



**SOLID STATE ELEVATOR  
POWER CONTROL SYSTEM...**

**THE MONTGOMERY  
SSC-6010**



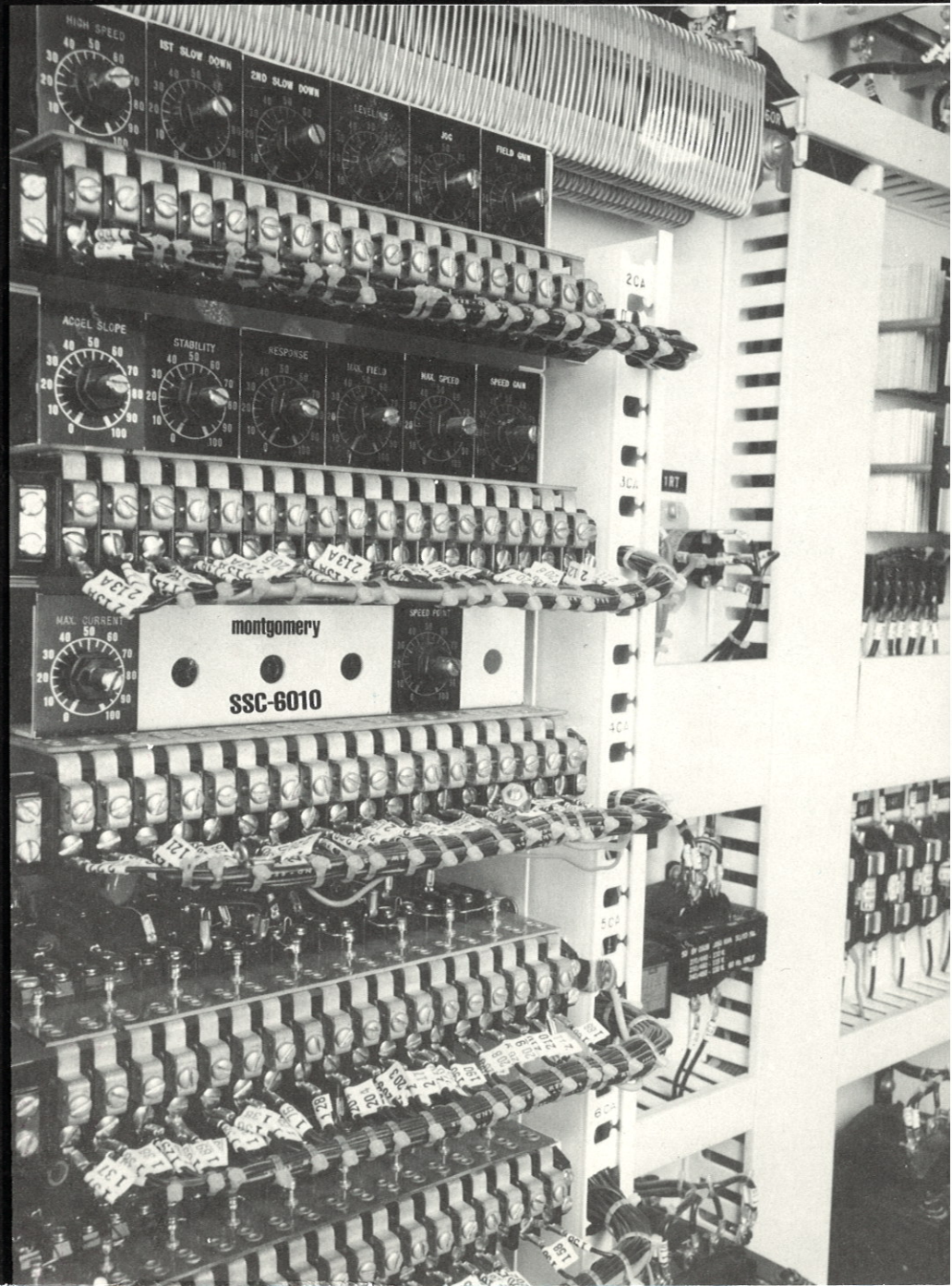
# SSC-6010

## montgomery solid state control

Montgomery SSC-6010 is a variable voltage elevator power control system that incorporates completely static control for adjustable speed, acceleration and deceleration, precise leveling accuracy and exceptionally smooth stops. Montgomery's SSC-6010 is designed for all traction elevators, geared and gearless, operating between speeds of 100-1500 fpm.

### SSC-6010 ADJUSTING MODULE

The Montgomery SSC-6010 adjusting section revolutionizes elevator adjusting, previously a tedious task consuming many man-hours. With SSC-6010, trained Montgomery technicians can quickly tune the system for most desirable performance by simply making potentiometer adjustments such as high speed, first slow down, leveling, field gain, acceleration slope, stability, response, speed gain, maximum current, etc. which achieve excellent long-term stability.





By eliminating the motor-generator set with its greater power consuming characteristics, the new Montgomery SSC-6010 solid state elevator power control system will reduce elevator power bills up to 15% per elevator. The secret is a transistor-like device called a thyristor which enables the Montgomery SSC-6010 to convert A.C. line power directly to controlled D.C. power. Backed by 10 years of product reliability, the inherently precise solid state regulating circuitry built into SSC-6010 assures accurate speed and speed changing performance on each elevator trip, precise leveling and exceptionally smooth stops.

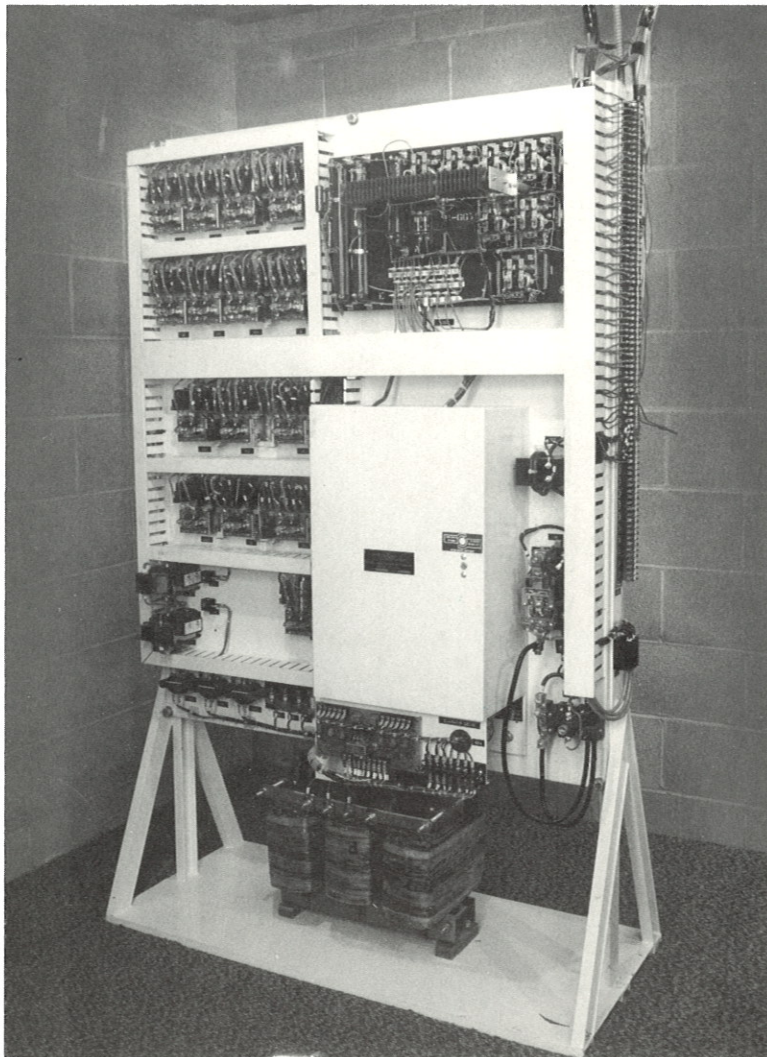
In addition to the savings in power, which is enjoyed by building owners and tenants, SSC-6010 also helps people in other areas such as:

**Architects and Engineers**

- by eliminating the motor-generator set less machine room space is required and machine room loads are reduced
- entire system weighs less and produces less heat - machine room ventilating and air-conditioning requirements are lowered (extra benefit—less heat means longer equipment life)

**Contractors, Installers, Maintenance Men**

- due to the sophisticated adjusting section and the elimination of the motor-generator set, both installation time and tuning time are reduced.
- thyristor unit is of modular construction for quick access and maintenance
- solid state circuitry is inherently trouble-free
- a complete A.C. motor and D.C. generator set is eliminated—a substantial maintenance reduction



**SSC-6010 THYRISTOR POWER CONVERSION MODULE (FRONT VIEW)**

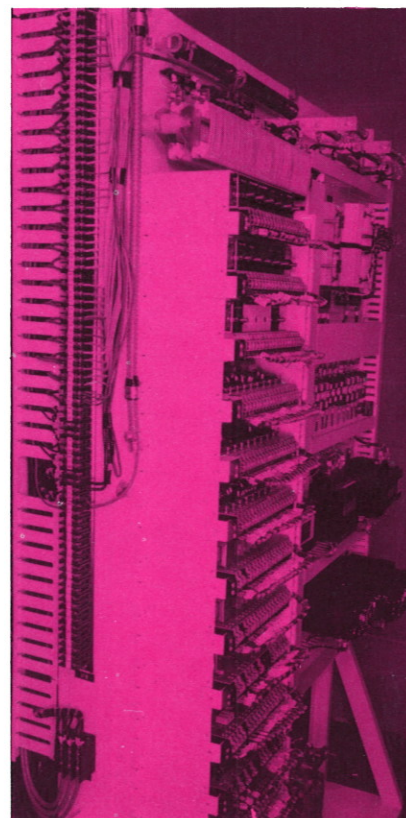
Elevator door controller (upper right)  
Isolation transformer (bottom) Relay circuitry to accept commands from signal logic selector (left)

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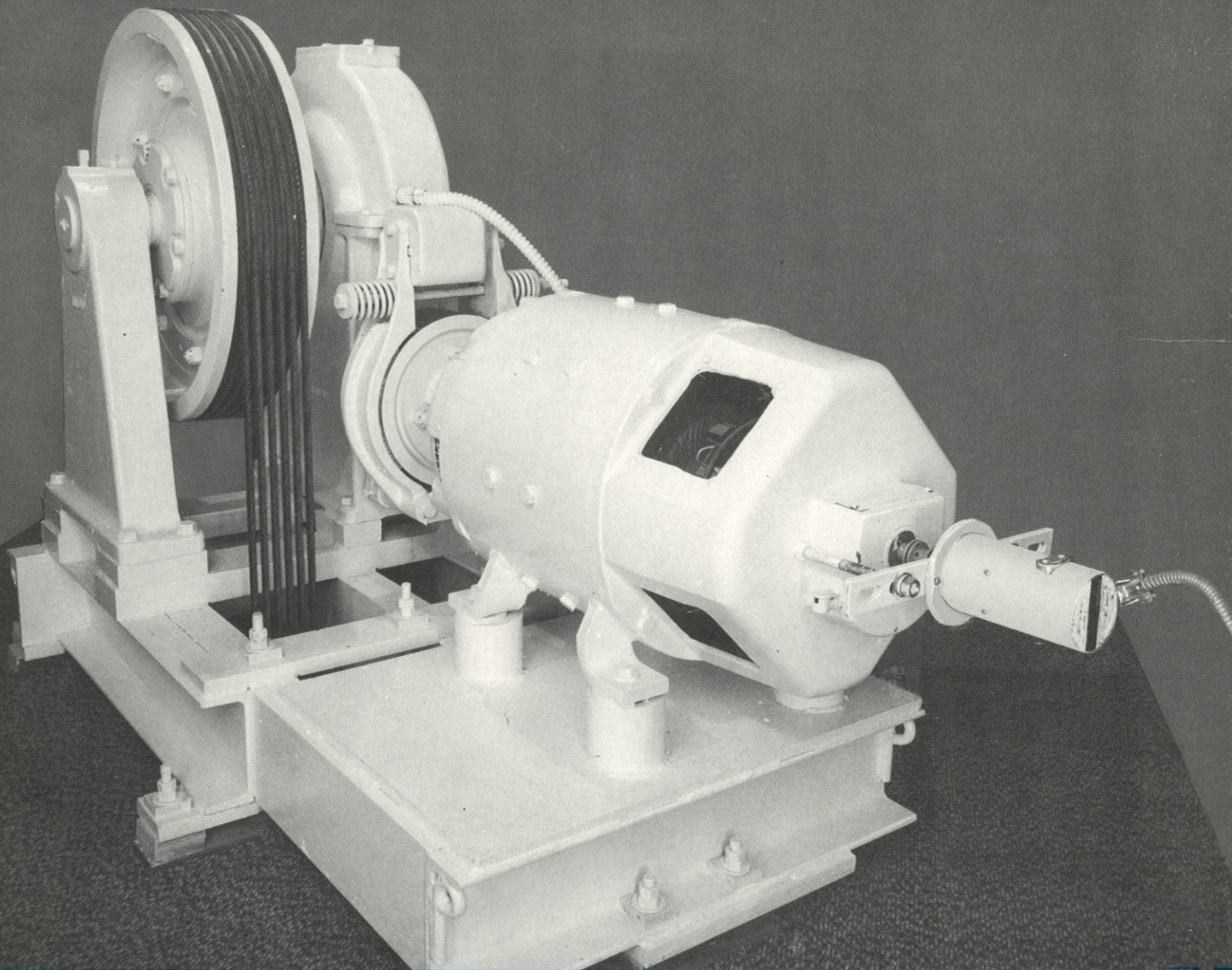
**SSC-6010 THYRISTOR POWER CONVERSION MODULE (REAR VIEW)**

Printed circuit boards are connected with rugged screw type edge connectors (center)



Motor field power resistors (top)  
Control circuit transformers (right)  
Wiring duct and external wiring terminals (extreme left)





**Montgomery geared machine with  
speed-reference tachometer generator**

An important part of the Montgomery SSC-6010 overall regulation system is the direct connected tachometer generator (far right) which provides exceptional linear voltage outputs in direct proportion to speed. Variations due to temperature, drift, ripple or reversing error are minimized to provide highly accurate input signals to the SSC-6010 thyristor power unit for speed feedback in regulating the control system.

**montgomery®**

**ELEVATORS/ESCALATORS  
POWER WALKS & RAMPS**

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Montgomery Elevator Co. Limited, Toronto, Ontario  
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***montgomery moves people***