

EMERGENCY
ELEVATOR PROCEDURES



Car Door Operations

Before you start!

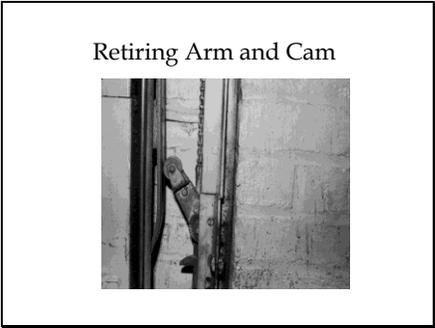
- ❑ Confirm name of Elevator Service Company and their 24 hour emergency response telephone number
- ❑ Have Fire Alarm/ECC call that number
- ❑ Tell them that the fire department is IFO the building
- ❑ Ask them for an estimated time of arrival
- ❑ If you can, wait a reasonable amount of time (20min)
- ❑ If you can't, continue with Lock out/ Tag out
- ❑ Once machine room members confirm it has been performed, take the action that you deem necessary

Emergency
Elevator Procedures



Types of Hoistway Doors







Single Speed Side-Slide

- ▣ Which way does this door open?
- ▣ To the right?
- ▣ To the left?

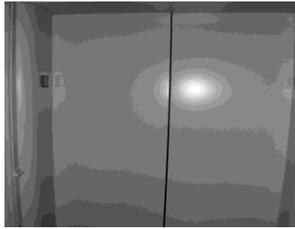






Interlock side is easy to tell in this case

Center Opening Doors



Emergency
Elevator Procedures



Two Speed Side-slide

Two-speed side-slide

- This is the two-speed side slide hoistway door. Never put a tool between the high and low speed panels.



2-Speed with False Panel



False Panel

- ❑ Note how the false panel is stationary.
- ❑ It actually does not move, but serves as an anchor.



Re seated Door Set





Emergency
Elevator Procedures

Two speed- center opening

Also called the cattle car



Fully opened hoistway door

- Used when there is insufficient space for normal opening set of hoistway doors.



Emergency
Elevator Procedures



*Bi-Parting Doors
(Freights)*

Bi-Parting Freight Door



Bi-Parting Freight Door

- This is what the system actually looks like.
- A car door and a car gate.



Car Door Car Gate

What Kind of Doors?



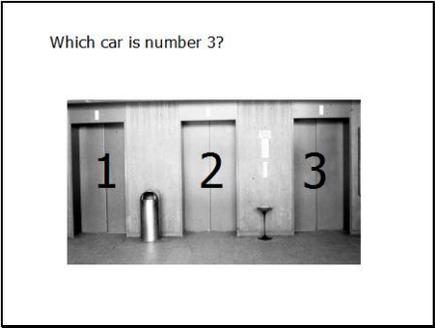
What Type of Doors?



What Type of Doors?







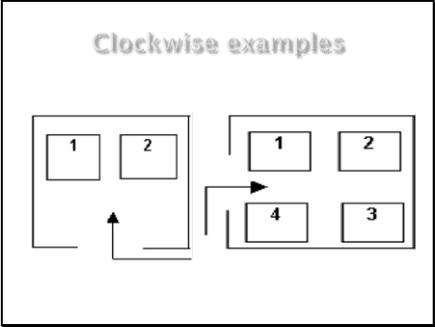
Standard. (A17.1)

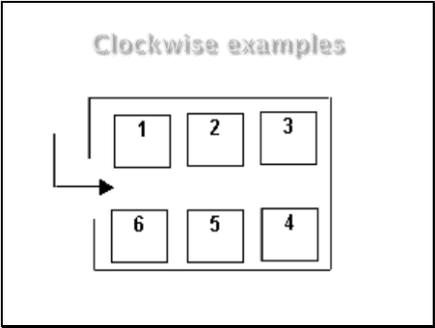


Elevators are numbered from left to right in a clockwise direction. Standard. (A17.1)

If marked differently, it must be marked as such.

Important point is -where is the accepted front of the lobby.





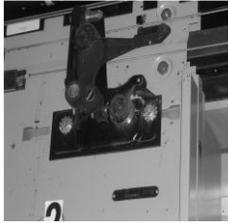
**EMERGENCY
ELEVATOR PROCEDURES**




- Interlocks
- Theory
- Objectives
- Restrictors

This is where it is located!

- ▣ This "Keeper" is what keeps the door closed, by monitoring both mechanically and electronically.
- ▣ It is mounted on the back of the hoistway door.



This is a keeper!

- ▣ A closer view of "The Keeper".



Center-Opening Door Interlock



Lock out/tag out-
No Choice-it MUST be done!

DANGER



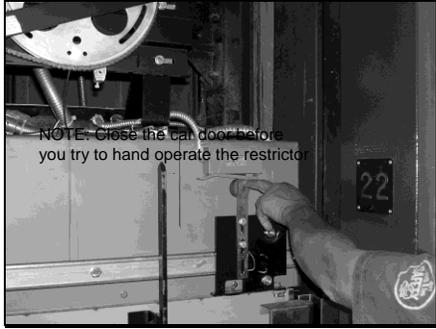
RESTRICTORS

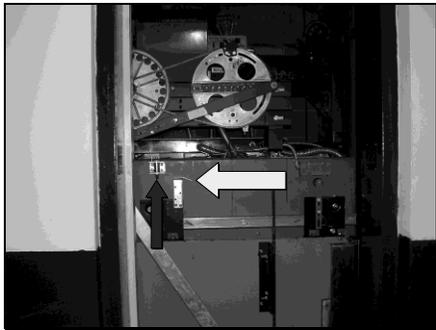
- ❑ These are Otis Elevator Company Restrictors
- ❑ Electric and Mechanical varieties
- ❑ Meant to keep the public safe by keeping them in the car
- ❑ Allows door to be opened a maximum of 4 inches.

EMERGENCY
ELEVATOR PROCEDURES



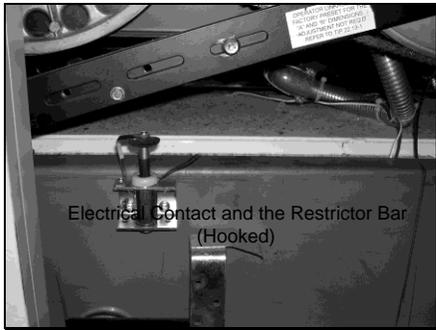
Electrical Restrictor







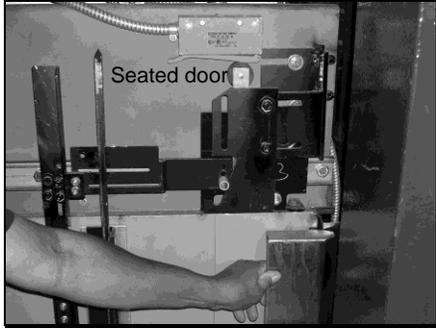


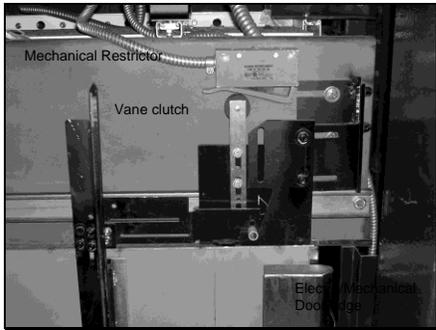


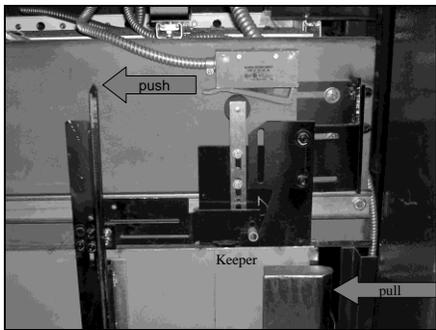
EMERGENCY
ELEVATOR PROCEDURES



**This series will be covering
the Mechanical Restrictor**







RESTRICTORS

- GAL restrictor
- Car is in unlocking zone
- Restrictor NOT active.



Restrictors

- GAL Restrictor-
- ☐ This car is out of the unlocking zone.
 - ☐ The Restrictor IS Active.



Restrictors

- GAL Restrictor-
- Trip the restrictor by squeezing the components as shown.



EMERGENCY
ELEVATOR PROCEDURES

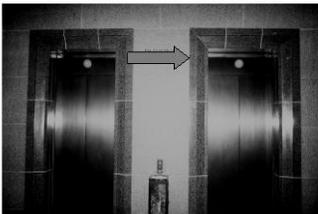


POLING

Lock out/tag out-
No Choice-it MUST be done!



Pole from car # 1



Poling Procedure

- After removing power to all cars involved, reach between the front of car and the back of the hoistway door and trip the release rollers.



EMERGENCY ELEVATOR PROCEDURES



Talking them out

Talking Them Out

- Try Fire Service key switch
- Implement Rule #1 if appropriate.
- Rule # 2- Power down before instructing passengers- lock out/ tag out!

Talking Them Out

- ▣ One voice only!
- ▣ Make your instructions clear.
- ▣ Condition of those in the car?
- ▣ Find out their last actions.
- ▣ What happened?
- ▣ Reseat all hoistway doors.
- ▣ Have them press button for a floor call.



Car is in the landing zone



Rolling both doors through

Car is outside the unlocking zone



Occupant is engaging the Interlock extension to open floor doors

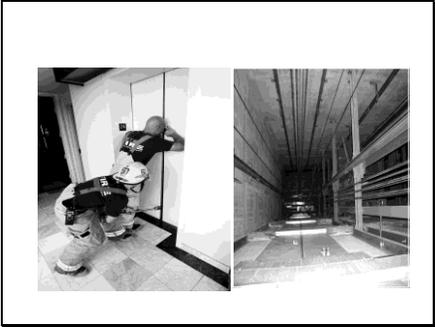
When all else fails



Flathead, Halligan and strength

A safe removal!









What we do not do!



What we do not do!

- ❑ When the firefighters moved into position to remove her, they had this huge space to deal with.
- ❑ One step, and they are all gone.



What we do not do!



EMERGENCY
ELEVATOR PROCEDURES



The view from
inside the car

Center Opening Door
from inside the Car.





Car was at the unlocking zone.
Both doors opened







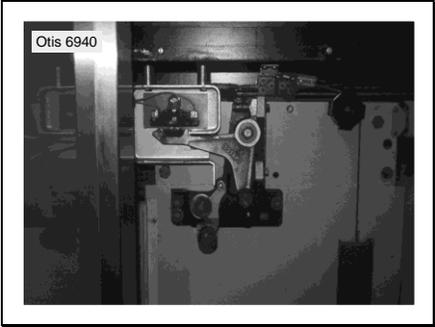


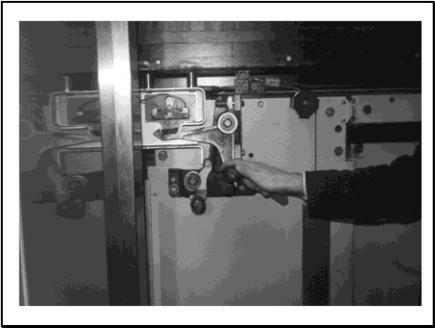


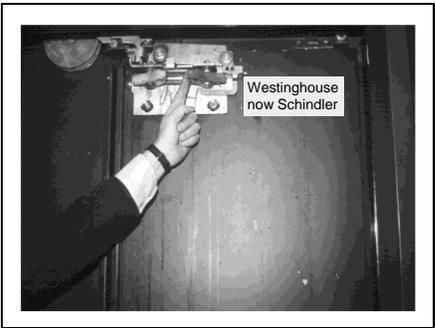
EMERGENCY
ELEVATOR PROCEDURES

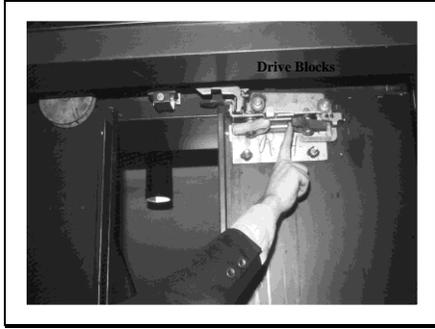


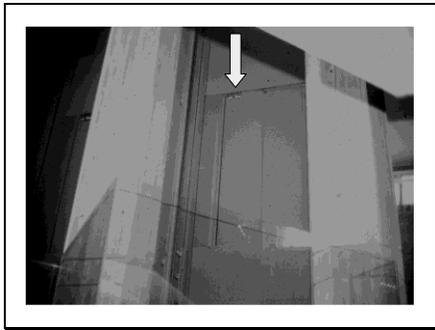
Types of Interlocks



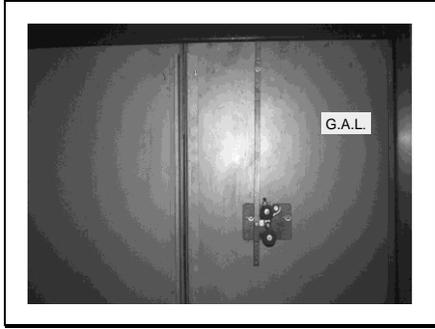


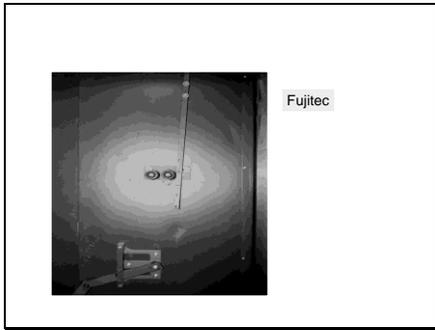


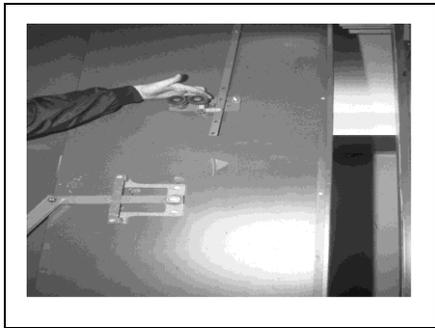




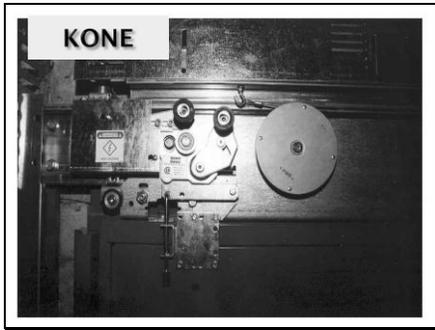


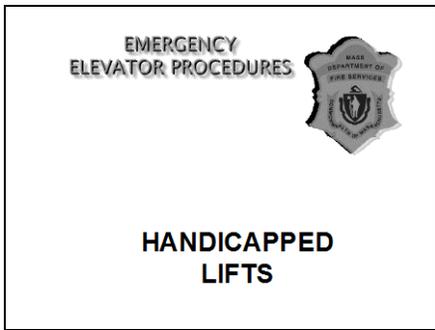


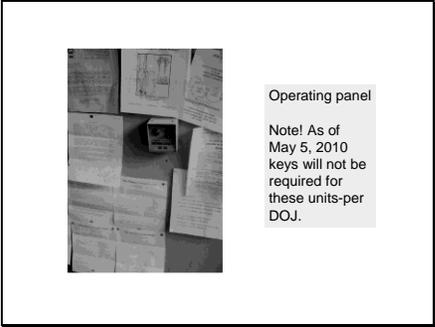






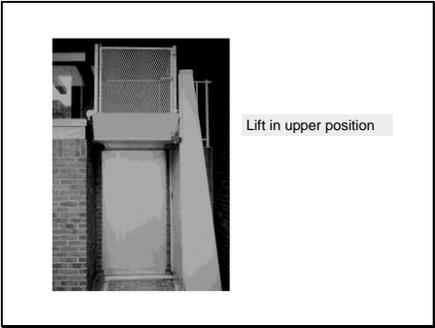




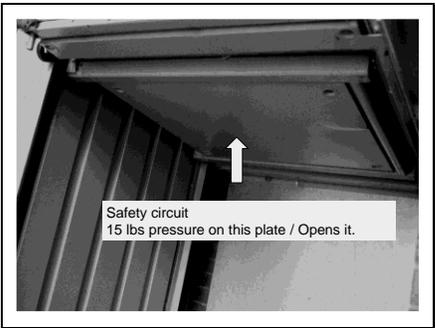


Operating panel

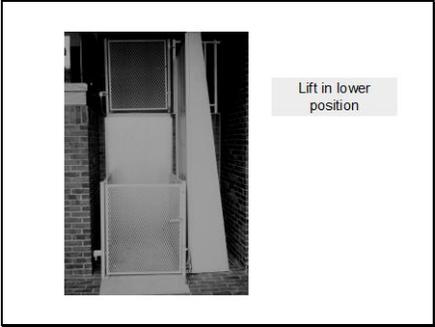
Note! As of May 5, 2010 keys will not be required for these units-per DOJ.

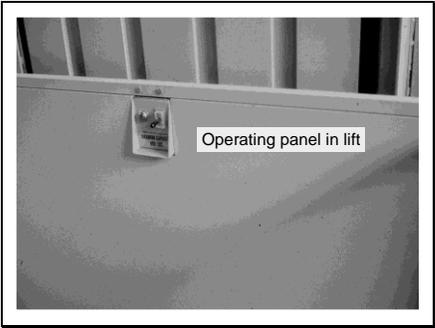


Lift in upper position



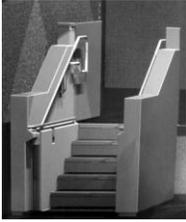
Safety circuit
15 lbs pressure on this plate / Opens it.





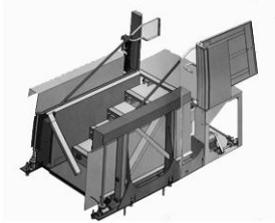
The newer versions-Hogan

- ▣ Stairs are available during normal usage.
- ▣ When needed, the unit becomes a wheel chair lift.



The newer versions-Hogan

- ▣ The steps collapse under the frame, creating flat surface for wheelchair



PRIVATE RESIDENCE ELEVATORS



Range from very safe to disasters waiting to happen

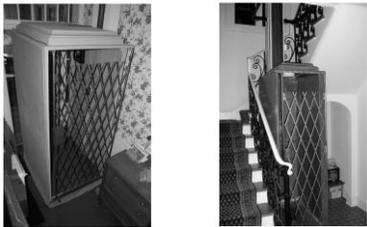
A modern safe system



MRL Style



Older Models



Joseph Tucker Smith

"On August 23rd 2001, eight-year-old Joseph Tucker Smith became entrapped in the space between the collapsible gate and the sitting door on a circa 1929 elevator in Maine. The elevator responded to an up-directional call, and the ascending elevator fatally crushed the child."

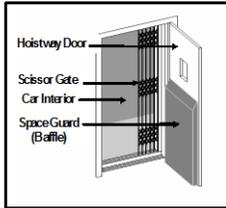


Swing Door Accidents



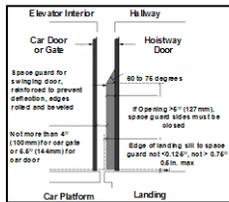
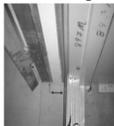
Swing Door Accidents

- ❑ Children get between hoistway door and car gate.
- ❑ The door is closed, safety circuit is made up.
- ❑ Car moves.



Swing Door Accidents

- ❑ The corrective action eliminates the space between door and gate.



Lock out/tag out-
No Choice-it MUST be done!

DANGER



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End of Segment
