



SRE-2010E Outdoor Electra-Ride Elite™ **Stairway Elevator Technical Specifications**

rev: 8/28/2008
ILS-00797

MODEL NUMBER: SRE-2010E
U.S. F.D.A. CLASSIFICATION: Class II,
CLASSIFICATION NUMBER: 890.5150

PERFORMANCE STANDARDS: USA Food & Drug Administration: None
ANSI/ASME: A18.1-2005 Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A17.1-2004 Private Residence Inclined Lifts (PART XXI)

RATED LOAD: 400 lbs maximum

NUMBER OF PASSENGERS: 1

CONSTRUCTION: Exterior grade powder coated steel with an e-coat undercoating.
Stainless steel and exterior grade 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 must be located inside to avoid the elements. All exterior wiring is low voltage - 24 volts.

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

DRIVE: 24 Volt DC direct drive gear-motor, 2 pole rated .68 HP, 58:1 right angle self-locking worm gear box, 41.5 RPM on the output shaft of the gear box.

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, self locking worm gear box, and electro-mechanical motor brake.

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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REMOTE CONTROL: Custom 2.4 GHz wireless “CALL/SEND” control with interference suppression. Momentary switching requires a user to continuously hold the 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 2” above step nose. Number of clamps dependent on the length of rail. Optional height adjustable clamps available.

ANGLE: Adjustable from 0 to 45 degrees standard, specials to 50 degrees.

SPEED: Maximum top speed is 25 feet per minute. Actual speed will vary depending on rider weight

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 connection.

FOOTREST: Folding footrest with safety sensor panel, adjustable height settings and handle actuator.

SEAT: Padded marine grade vinyl, Folding & Swiveling with stops at 45 (bottom), 0 (forward), 60 (top), and 90 (top). Multiple 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. Armrests have 4” width adjustment

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

2) Carriage & Footrest safety switches

3) Retractable seat belt

4) Charging light (green) on carriage

Charging light (amber) at each end of rail

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

6) 5 amp 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: Typical Unit will have 8 (minimum) to 20 round trips on battery charge (variance caused by angle, length of run, ambient temperature and rider weight).

WEIGHT OF UNIT: 300 lbs. without rider in a typical 16 foot installation

TESTING PERFORMED:

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- 1) Life cycle testing with full rated load at 45 degrees on a 16' rail in process. This test continuing to be performed at manufacturer's location to 10,000+ cycles.
- 2) Battery charger meets UL 1236 battery charger specifications and has been Independently tested.
- 3) The self locking gear box was statically tested with 3200 lbs (8X rated load) on a 45 degree rail for 5 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 529), providing protection against spraying water.
- 7) Recommended Environmental operating temperature range:
-15°C (0°F) to 50°C (125°F)

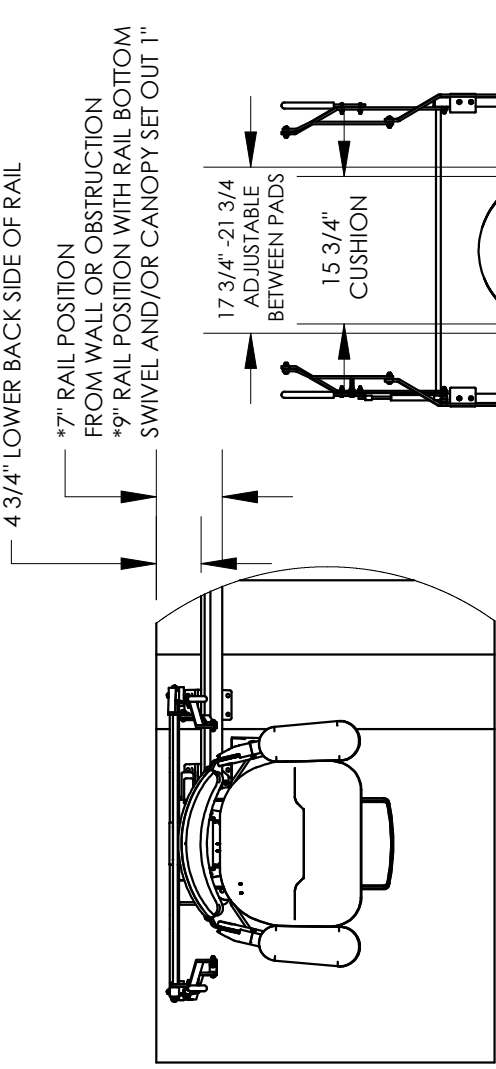
COMMERCIAL PACKAGE: Not available.

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TECHNICAL DATA/SPECIFICATION

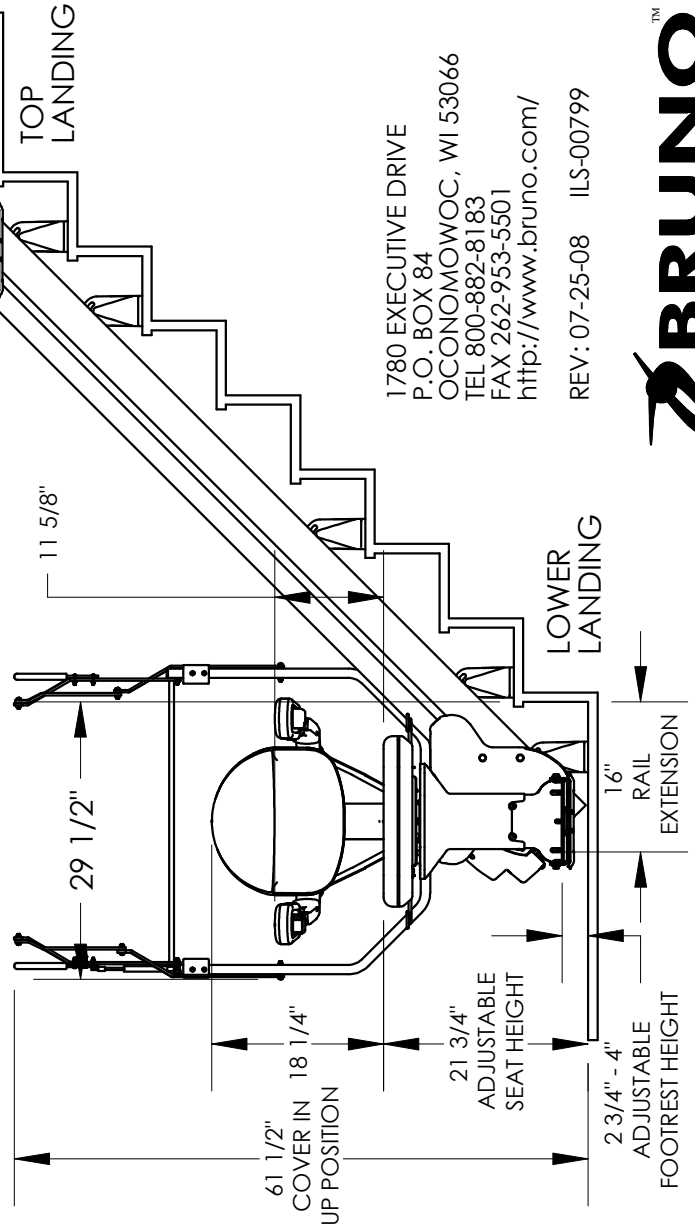
MODEL: SRE-2010E OUTDOOR ELECTRA-RIDE ELITE
 RATED LOAD: 400 LBS, ONE PASSENGER
 POWER SOURCE: 24 VOLT DC COMPRISED OF (2) 7 AMP/HR 12 VOLT SEALED BATTERIES
 110 VOLT AC 1.5 AMP, 24 VOLT DC 2 AMP CONTINUOUS MONITORING CHARGER.
 DRIVE: 24 VOLT DC DIRECT DRIVE GEAR-MOTOR, 2 POLE RATED .68 HP, 58:1 RIGHT ANGLE SELF LOCKING GEARBOX, 41.5 RPM NO LOAD RPM OUTPUT SPEED.
 SUSPENSION: RACK & PINION - INTEGRATED 8DP GEAR RACK ON RAIL WITH A SPUR GEAR ON THE OUTPUT SHAFT OF THE GEAR BOX.
 BRAKING: DYNAMIC MOTOR BRAKING THROUGH THE MOTOR CONTROLLER, SELF LOCKING WORM GEAR, AND ELECTRO-MECHANICAL MOTOR BRAKE.
 CONTROLS: CONTINUOUS PRESSURE ROCKER SWITCH LOCATED ON THE ARM REST AND WALL MOUNTED CALL/SEND CONTROLS LOCATED AT BOTH THE TOP AND BOTTOM LANDINGS.
 ANGLES: 0 TO 45 DEGREES (SPECIALS UP TO 50 DEGREES) RIGHT OR LEFT HAND ORIENTATIONS.
 FINAL LIMIT SWITCH STANDARD
 KEYED CALL/SEND CONTROLS STANDARD
 KEYED CONTROL ON CHAIR STANDARD



TOP VIEW

ELEVATION VIEW

LOWER LANDING EXTENSION DIMENSIONS ARE BASED ON 45 DEGREE RAIL SLOPE ON AN 8\"/>



SIDE VIEWS

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