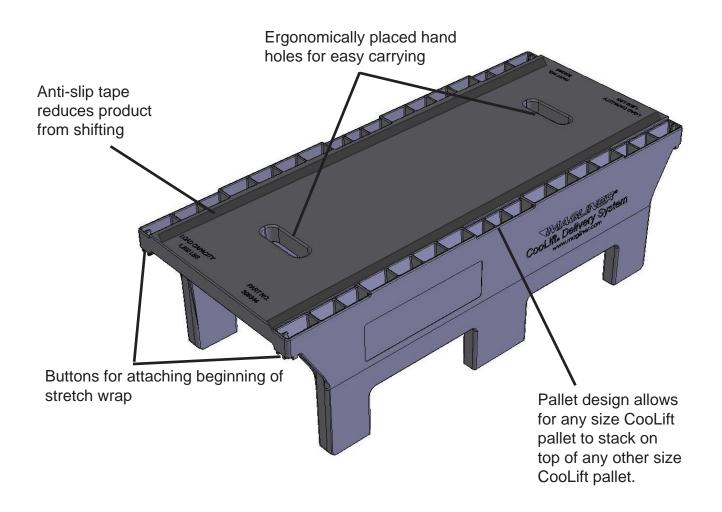


Pallets

General Pallet Information:

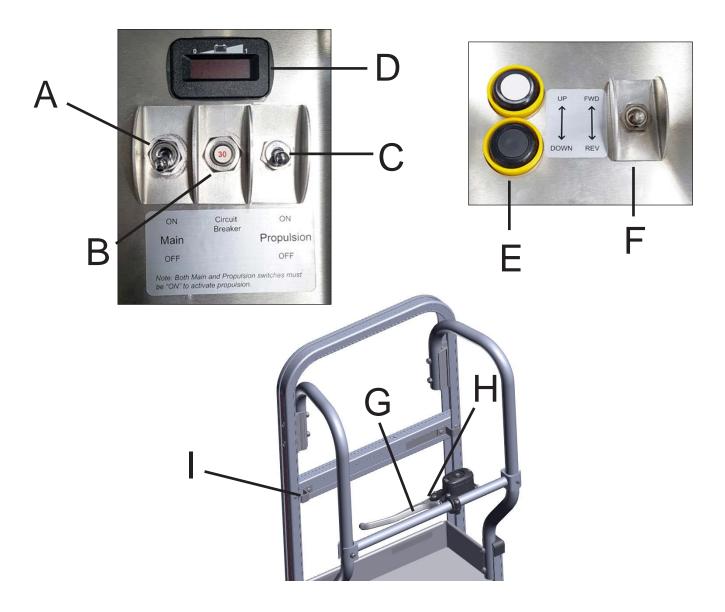
- Always load within capacity limit.
- Always load within pallet footprint; do not allow load to hang over pallet.
- CAUTION: When using any multiple load handling system (such as a triple-double) to move the CooLift pallets, do not spread the forks while underneath pallet as it may result in pallet 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 unit can be driven forward when the switch is pushed upward or in the middle position. 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

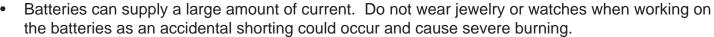
General Propulsion Assist Warnings:

- 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.



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.



- 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.



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.

Battery Charging

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





A built-in Magliner AC charger (part #63004 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 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. Ensure there is proper ventilation in area used for battery charger and batteries.
- ✓ 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. To prevent arcing or burning near batteries, do not disconnect the charger output connector from the charging port when the battery charger is in operation. If an interruption of the charging cycle is desired, move the battery charger switch to OFF, disconnect it from the power supply source and then disconnect the charging connector from the charging port.
- ✓ To avoid damage to battery charger connectors and cords, disconnect by grasping the plug body and pulling it straight out of the outlet or receptacle. 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 battery needs 5 hours to fully charge.

- 1) Connect the AC charger plug to an AC outlet (120v domestic or 230v international
- 2) Disconnect the charging unit from the charging port.

The LED will illuminate to indicate one of the following conditions:

Solid Yellow – Battery is charging

Solid Green – Battery has fully charged and is ready for use

Flashing Green – The output is not connected; check all connectors and fuses

NOTE: There are two operational fuses on the charging unit located at each end. A spare fuse is located adjacent to the main power connection.

Note: Battery may be charged as often as desired. Magline recommends charging at least once after each delivery route is complete.



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?
- ✓ Is the battery box connected correctly?
- √ Have all electrical connections been checked?
- ✓ Is there any damage to the plug or cord?
- ✓ Is the internal charger switch in the ON position?
- ✓ Is the charger working correctly?
- ✓ Is the power plug plugged in the charger socket?
- ✓ Is the charger output cord plugged into the battery pack charger port?

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.



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Required Maintenance Procedures and Inspection Log

| |): | Notes | | | | | |
|-------------------|----------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maintenance Date: | Completed By (name): | Frequency | Every 2 Weeks | Monthly | Monthly | Monthly | Monthly |
| Mainten | Comple | 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: | Customer: | Related Components | Entire system | Limit Switch | Acme lead screws | Lift chain (front of deck) lubrication | Lift chain (front of deck) tension |
| Ç | JO | Area | Lift System | Lift System | Lift System | Lift System | Lift System |



| Area | Related Components | Maintenance Instructions | Frequency | Notes |
|------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|
| | Drive chain Iubrication | 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. | Monthly | |
| | Drive chain tension | 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 | Monthly | |

| | | | Notes | | | | | | |
|------------------|-------------------|------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | 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 | Cusi | Estir | Area | General Inspection | General Inspection | General Inspection | General Inspection | General Inspection | Lift System |

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| 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 |
| 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 |
| 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 components Wiring harness are not damaged Check 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 |



| | | | <u> </u> | | | | | | | | | | |
|-----------------------------|------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 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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