



**SRE-2000 Electra-Ride Elite™ Stairway Elevator**  
**Technical Specifications**

rev: 04/15/2005  
ISO No. 404.74

**MODEL NUMBER:** SRE-2000 & SRE-2000C  
**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 Commercial (PART XX) &  
Private Residence Inclined Lifts (PART XXI)  
UL Listed: File Number SA11651

**RATED LOAD:** 400 lbs maximum

**NUMBER OF PASSENGERS:** 1

**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.

**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.

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

**REMOTE CONTROL:** Infra-red wireless "CALL/SEND" control. Momentary switching requires a user to continuously hold button to control unit.

**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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**STANDARD CONTROL:** 3 position, momentary rocker switch requiring user to continuously hold rocker switch to control unit, switch mounted under armrest. Optional "keyed" control.

**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 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. Multiply position seat height adjustments.

**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 in center position.  
2) Footrest safety switches  
3) Retractable seat belt  
4) Charging Light (amber) at each end of rail  
5) 30 amp manual reset breaker on the motor control circuit  
6) Final end stop bumper at each end of the rail  
7) Final limit switch  
8) Full diagnostic integrated motor control/interconnect circuit board  
9) Optional overspeed safety brake

**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). Batteries will retain usable charge 28 to 36 hours after the power is disconnected.

**WEIGHT OF UNIT:** 370 lbs. without rider in a typical 16 foot installation.

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**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 UL tested and listed to standard UL1012.
- 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).

**COMMERCIAL PACKAGE:** Keyed rocker switch on chair, keyed remote call/send controls, and overspeed safety brake.

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