



# M-1504

## Material Lift



# OWNER'S MANUAL

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

Part No. 001051  
08-m02-2016

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### **IMPORTANT**

Ensure that only an authorized Savaria Dealer installs and services the M-1504 Material Lift. Under no circumstances is anyone other than a dealer with Savaria training and authorization to install, adjust, service or modify any mechanical or electrical device on this equipment. Failure to follow this warning can result in safety system compromises or defeat; this can result in serious injury or death. Savaria accepts no liability for property damage, warranty claims or personal injury, including death, in this circumstance.

Passenger safety is the result of countless details in the equipment’s design, manufacture, and installation. After installation, reliable operation and continual safe operation requires regular service and inspection at least twice per year, or more frequently where usage, environment, or local jurisdiction requires. As the Owner, you are responsible for ensuring that regular service and inspections occur in a timely manner.

Refer to this manual for specifications, operating instructions and maintenance of the M-1504 Material Lift.

Upon completion of installation, the dealer must provide you with the following information and ensure it is recorded in this manual. In addition, either the dealer or you must keep any service and/or maintenance records in the Maintenance Record section of this manual.

### **WARRANTY**

Ensure your Savaria Dealer provides you with a copy of the manufacturer’s limited parts warranty and documentation relating to any Dealer labour warranty.

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<p style="text-align: center;"><b>FOR OWNER’S RECORDS</b></p> <p>Customer Name: _____</p> <p>Installing Dealer: _____</p> <p>Dealer’s Telephone Number: _____</p> <p>Date Installed: _____</p> <p>Serial/Job Number: _____</p>
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## TO ENSURE SAFE OPERATION

To ensure safe operation of this equipment, pay careful attention to the important notes below.

- Read this manual carefully before using the equipment.
- To prevent accidents, adhere strictly to the instructions and keep clear of moving parts at all times.
- Follow instructions on all equipment labels at all times. Replace any damaged labels immediately.
- Ensure that only qualified personnel perform maintenance and service on the unit.
- This unit is intended for use by a mature person who understands its proper operation as set out in this manual.
- Prior to operation, make sure that:
  - All doors and gates are locked and secure.
  - All areas in and around the lift are clear of any obstructions.
  - All lights are functioning properly.
- Test your keys and emergency stop button every month.
- This lift is for material transport ONLY; personnel should NEVER ride on this lift.



### **WARNING**

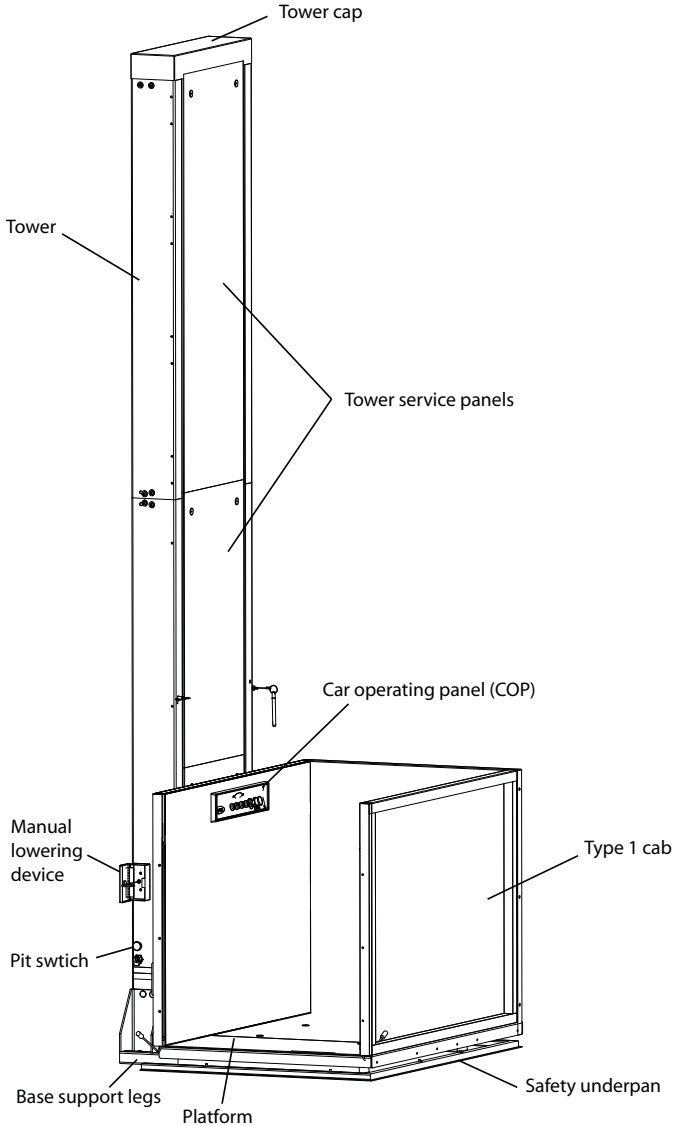
#### **FOR MATERIAL TRANSPORT ONLY**

This lift is for material transport ONLY and is NOT for use by personnel. Personnel should NEVER ride this lift.

## 1. DESCRIPTION

Figure 1 shows the exterior components of a M-1504 (with a Type 1 cab and without an enclosure).

**Figure 1**



## 2. GENERAL SPECIFICATIONS

### M-1504 Specifications

Load capacity	1000 lb (455 kg)
Maximum travel	23 ft (7 m)
Travel speed	20 ft/min (0.1 m/s)
Levels serviced	2 (standard), 3, 4
Cab sizes	36" x 54" (914 mm x 1371 mm) 42" x 60" (1219 mm x 1524 mm) 48" x 60" (1067 mm x 1524 mm)
Cab walls (height)	Standard 60" (1524 mm) Optional 80" (2031 mm)
Cab access	Enter/exit same side (platform Type 1L and 1R) Front/rear access (platform Type 2) 90 degree access (platform Type 3 and 4)
Power supply	120 VAC, 20 A, 60 Hz, single phase
Control system	Electronic-free relay logic controller
Motor/drive	2:1 chain hydraulic, 3 HP, gear-type motor for 110V
Tower	Modular 8 ft (2.4 m) base guide rail assembly Roller guide support
Pit depth requirement	3" (76.2 mm) 8" (203.2 mm) with habitable space underneath
Finish	Grey electrostatic power coat paint on frame Stainless steel on walls

**M-1504 Specifications (continued)**

Standard features	<p>115 VAC operation (115 VAC up direction; 24VDC battery down direction)</p> <p>Call/send stations at landings</p> <p>Continuous-pressure type buttons</p> <p>Operating control buttons on platform</p> <p>Automatic battery recharging system (115 VAC)</p> <p>Remote manual lowering device</p> <p>Low-voltage controls</p> <p>Limit switches</p> <p>Stainless steel checkered platform surface</p> <p>No machine room required</p> <p>Emergency stop button</p>
Safety features	<p>Bottom and top landing door</p> <p>Door lock</p> <p>Safety brake</p> <p>Emergency stop buttons</p> <p>Manual lowering and battery lowering system</p>
Options	<p>Fire-rated, flush-mounted landing entrances</p> <p>Custom color</p> <p>Fixed access ramp</p> <p>Outdoor package</p> <p>24V battery backup</p> <p>Remote controller/pump box</p>

### 3. OPERATION

Figure 2 shows the different types of landing stations (hall calls).

**Figure 2**

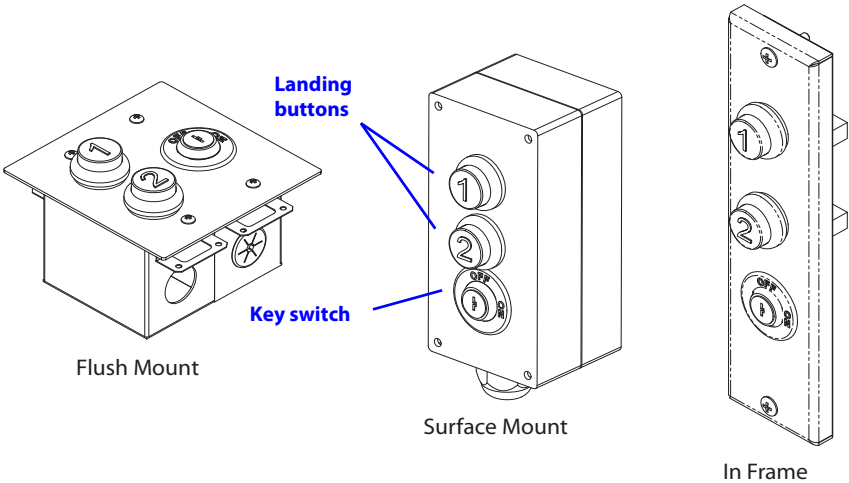
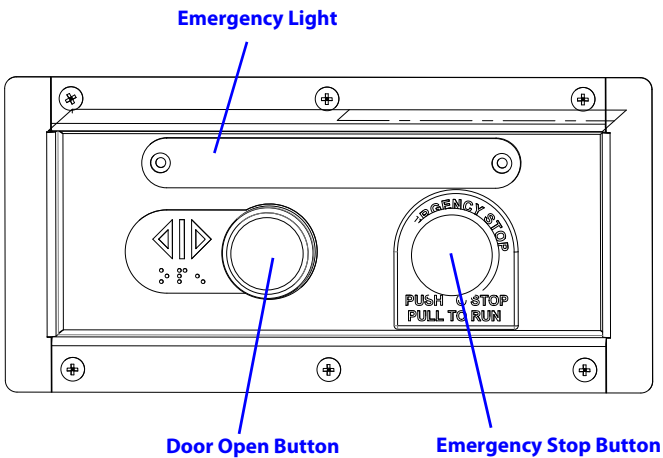


Figure 3 shows the car operating panel (COP).

**Figure 3**





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To operate the M-1504 from the landing (call/send) station controls:

- 1** Insert the key into the key switch (if equipped) and turn it to the ON position to activate the operating buttons.
- 2** Press the appropriate button to move the lift in the required direction. Note that the M-1504 will not move if one of the doors is open.
- 3** When the lift reaches the landing, the door will unlock automatically.
- 4** To prevent unauthorized use of the lift, take the key out when the unit is not in operation.

**NOTE**

*If you are inside the lift placing a load on the platform and the door closes, press the Door Open button to open the door.*

*There is also an Emergency Stop button on the COP that when pressed will stop the lift immediately and activate the Emergency Light. Pull the Emergency Stop button out to return the lift to normal operation.*

## 4. SAFETY FEATURES

### Optional Scissor Gate

The scissor gate (shown in Figure 4) prevents the load from falling off the platform. This is an optional feature if required by code.

**Figure 4**



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## Door Lock

The GAL door lock keeps the door locked when the platform is moving and not at a landing.

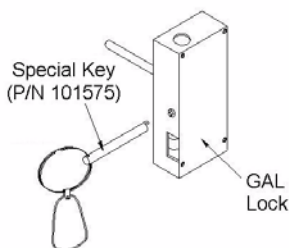
### NOTE

*Keys are for emergency use only and should always be kept in a safe place for use by trained personnel only.*

### Emergency Door Opening

The door can be opened manually using a special key inserted into the round pin on the front of the lock (Figure 5).

**Figure 5**



## Safety Brake

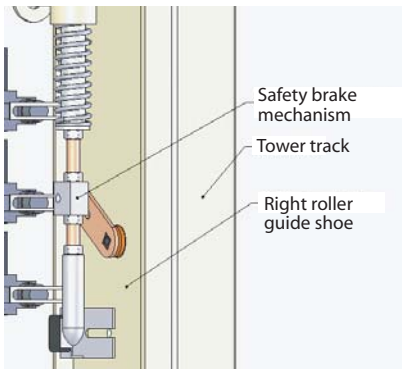
The safety brake stops the platform in the event of chain failure.

When the platform is in operation, the chain tension keeps the brake mechanism up (Figure 6) so that the brake's cam doesn't interfere with the tower track.

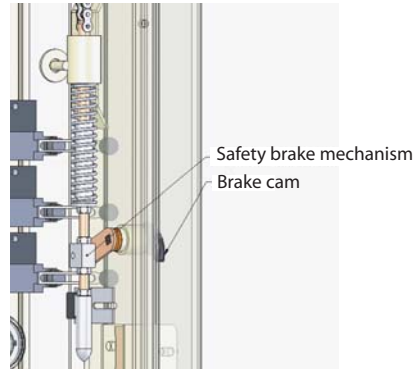
If a chain failure occurs, the brake mechanism comes down (Figure 6) and the brake cam stops the platform.

**Figure 6**

Safety brake in operating position



Safety brake in down position



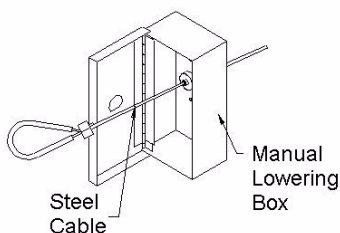
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## Manual Lowering and Battery Lowering System

If a power failure occurs, a battery lowering system will bring the lift to the bottom level. If the battery fails while operating, there is also a manual lowering device that will bring the lift to the lower level.

For units with a 120 VAC pump, the manual lowering box (Figure 7) is located on the side of the M-1504. When you pull on the steel cable located inside the manual lowering box, the platform descends to ground level.

**Figure 7**



**NOTE**

*This mechanism is for emergency use only.*

## 5. MAINTENANCE

### NOTE

The owner can perform the 2-month inspections, but the 6-month inspections **must** be performed by a Qualified Technician. Contact your Authorized Dealer.

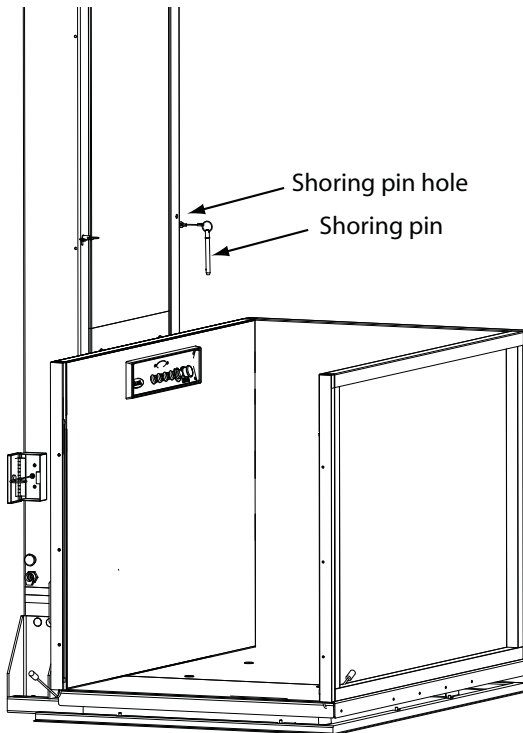
Units installed in adverse environments will require additional maintenance on a monthly basis.



### DANGER

Always use the shoring pins when working under the lift. For lower travel heights, insert the pins into the lower holes (at 600 mm).

**Figure 8**



## Maintenance Schedule

<b>Verification by owner</b>	<b>Frequency</b>
<p>The lift should not move if any door is not closed.</p> <p>The lift should not move beyond the door zone (usually less than four inches away from the landing in either direction) if the door is not locked.</p>	Every 2 months
<b>Verification by technician ONLY</b>	<b>Frequency</b>
<p>Check the suspension system:</p> <ul style="list-style-type: none"> <li>• Chains</li> <li>• Connecting links</li> <li>• Chain pulleys and shafts</li> <li>• Parts holding the chains on the roller supports</li> <li>• Chain tensioners on the rail (they should be tight)</li> <li>• Cylinder head (cotter pins, cracks, welds)</li> <li>• Up relays - if you have two up relays (solenoids or contactors), make sure one of them is not stuck in the activated position. Use a multimeter to verify that every N.O. contact is open when the relays are not being activated.</li> </ul>	Every 6 months
Check the safety brake.	Every 6 months
Check for oil leaks.	Every 6 months
Check the rollers.	Every 6 months





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## Operator Troubleshooting

The following table lists potential problems and their possible solutions.

If the problem persists, contact your Authorized Dealer.

<b>Potential Problem</b>	<b>Possible Solution</b>
Lift does not move	Check the power supply (breaker, cord, battery, etc.). Check that the key is ON (if applicable). Check that the doors are closed. Check to see if the Emergency Stop is pushed in; it should be pulled out for normal operation.

**Authorized Savaria Dealer**

# **M-1504 Material Lift OWNER'S MANUAL**

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For service or questions about this product, please contact your installing dealer.

DEALER NAME: \_\_\_\_\_

DEALER PHONE: \_\_\_\_\_

