



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

rev: 07-01-2011  
ILS-00826

**MODEL NUMBER:** SRE-2010 and SRE-2010C  
**U.S. F.D.A. CLASSIFICATION:** Class II  
**CLASSIFICATION NUMBER:** 890.5150  
**PRODUCT CODE:** ILK  
**CSA C-US Listed:** File Number 208135

**PERFORMANCE STANDARDS:**

ANSI/ASME: A18.1-1999 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2003 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2005 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2008 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
CSA B613 Private Residence Lifts for Persons with Physical Disabilities  
ANSI/ASME: CSA B44.1/ASME-A17.5 Elevator and Escalator Electrical Equipment

**RATED LOAD:** 400 lb (181 kg) maximum

**NUMBER OF PASSENGERS:** 1

**POWER SOURCE:** 24VDC comprised of 2 each 7AH 12 volt sealed maintenance-free lead acid batteries;  
On/Off power switch to prevent battery drain over lengthy storage periods

**CHARGER:** 120VAC/1.5 A, 24VDC/2 A continuous monitoring, full primary cut off

**DRIVE:** 24VDC 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 24VDC PWM controller with acceleration ramping

**BRAKING:** dynamic motor braking through the motor controller, self-locking worm gear box, and electro-mechanical motor brake

**CALL/SEND CONTROL:** infra-red wireless control; momentary switching requiring a user to continuously hold button to control unit

**ARMREST CONTROL:** 3-position, momentary rocker switch requiring user to continuously hold rocker switch to control unit; switch mounted under armrest

**SUPPORTS:** clamps anchored to stair tread; normal rail position is 2" (50.8 mm) above step nose; number of clamps dependent on the length of rail; optional height-adjustable clamps available

**ANGLE:** (residential) adjustable from 0 to 45 degrees standard; custom to 50 degrees  
(commercial) adjustable from 30 to 45 degrees standard; custom to 50 degrees;  
contact Bruno Technical Service for low-angle applications.

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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**SPEED:** maximum top speed 25 ft/min (0.13 m/s); actual speed varies depending on rider weight

**LENGTH OF TRACK:** 16 feet (4.9 m) and 20 feet (6.1 m) 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, adjustable height settings and handle actuator (standard only)

**SEAT:** padded, folding and swivel with stops at 45° (bottom), 0° (forward), 60° (top), and 90° (top); multiple-position seat height adjustments.

**ARMRESTS:** fixed to seat frame; armrest may be individually rotated towards seat back for smaller profile when not in use and to facilitate transfers; width adjustment of armrests: 4" (102 mm)

**SAFETY EQUIPMENT:**

- 1) seat swivel switch allowing operation only when chair is in center position
- 2) carriage and footrest safety switches
- 3) retractable seat positioning belt
- 4) charging light (green) on carriage; charging light (amber) at each end of rail
- 5) 30A manual reset breaker on motor control circuit
- 6) 5A fuse on control circuits
- 7) final end stop bumper at each end of rail
- 8) final limit switch
- 9) full diagnostic interconnect circuit board

**BATTERY CAPACITY/POWER OUTAGE:**

cycles: variable depending on angle, length of run, ambient temperature and rider weight

batteries: between 28 and 36 hours if power is disconnected

**WEIGHT OF UNIT:**

300 lb (136 kg) without rider in a typical 16 foot (4.9 m) installation

**TESTING PERFORMED:**

- 1) life cycle testing with full rated load at 45° on a 16 foot (4.9 m) rail
- 2) battery charger UL tested and listed to UL 1012
- 3) self-locking gear box statically tested with 3200 lb (1451 kg) (8 times rated load) on a 45-degree rail for 5 minutes with no carriage movement; test performed at manufacturer's location
- 4) repetitive tests performed to determine power outage cycling
- 5) electrical discharge to ground testing performed for FDA 510(k)

**OPTIONS:**

- 1) keyed call/send controls
- 2) keyed controls on chair arm
- 3) commercial package with overspeed safety brake and keyed controls on chair arm
- 4) power swivel seat at top landing (up to 90° of rotation)
- 5) power folding footrest
- 6) manual folding rail
- 7) power folding rail
- 8) larger seat
- 9) larger footrest

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## TECHNICAL DATA/SPECIFICATION

MODEL: SRE-2010 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.

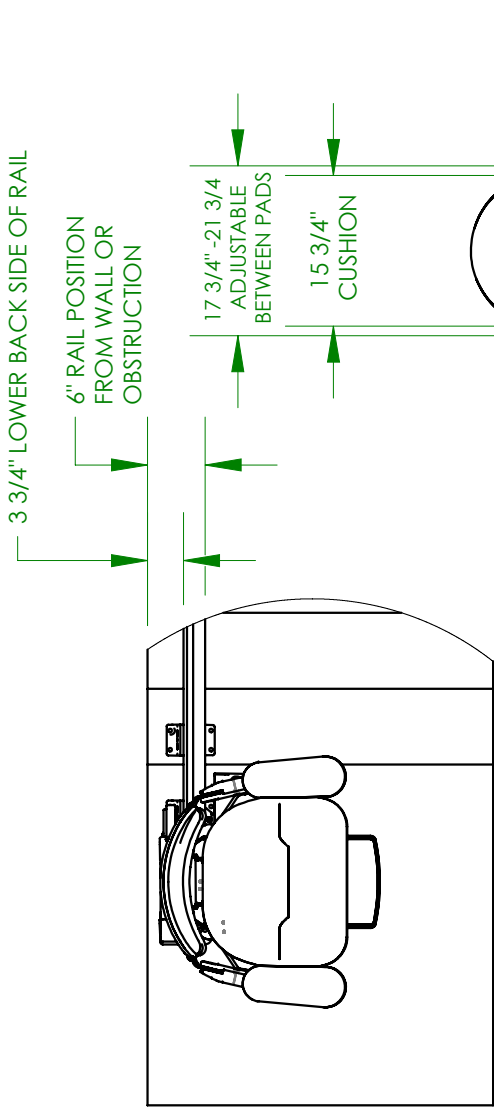
BRAKING: DYNAMIC MOTOR BRAKING THROUGH THE MOTOR  
 CONTROLLER, SELF LOCKING WORM GEAR, AND  
 ELECTRO-MECHANICAL MOTOR BRAKE.

CONTROLS: CONTINUOUS PRESSURE ROCKER SWITCH LOCATED  
 ON THE ARM REST AND WALL MOUNTED CALL/SEND  
 CONTROLS LOCATED AT BOTH THE TOP AND BOTTOM  
 LANDINGS.

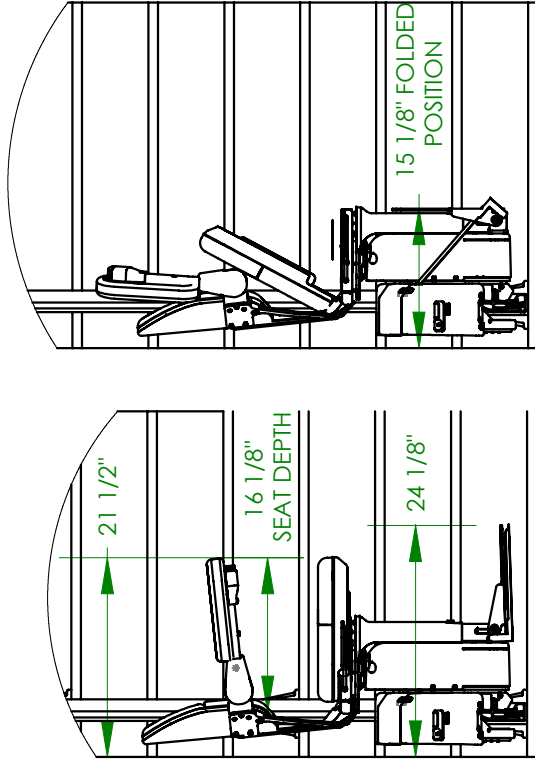
ANGLES: 0 TO 45 DEGREES (SPECIALS UP TO 50 DEGREES) RIGHT  
 OR LEFT HAND ORIENTATIONS.

FINAL LIMIT SWITCH STANDARD  
 OPTIONS:

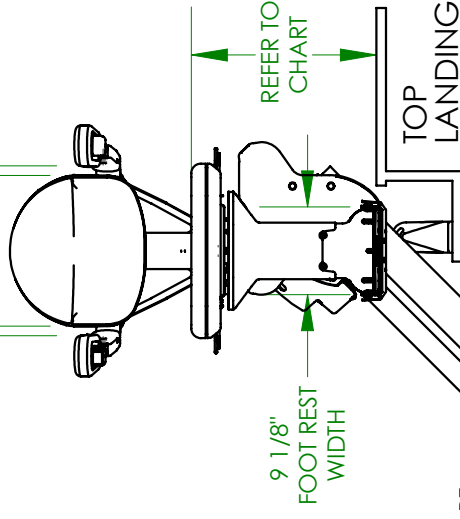
- 1) KEYED CALL/SEND CONTROLS,
- 2) KEYED CONTROL ON CHAIR,
- 3) COMMERCIAL PACKAGE W/OVERSPEED SAFETY BRAKE.



TOP VIEW

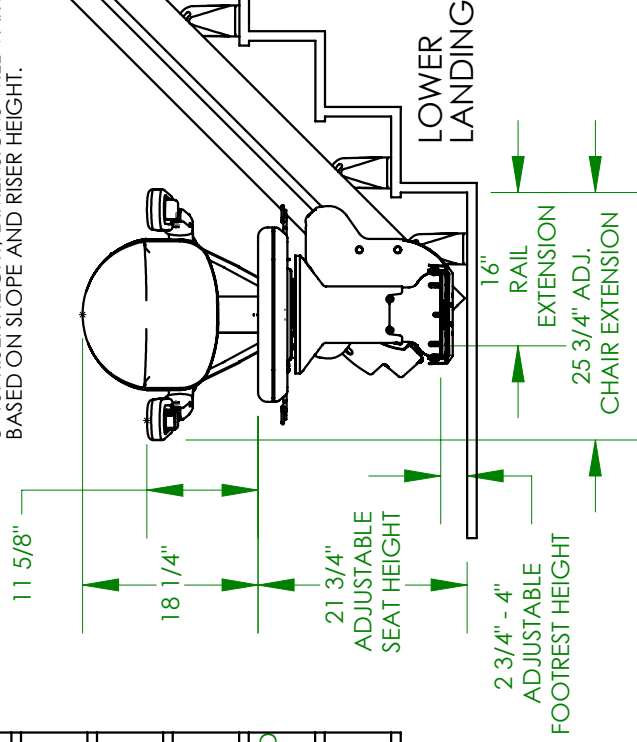


SIDE VIEWS



ELEVATION VIEW

LOWER LANDING EXTENSION DIMENSIONS ARE  
 BASED ON 45 DEGREE RAIL SLOPE ON AN  
 8" 1ST RISER HEIGHT. DIMENSIONS WILL VARY  
 BASED ON SLOPE AND RISER HEIGHT.



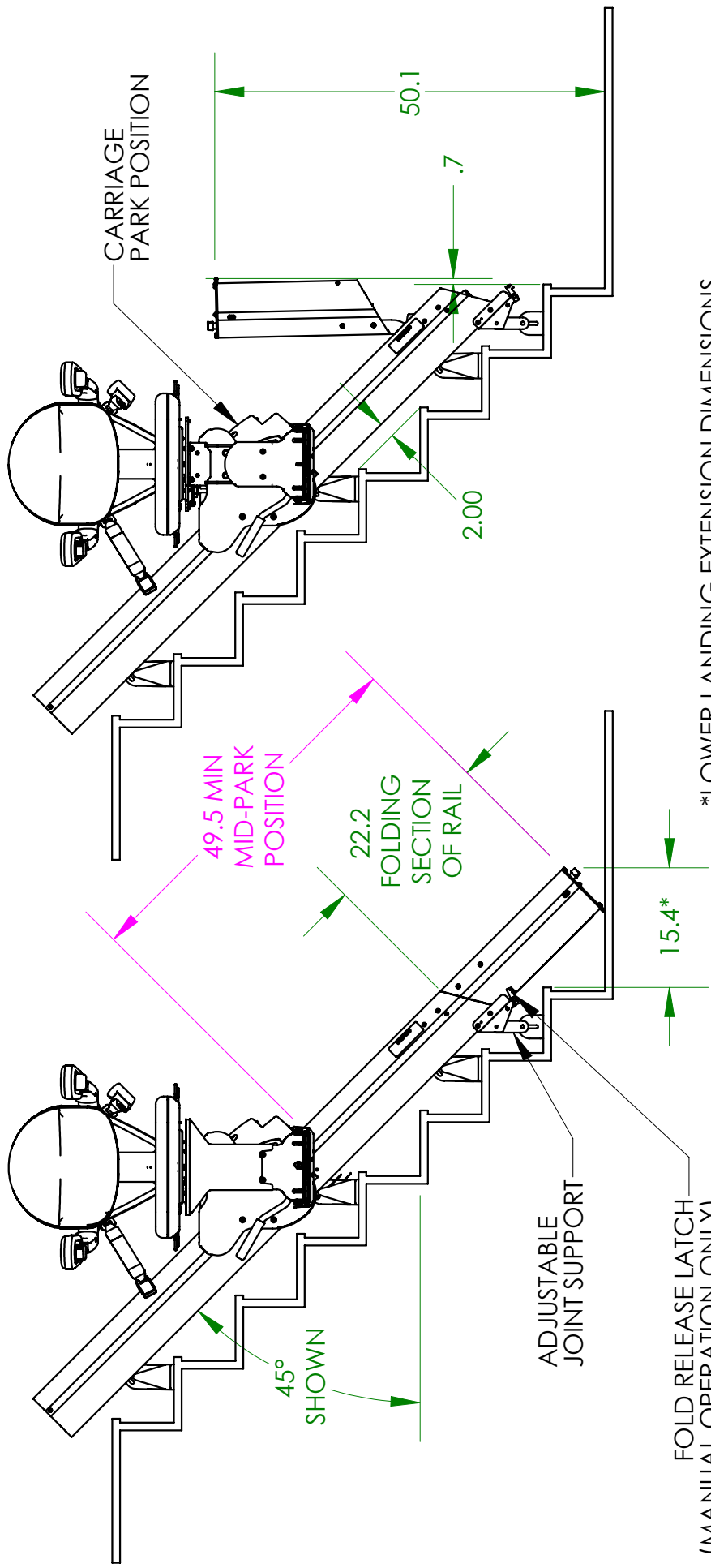
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# SRE-2010 FOLDING RAIL

## POWER & MANUAL FOLDING RAILS

AUXILIARY  
ELEVATION VIEW  
RAIL FOLDED  
DOWN POSITION

AUXILIARY  
ELEVATION VIEW  
RAIL FOLDED  
UP POSITION

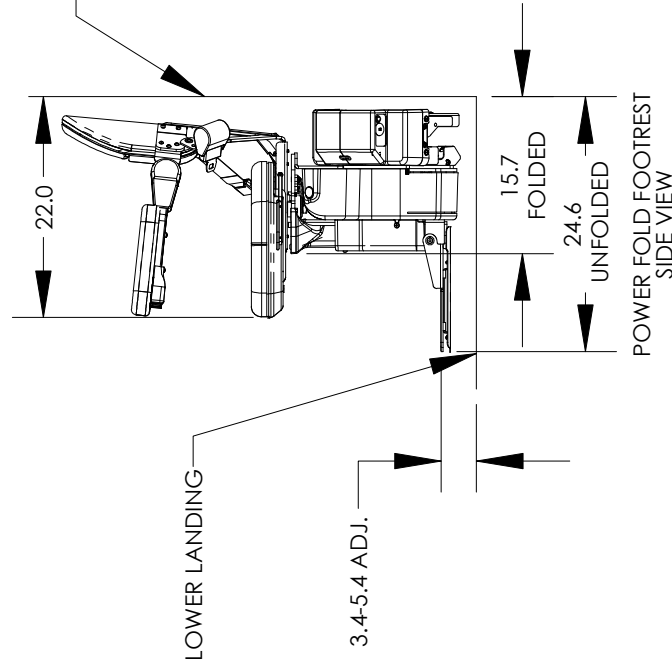
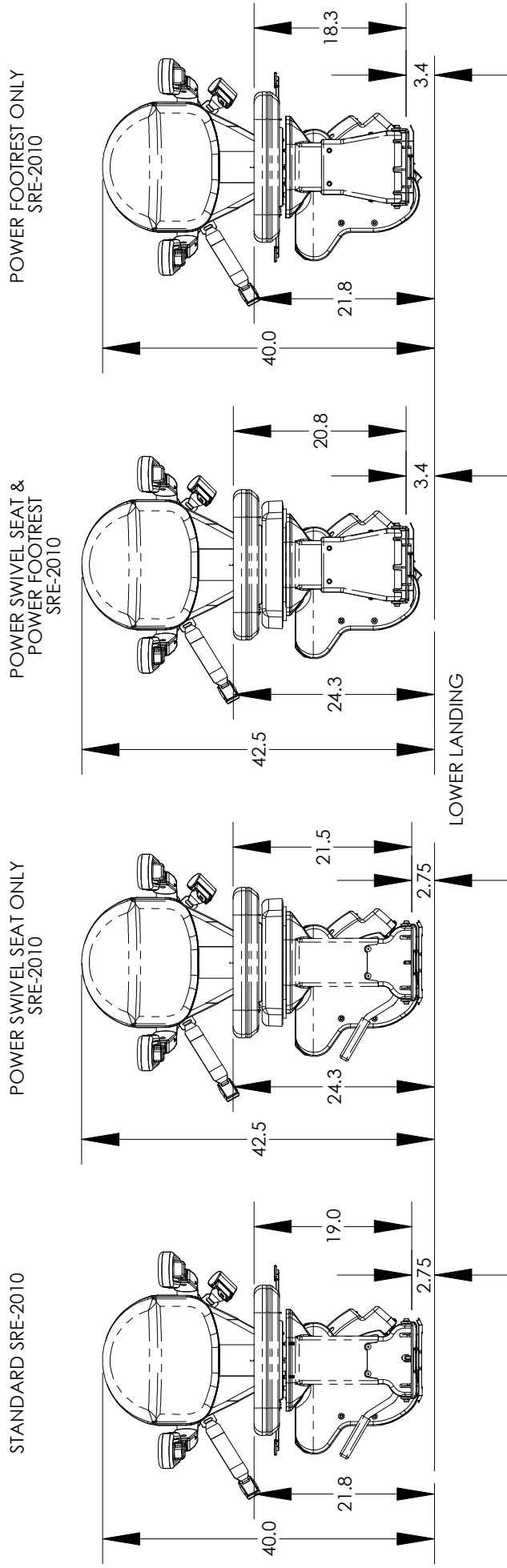


\*LOWER LANDING EXTENSION DIMENSIONS ARE BASED ON 45° RAIL SLOPE AND 8" RISER HEIGHT. DIMENSIONS WILL VARY BASED ON SLOPE AND RISER HEIGHT.

# SRE-2010 POWER OPTIONS TYPICAL DRAWING

SUPPLEMENTAL SEAT AND FOOTREST DIMENSION FOR POWER OPTIONS

CARRIAGE AND SEAT ELEVATION VIEW  
SEAT AND FOOTREST SHOWN IN LOWEST POSITIONS  
FOR RIGHT HAND INSTALLATIONS



NOTES:

- 1) ALL SEATS ADJUST UP 3" IN 1" INCREMENTS
- 2) STANDARD FOOTREST ADJUST UP 1 1/4" IN 5/8" INCREMENTS
- 3) POWER FOOTREST ADJUST UP 2" IN 1" INCREMENTS

**ILS-00853**  
**SHEET 1 OF 1**  
**REV. 0 (0)(12-11-08)(T.O'B)**