



SRE-2000E Electra-Ride Elite™ Stairway Elevator for Outdoor Use
Technical Specifications

rev: 3/26/2004
ISO No. 404.88

MODEL NUMBER: SRE-2000E
U.S. F.D.A. CLASSIFICATION: Class II,
CLASSIFICATION NUMBER: 890.5150

PERFORMANCE STANDARDS: USA Food & Drug Administration: None
ANSI/ASME: A18.1-1999 Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A17.1-1996 Private Residence Inclined Lifts (PART XXI)
UL Listed: File Number SA11651

RATED LOAD: 400 lbs maximum

NUMBER OF PASSENGERS: 1

CONSTRUCTION: Exterior grade powder coated steel. Stainless steel hardware.
Weatherized electronics and controls.

POWER SOURCE: 24 Volt DC comprised of 2ea 7amp/hr 12 volt sealed maintenance-free lead acid batteries. On/Off power switch to prevent battery drain over lengthy storage periods.

CHARGER: 110 Volt AC 1.5 Amp, 24 Volt DC 2 Amp continuous monitoring, full primary cut off. Charger should be located inside to avoid the elements. All exterior wiring is low voltage 24 volt.

CHARGING SYSTEM: Carriage charges at either end of the rail on innovative watertight sliding contacts.

DRIVE: 24 Volt DC motor, 2 pole rated 1.02 hp intermittent duty (2hr cont.) limited at current setting, no load speed 3800 rpm

GEAR BOX: 20:1 Right angle self locking worm drive

INTERMEDIATE REDUCTION: (Motor & Gearbox) "J" style poly-V belt with dual 3 V wide belts, 4: 1 reduction.

FINAL DRIVE: Integrated 8dp gear rack on rail with a spur gear on the gearbox output shaft.

MOTOR CONTROLLER: Custom 24 Volt DC PWM controller with acceleration ramping.

Bruno Independent Living Aids, Inc., 1780 Executive Drive, P.O. Box 84, Oconomowoc, WI 53066
Phone (800) 882-8183 Fax (262) 953-5501

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BRAKING: dynamic motor braking through the motor controller and self locking worm gear box.

REMOTE CONTROL: Custom 318 Mhz wireless "CALL/SEND" control with interference suppression. Momentary switching requires a user to continuously hold button to control unit. Keyed controls standard.

STANDARD CONTROL: 3 position, momentary rocker switch requiring user to continuously hold rocker switch to control unit, switch mounted under armrest. Keyed control standard.

MOUNT: Either side of stairway, the unit is easily installed on either side of the staircase.

SUPPORTS: Clamps anchored to stair tread, normal rail position is 1 1/2" above step nose. Number of clamps dependent on the length of rail. Optional height clamps available.

ANGLE: Adjustable from 23 to 45 degrees standard, specials to 50 degrees.

SPEED: User adjustable with a maximum of 32 feet per minute, actual loaded top speed 25 feet per minute.

LENGTH OF TRACK: 16 foot & 20 foot standard, Dealer to cut to fit the actual length of the stair, see application guide. Custom lengths available.

TRACK CONSTRUCTION: Aluminum extruded rail with covered steel gear rack. Bolted joint plate located at each rail joint.

FOOTREST: Folding footrest with safety sensor panel and handle actuator.

SEAT: Padded, Folding & Swivels with stops at 30 degree intervals (+/- 60 degrees max.) Swivel release located on armrest. Multiple position seat height adjustments.

SEAT COVER: Articulating folding cover that provides weather protection to the seat and carriage when unit is in the folded, stored position.

ARMRESTS: Fixed to seat frame. Armrest can be individually rotated towards seat back for smaller profile when not in use and easier transfers.

SAFETY EQUIPMENT: 1) Seat swivel switch allows operation only when chair is center position.

2) Footrest safety switches

3) Retractable seat belts

4) Charging Light (amber) at each end of rail

5) 30 amp manual reset breaker on the motor control circuit

6) 5amp power switch fuse on the control circuits

7) Final end stop bumper at each end of the rail

8) Final limit switch

9) Full diagnostic interconnect circuit board

POWER OUTAGE: Unit will have 8 (minimum) to 20 round trips on battery charge (variance caused by angle, length of run, ambient temperature and rider weight). Battery charge will last between 28 and 36 hours after the power is disconnected.

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WEIGHT OF UNIT: 387 lbs. without rider in a typical 16 foot installation

TESTING PERFORMED:

- 1) Life cycle of 36,000+ cycles with full rated load at 45 degrees on a 20' rail. Gearbox, rail, and components had minimal wear. Estimated yearly heavy use is 1200 cycles. This test performed at manufacturer's location.
- 2) Battery charger meets UL 1236 battery charger specifications and has been independently tested.
- 3) The self locking gear box was statically tested with 2800 lbs (7X rated load) on a 45 degree rail for 15 minutes with no carriage movement. This test was performed at the manufacturer's location.
- 4) Repetitive tests were run to determine power outage cycling.
- 5) Electrical discharge to ground testing performed for FDA 510(k).
- 6) The electrical enclosure is IPX3 (IEC 259), providing protection against spraying water.
- 7) Environmental operating temperature range:
-5°C (25°F) to 50°C (125°F)
Long term storage without battery removal:
-40°C (-40°F) to 65°C (150°F)
Environmental testing performed at an Independent testing facility.

COMMERCIAL PACKAGE: Not available.

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