

October 15, 2004



**Roped Hydraulic
Limited Use/Limited Application
LU/LA Elevator
OWNER'S MANUAL**

Authorized Custom Elevator Representative:

Company Name:	
Address:	
Phone #:	

Model # _____ HYD-1430 _____

Serial # _____

Installation Date _____

INTRODUCTION

Thank you for purchasing a Limited Use/Limited Application elevator manufactured by Custom Elevator Manufacturing Co. Inc. You will soon discover the benefits and convenience your LULA elevator will add to your facility.

With proper care and periodic maintenance, we are sure that you will find your Custom Elevator to be the most durable, safe, and trouble-free elevator available on the market today.

This manual provides operating instructions, safety precautions, troubleshooting, maintenance, and warranty information that must be read and understood prior to operating your elevator. This manual should be retained for future reference. Any scheduled maintenance, service, or repairs performed should be recorded in the service/maintenance log found in this manual. In addition, you should complete and mail the warranty registration card in order to validate the warranty.

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IMPORTANT SAFETY PRECAUTIONS

This elevator is designed and manufactured in accordance with ASME A17.1 Part 5.2/CSA B44-00, safety code for elevators and escalators. This is a power passenger elevator in which the use and application is limited by size, capacity, speed, and rise and is intended principally for persons with disabilities.



This safety alert symbol will be found throughout this manual and on various components of the elevator.

This symbol is used to alert you of a hazard that could cause injury to yourself or others and what you can do to avoid the hazard.

The following is a list of safety instructions that must be understood and followed by everyone operating the elevator. Failure to follow these instructions can result in severe injury or death.

- Read and understand the contents of this manual prior to attempting to operate the elevator.
- Never allow children to operate the elevator unattended.
- Never overload the elevator beyond its rated capacity. Do not use the elevator to transport freight.
- Always watch your step when entering or exiting the elevator. Be certain that the elevator sill is level with the landing sill.
- Never allow unauthorized persons to access the machine equipment.
- Never use the elevator in case of smoke or a fire.
- Never operate the elevator if you should detect any abnormal operation, unusual sounds, or recognize damage to any parts of the elevator.
- Never bypass any safety devices.
- Never lean against the car doors or landing doors.
- Make certain that the telephone and alarm located in the elevator cab are operable at all times.
- Never enter the hoistway above or below the elevator.
- Never remove covers from the control equipment.
- Always keep equipment room locked and keep access to the equipment clear in case of an emergency.
- The elevator hoistway and machine area must be kept dry.
- Never try to extract anyone from the elevator if it has stopped between floor levels.
- Never allow pipes, conduits, ducts, and other unrelated utilities to run through the elevator hoistway.
- Never attempt to repair or service the elevator yourself. Call an authorized Custom Elevator Representative for service.

CONTROLS & FEATURES

➤ **CAR CONTROLS:** located in the elevator cab (reference figure A)

1. **Digital car position indicator with car direction arrows:** Displays the floor number at which the car is located and displays an arrow indicating the direction that the car is traveling. Also contains an audible signal that sounds when the elevator stops at or passes a floor.
2. **Emergency car light:** Upon loss of power, the emergency car light will illuminate for a minimum of (4) hours.
3. **Fire fighters controls (optional):** When equipped with fire fighter's emergency operation, the visual indicator will illuminate and an audible signal will sound as the elevator car returns to the designated floor on fire service operation. The key switch and "call cancel" button are to be used by emergency personnel.
4. **Cab light key switch:** Used to turn the car lighting on and off. If left in the on position, the lights will time out automatically after (3) minutes and illuminate when the elevator is called or if a door is opened.
5. **Car push buttons:** Used to send the elevator to a desired landing. The button will illuminate indicating that the car call has been registered and will extinguish upon arrival at the selected landing.
6. **Tactile/Braille tag:** Tactile characters and Braille are placed to the left of each control button identifying their function.
7. **Door open button:** Momentary pressure on this button causes the doors to stop and reopen.
8. **Door close button (optional):** Momentary pressure on this button causes the door open timer to expire after doors reach full open.

9. **Alarm push button:** This button should be pushed and held to activate the alarm siren in the event of an emergency. It is used to alert others.
10. **Keyed emergency stop:** The elevator will stop movement when activated. Remember to always deactivate during normal operation, otherwise the elevator will not run.
11. **Phone box:** A telephone connected to a central telephone exchange must be maintained in working order in this box at all times. This telephone is to be used to call for assistance in case of an emergency.



A working telephone must be maintained inside the elevator car at all times.

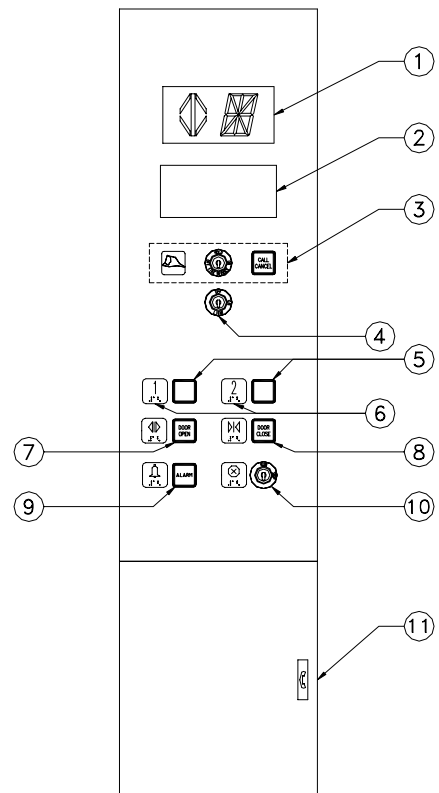


FIGURE A

➤ **Car Travel Lantern: located near car entrance visible from the hall (reference figure B) (optional).**

This visible and audible signal is used to indicate the direction of car travel after the elevator arrives at a landing and the doors reach full open. The audible signal sounds once for up direction and twice for down direction.

➤ **Landing Controls: located near each landing door (reference figure C).**

1. **Call push button:** This button is used to call the elevator to the landing. The button will illuminate indicating that the call has been registered and will extinguish when the elevator arrives at the landing.

2. **Hoistway access key switch (optional):**

This key switch is used by service personnel to access the top of the elevator car from the landing thus enabling car movement with the doors open.

2. **Fire service key switch (optional):**

This key switch is used by fire fighters emergency personnel to recall the elevators in case of a fire.

➤ **Automatic releveling:**

This elevator is equipped with an automatic releveling device which will maintain the elevator at floor level (+/- 1/2") during loading and unloading regardless of the car door or landing door position.

➤ **Homepark feature:** When programmed by your authorized Custom Elevator representative, the elevator will automatically return to a designated landing after (1) minute without use.

➤ **Battery lowering:** In the event of a power failure, the elevator will automatically descend to the homepark landing, wait (30) seconds, then proceed to the bottom landing providing all hoistway doors and car door(s) are securely closed. If your elevator is equipped with power doors, the doors will open and close automatically during a power failure.

➤ **Door safety edge:** Each car door is equipped with a full height infrared light curtain that causes the doors to stop and reverse when closing if an obstruction is detected in the door opening.

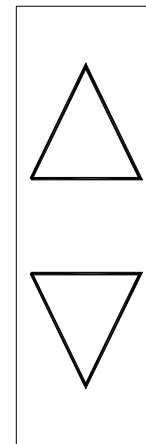


FIGURE B

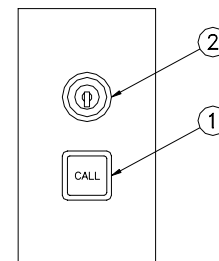


FIGURE C

OPERATION INSTRUCTIONS

NOTE:

If the elevator is equipped with manually operated car and/or hoistway doors, the elevator will not be operable if a landing door or car door is in the open position. Additionally, the emergency stop button located in the car controls must be in the run position.

- **OPERATING THE ELEVATOR FROM A LANDING CONTROL:** Press and release the call button. The call button will illuminate indicating that the hall call is registered. When the elevator arrives at the landing, the call button will extinguish. When the elevator arrives, the doors will open automatically, or simply open the landing door and car door if manually operated, then enter the elevator.

NOTE:

When the elevator is running, no other car or landing calls can be registered unless the controller is programmed for "collective operation" which will allow several calls to be registered, then each call is responded to in the direction that the elevator is traveling. This feature must be activated by your authorized Custom Elevator representative.

- **OPERATING THE ELEVATOR FROM THE CAR CONTROLS:** After entering the elevator from a landing remember to close the landing door and car door(s) securely (if manually operated) before attempting to operate the elevator. Otherwise the doors will close automatically after placing a call or after the door open timer has expired.

NOTE:

To reopen the car door while closing, press the door open pushbutton.

Push and release the car pushbutton for the designated landing that you wish to go to. The pushbutton will illuminate indicating that the car call is registered. The car direction arrow will illuminate indicating the elevator's direction of travel. Upon arrival at your selected landing, the car pushbutton light will extinguish. After the elevator comes to a complete stop, open the car door and landing door (if manually operated), otherwise the doors will open automatically, then exit the elevator.

Remember to close the car door and landing door (unless automatically operated) while exiting the elevator so that it will be ready for use again.

NOTE:

The car lights will automatically turn off after (3) minutes when the elevator sits idle and all doors are in the closed position.

MAINTENANCE & CARE

Although your elevator is designed and manufactured to minimize the need for service and repairs, regular preventative maintenance and equipment inspections should be performed every (6) months, or sooner as required by regulations of local authorities. A preventative maintenance program will prolong the life of the equipment. Check with your authorized representative or local authorities for requirements with regard to inspections and tests called for by the regulations of such authorities.

All maintenance and service should only be performed by an authorized Custom Elevator representative. Remember, as the owner, you are responsible for having maintenance performed on a regular schedule and it is recommended that any work performed on your elevator be recorded in the maintenance log on the following page. An accurate log may be necessary when validating a warranty claim.



Do not attempt to maintain the elevator yourself. Call an authorized Custom Elevator representative for service.

TROUBLESHOOTING

If the elevator should fail to operate after following the operation instructions in this manual, check the following to prevent an unnecessary service call.

- ☐ Verify that the emergency stop switch located in the car control panel is in the run position.
- ☐ If calls are key operated, assure that key is in the "on" position.
- ☐ Check that door sills are clear of obstructions so that doors can fully close securely.
- ☐ If car and/or hoistway doors are manually operated, assure that all doors are securely closed.
- ☐ Verify that the service disconnect switch is turned on.
- ☐ Check for a tripped circuit breaker in your main service panel.

If after checking the above items the elevator still fails to operate, contact an authorized Custom Elevator representative for service.



Do not attempt to repair or service the elevator yourself. Call an authorized Custom Elevator representative for service.

SERVICE/MAINTENANCE LOG

DATE	REASON FOR SERVICE	WORK PERFORMED	COMPANY PERFORMED BY	PREVENTATIVE MAINTENANCE	TECHNICIAN'S INITIALS

GENERAL SPECIFICATIONS

CAPACITY	1400 lbs (optional)
CAR SPEED	30 FPM
OPERATION	AUTOMATIC
POWER	220 Volt, Single Phase, 60 HZ
CONTROL VOLTAGE	24 VDC
CAR LIGHTING VOLTAGE	115 VAC
DRIVE SYSTEM	Roped 1:2 Hydraulic
MOTOR	5HP, 1750 RPM, Capacitor Run
PUMP	Rotary Screw, Constant Displacement
VALVE	Blain Hydraulic, EV-100, (4) Coil, (2) Speed
JACK ASSEMBLY	3-7/16" Piston / 5-9/16" Cylinder, Single Stage
SUSPENSION	(3) 3/8" Diameter, 6 x 19, Traction Steel
SAFETY DEVICES	Governor actuated Instantaneous Car Safeties
	Pipe Rupture Valve
	Manual Lowering Device
	Battery Lowering
	Slack Cable Switch
	Top Final Limit
	Emergency Car Lighting
	Infrared door edge

LIMITED WARRANTY

In these conditions the “**seller**” shall mean Custom Elevator Manufacturing Co. Inc. and the “**purchaser**” shall mean the authorized representative of Custom Elevator Manufacturing Co. Inc. who purchases the goods from the seller.

The seller warrants, to the original purchaser, that this product is free from defects in material and workmanship, under normal use and maintenance, for a period of (2) years on the major components of the drive train *, and (1) year on other parts, from the date of shipment. The warranty registration card must be completed and returned to Custom Elevator Manufacturing Co. Inc. within (30) days of shipment to validate the warranty.

The warranty is conditioned on written notice to the seller within the warranty period of the claimed defect. Warranty is further conditioned upon reasonable opportunity afforded to the seller to test or inspect the claimed defect. Limit of responsibility of the seller under this warranty shall be to repair or replace defective items, including reasonable transportation charges thereof.

This warranty does not cover labor charges for diagnosis, repair, removal, or installation of any replacement parts. All replacement parts, whether new or remanufactured, assume the warranty period to be only the remaining time period of this warranty. Additionally, this warranty does not cover lightbulbs, hydraulic seals, batteries, physical damage or defects caused by or occurring in transit or shipment, or by accident, misuse, abuse, neglect, lack of maintenance, improper installation, modifications or repairs made by other than an authorized representative of the Seller, alterations, overloading, structural conditions, acts of God (flood, lightening, fire, etc.) or exposure to abnormal conditions of temperature, moisture, dirt, corrosion, etc. In addition, failure to run or damage caused by inadequate or interruption of electrical service resulting in blown fuses and or open circuit breakers is not covered.

No other warranties are made, expressed or implied, including any implied warranty of merchantability or of fitness for a particular purpose, shall extend this warranty. No responsibility is assumed for any incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

* Major drive train components consist of pump, motor, and valve (excluding solenoid coils), and hydraulic jack unit including pipe rupture valve (excludes jack seals).

To obtain warranty service or to make a claim under this limited warranty, promptly notify the authorized Custom Elevator representative that performed the installation who will be responsible for handling the warranty claim. The claim must be received by our representative within the warranty period. Custom Elevator will repair or replace any items with defects in materials or workmanship including reasonable transportation charges. Labor and/or service charges incurred in the diagnosis, repair, or replacement of a defective part is not included in this limited warranty.

Important: The warranty registration card must be completed and returned to Custom Elevator Manufacturing Co. Inc. within (30) days of shipment in order to validate the warranty.

➤ **OWNER SATISFACTION:**

Your satisfaction and goodwill are extremely important to us and our authorized representatives. Any problems concerning your elevator will be handled by our representative's service department. If you have a warranty problem that has not been handled to your satisfaction, we suggest that you take the following actions:

- Discuss your problem with the service manager of the authorized company that performed the installation/warranty claim. If the problem has already been reviewed by a manager, contact the president or the owner of the company.
- If your problem has still not been resolved to your satisfaction, notify our customer service department

Custom Elevator Manufacturing Co. Inc.
Customer Service Dept.
P.O. Box 749
5191 Stump Road
Plumsteadville, PA 18949

Toll Free: 888-443-2800
Phone: 215-766-3380
Fax: 215-766-3385
Email: info@customelevatorinc.com

We will require the following information to assist you:

- Your name, address, and phone number
- Elevator model and serial number
- Date of installation
- Name of authorized Custom Elevator representative
- Nature of problem

Upon receipt of the above information and a thorough review of all of the facts, you will be advised of what action can be taken. Please remember that your problem will likely be handled by the representative that performed your installation/service, so it is very important that your initial contact be with them.

Your purchase of a Custom Elevator product is greatly appreciated. We want to assist you in every way possible to assure your complete satisfaction.

NOTE:
This diagram is intended for persons having necessary skill in servicing this equipment.

