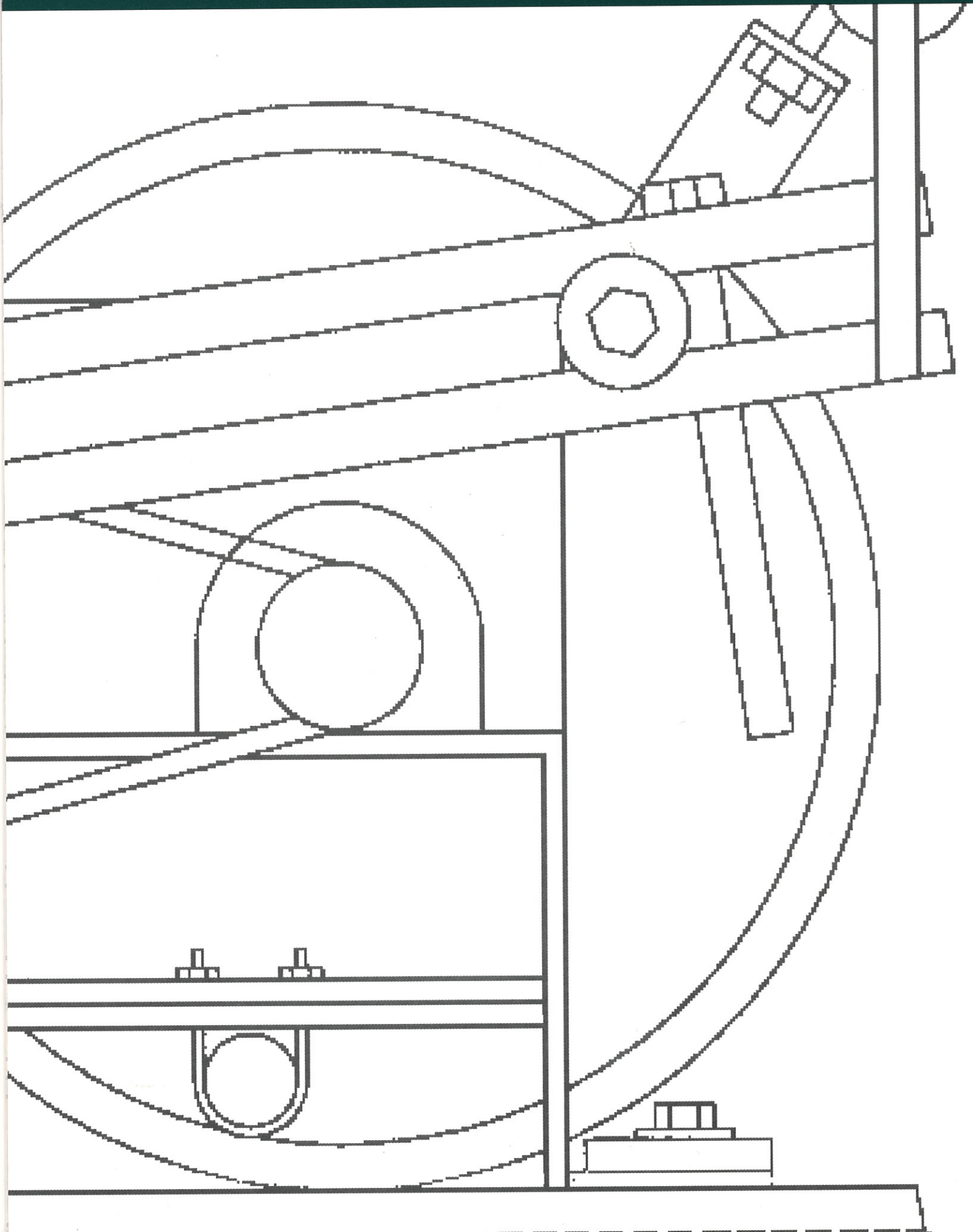


Door Operation Upgrades



Elevator
Performance
Enhancements

Door Operation Upgrades



Door Operation Upgrades

People judge the quality and safety of an elevator by how well its doors work.

The average elevator door opens and closes more than 200,000 times a year. No wonder over 70% of all elevator trouble calls are caused by faulty or worn-out door operation components.

Doors that function improperly can cost you tenants. They can also threaten passenger safety, erode employee morale and create a negative impression among visitors. Constant shutdowns hurt the efficient operation of a building and reflect poorly on its management. What is the condition of your elevator doors? Ask yourself:

- Are the doors noisy or erratic in operation?
- Do they open or close too slowly or too quickly?
- Do they sometimes fail to open or close at all?
- Do they occasionally strike passengers who are entering or exiting the elevator?
- Do constant shutdowns caused by door malfunctions disrupt building operations?

If you answered “yes” to these questions, you need a Montgomery elevator door operation upgrade.

The affordable way to enhance elevator operation.

Doors that operate improperly or erratically degrade your entire elevator system. Upgrading their components is a cost-effective way to dramatically improve elevator service and restore passenger confidence.

The immediate benefits you’ll receive include:

- Substantially reduced noise and vibration.
- Improved elevator efficiency and performance.
- Enhanced passenger safety and comfort.
- Decreased elevator downtime and building disruption.
- Compliance with ADA standards regarding door operation.

Montgomery offers door operation upgrade packages for every elevator. Your package can be shipped four weeks after receiving your order. Plus, we can schedule installation to coincide with its arrival.

The components of a Montgomery door operation upgrade package are outlined on the following pages. Every component is designed and engineered to stringent Montgomery standards. Each one is also manufactured from the finest materials using the latest technology. You get the best — without compromise. That’s our commitment to you.

Door Operation Upgrades

Door Operator

Montgomery's permanent-magnet solid-state operator is a tremendous improvement over older, noisy and unreliable operators that are inefficient, leak oil and require constant maintenance.

The solid-state pulse-width modulated control design of Montgomery's family of operators provides consistent high-performance door operation for all types of applications.

Reliability, noiseless operation and ease of adjustment are built into each Montgomery door operator.

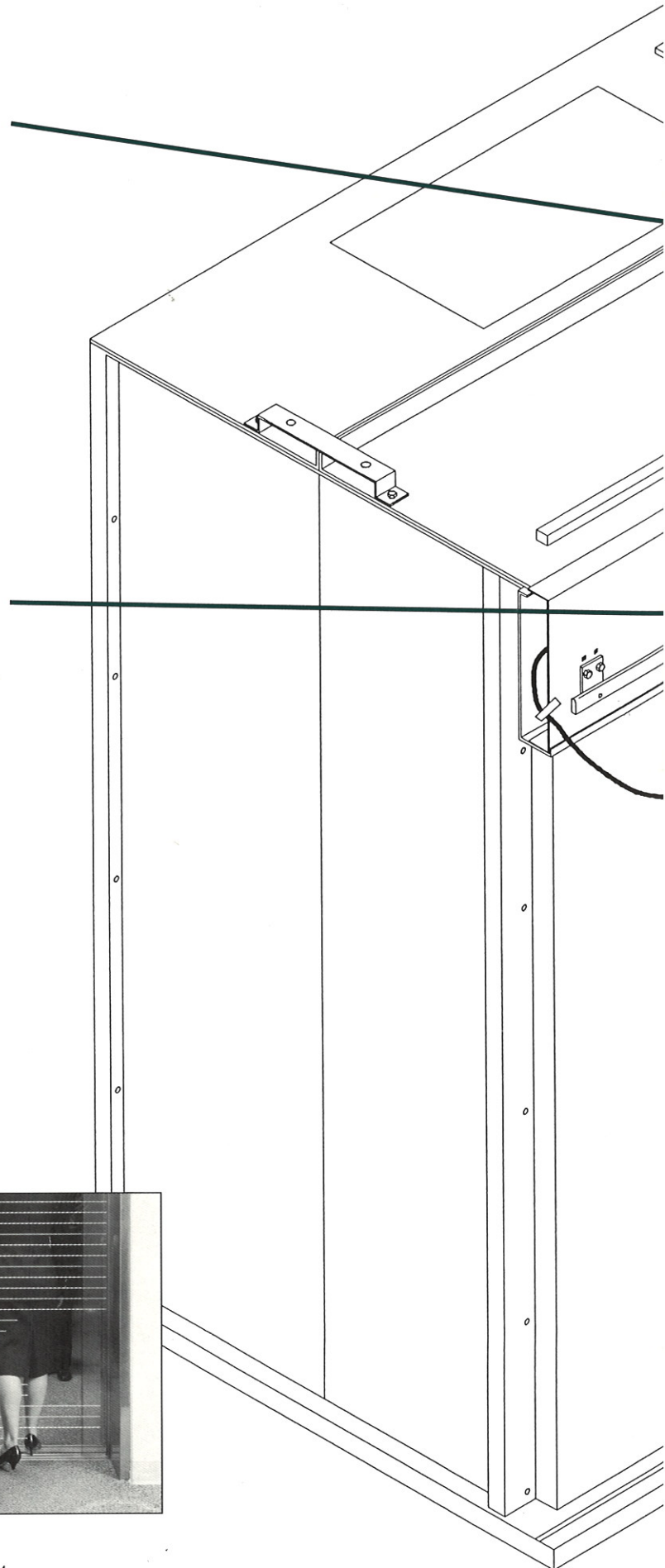
THE EDGE®

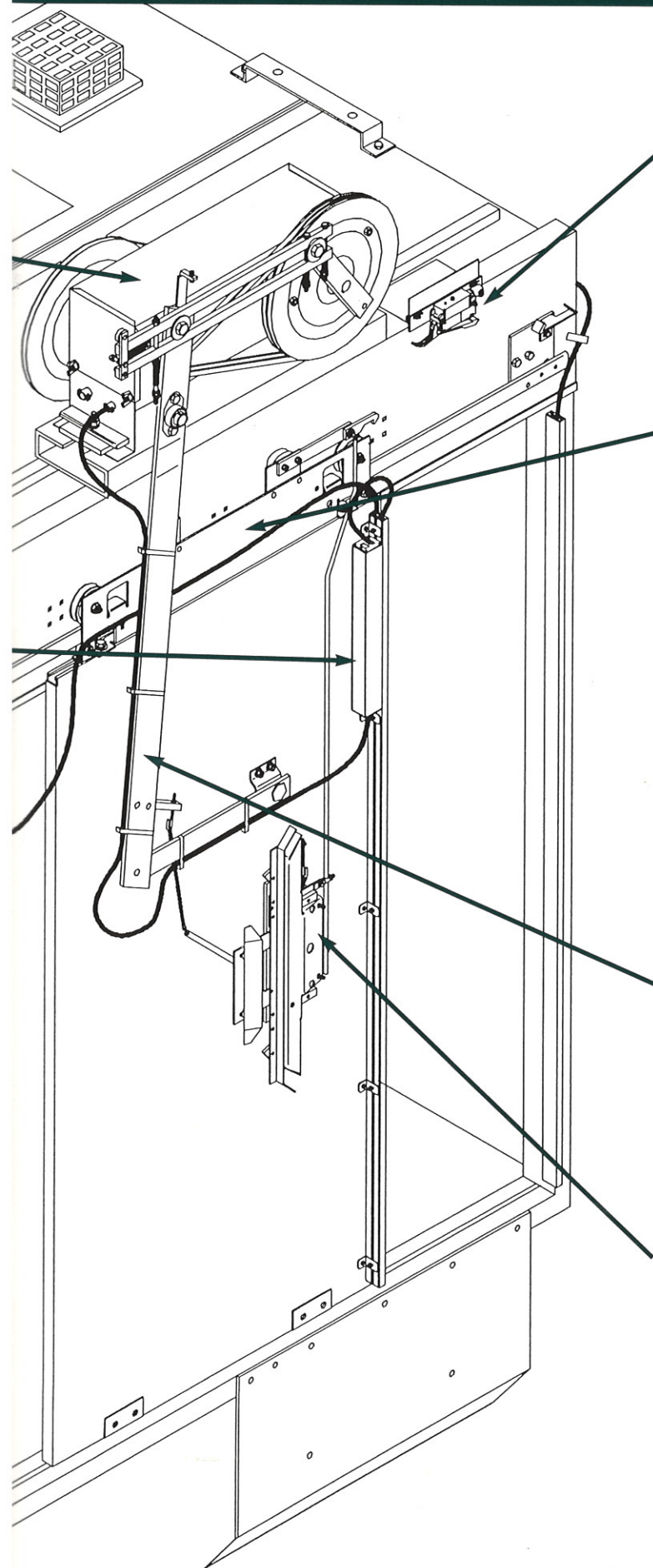
Old-fashioned mechanical safety edges must first strike a passenger before they can reopen the elevator door. That causes passenger annoyance.

To operate properly, mechanical-style safety edges must extend into the door opening. That makes them subject to damage by carts, other wheeled vehicles or items pushed or carried by passengers.

Upgrading to *THE EDGE*® increases passenger safety and comfort while decreasing door-related callbacks and downtime. Forty invisible infrared beams detect virtually any obstruction before the doors touch passengers or their property. Because *THE EDGE*® is mounted flush, it is protected from objects moving on or off the elevator.

THE EDGE® is very affordable and can be easily installed in any door operation system. A self-contained diagnostic system simplifies maintenance.





Gate Switch

The purpose of the gate switch is to electrically lock the car doors. The elevator will not move until this switch is closed. Worn switches can cause elevator shutdowns. Montgomery gate switches are designed for positive contact, low maintenance and trouble-free operation.

Car Door Tracks and Hangers

Door tracks and hangers are an integral part of the structure of any door operation system. The door tracks act as a support and guideway for the movement of the car doors. The high-strength solid-bar construction of the door track ensures long life and stable support for the car doors. Hangers are secured to the doors with adjustable pendant bolts and guide the door along the track with specially designed polyurethane rollers.

Unlike many other door systems which utilize formed thin-steel construction, Montgomery's door track and hanger system is designed for long life, quiet operation and maintenance-free service.

Door Linkage

Precise control over door movement requires that the linkage between the doors and the door operator transmit movement to the doors efficiently, quietly and reliably. Montgomery door linkages are designed for heavy-duty use with maintenance-free sealed bearings.

Door Clutch

Older stationary door clutches create noisy operation with imprecise door control. Worn-out components can actually stop a moving car by "tripping" the hoistway door interlock. Montgomery's door clutches are designed to provide positive, quiet engagement with the hoistway doors while maintaining close tolerance clearances while the car is in motion.

Door Operation Upgrades

Hoistway Door Track and Hanger Assembly

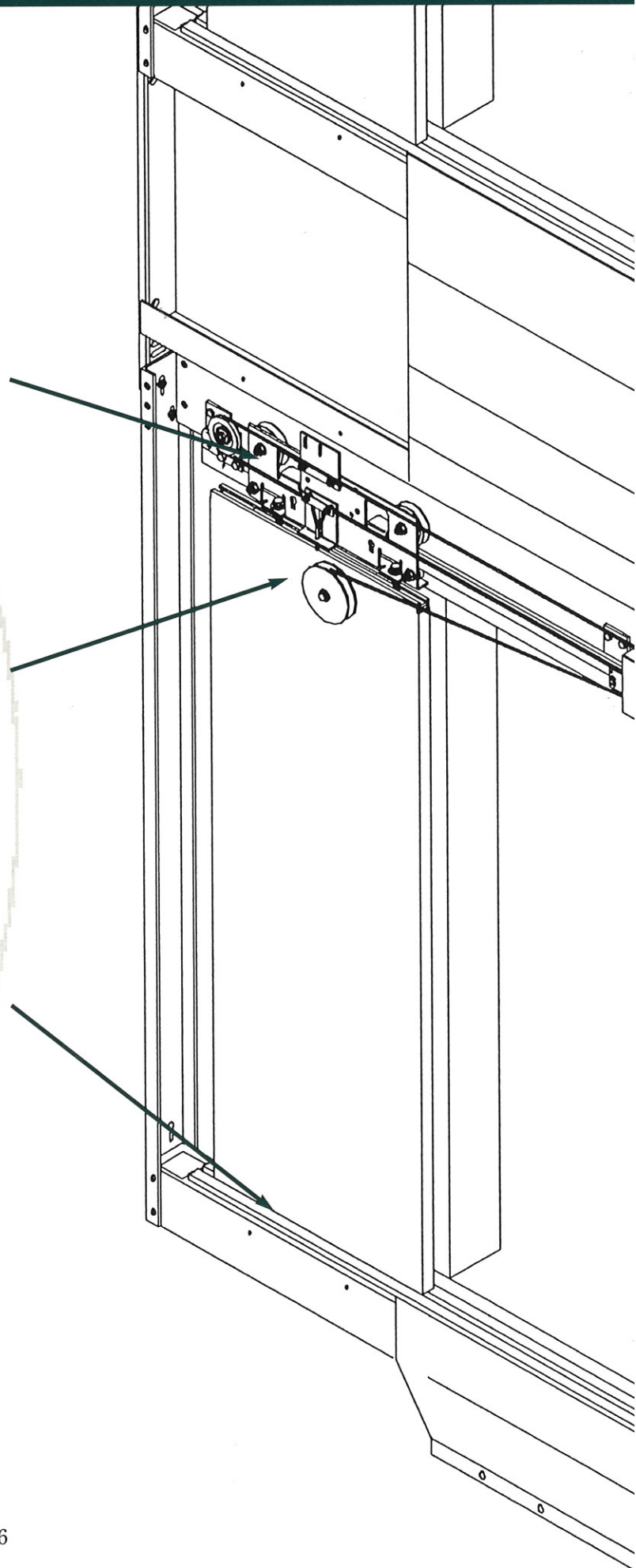
The Montgomery hoistway door track and hanger assembly offers the same superior operating characteristics as their counterparts for the car. Montgomery tracks and hangers adapt to fit practically any doorway and provide the same quiet, smooth, trouble-free operation.

Hoistway Door Reel Closure

The reel closure ensures that the hoistway doors close tightly. It must have adequate spring tension to pull the hoistway door shut and actuate the door interlock mechanism. Designed for quiet operation, Montgomery's reel closure can be adapted to any existing hoistway door condition and will provide long life with virtually no maintenance.

Hoistway Door Gibs

Both the car and hoistway doors are guided at the sill with a device designed to allow freedom of door movement while providing secure positioning. Worn door gibs can cause excessive noise and faulty door operation.





The diagram is a detailed technical line drawing of an elevator hoistway door assembly. It shows the door frame, the door itself, and the internal mechanical components. Two callout lines originate from the text blocks on the right and point to specific parts of the door mechanism. One line points to a locking mechanism at the top of the door frame, and the other points to a drive mechanism at the bottom of the door frame. The drawing includes various bolts, rollers, and structural members, illustrating the complexity of the system.

Hoistway Door Interlock

The hoistway door interlock mechanically locks the door to prevent it from being opened unless the car is present, and completes an electrical circuit to allow the elevator to move. Worn or obsolete interlocks may not function properly and create a safety hazard. Montgomery interlocks are designed to operate with little maintenance.

Hoistway Door Drive

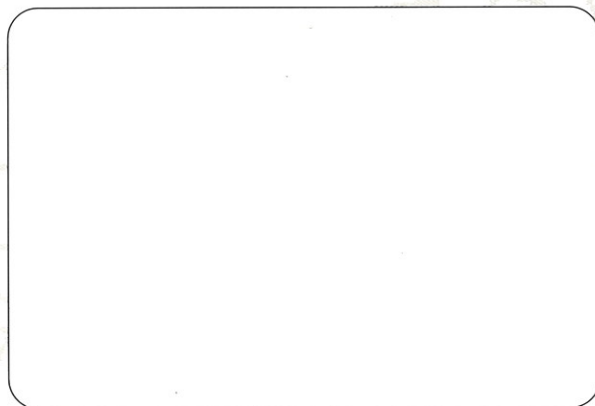
The hoistway door drive works in concert with the car door clutch to transmit the motion of the car doors to the hoistway doors. Older-style door drives and car door clutches are noisy, and worn parts cause erratic door movement. Montgomery's door drive system ensures precise door control and quiet operation, while maintaining close tolerances with the moving car. Rubber rollers provide a positive coupling with the car door clutch. They also extend service life and reduce maintenance.

Door Operation Upgrades

Let your Montgomery Sales Professional open the door to enhanced performance.

The performance of your elevators can be significantly improved with a Montgomery door operator upgrade package. The affordable improvements can be installed quickly with minimal disruption to your building's occupants.

Get the full story from your nearby Montgomery Sales Professional.



montgomery®



ELEVATORS • ESCALATORS • POWER WALKS • POWER RAMPS • MODERNIZATION • SERVICE

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