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# **ORION COMMERCIAL “LULA” ELEVATOR OWNER’S MANUAL**

**(To Be Retained by Owner After Installation by Authorized Savaria Concord Dealer)**

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PN 000586 (Rev. 05-06-1)

## **IMPORTANT**

The Orion Commercial “LULA” Elevator must be installed, maintained and serviced by an authorized SAVARIA CONCORD DEALER only! Under no circumstances is anyone other than a trained and authorized Savaria Concord Dealer to install, adjust, service or modify any mechanical or electrical device on this lift. Failure to follow this warning can result in safety systems being compromised or defeated, which can result in serious injury or death. Savaria Concord Inc. accepts no liability for property damage, warranty claims or personal injury, including death, in this circumstance.

Lift and elevator passenger safety is the result of countless details in the equipment’s design, manufacture and installation. After installation, reliable operation and continued assurance of safe operation requires regular service and inspection to be carried out at least twice per year, or more frequently where usage or environment dictates or as required by local jurisdiction. The owner is responsible to ensure that regular service and inspections occur in a timely manner.

The owner must refer to this manual for operating instructions and precautions for usage of this Orion Commercial “LULA” Elevator.

On completion of installation, the dealer must provide the owner with the information below and ensure it is recorded in the owner’s manual. Any service and/or maintenance must also be recorded in the Maintenance Record section of this manual by the authorized Savaria Concord dealer or the owner.

## **WARRANTY**

Your Savaria Concord Dealer will provide a copy of the manufacturer’s limited parts warranty and documentation relating to any labour warranty offered by your Dealer.

To be completed by the Installing Dealer:

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<b>FOR OWNER’S RECORDS</b>	
Customer Name:	_____
Installing Dealer:	_____
Dealer’s Telephone Number:	_____
Date Installed:	_____
Serial/Job Number:	_____



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# ORION COMMERCIAL “LULA” ELEVATOR OWNER’S MANUAL

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**THIS PRODUCT IS DESIGNED AND MANUFACTURED TO EXACT SPECIFICATIONS. MODIFICATIONS OF THIS PRODUCT IN ANY WAY CAN BE DANGEROUS AND WILL VOID THE WARRANTY.**

# 1. GENERAL SPECIFICATIONS

<b>ORION COMMERCIAL “LULA” ELEVATOR</b>	
Load Capacity	1,400 lbs. (635 kg)
Rated Speed	30 feet per minute (0.15 m/s) (Nominal)
Power Supply	208 volt, 3PH, 30 amps or 230 volt, 1PH, 50 amps
Drive System	1:2 Cable Hydraulic
Cab Size	48" Wide x 54" Deep (1220 mm x 1372 mm) or 54" Wide x 54" Deep (1372 mm x 1372 mm) 51" Wide x 51" Deep (1295 mm x 1295 mm) or 54" Wide x 54" Deep (1372 mm x 1372 mm)
Maximum Travel	25 feet (7.6 m)
Maximum # of Stops	5 stops
Pit Depth Required	14" (356 mm) Minimum 96" (2438 mm) Maximum
Overhead Clearance (Minimum)	120" (3048 mm) – Existing Building 134" (3404 mm) – New Building
Control System	Single Automatic Push Button
Floor Selection	Magnetic Selector
Sub-Floor Material	1/8" Masonite over Plywood sub-floor
Control Panel Finish	Stainless Steel or Brass
Hall Station Finish	Stainless Steel or Brass
Motor	5 HP (3.73 kW)
Cab Panel Finish	Steel Cab with Plastic Laminate Finish
Lighting Supply	110 volt, 60 cycle, 15 amps
Door Opening	36" x 80" (890 mm x 2030 mm) nominal
Standard Features	<ul style="list-style-type: none"> <li>• Anti-Creep Re-leveling Device</li> <li>• Automatic Emergency Lighting</li> <li>• Automatic Timed Car Lighting</li> <li>• Car “In Use” Illuminated Hall Buttons</li> <li>• Digital Floor Indicator in Cab and Hall Stations</li> <li>• Emergency Lowering Valve at Pump</li> <li>• Hall and “In Car” Directional Indicators</li> <li>• Slack/broken Cable Safety Device</li> <li>• Stainless Steel Handrail</li> <li>• Tactile Plates</li> <li>• Upper, Lower and Final Limit Switches</li> </ul>

## 2. STANDARD FEATURES

### 1) Hoistway Access Keyswitch (Optional) (Figure 1-A)

The keyswitch turned to the **ON** position holds the cab doors open. Used with the Hoistway Access Hall Station Keyswitch to run the cab down and access the cab roof.

### 2) Call Cancel Button (Optional) (Figure 1-B)

Used with Fire Service, when pressed the button cancels all registered calls. The cab will stop at the next landing.

### 3) Phase 2 Fire Service Keyswitch (Optional) (Figure 1-C)

The keyswitch in the **ON** position enables cab controls as per Code B44 2.27. The keyswitch in the **OFF** position allows for normal lift operation. The keyswitch in the **HOLD** position holds the doors open when the cab is at a landing.

### 4) Cab Operating Panel (COP) Buttons (Figure 1-D)

The Automatic Control Panel buttons facilitate the UP/DOWN movement of the cab between landings. Once the selected landing button is pressed, the cab will automatically move to the landing. The cab will stop when the selected landing is reached.

### 5) Door Open/Close Buttons (Figure 1-F)

The elevator door will close automatically after a pre-set adjustable time in seconds. This button can be pressed to open/close the door when the cab is at a landing.



Figure 1 COP

## 6) Emergency Stop Keyswitch (Figure 1-G)

The keyswitch can be set to **Stop** at any time to stop the cab and activate the alarm buzzer.

## 7) Alarm Button (Figure 1-E)

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

## 8) Handrail

A single handrail is mounted to the Cab Operating Panel (COP) side of the cab below the COP.

## 9) Emergency Light

The COP emergency light remains **ON** in the event of a main power failure. The emergency light uses a Battery Back-Up system with an automatic recharger.

## 10) Landing Hall Call Station Controls (Figure 2)

Hall Call Stations are installed at all landings to move the cab to the landing from which it is being called. The position indicator displays the floor the cab is at. An optional keyswitch limits the elevator's use to authorized persons only. An optional Hoistway Access Hall Station Keyswitch enables service hoistway access, used with the COP Hoistway Access Keyswitch.



**Figure 2** Keyed Hall Call

## 11) Landing Door and/or Gate Interlock

The Landing Door/Gate lock prevents the movement of the cab unless the door/gate is in the closed and locked position. If the door/gate is not completely closed, the cab will not move.

## 12) Emergency Battery Operation

In the event of a building power failure, the door/gate system is provided with a temporary power back up system to continue the opening operation for a number of times. On resuming normal building power, the back up system will turn **OFF** and begin automatic recharging.

### 13) Car Top Inspection Station (CTIS)

The CTIS is installed on all lifts and must be operated by qualified inspectors or Savaria Concord dealer only. Set to **NORMAL** for normal lift operation, set to **INSPECT** with all doors closed and locked for inspection purposes. Press and hold the **ENABLE/SAFETY** button, then press and hold UP or DOWN button to run the cab in the selected direction. Set to the red Stop Button **RUN** to allow the cab to run UP/DOWN during inspection, set to **STOP** to stop the cab from running at any time.

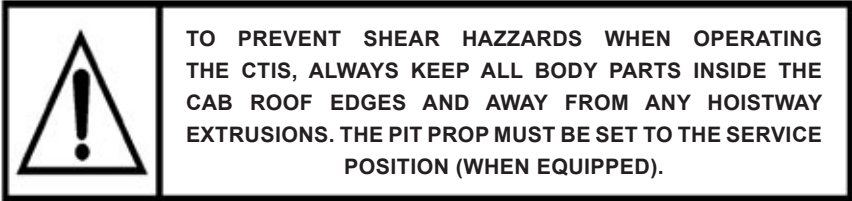


Figure 3 CTIS

### 14) Car Top Prop (Optional)

The Car Top Prop must be operated by qualified inspectors or Savaria Concord dealers only. It is supplied when insufficient overhead hoistway clearance exists. Raise and rotate the Prop counter-clockwise to the service position before operating the CTIS. Ensure the Prop is stowed to normal position before the lift is returned to normal operation.

### 3. OPERATING THE ELEVATOR FROM THE LANDING CONTROLS

#### NOTE

When using the landing controls, the cab can only be moved (called) to the level from which you are calling. When using the control buttons in the cab, the cab can be moved to any level.

#### To call Elevator to the Appropriate Level:

- 1) Press the **CALL ELEVATOR** button. The cab will automatically stop at your landing.
- 2) When the cab reaches the landing, the door lock on the landing door will automatically release, then:

#### If the elevator is equipped with our **Automatic 2-Speed Horizontal Sliding Doors** follow this procedure:

- a) When the elevator reaches the landing, the sliding doors will open automatically. Enter the cab and, after a few seconds, the doors will close behind you. Once inside the cab, lock wheelchair wheels.

#### If the elevator is equipped with our **Automatic Pro-Door** follow this procedure:

- b) Stay clear the swing of the landing door. The door will “chime” and then swing open automatically. If cab is equipped with an automatic gate, the gate will open at this time. The door and gate are timed to stay open for a few seconds. Enter the cab. Once inside the cab, lock wheelchair wheels.



**WHEELCHAIR WHEELS MUST BE LOCKED AT ALL TIMES WHEN THE ELEVATOR IS MOVING.**



**If the elevator is equipped with our Manual Pro-Door follow this procedure:**

- a) Pull on the door handle and open the landing door. If the cab is equipped with a gate, slide the gate open at this time and enter the cab. Once inside the cab, close the landing door and then the gate. Lock wheelchair wheels at this time.

#### **4. OPERATING THE ELEVATOR FROM THE CAB CONTROLS**

- 1) If sitting in a wheelchair, set the brake on the wheelchair wheels or, if standing, hold on to the handrail.
- 2) Press the appropriate floor button to “send” the cab to the desired landing.
- 3) When the cab reaches the landing, the door lock on the landing door will automatically release, then:

**If the elevator is equipped with our Automatic 2-Speed Horizontal Sliding Doors follow this procedure:**

- a) When the elevator reaches the landing, the door will “chime” and the sliding doors will open automatically. Exit the cab and after a few seconds the doors will close behind you.

**If the elevator is equipped with our Automatic Pro-Door follow this procedure:**

- b) The gate will open and the door will “chime” and then swing open automatically. The door and gate are timed to stay open for a few seconds. Exit the cab. The gate and door will close behind you.

**If the elevator is equipped with our Manual Pro-Door follow this procedure:**

- c) If cab is equipped with a gate, slide the gate open at this time and then open the manual swing landing door. Exit the cab. Close the gate and then the landing door.

## 5. DOOR OPEN BUTTON

Located on the cab control panel of Orion elevators equipped with **2-Speed Horizontal Sliding Doors or Automatic Pro-Doors**, the door open button has the following function:

When the elevator is at a landing level, the 2-Speed Horizontal Sliding Doors or Automatic Pro-Door can be opened by pressing the Door Open Button. Normally the doors will have opened and already closed automatically. The Door Open Button allows the door to be reopened.

## 6. EMERGENCY BATTERY LOWERING

This feature allows the lowering of the cab from inside the cab itself, without having to get someone to manually lower it from inside the machine room. This device operates on batteries and is only activated in the case of a main building power failure. The operation is as follows:

- 1) Press any button below the floor where the elevator is located. The elevator will descend and stop at the landing.
- 2) Upon arrival at the desired floor, the automatic doors (if equipped) will open. Exit the cab.

## 7. EMERGENCY LIGHT

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

## 8. EMERGENCY HANDS - FREE TELEPHONE (OPTIONAL)

- 1) If your lift is equipped with an Emergency Hands-Free Telephone, press and hold down the button in the telephone box to activate the phone line. A short time delay (adjustable by the installing technician) will occur.
- 2) Release the button once the call is picked up by the telephone line.

The system will automatically dial out to a pre-programmed telephone number as set up by the installing technician

## 9. MANUAL LOWERING DEVICE (MACHINE ROOM)

In the event of power failure, the cab can be moved to a lower level manually by using the following procedures:

- 1) Obtain the key to unlock the door to the machine room where the elevator pump unit is located.
- 2) Instruct the person(s) in the elevator to remain calm and stay well back from the door of the elevator. Ease their concern by telling them your intentions.
- 3) Switch the main disconnect switch to the "OFF" position for the main power supply to the elevator pump unit.
- 4) Unlock the controller tank and open the lid to locate the red Manual Lowering Knob on the pump unit. Pull the Manual Lowering Knob to lower the cab. See Figure 4. Maintain constant pressure on the knob until the elevator reaches the lowest landing and stops automatically. (Although you may not be able to see the elevator, this is readily detected since there will be no further noise as the oil flows to the reservoir.)

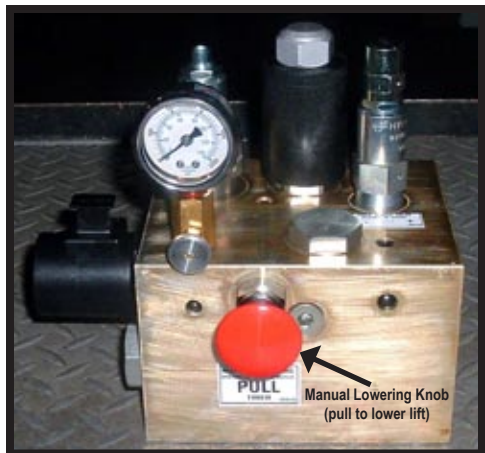


Figure 4 EPV Valve

- 5) Obtain the special door release key and open the lower landing door. Assist the passenger(s) from the cab.
- 6) After the passenger(s) have exited the cab, make sure hoistway door is closed, reconnect disconnect switch inside the machine room and lock door behind you.
- 7) Return the key and special door release key to its original storage area.



**UNDER NO CIRCUMSTANCES SHOULD THE PUMP  
CONTROLS OR VALVE SETTINGS BE ADJUSTED  
EXCEPT BY AN AUTHORIZED SAVARIA CONCORD  
DEALER.**

## 10. MAINTENANCE AND INSPECTION CHECKS

Regular maintenance will keep your ORION in proper operating condition. Please remember, as the owner of this elevator, you are responsible for making sure that maintenance and upkeep are done on a regularly scheduled basis. To ensure proper operating condition of your unit, the items listed below must be inspected and, if necessary, serviced every six (6) months. Additional inspections may be required depending on usage.

- 1) Tighten all rail and cab fastening bolts.
- 2) Lubricate the door hinges and adjust the door closure if required.
- 3) Lubricate the rails with a light grease, such as white lithium.
- 4) Inspect the travelling cable for wear. Replace if any cuts or damage to the jacket is evident.
- 5) Check for any hose/pipe leaks. Replace and/or tighten the fittings to correct any hydraulic leaks found.
- 6) Check the fluid level of the pump reservoir (with the elevator at its lowest landing), and fill as required. (Use Grade 32 Hydraulic Oil). There must be at least 1" (25 mm) of oil on the dipstick.
- 7) Tighten any hose connections or bleeder valves found loose. Check the hydraulic cylinder (jack) for any leaks. If necessary, the packing seals may have to be replaced.
- 8) Replace the batteries inside the control panel as indicated on the battery label.
- 9) To perform the required maintenance to the Pro-Lock (if equipped), call your Authorized Savaria Concord Dealer.
- 10) Activate and test the safety mechanism.

**11. MAINTENANCE RECORD**

It is recommended that the Owner update the Maintenance Record after each service call.

Date	Time	Reason for Call	Comments	Dealer



