

# LULA Owner's Manual





# Lula Owner's Manual

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Vertechs Elevator Systems®  
31-130 Cedar Street • Suite 123  
Phone 519.621.8443 • Fax 519.621.3211

**[Vertechselevators.com](http://Vertechselevators.com)**

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# Introduction

**L**ULA (Limited Use Limited Application)

Congratulations! Your Vertechs LULA small commercial elevator was a wise investment. It will give you years of safe and reliable transportation.

One of the ways to enhance the performance of your new elevator is to read this manual. In it, you will learn how to operate the unit properly and required maintenance.

Proper maintenance of your elevator will result in a trouble-free system while it preserves your investment. Keep in mind that the dealer's technicians are specially trained in servicing Vertechs systems and dedicated to your satisfaction.

## Important

**T**he Lula Elevator must be installed, maintained and serviced by an authorized VERTECHS

DEALER only! Under no circumstances is anyone other than a trained and authorized Vertechs dealer to install, adjust, service or modify any mechanical or electrical device on this system. Failure to follow this warning can result in the safety system being compromised or defeated, which could result in serious injury or death. Vertechs Elevator Systems accepts no liability for property damage, warranty claims or personal injury, including death, in this circumstance.

Elevator passenger safety is the result of countless details in the equipment's design, manufacture, installation, operation and maintenance. After installation, service and inspections are to be carried out on a regular basis, more frequently where usage or environment dictates or as required by local jurisdiction.



# Vertechs LULA at a glance

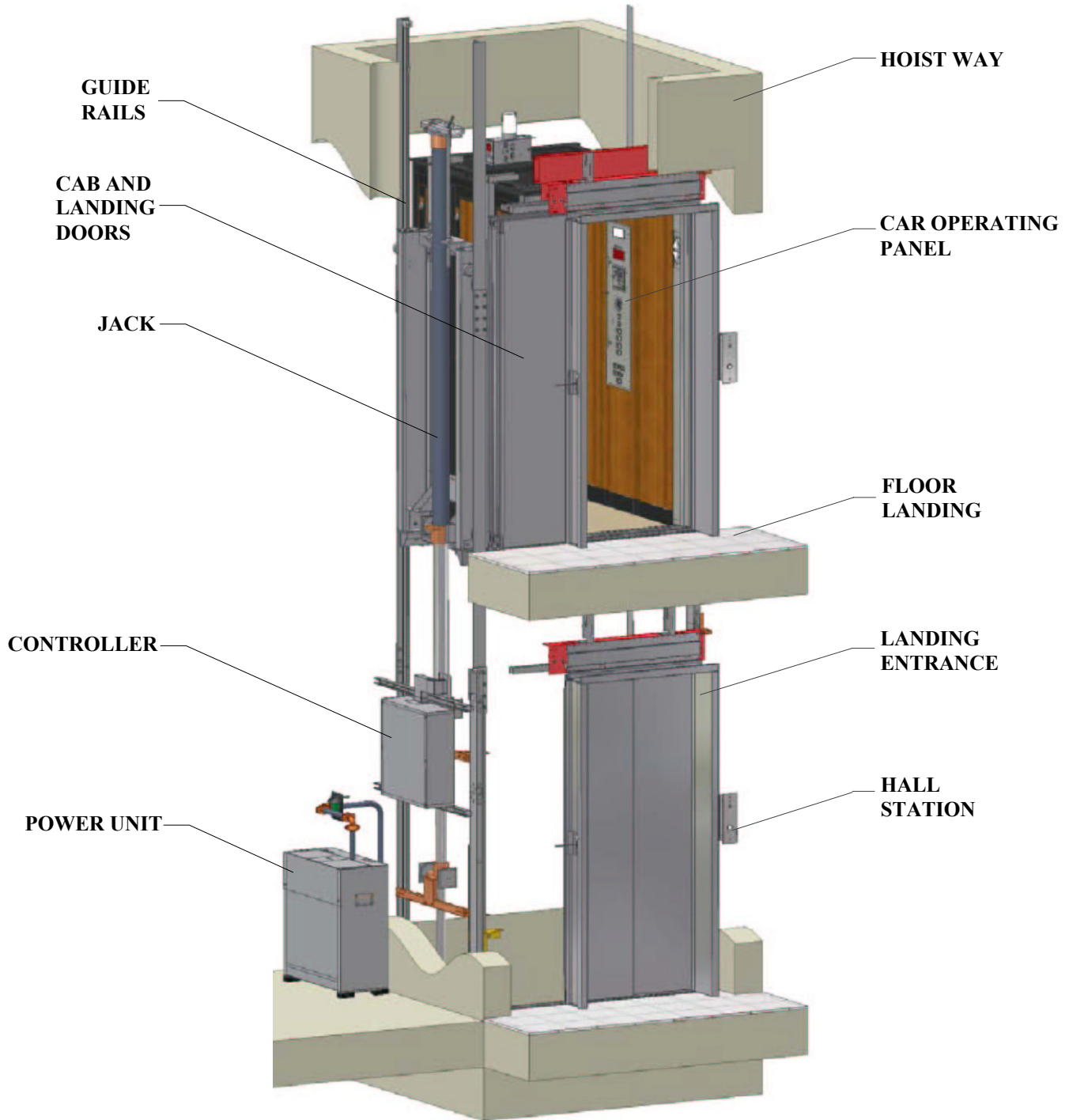


Fig. 1.1 (Main Elevator System )



# General Specifications

## General

- **Drive:** 1:1 Direct Hydraulic System
- **Capacity:** 1400 lb. (636 kg)
- **Total Gross Load:** 3000 lb. (1360 kg)
- **Speed:** 30 fpm
- **Max. Travel:** 25 ft. Max.

## Cab Sizes

- 42" w x 60" d x 84" h
- 48" w x 54" d x 84" h

## Standard Equipment

- **Cab Entrance:** Stainless Steel (#4 Brushed Finishes)
- **Cab Doors:** Two Speed Fully Automatic Sliding Doors (Powder Coated Beige)
- **Landing Entrance and Doors:** Two Speed Fully Automatic Sliding Doors (Powder Coated Beige)
- **Door Sills:** Clear Aluminium
- **Floor:** Unfinished Plywood (To Be Finished On Site)
- **Handrail:** Clear Aluminium (#4 Brushed Finish)
- **Cab Panels:** Fire Rated (With Plastic Laminate Finish)
- **Cab Ceiling:** Aluminium Egg-Crate
- **Lighting:** Automatic On/Off 3 Florescent Lights
- **Operation:** Full Selective Collective
- **Hall Stations:** #4 Brushed Stainless Steel with Illuminated Buttons
- **Car Operating Panel (C.O.P):** #4 Brushed Stainless Steel with Illuminated Buttons, Stop Key Switch and Emergency Light
- **Position Indicator:** Digital Floor Position Indicator in Car
- **Telephone:** A.D.A. Hands-Free Speaker Phone
- **Car Top Inspection:** Run/Stop Inspection Station c/w Light and Enable/Disable Controls

## Main Components

- **Guide Rails: 8lb T-Rail**  
Pre-Welded for Precise Alignment)
- **Car Frame:** OLS Direct 701 Cantilever System
- **Power Unit:** GMV Ultima
- **Motor/Pump:** Submersible for Quiet Operation
- **Control Valve:** GMV 2 Speed with Soft Stop
- **Jack:** GMV Mechanically Synchronized Telescopic

## Controls

- **Elevator Controller:** CSA/TSSA Approved 360 Micro-Processor Controller
- **Wiring:** Fully Plug and Play Harnesses

## Power Requirements

- **Main:** 240V or 208V Single Phase
- **Lighting:** 110V Single Phase

## Options

- **Cab Doors:** Stainless Steel (#4 Brushed Finish)
- **Landing entrance & Doors:** Stainless Steel (#4 Brushed Finish)
- **Buffer Springs:** (Solid Bumpers are Standard)

## Standard Safety Features

- **Automatic Backup System**
- **Manual Emergency lowering**
- **In Car Alarm**
- **Automatic Door Interlocks**  
(Preventing Landing Door Opening When Car not at the Floor)
- **Mechanical/Magnetic Door Restrictor**  
(Preventing Car Door Opening When Car Not at Floor Level)
- **Line Rupture Valve (LRV):** Hydraulic Safety Valve
- **Auto Re-levelling:** Anti-Creep Re-Levelling System
- **Micro-Scan Motion Detectors**  
Detecting Obstruction in Doors path, causing doors to reopen.



# Cab Standard Controls

(A) **RUN/STOP KEY SWITCH**

Key switch turns the cab control to RUN and to STOP at any time. It is provided to limit the use of the elevator to authorized personnel only.

(B) **FLOOR BUTTONS**

Floor buttons facilitate UP/DOWN movement of the elevator between landings. Once a floor button/s are pressed, the elevator will automatically move to selected floors.

(C) **DOOR CLOSE BUTTON**

Door will close automatically after a pre-set adjustable time between 3-20 seconds. This button can be pressed to close door faster.

(D) **DOOR OPEN BUTTON**

Doors close automatically after a pre-set adjustable time between 3-20 seconds. This button can be pressed to re-open door.

Note: If button is kept pressed the door will stay opened.

(E) **POSITION INDICATOR**

The position indicator displays the floor the elevator is at and the direction the elevator is moving in.

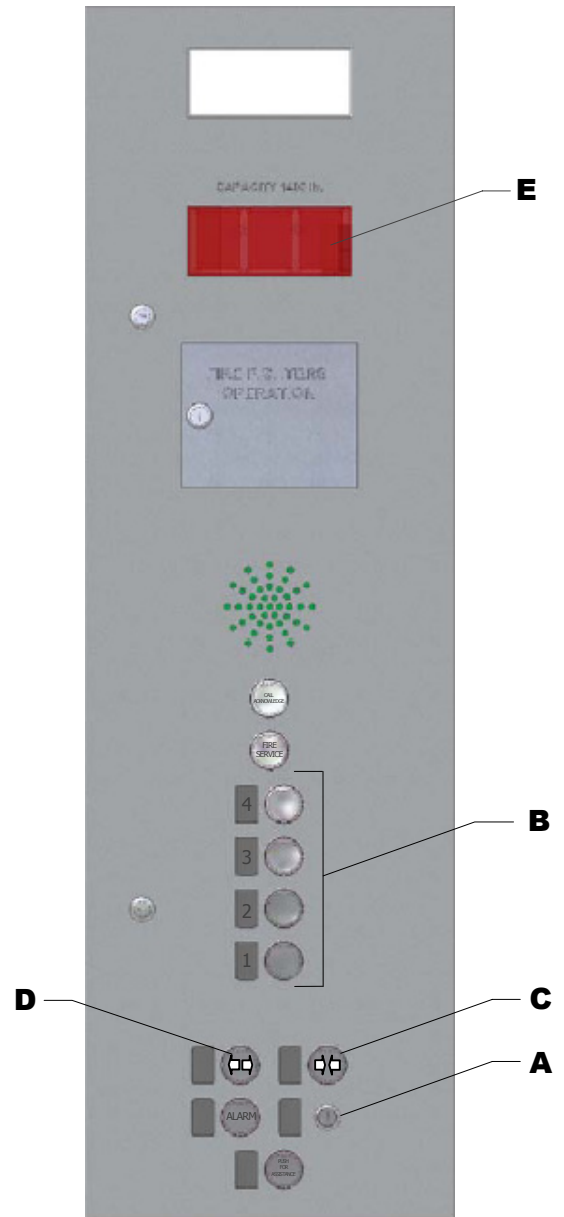


Fig. 1.2 (Main cab panel )



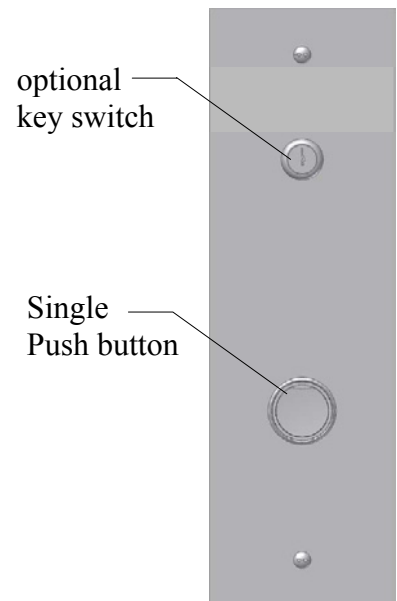
# Hall Station Operations

## SINGLE BUTTON HALL STATION

Single button hall stations are installed at bottom and top landing.

To call the elevator, press and release push button making sure the button lights up, meaning the call has been registered.

Note: An optional key switch can be provided to restrict the elevator's use to authorized persons only.

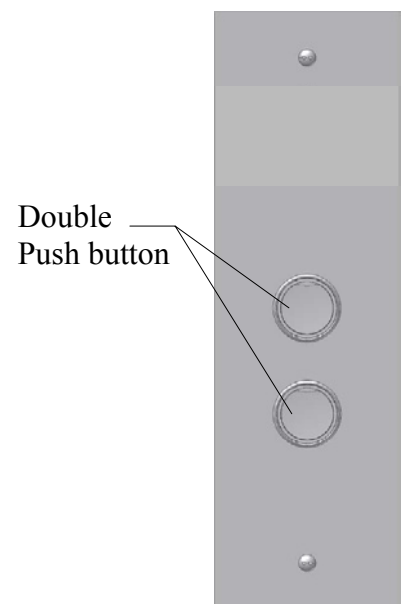


**Fig. 1.3 (Single Hall Station )**

## DOUBLE BUTTON HALL STATION

Double button hall stations are installed at intermediate floors.

To call the elevator when going to upper floors, press and release top push button, when going to lower floors, press and release bottom push button. This is to ensure elevator stops at the floor only when moving in the desired direction.



**Fig. 1.4 (Double Hall Station )**



# Cab Emergency Controls

## (F) PUSH FOR ASSISTANCE BUTTON

This button can be pressed at any time to activate the emergency telephone. Pressing the button down for approximately 3 to 10 seconds will automatically dial a pre-programmed emergency number.

Note: If the call is not answer the telephone automatically will dial next pre-programmed numbers until the call is answered.

## (G) ALARM BUTTON

This button can be pressed at any time to sound the alarm in case of emergency.

## (H) EMERGENCY LIGHT

In the event of a main power failure the emergency light will automatically turn on and stay on until main power is restored.

## (I) FIRE SERVICE CONTROL PANEL (optional)

The fire service control panel allows firemen to operate the elevator during an emergency.

Notes: -When fire service is activated the elevator will only respond to fire service controls.  
-Fire service is optional in the US  
-Fire service is not required/nor available in Canada.

## (J) SPEAKER PHONE

The call acknowledge light will turn on after a call has been placed and the call is answered.

## (K) CALL ACKNOWLEDGE LIGHT

After the push for assistance button is pressed to place an emergency call, the call acknowledge light will start flashing and when call is answered, the light will stay on until call is cancelled.

## (L) FIRE SERVICE LIGHT

Fire service light turns on when fire service is activated.

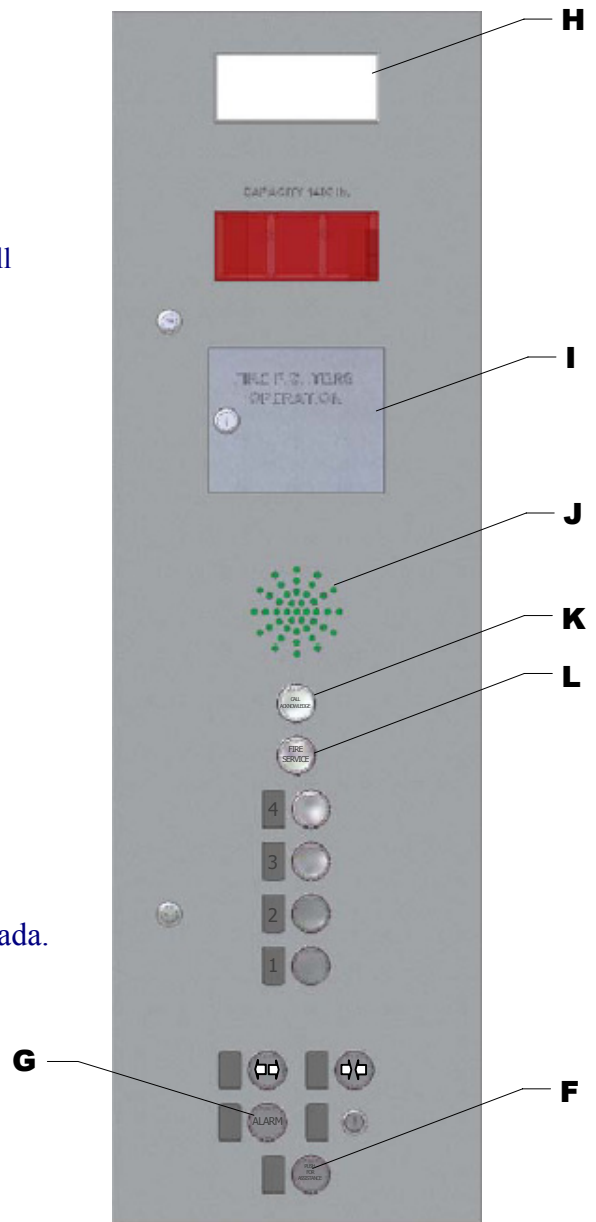


Fig. 1.5 (Main cab panel )



# Emergency Essentials

## POWER FAILURE

### **Battery back up**

In the event of a power failure, the elevator is equipped with a Battery Back-UP system that will lower the elevator automatically to the lowest floor, open the doors, allow the passenger/s out and then stay in stand still mode until the main power is re-stored.

### **Notes:**

- The elevator will not respond to calls until main power is re-stored.
- The power backup system will not work when main power is manually turned off from the main disconnect.

### **Emergency Lights**

In the event of a main power failure, the emergency cab light will light automatically.

### **Emergency Hands Free Phone**

- 1) In case of emergency the Hands-Free Telephone will allow anyone to place a call to the already programmed number/s by pressing the push for assistance button.
- 2) After push for assistance button is pressed, the Call acknowledge signal will light up showing that the call has been placed. The system will automatically keep dialing numbers until the call is answered.

## PEOPLE TRAPPED IN THE ELEVATOR

In the event of the elevator not responding to standard controls and/or not opening the doors to allow people out. **DO NOT TRY TO DISABLE THE UNIT OR FORCE THE DOORS OPEN**, as the unit is still under automatic operation and without warning can start moving at any time, causing serious harm or death to any one caught in its way.

- 1) Let people in the elevator know help is on its way.
- 2) Call your local service elevator company to report problem immediately.
- 3) If no immediate assistance is available from elevator company, call local fire department.



# Owner's Records

**JOB NAME:** \_\_\_\_\_

**JOB ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**JOB REF. No:** \_\_\_\_\_

**INSTALLATION  
DATE:** \_\_\_\_\_

**INSTALLATION  
COMPANY:** \_\_\_\_\_

**TEL. No:** \_\_\_\_\_ **(Head Office)**

**TEL. No:** \_\_\_\_\_ **(Emergency)**



## Product warranty

Vertechs Elevator Systems guarantees all equipment manufactured shall be free from defects in workmanship and materials when operated under normal conditions and in accordance with proper installation procedures. This warranty shall be in effect for a period of 24 months from the date of shipping.

This warranty shall be in lieu of any other warranty, express or implied, including but not limited to an implied warranty of merchantability or fitness for a particular purpose.

Vertechs Elevator Systems will repair or replace, at its discretion, any equipment which has been found to be defective and is within the warranty period, provided that the equipment returned is shipped with previous factory authorization and freight prepaid to the Vertechs facility. All return shipments are made F.O.B. factory. Vertechs Elevator Systems is not responsible for removal, installation or any other incidental expenses incurred in shipping the equipment to or from Vertechs Elevator Systems.

Vertechs Elevator Systems liability under this warranty shall be solely limited to repair or replacement of the equipment within the warranty period and terms. Vertechs Elevator Systems shall not be liable, under any circumstances, for consequential or incidental damages, including but not limited to, personal injury or labor cost.

Under no circumstances will Vertechs Elevator Systems be responsible for any expenses in connection with repairs made by anyone other than the factory, unless such repairs have been specifically authorized in writing.



# **Vertechselevators.com**

Vertechs Elevator Systems®  
31-130 Cedar Street • Suite 123  
Cambridge, Ontario  
N1S-5A5 CANADA

- Phone 519.621.8443
- Fax 519.621.3211

