

THANK YOU FOR PURCHASING AN **SRE-1550 ELECTRA-RIDE II** STAIRWAY ELEVATOR. BE SURE TO CHECK CARTON CONTENTS FOR SHIPPING DAMAGE AS SOON AS THEY ARE RECEIVED. ALSO, CHECK THE CARTON CONTENTS AGAINST THE PACKING LIST (PAGE 2 OF THIS MANUAL) BEFORE BEGINNING THE INSTALLATION AND REPORT ANY DISCREPANCIES TO BRUNO INDEPENDENT LIVING AIDS IMMEDIATELY.

READING THROUGH THE INSTALLATION MANUAL BEFORE INSTALLING THIS UNIT WILL ENABLE YOU TO INSTALL THE ELEVATOR MORE QUICKLY AND WILL HELP YOU AVOID THE FRUSTRATION OF GETTING TO THE JOB SITE ONLY TO DISCOVER THAT YOU ARE MISSING A CRITICAL TOOL OR PIECE OF EQUIPMENT.

**NOTE:
MATERIAL DATA SAFETY SHEET(S) ON
MATERIALS USED ON THIS UNIT CAN BE
REQUESTED THROUGH OUR TECHNICAL SERVICE
DEPARTMENT**

PACKING LIST

The **ELECTRA-RIDE II** is shipped in 5 cartons. Check the contents of the cartons to be sure you have all of the components before beginning an installation.

Check the carton contents for shipping damage upon receipt. Damage claims must be filed by the Dealer, not the Manufacturer. Bruno Independent Living Aids cannot be responsible for shipping damage.

CARTON 1

- 1 EA. COMPLETE CARRIAGE ASSEMBLY
- 2 EA. BUMPER ASSEMBLIES

- | | | |
|--------------------------|-------|--|
| <input type="checkbox"/> | 1 EA. | SRE-K-1553 BUMPER ASSEMBLY. PARTS KIT |
| | 4 EA. | M8 EXT. TOOTH WASHER |
| | 4 EA. | M8 X 1.25 X 20mm LG. HEX HD. CAP SCREW |
| | 4 EA. | M8 X 1.25 METRIC HEX NUT (PLATED) |

CARTON 2

- 1 EA. FOOTREST ASSEMBLY
- 8 EA. RAIL CLAMP ASSEMBLIES
- 1 EA. BATTERY CHARGER
- 2 EA. CALL / SEND TRANSMITTERS
- 32 EA. (16' RAIL) 40 EA. (20' RAIL) SHEET METAL SCREWS (M 6.3 X 50 MM)

- | | | |
|--------------------------|-------|-----------------------------------|
| <input type="checkbox"/> | 1 EA. | SRE-K-1501 ELEC. PARTS KIT |
| <input type="checkbox"/> | 1 EA. | CHARGER HOOKUP WIRE HARNESS |
| <input type="checkbox"/> | 1 EA. | FUSE (AGC 5) |

- 1 EA. *WHITE LITHIUM GREASE (16' RAIL), 2 EA. (20' RAIL)
- 10 EA. WIRE TIES

CARTON 3

- 1 EA. SEAT ASSEMBLY
- 0 EA. (16' RAIL), 2 EA. (20' RAIL), EA. (CUSTOM RAIL) CLAMP SETS

CARTON 4

- 1 EA. RAIL SECTION

CARTON 5

- 1 EA. RAIL SECTION
- 1 EA. JOINT PLATE

- | | | |
|--------------------------|-------|--|
| <input type="checkbox"/> | 1 EA. | SRE-K-1502 HARDWARE KIT (JOINT PLATE) |
| <input type="checkbox"/> | 8 EA. | M6 X 16 FLAT HEAD SCREWS |
| <input type="checkbox"/> | 8 EA. | M6 HEX NUTS |

***MSDS (MATERIAL SAFETY DATA SHEET) AVAILABLE FROM BRUNO UPON REQUEST CONTACT SERVICE DEPARTMENT**

OVERVIEW OF INSTALLATION

Installation of the *ELECTRA-RIDE II Stairway Elevator* consists of the following:

- * Determine whether the elevator should be a left or right side installation. "Left" or "right" installation is determined by the side of the stairway on which the rail is installed (viewed from the bottom of the stairs). THE GEAR RACK WILL BE TOWARD THE CENTER OF THE STAIRS. (See figure 14) Unless specified otherwise Bruno Stairway Elevators are set up for left side installation as shipped, but can easily be converted to right side installation (instructions included in this manual).
- * Identify and locate lower Rail section and bumper bracket assembly.
- * Assemble and tighten the Rail Joint. *CAUTION: RAILS CANNOT BE MIXED. CHECK ID NUMBERS STAMPED AT ENDS OF RAILS.*
- * Determine the correct length for the Rail (using step 2 & 4 from APPLICATION GUIDE information), and cut the Rail.
- * Install lower bumper assembly.
- * Position rail on left or right side of stairway using rail clamp assemblies.
- * Install the Call/Send Antenna.
- * Manually mount the carriage on the upper rail.
- * Adjust the carriage angle by loosening the four *Angle Adjustment Bolts*.
- * Install seat assembly and make electrical connections.
- * Secure the footrest.
- * When installing a right side *ELECTRA-RIDE II* the reversing operation must be followed.
- * Remove one motor cover (right side installation only) Reverse the motor leads and flip the two switches to reverse the direction of the elevator.

OVERVIEW OF INSTALLATION

- * *ELECTRA-RIDE II* trial run and determine final location of rail.
- * Determine the appropriate location for the remaining Mounting Clamps and Brackets for attaching the Rail to the stairs and loosely assemble the Clamps and Brackets to the Stair Elevator Rail.
- * Adjust and tighten the Rail Clamps and Mounting Brackets and anchor the Mounting Brackets to the stairs.
- * Locate and drill holes for the top Bumper Bracket.
- * Install the top Bumper Bracket.
- * Determine where the charger will be positioned, and install rail wire lead accordingly.
- * Position Battery Charger at upper or lower landing and route wire to household outlet.
- * Mount remote Call/Send Modules.
- * Test unit for proper operation.
- * Train customer in safe and convenient operation of Elevator.

No installation is complete until the customer has been trained to use the elevator smoothly and safely. After demonstrating correct operation, have the customer operate the elevator several times while you are available to answer their questions. **BE SURE THE CUSTOMER UNDERSTANDS ALL SAFETY ASPECTS OF USING THE ELEVATOR.** Patience and thoroughness in this phase of the installation is often rewarded with repeat business and customer referrals.

TOOLS NECESSARY FOR INSTALLATION

- PROTRACTOR LEVEL, BUILDERS LEVEL
- METRIC SOCKET SET (10 MM THROUGH 22 MM)
- RATCHET, W / 6" EXTENSION
- COMBINATION WRENCH SET (METRIC, 22 THROUGH 36 MM)
- PHILLIPS SCREWDRIVERS
- SLOTTED SCREWDRIVERS
- METRIC ALLEN WRENCHES (3MM MINIMUM SIZE)
- ELECTRIC DRILL WITH LETTER 'O' (.316") AND 1/4" BIT
- HACKSAW WITH 2 OR 3 BLADES OR METAL CUTTING BANDSAW
- 20 FOOT TAPE MEASURE
- SMALL RUBBER Mallet
- C-CLAMP
- FLASH LIGHT
- 5/16" OPEN ENDED WRENCH
- NEEDLE NOSE PLIERS
- SCISSOR OR KNIFE
- EXTENSION CORD
- DOUBLE SIDED FOAM TAPE
- FILE
- 12" ADJUSTABLE WRENCH

NOTE:

THE STANDARD STAIRWAY ELEVATOR IS SUITABLE FOR STAIRWAY ANGLES UP TO 45 DEGREES.

BE SURE YOU HAVE ALL NECESSARY PARTS AND TOOLS BEFORE TRAVELING TO INSTALLATION SITE.

INSTALLATION

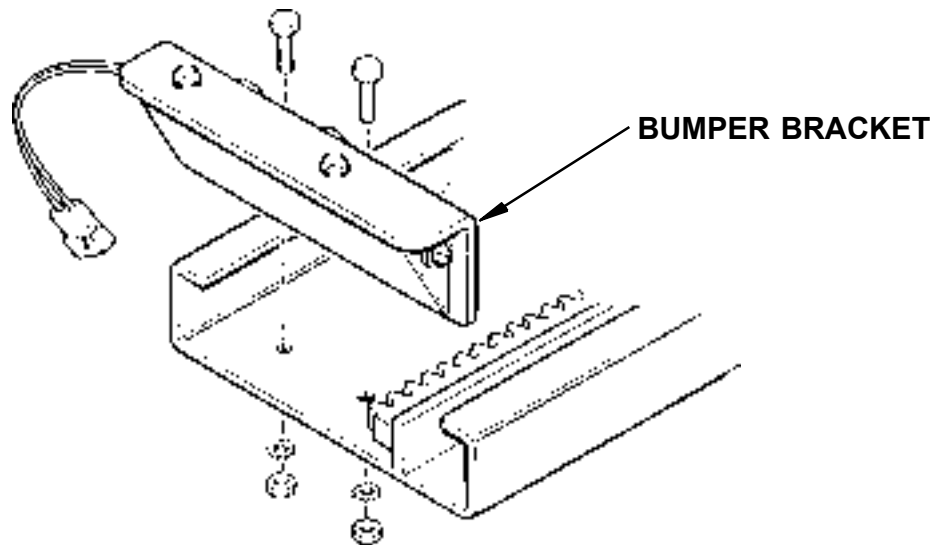
ASSEMBLY

- [] Determine whether the elevator should be a left or right side installation. "Left" or "right" installation is determined by the side of the stairway on which the rail is installed (viewed from the bottom of the stairs). *Unless specified otherwise Bruno Stairway Elevators are set up for left side installation as shipped, and can easily be converted to right side installation (instructions included in this manual on page 15).*
- [] Identify and locate lower rail section for the left or right installation.

BUMPER BRACKET INSTALLATION

- [] Assemble lower rail, install Bumper Bracket.

FIGURE 1



FITTING THE RAIL

CAUTION:

THIS RAIL MUST BE INSTALLED 1/2" TO 1" ABOVE NOSING OF STAIRS, OR THE FOOTREST WILL HIT THE STEPS CAUSING INTERMITTENT OPERATION.

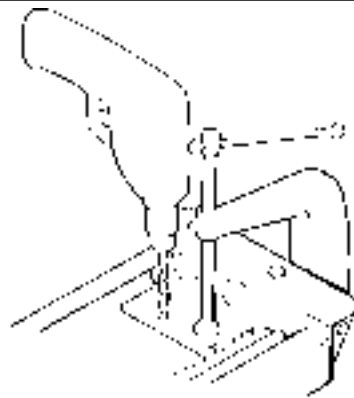
- [] Determine the correct length for the Rail by measuring along a straight line placed on the stairs. (SEE STEP 2 IN THE APPLICATION GUIDE) Add to that amount measurement B (STEP 4 IN THE APPLICATION GUIDE). This process will allow you to custom fit the elevator to your customer taking into consideration the most comfortable seat to floor height within the space available at the top of the stairs.

NOTE: THE RAIL MUST REST APPROXIMATELY 1/2" TO 1" ABOVE NOSING OF THE STEPS AND EXTEND FROM THE LOWER FLOOR TO A POINT BEYOND THE NOSING OF THE TOP STEP (SEE APPLICATION GUIDE STEP 4). IN SOME CASES WHERE THE BOTTOM LANDING IS MADE OF MATERIAL SUCH AS CONCRETE, CERAMIC TILE OR SLATE) THE LAST BRACKET ON THE LANDING MAY BE OMITTED WITH A BRACKET ADDED ON THE SECOND STEP FROM THE BOTTOM AND TOP OF STAIRWAY.

CUTTING THE RAIL

- [] Use a metal-cutting power-saw or manual hacksaw to cut the rail to length. Cut off the end of the rail which will be located at the top of the stairway.
- [] Use a file or other appropriate tool to de-burr the cut end of the rail. Soften any sharp edges which might abrade the insulation from wiring which must be routed to the bumper at the end of the rail.
- [] Use a C-clamp to hold the upper Bumper Bracket in place in the cut end of the rail and use the holes in the Bumper Bracket as guides to drill mounting holes using "O" size (8.03 MM/.316") drill bit in the rail.

FIGURE 2



USE "O" SIZE DRILL BIT (8.03MM/.316")

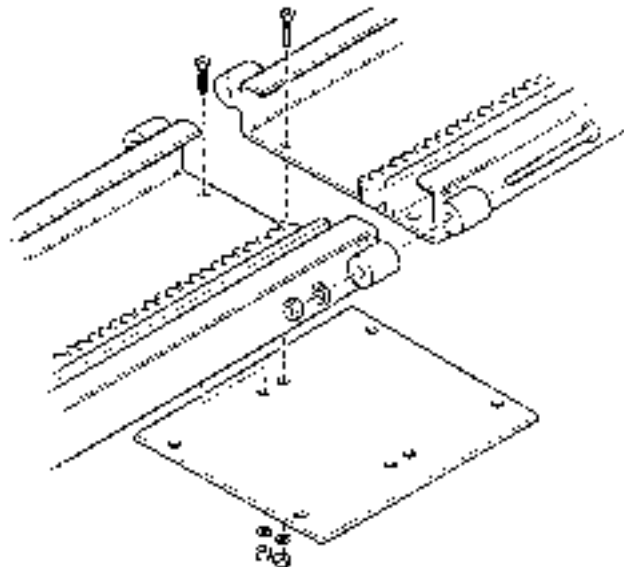
RAIL JOINT ASSEMBLY

NOTE:
THE RAIL IS ALWAYS INSTALLED WITH THE GEAR RACK TOWARDS THE CENTER OF THE STAIRS AND GEAR TEETH FACING REAR OF UNIT.

- [] Assemble the Rail joint by attaching the Bottom Plate to Rail with M6 X 20 Flat Head Screws, external-tooth Lock washers and M6 Hex Nuts. Install the M10 Bolts, M10 internal tooth Washer and M10 hex nut through the Joint Blocks on both sides of the Rail. Tighten all bolts securely and make sure screw heads are flush with the surface of the inside of the Rail.

FIGURE 3

NOTE:
THE CHAMFERED EDGES OF THE HOLES MUST FACE "UP" TOWARD THE BOTTOM OF THE RAIL.



INSTALLATION

POSITION RAIL CLAMP ASSEMBLIES

***NOTE:**
**CHECK ARM WIDTH
 REQUIRED BY
 CUSTOMER. IF THE
 ARMS ARE ADJUSTED
 WIDER THAN
 NORMAL, THEN THE
 DISTANCE FROM THE
 WALL WILL HAVE TO
 INCREASE GREATER
 THAN 2 1/2" IF
 SWIVELING AGAINST
 A WALL.
 (SEE PAGE 25)**

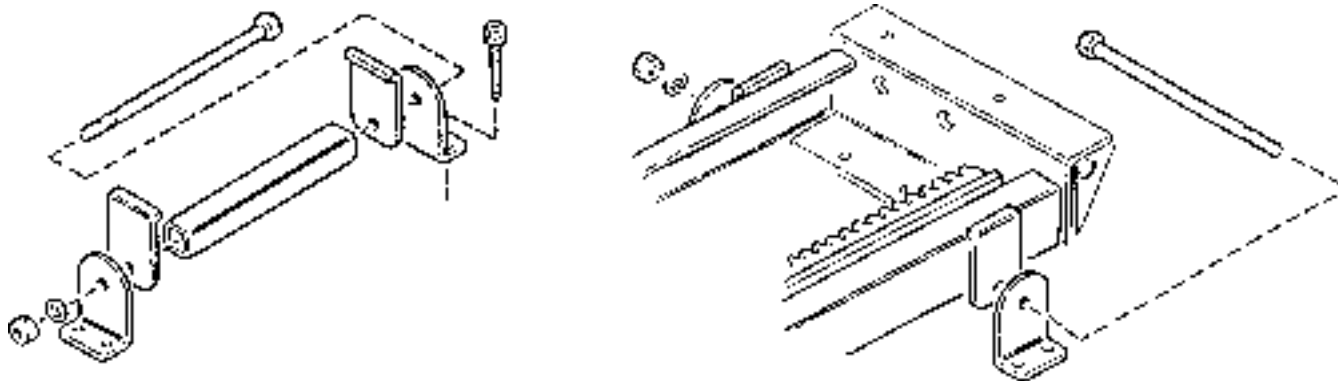
- [] Install rail mounting foot clamps in the placement pattern as follows: (leaving a minimum of 1/2" from the wall.) (See figure 5)

- *BOTTOM OF RAIL
- *FIRST STEP UP FROM BOTTOM OF RAIL
- *TOP STEP OR LANDING
- *EVERY OTHER STEP BETWEEN TOP AND BOTTOM
- *EXCEPT ONE ON STEPS EACH SIDE OF RAIL JOINT

NOTE: IF TOP OR BOTTOM CLAMP IS OMITTED BECAUSE THE LANDING IS CEMENT OR CERAMIC TILE OR ANOTHER SUBSTANCE THAT THE OWNER DOESN'T WANT HOLES IN, A SET OF CLAMPS SHOULD BE ADDED ON THE SECOND LAST STEP AND AT THE TOP OF STAIRWAY.

- [] For ease of installation, finger tighten all clamps to rail. *The clamp assembly should be positioned so the nut is closest to the wall.* (See figure 4 & 5)
- [] Slide top and bottom clamps down until firmly seated on step. When installing on carpeted stairs a rubber mallet should be used on clamps to compress carpet and cushion before anchoring to steps.
- [] Install securely one screw near the wall on top and bottom of foot of clamp assemblies. This will enable the installer to change position of the rail if necessary and prevent drilling excess holes.

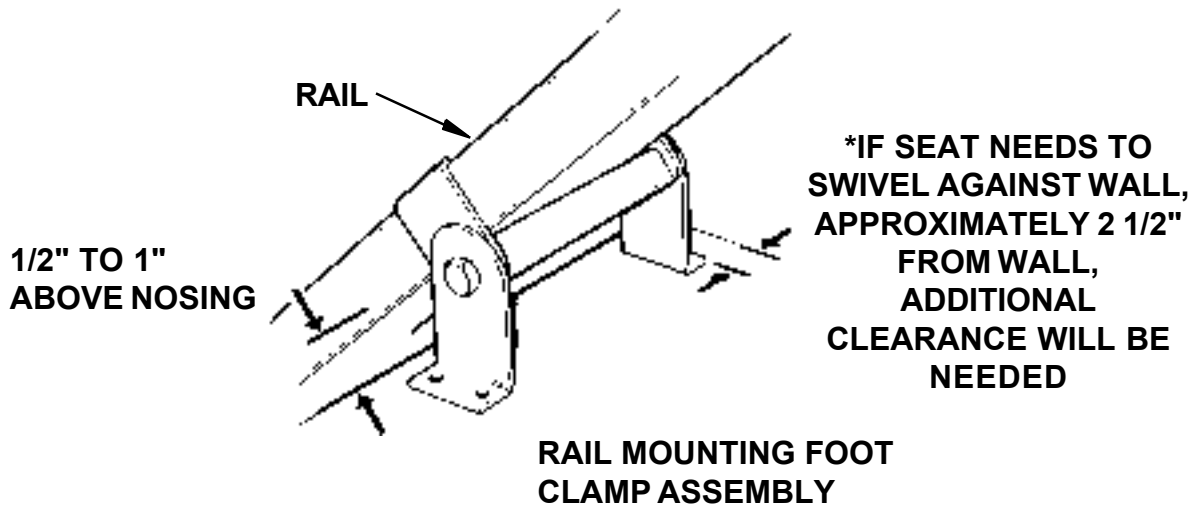
FIGURE 4



POSITION RAIL CLAMP ASSEMBLIES

- [] Make sure to use the measurements in (figure 5) as a guide for positioning Clamp assemblies.

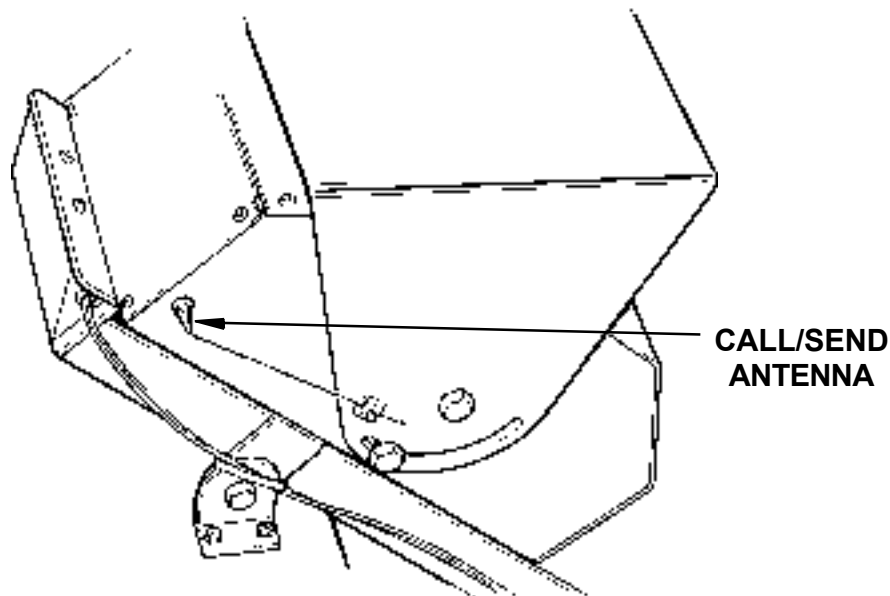
FIGURE 5



CALL/SEND ANTENNA INSTALLATION

- [] Install the Call/Send Antenna on the rear side of carriage. Take care to place the Antenna in a horizontal position.

FIGURE 6



***NOTE:** IF THE UNIT WILL HAVE TO SWIVEL AGAINST A WALL AT EITHER END OF THE RAIL, ADDITIONAL DISTANCE WILL BE NEEDED BETWEEN THE RAIL AND THE WALL. CHECK CLEARANCES BEFORE SECURING TO STAIRS.

INSTALLATION

MOUNT THE CARRIAGE ON THE UPPER RAIL

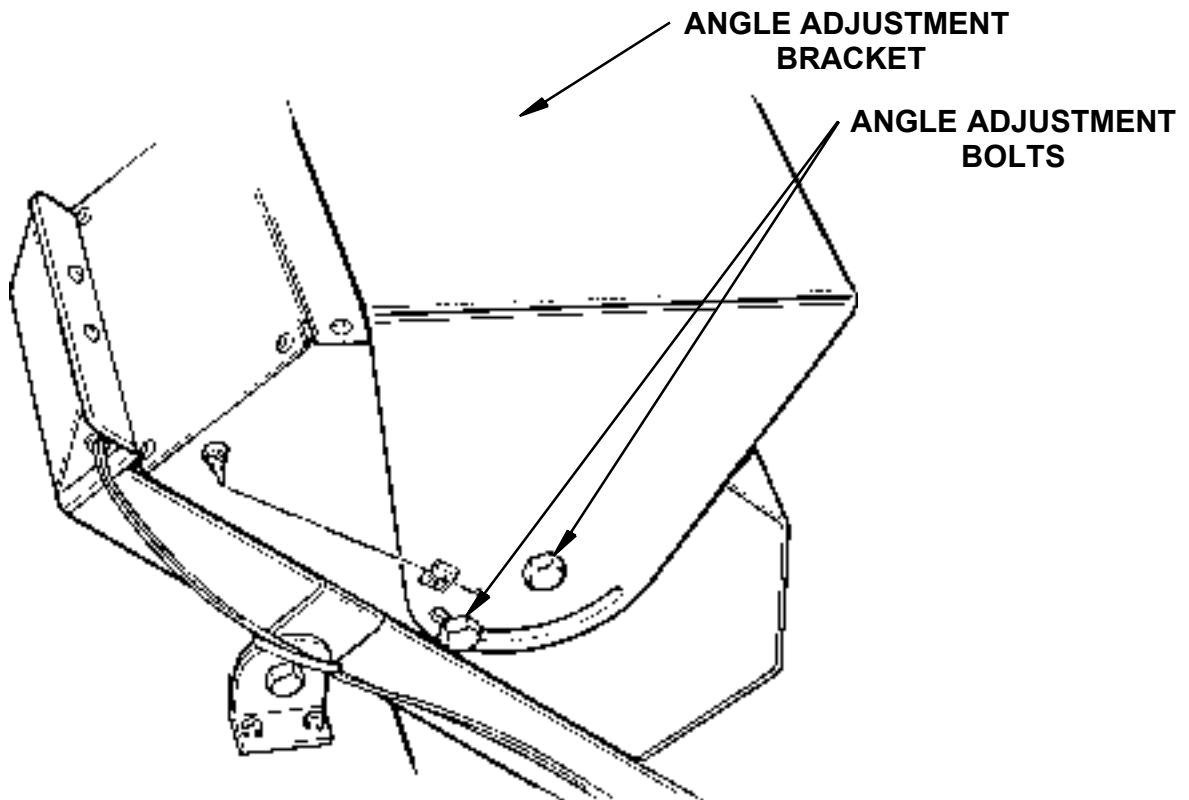
- [] Turn Toggle Switch off. When facing front of unit, remove left motor cover. Slide the carriage into the Rail until the spur gear rests on the gear rack. Manually turn the motor pulley to fully engage the entire carriage inside the upper rail.

NOTE:
*RECHECK WITH LEVEL
AFTER TIGHTENING
ADJUSTMENT BOLTS.

ADJUST THE CARRIAGE ANGLE

- [] Adjust the carriage angle by loosening the *Angle Adjustment Bolts* (shown in figure 7). Level the *Angle Adjustment Bracket*, using a standard builders level or protractor level. When the *Angle Adjustment Bracket* is level securely tighten all four *Angle Adjustment Bolts**.

FIGURE 7

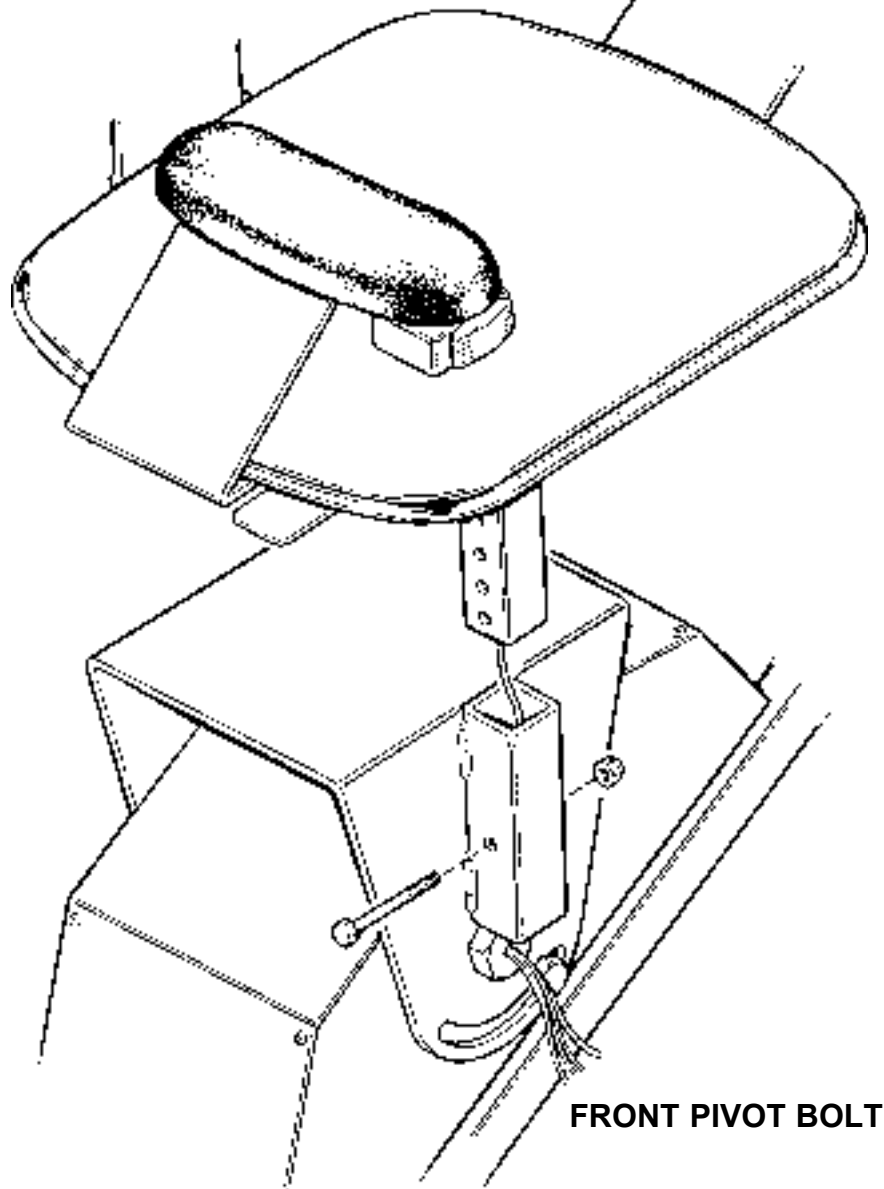


INSTALL SEAT ASSEMBLY

- [] Feed the five conductor lead through the hollow tube under the seat. Insert seat frame post into the outer mounting tube. Determine the correct seat height then insert bolt in desired hole leaving the head of the bolt protruding 3/8" from the mounting tube. (As shown in figure 9). Fish excess wires into hole on Front Pivot Bolt.

FIGURE 8

INSTALL SEAT ASSEMBLY AS SHOWN



SEAT HEIGHT ADJUSTMENT

- [] Remove Footrest Assembly, then gently pull extra wire from hole in Pivot Bolt. Then remove bolt in seat adjustment tube weldment. Adjust seat height, replace bolt and secure. Reinsert extra wire in Pivot Bolt, replace Footrest Assembly.

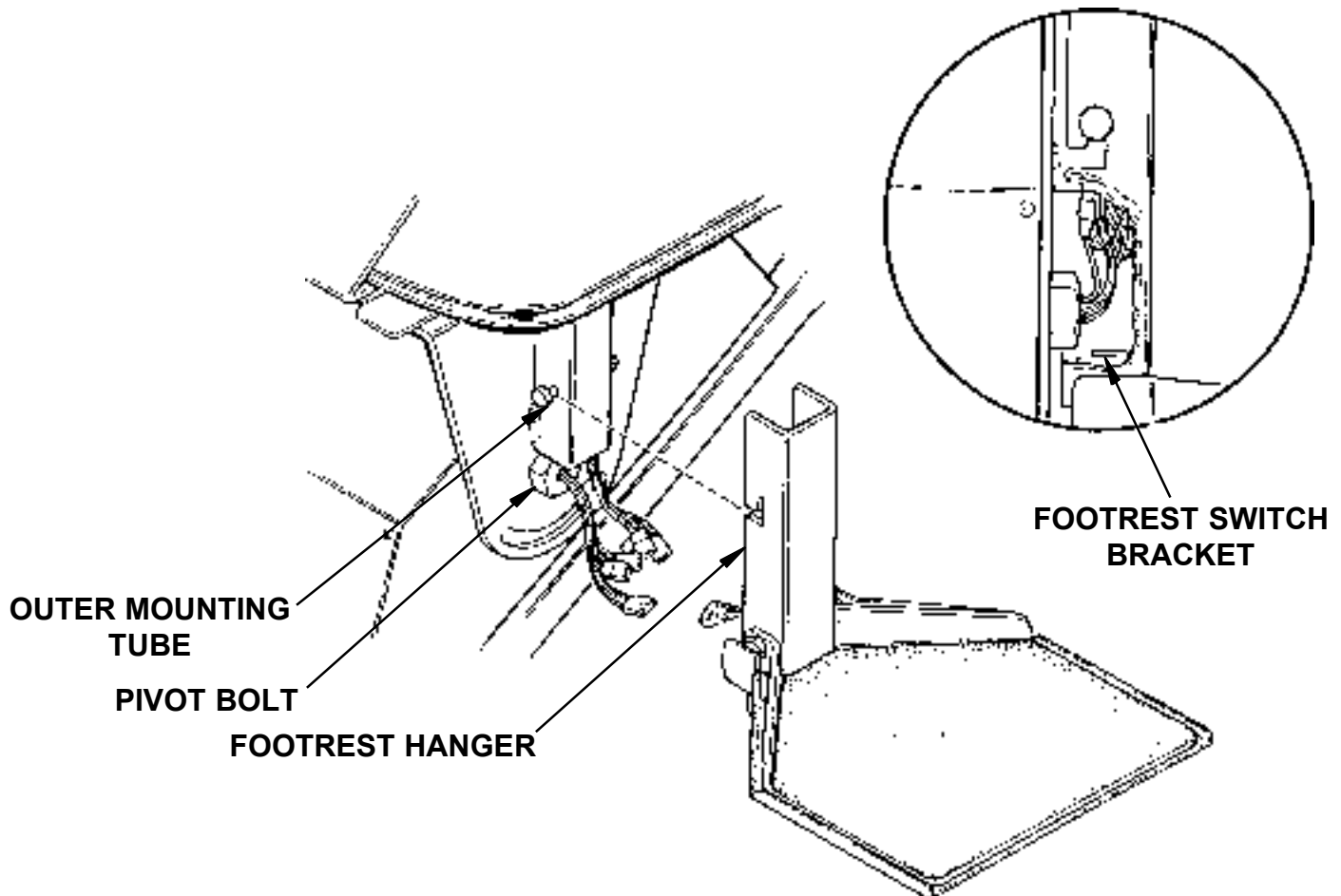
INSTALLATION

FOOTREST ASSEMBLY

Connect the wires as shown in illustration (See figure 9). Tuck excess wires in Outer Mounting Tube just below the bolt in Seat Adjustment Tube. While holding the wires in place bring the footrest close to the carriage near the Pivot Bolt, tilt the Footrest slightly while raising it up and over the Bolt until it is engaged in the slot.

NOTE: BE CAREFUL NOT TO PINCH THE WIRES WHILE SLIDING THE FOOTREST OVER THE BOLT.

FIGURE 9



ELECTA-RIDE II TRIAL RUN

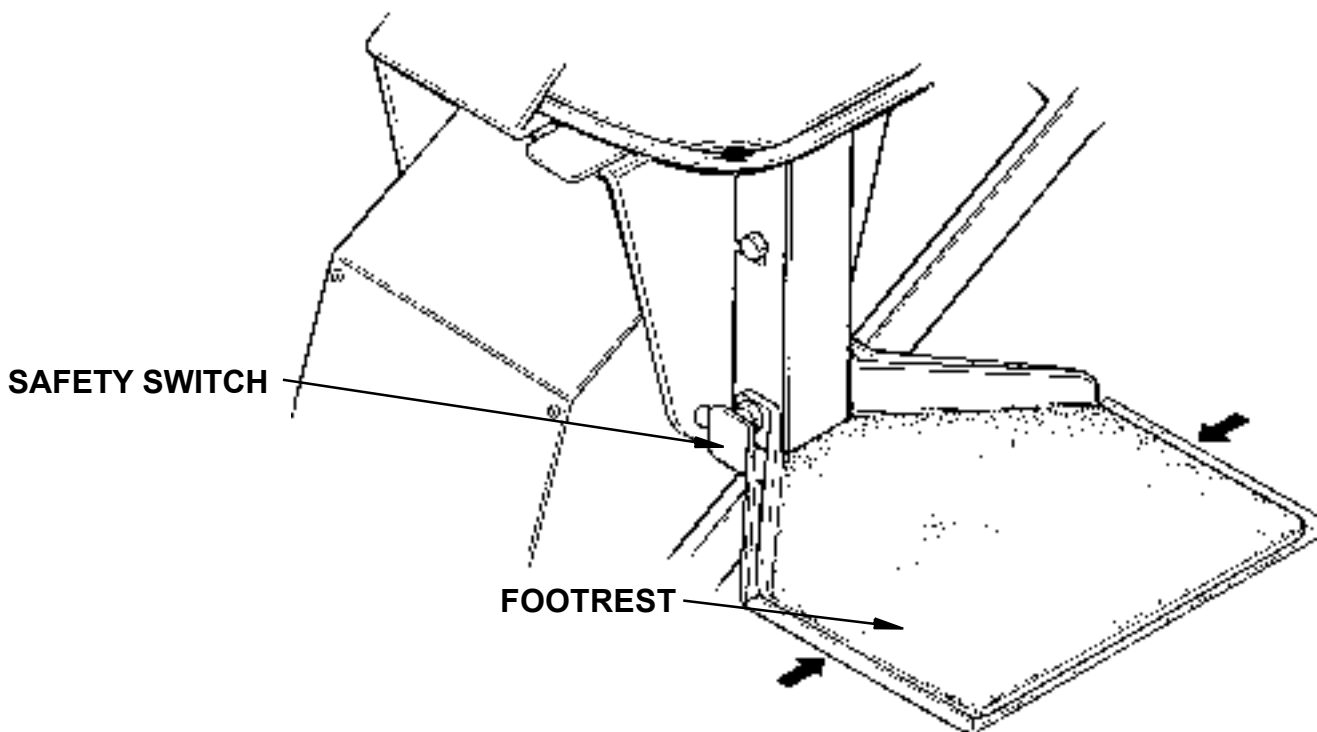
- [] With the seat in the central riding position, move the elevator completely down and up the rail, while observing the elevator to wall clearance. A clearance of 1/2" to 1" is acceptable. Repeat the run with the seat in the folded position. If necessary, adjust the rail placement by sliding it closer or further from the wall.
- [] Test the unit for proper: speed, direction, Limit Switch operation, Footrest Safety Switch operation, Seat Swivel Safety Switch operation and Remote Call/Send operation.

**NOTE:
MAKE SURE
CALL/SEND ANTENNA
HAS CLEARANCE FOR
ENTIRE TRAVEL OF
RAIL.**

SAFETY SWITCH

[] The footrest comes equipped with a safety switch which will stop the elevator in the event that something becomes trapped between the footrest and a stair tread. Confirm correct operation of this feature by moving the sliding tray (BOTH SIDES) while operating the elevator. The elevator will stop if this feature is operating correctly.

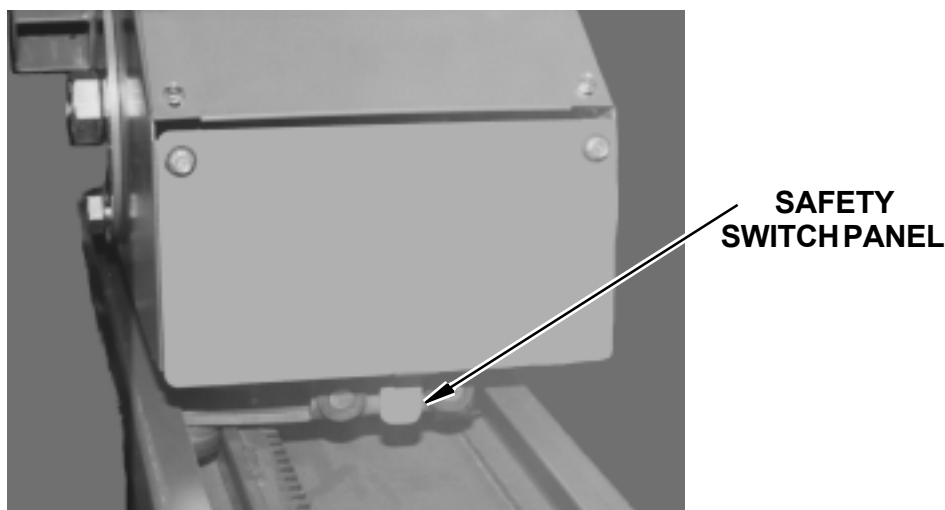
FIGURE 10



SAFETY SWITCH PANEL

The Carriage comes equipped with a Safety Switch Panel. As the Carriage approaches the end of the Rail, the Panel is depressed, which activates the Switch, and stops the carriage.

FIGURE 11



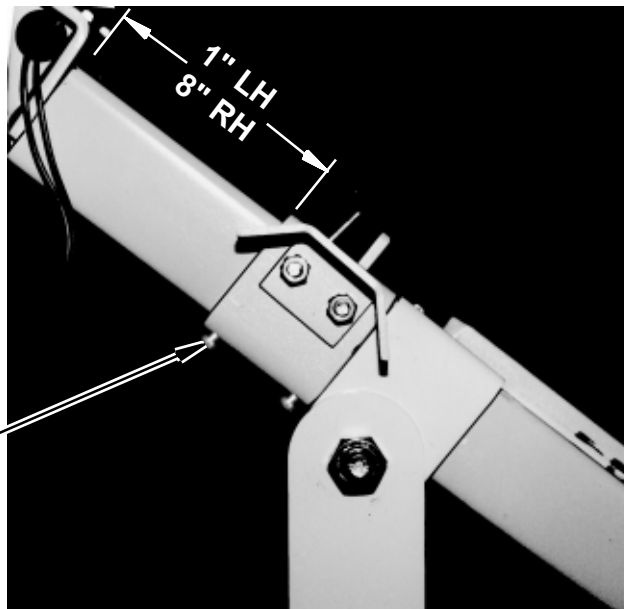
INSTALLATION OF FINAL LIMIT ACTUATION

The Final Limit Switch and Actuation Ramp is an added safety feature for stopping the unit. The Actuation Ramp is to be mounted to the side of the rail 1" from the top of the rail in a LEFT HAND installation. In a RIGHT HAND installation the Actuation Ramp is to be mounted 8" from the top end of the rail. Tighten M5 X .8 Hex Head Screws on bottom of ramp.

FIGURE 12

**MEASURE THE
DISTANCE FROM THE
END OF THE RAIL TO
THE INSIDE EDGE OF
THE ACTUATION RAMP**

**TIGHTEN M5 X .8 HEX
HEAD CAP SCREWS**



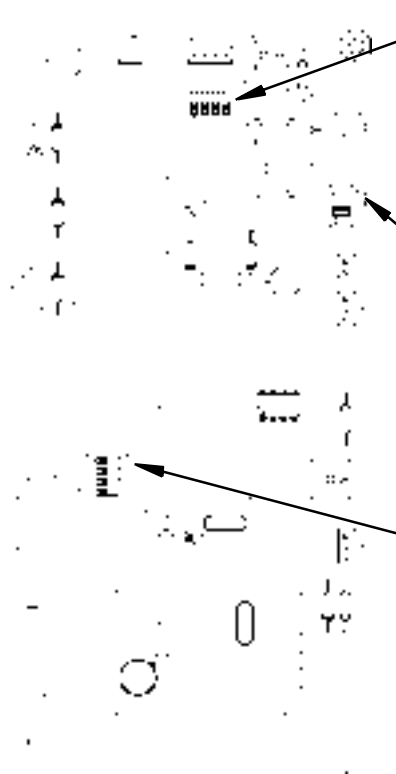
REVERSING OPERATION

INSTALLATION ON RIGHT SIDE OF STAIRWAY

- [] The elevator is shipped set up for a left side installation (on your left as you view the elevator from the bottom of the stairs.) Should the installation require a right hand installation observe the following instructions.
- [] Turn the On / Off Circuit Breaker on the rear of carriage to 'OFF'.
- [] Remove Left Carriage Cover.
- [] Set the Installation DIP Switch (S2) to the 'RH' position.
- [] Set the No. 1 DIP Switch on the 4-Ganged Dip Switch (SW1) to the 'OFF' position.
- [] Check that the Power Switch (S3) is turned 'ON'.
- [] Unplug the Motor Leads and reverse connections.
- [] Turn the Circuit Breaker Switch to the "ON" position.
- [] Replace the Carriage Cover.

FIGURE 13

CIRCUIT BOARD

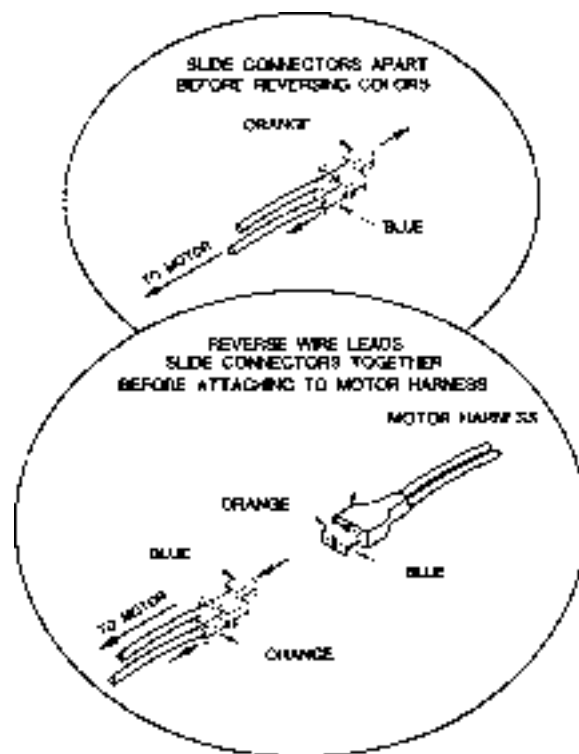


FLIP THE
INSTALLATION
DIP SWITCH
FROM 'LH' TO
'RH' POSITION

POWER DIP
SWITCH S3

FLIP NO. 1
SWITCH
TO THE 'OFF'
POSITION

REVERSING CONNECTIONS



CHANGING CONTROLS FROM RIGHT TO LEFT ARMREST

- [] Remove the Switch Housing weldment by removing the phillips head machine screw under the arm. The trim holding the harness on the backside of the arm slides off. Disconnect the harness under the seat and route the harness through the opposite side. Fasten the switch housing on the left arm and reconnect the harness. Slide the trim over the harness on the backside of the arm.

CIRCUIT BOARD OPERATION

The Interconnect Circuit Board provided on the (1550) unit is equipped with diagnostic modes that will continuously monitor the operation of the lift. The Circuit Board has four available diagnostic modes to accommodate all types of installations. (The elevator is shipped in Mode #1)

MODE # 1 MULTI - USER / DIAGNOSTIC MODE

Provides full range of Audio diagnostic notices:

- * Circuit Board Power Up : Chirp
- * Safety Device Activated: Chirp
- * Stairlift Stopped off Charge Bumper: 5 Beeps (4 short and 1 long) Repeats every 3 minutes until stairlift is returned to bumper.
- * Battery Voltage Drop : 5 Beeps (3 short and 2 long) Repeats every 4 minutes until seat safety switch is disengaged, the battery voltage increases or switch is pressed.
- * Battery Voltage Critical: 5 Beeps (2 short and 3 long) Repeats once a minute until voltage is above 16 V or switch is pressed.
- * Switch is active during Power Up: 2 Beeps / Pause Repeats beeps every 5 seconds until all switches are off.
- * More than one switch active: 2 Beeps / Pause Repeats every 30 seconds until all switches are off.

MODE # 2 SINGLE - USER

Provides the same audio diagnostic notices as Mode # 1 except for the Seat Safety Disengaged notice. The unit will chirp one time and not repeat the notice.

MODE # 3 QUIET

In the quiet mode none of the Audible Warning Messages are active.

MODE # 4 BATTERY WARNINGS ONLY

Provides battery audio diagnostic only.

- * Stairlift Stopped off Charge Bumper: 5 Beeps (4 short and 1 long) Repeats every 3 minutes until stairlift is returned to bumper.
- * Battery Voltage Drop : 5 Beeps (3 short and 2 long) Repeats once every 4 minutes until seat safety switch is disengaged or the battery voltage increases.
- * Battery Voltage Critical: 5 Beeps (2 short and 3 long) Repeats once a minute until voltage is above 16 V.

AUDIO REFERENCE

Chirp	.25 Seconds
Short Beep	.5 Seconds
Long Beep	1.5 Seconds
Pause	1 Second

CHANGING THE PCB DIAGNOSTIC MODE

- * Turn the Circuit Breaker on the carriage to 'OFF'.
- * Remove Left carriage cover.
- * Turn the Power DIP Switch (SW3) to the 'OFF' position.
- * Unit is shipped is Multi-User diagnostic Mode # 1.
Changes are made on (S1) 4 Ganged DIP Switch -
Number 3 and Number 4 Positions.

4 GANGED DIP SWITCH (SW1)

DIAGNOSTIC MODE	DIP SWITCH POSITION	
	#3	#4
Mode # 1 - Multi-User	OFF	OFF
Mode # 2 - Single-User	OFF	ON
Mode # 3 - Quiet	ON	OFF
Mode # 4 - Battery Warning Only	ON	ON

OTHER CIRCUIT BOARD FEATURES

Also located on S1 DIP Switch are switch #1 Installation and #2 Coast Delay. Refer to page 15 (Reversing operation) for changing Switch # 1. The coast delay option (Switch #2 on S1) has been provided in cases of interference which may cause intermittent operation. The normal setting is 1.5 seconds of coast, should the unit lose the remote call/send signal, this can be increased to 2.0 seconds by moving switch # 2 on S1 to the 'ON' position.

INSTALLATION

INSTALL FOOT CLAMPS

- [] Check that the foot clamp base position is a minimum of 1/2" from the wall.

NOTE: THE STAIRWAY ELEVATOR COMES WITH FASTENERS APPROPRIATE FOR WOODEN STAIR TREADS ONLY. OTHER STAIR MATERIAL MAY REQUIRE DIFFERENT FASTENERS (CONTACT BRUNO INDEPENDENT LIVING AIDS FOR FURTHER ASSISTANCE). (NOTE: FOR HARDWOOD STAIRS, IT IS RECOMMENDED THAT A PILOT HOLE BE DRILLED BEFORE SCREWING IN FASTENERS).

NOTE:
IF THREADED FASTENER EXTENDS BELOW A STAIR TREAD THAT IS EXPOSED, IT CAN BE TRIMMED FLUSH WITH A PLIERS.

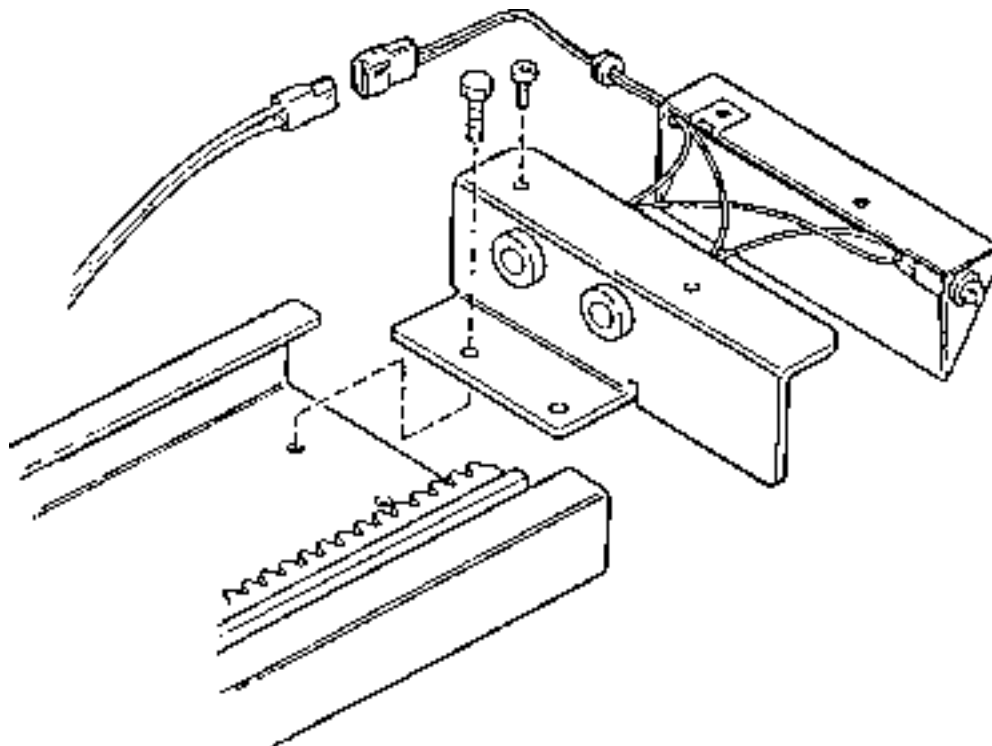
RECHECK NOTE:
BEFORE TIGHTENING THE BRACKETS CHECK TO MAKE SURE THAT THE BUMPER WIRES ARE NOT TRAPPED UNDER BUMPER BRACKET AT LOWER LANDING

- [] Once rail position is confirmed, place one screw in each bracket to hold rail in place while tightening to rail. (This will prevent mounting feet from rotating while bolt is being tightened.)
- [] Tighten rail bolt and install the rest of the screws in bracket, then tighten securely.

INSTALL THE UPPER BUMPER BRACKET

- [] Install the upper bumper bracket to rail.

FIGURE 14



INSTALLATION

INSTALL THE UPPER BUMPER BRACKET

- [] Install the upper bumper bracket to rail.

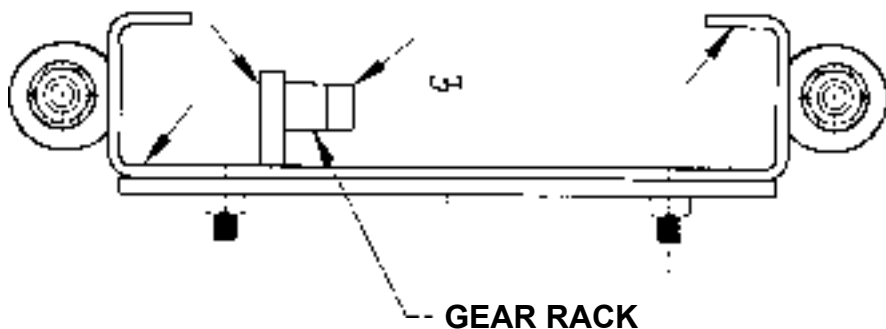
LUBRICATION

- [] Apply a coating of White *Lithium Grease to the Gear Rack and inner flanges of the Stair Rail as shown.

1 TUBES PER 16 FOOT UNIT
2 TUBES PER 20 FOOT UNIT

FIGURE 15

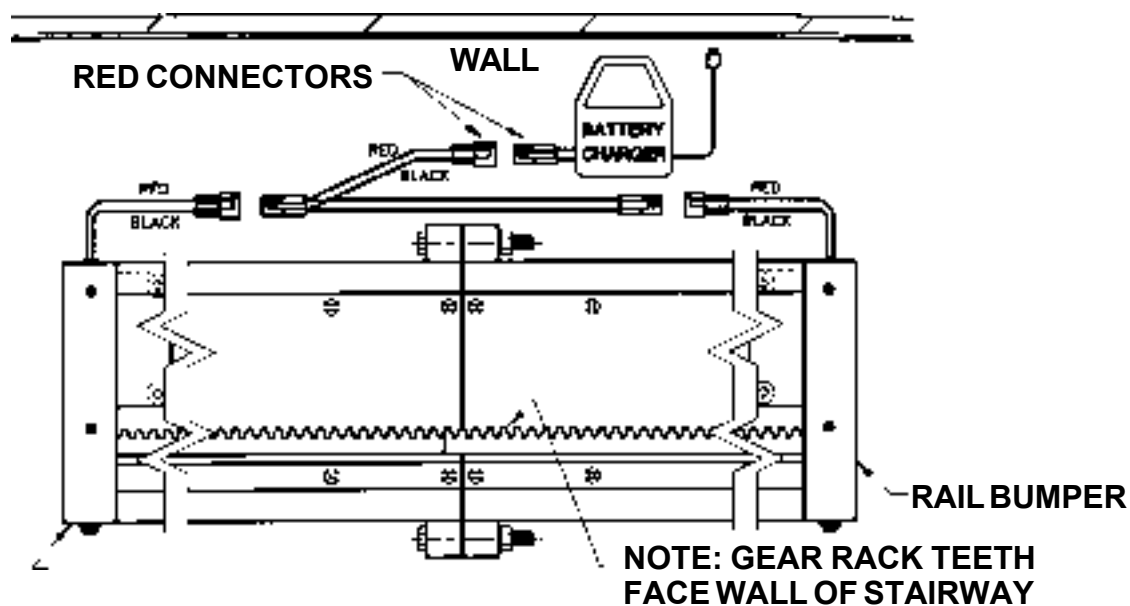
APPLY A LIGHT COATING OF WHITE
LITHIUM GREASE TO THESE SURFACE
LIGHT ().



CHARGER/RAIL LEAD APPLICATION

- [] Position the Charger in a suitable permanent location.
- [] Install the wiring harness on the Elevator Rail and connect to the Charger as shown.

FIGURE 16

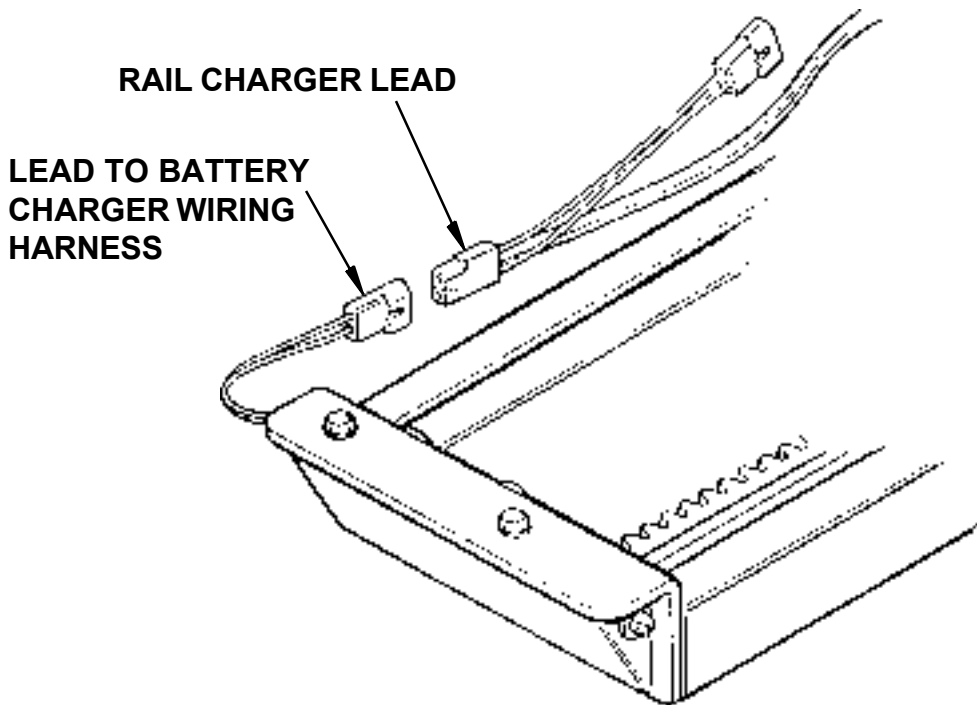


INSTALLATION

ROUTING WIRE HARNESSSES

- [] Make the connections to the Charger Wiring Harness.

FIGURE 17



SUGGESTION:
AFTER ROUTING THE WIRE HARNESS OUT OF SIGHT A SMALL PIECE OF DOUBLE SIDED FOAM TAPE CAN BE APPLIED TO THE HARNESS PLUGS AND ATTACH UNDER THE RAIL.

NOTE:
IF CHARGER PLUG AND WIRE ARE LOCATED IN A VULNERABLE LOCATION, A PLUG LOCK TO PREVENT ACCIDENTAL UNPLUGGING IS RECOMMENDED. THESE ARE AVAILABLE AT HARDWARE AND DEPARTMENT STORES.

- [] Route the Charger Wiring Harness along the back side of the Rail and secure it to the Rail Mounting Clamps with wire ties. Be sure that this wiring is mounted securely so that it is not vulnerable to physical damage.
- [] Coil any excess harness wire and attach to a Rail Clamp (under the rail).

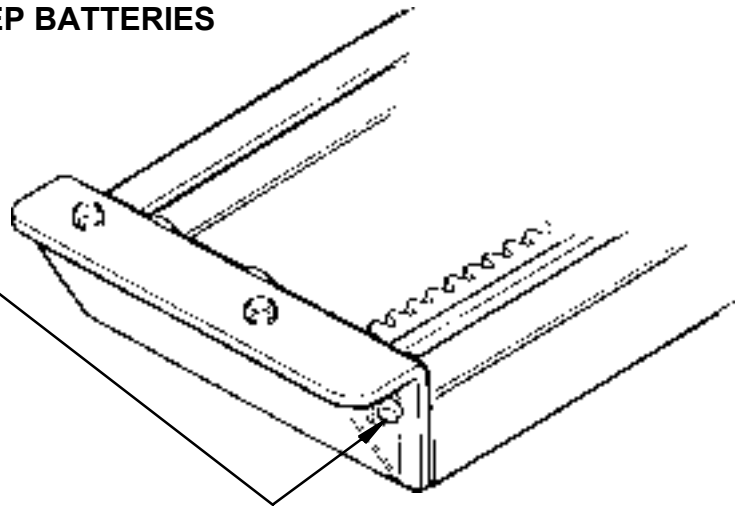
NOTE: THE CHARGER SHOULD BE PLUGGED INTO A HOUSEHOLD OUTLET ALL OF THE TIME. THE ELEVATOR IS DESIGNED SO THAT THE BATTERIES WILL BE CHARGED WHEN THE CARRIAGE IS AT ONE OR THE OTHER END OF THE RAIL. IT IS IMPERATIVE THAT THE CARRIAGE BE "PARKED" AT THE END OF THE RAIL WHEN IT IS NOT IN USE TO MAINTAIN FULL BATTERY CHARGE.

IN AN INSTALLATION WHERE THE CARRIAGE CAN NOT BE PARKED AT THE END OF THE RAIL (STAIRWAYS WITH A DOOR AT THE TOP, FOR EXAMPLE), THE CARRIAGE SHOULD BE RUN TO THE OTHER END OF THE RAIL WITH THE REMOTE CALL/SEND MODULE WHEN NOT IN USE. THIS WILL ENSURE THAT THE BATTERIES WILL REMAIN FULLY CHARGED.

FIGURE 18

ALWAYS "PARK" THE CARRIAGE AT THE UPPER OR LOWER END OF THE RAIL TO KEEP BATTERIES FULLY CHARGED

PILOT LAMP INDICATES "CHARGING CONTACT" AND CORRECT POLARITY. BE SURE CHARGER IS PLUGGED INTO A "LIVE" OUTLET.



MOUNTING THE CALL/SEND MODULES

THE UNITS CAN BE MOUNTED TO A WALL WITH THE ADHESIVE-BACKED VELCRO PROVIDED. *THE CALL SEND MODULE SHOULD BE MOUNTED SO OPERATOR CAN ALWAYS VIEW THE ELEVATOR AND OUT OF REACH OF CHILDREN.*

TESTING THE UNIT

A SLIGHT DELAY WILL OCCUR BETWEEN THE TIME THE ROCKER SWITCH IS DEPRESSED AND THE INITIATION OF CARRIAGE MOVEMENT. THIS IS NORMAL AND IS A FUNCTION OF THE *SOFT START* FEATURE OF THE CONTROLLER.

- [] Run the unit up and down the stairs with the Rocker Switch on the Carriage. The unit should operate in such a way that the Rocker Switch is depressed in the desired direction of travel.

The unit should travel noticeably faster going up than down.

- [] Run the unit up and down the stairs with the Remote Call/Send modules. Test both Modules.
- [] Fold the seat into the stored position and run the unit up and down the stairs with the Remote Call/Send Module.

CALL/SEND CODE

NOTE:
WHILE USING THE REMOTE CALL SEND, SOME INTERMITTENCE MAY BE EXPERIENCED. IT MAY BE A MINOR INCONVENIENCE, BUT IN NO WAY HARMS OR IMPAIRS THE UNIT. YOU SHOULD EXPERIENCE NO INTERRUPTION WHILE USING ROCKER SWITCH.

NOTE:
RADIO INTERFERENCE CAN OCCUR IF MORE THAN ONE RADIO CONTROL (OR OTHER RADIO DEVICE) IS OPERATING ON THE SAME FREQUENCY. THIS COULD CAUSE THE SRE-1550 CALL / SEND FUNCTION TO NOT WORK PROPERLY. FOR BEST PERFORMANCE, MAINTAIN A DISTANCE FROM RADIO CONTROL DEVICES ON THE SAME FREQUENCY. RADIO INTERFERENCE CAN ALSO OCCUR NEAR HIGH VOLTAGE ELECTRICAL WIRES, REINFORCED CONCRETE BUILDINGS OR CB RADIOS.

INTERFERENCE MAY BE LESSENED OR ELIMINATED BY SETTING THE INTERCONNECT BOARD DELAY FROM 600ms TO 900ms. THIS IS EASILY DONE BY MOVING SWITCH #1 TO POSITION 2

NOTE:
CALL SENDS ARE SHIPPED WITH THE BATTERIES REMOVED.

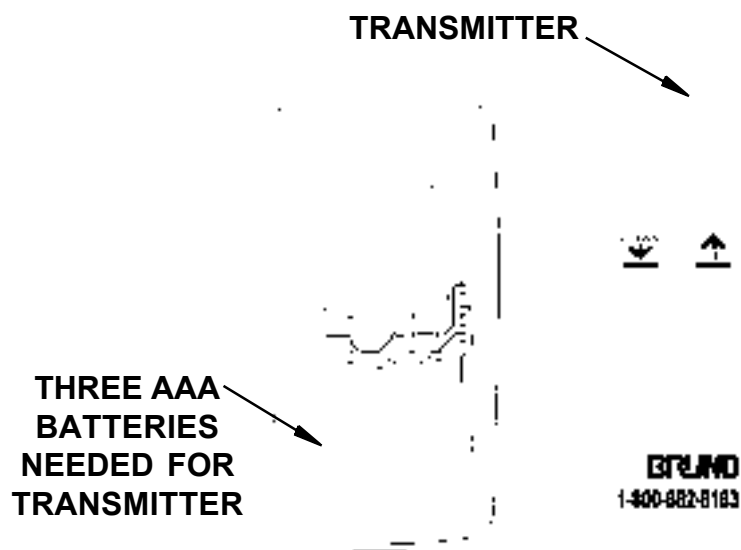
LEARN TRANSMITTER TO RECEIVER

- [1] Your unit comes with 2 remote controls learned.
- [2] Should you need to add a remote or replace a remote follow these instructions.
- [3] Locate Learn/Erase LED and switch (S4).
- [4] While holding down Learn/Erase switch with LED on, press remote control switch (up or down) until LED goes out. This remote is now `learned'. Repeat this process with all other remote controls, you may `learn' up to 4 transmitters per unit.
- [5] When a replacement transmitter is needed, the memory must be cleared and all transmitters must be `relearned'.

HOW TO CLEAR MEMORY

- [] To clear memory hold down Learn/Erase switch S4 until LED goes out (approximately 12 seconds)
- [] Learn new transmitter(s) to receiver.

TRANSMITTER BATTERY REPLACEMENT

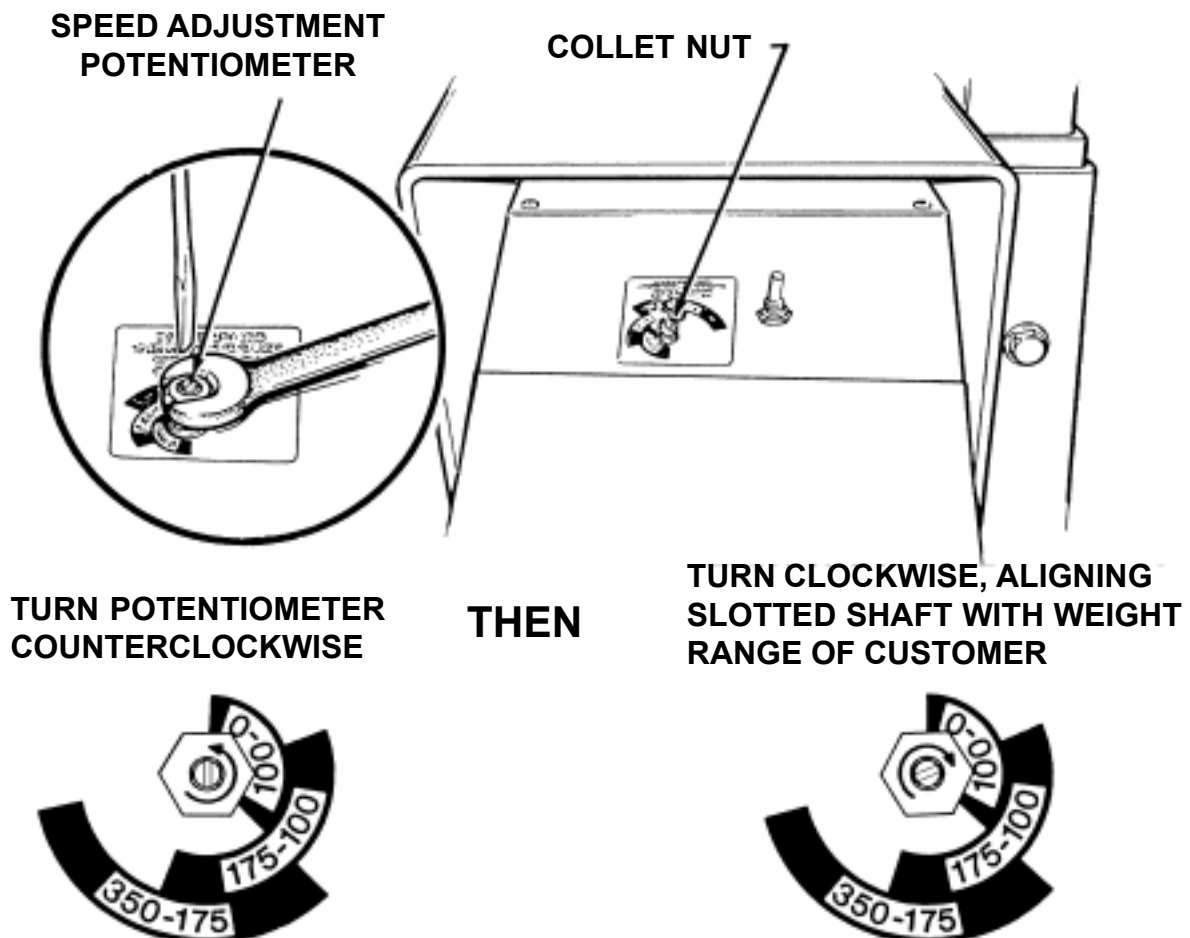


LOOSEN 4 PHILLIPS SCREWS THEN REMOVE BACK OF TRANSMITTER FOR BATTERY REPLACEMENT

A provision for adjusting speed is one of the unique features of the SRE-1550 Stairway Elevator. The Speed Adjustment Potentiometer is located on the top of the Carriage and can be adjusted by following this procedure:

- [] Loosen the Collet Nut on the Speed Control Potentiometer approximately one-half turn.
- [] Turn the Potentiometer all the way counterclockwise this is the starting point. Turn the Potentiometer clockwise aligning the slotted shaft with the weight range of the user.
- [] The speed may be adjusted by turning the slotted shaft on the Potentiometer (clockwise = faster, counterclockwise = slower). With the customer on the unit make several test runs to arrive at the most appropriate speed setting.
- [] When the speed has been set satisfactorily, retighten the collet nut. (Recheck speed)

FIGURE 20



SEAT LATCH AND ARM LOCK

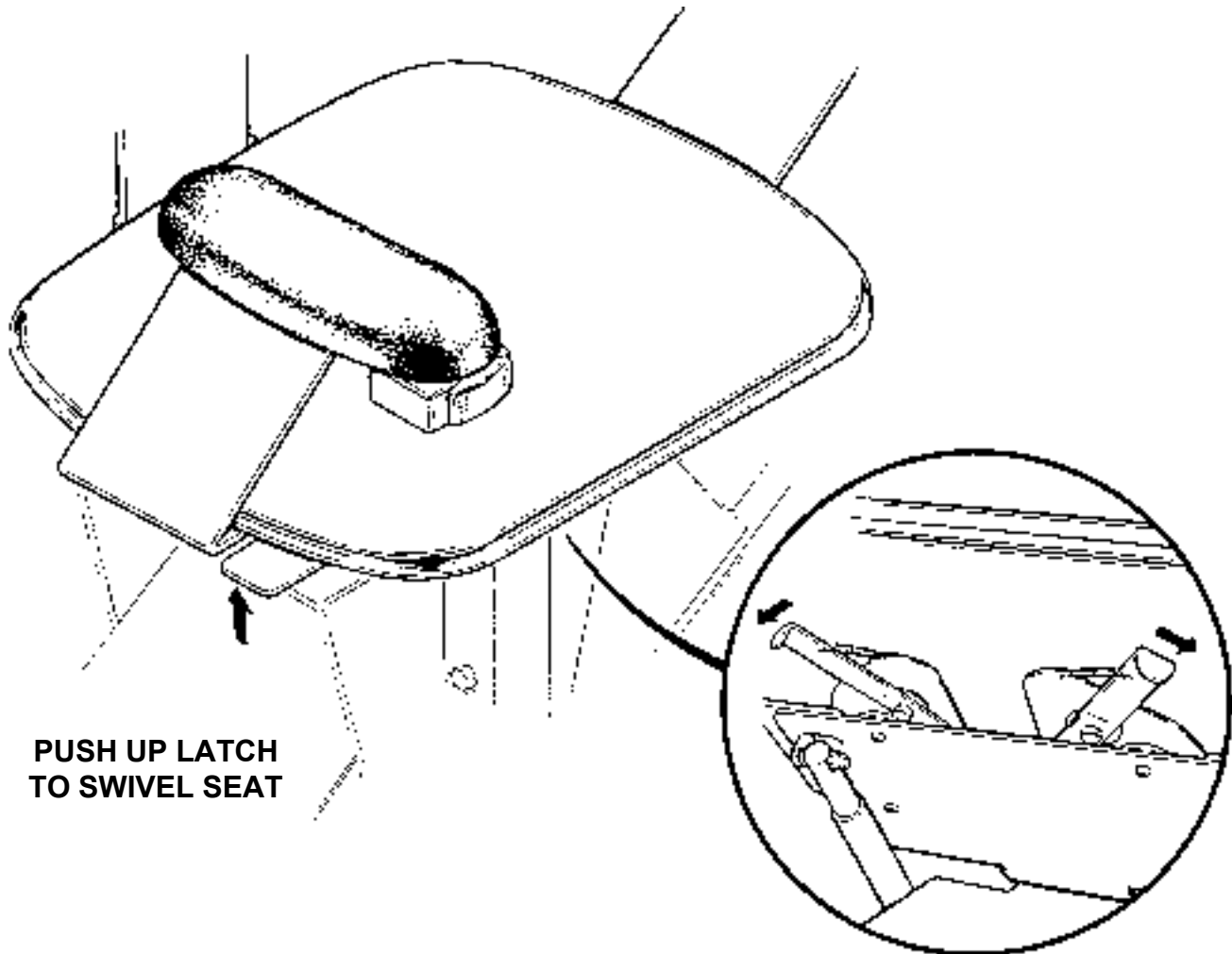
SEAT LATCH

Fold the seat up when not in use, the seat latch will automatically keep the seat folded until ready to use. To use the elevator, the rider can push down the seat, or push down on the arm rest to unfold the seat for easy transfer. There is a swivel latch directly under the seat which will rotate the seat every 45 degrees. To disengage the latch lift up on the lever either on the right or left front edge of the seat. To lock the seat in place release the lever.

ARM RELEASE

Push the arm lock lever to rotate the arm up to 90 degrees for easy transfer. The arm then can be rotated back to its original position, the arm is locked in place when the latch engages automatically.

FIGURE 21



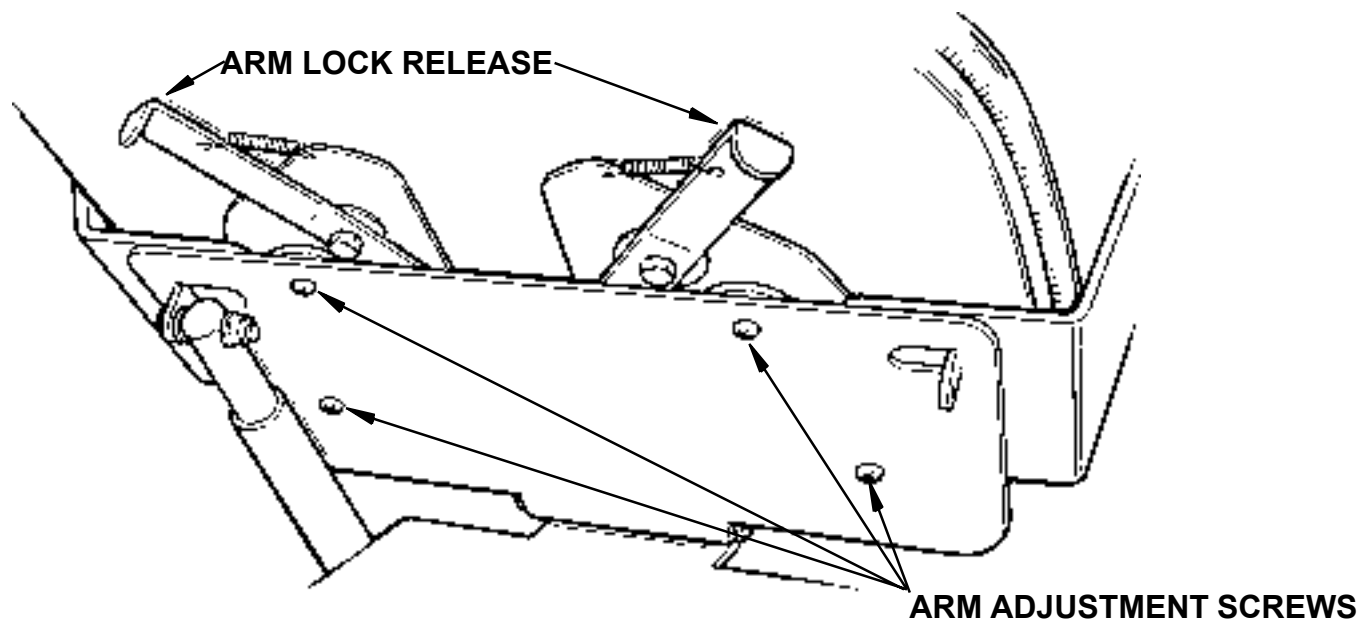
SEAT WIDTH ADJUSTMENT

The seat is set at its narrowest position. To adjust the seat at a wider setting, loosen the phillips head screws on the bottom of the seat shown in the illustration. Rotate arm out to desired position. Secure screws and repeat process on other side.

NOTE:

IF THE ARMS NEED TO BE EXTENDED TO THE WIDEST POINT, THE DISTANCE THE RAIL SHOULD BE INSTALLED NEAR THE WALL WILL NEED TO BE ADJUSTED TO COMPENSATE FOR ROTATING OF THE WIDER SEAT.

FIGURE 22



FUSE AND CIRCUIT BREAKER

CIRCUIT BREAKER

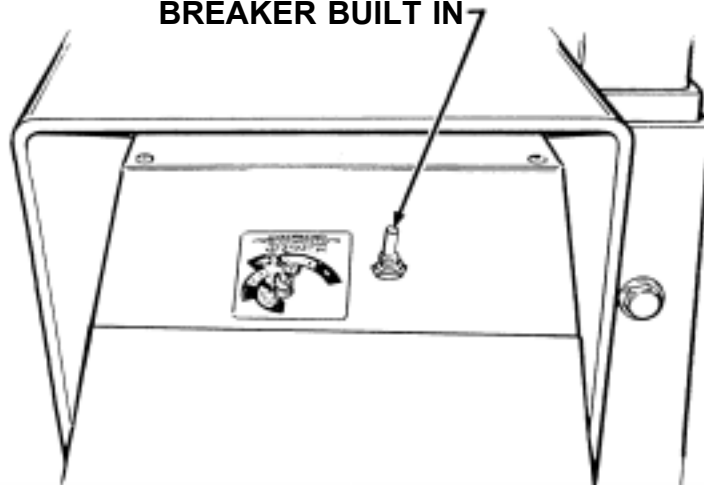
A Circuit Breaker is built into the on/off switch and is provided to protect the Battery / Controller / Motor circuits in the Elevator Carriage. It is unlikely that this Circuit Breaker will ever “trip” in normal use, but if the Elevator should fail to operate, check the Circuit Breaker and reset it if necessary. If the Circuit Breaker should trip, determine the cause and correct the situation.

The most likely cause of a tripped Circuit Breaker would be a foreign object jamming the Rail or Gear Rack or overloading the elevator by exceeding its rated load capacity.

A Fuse has been provided to protect the Battery Charging circuit and the Call / Send electronics. The Elevator is shipped with this Fuse installed.

FIGURE 23

ON/OFF SWITCH WITH CIRCUIT BREAKER BUILT IN



TO REPLACE A "BLOWN" FUSE:

- [] Turn "OFF" the unit using the "ON" / "OFF" switch on the back of the unit.
- [] Disconnect the Battery Charger from the Rail Charge Lead.
- [] Remove carriage cover.
- [] Determine and repair any short circuit which may have caused the fuse to blow.

TO REPLACE A "BLOWN" FUSE (CONTINUED)

- [] Use a fuse puller to remove the "old" fuse from PC Board Spring Clips (be careful to avoid breaking the glass).
- [] Replace the fuse using only a 5 ampere AGC or SFE type fuse. (See figure 13 on page 15)
- [] Turn the Power Switch to "ON".
- [] Replace the Carriage Cover.
- [] Reconnect the Battery Charger Leads.
- [] Test the unit for proper operation.

WHEN THE INSTALLATION IS COMPLETE, TEST THE UNIT FOR CORRECT OPERATION OF CALL/SEND, 'ON/OFF' SWITCH, FOOTREST, SAFETY SWITCHES, CARRIAGE LIMIT SWITCHES AND SEAT SAFETY SWITCH.

TRAIN THE CUSTOMER TO USE THE STAIRWAY ELEVATOR CORRECTLY AND SAFELY. BE SURE TO HAVE THEM OPERATE THE UNIT WHILE YOU ARE THERE TO ANSWER ANY QUESTIONS OR CONCERNS.

***NOTE:
IF A THE GREEN LIGHT IS FLASHING ON THE CHARGER IT IS DUE A PROBLEM WITH THE BATTERY. IF THE BATTERY HAS NOT REACHED THE END OF THE FIRST STAGE OF THE OPERATION WITHIN 18 HOURS, THE CHARGER MAY DETERMINE THAT A PROBLEM EXISTS WITHIN THE BATTERY OR THE BATTERY IS TOO BIG FOR THE CHARGER'S OUTPUT RATING.**

BATTERY CHARGER

BATTERY CHARGER SEQUENCE IS AS FOLLOWS:

RED LED 'ON' = AC Power on (power cord plugged in)

YELLOW CONTINUOUS LED = Batteries charging

FLASHING YELLOW LED = Batteries are 80% charged

GREEN CONTINUOUS LED = Batteries in "charge completing" mode (or float / standby condition)

BATTERY CHARGER FUSE REPLACEMENT:

If the charger is subject to a power line surge, the AC input fuse may 'BLOW' This fuse is located beneath the power cord from the wall outlet to prevent shock hazard, to replace fuse:

- 1) Remove Power Cord from wall outlet and charger socket.
- 2) Pull out on the fuse access panel.
- 3) Remove fuse.
- 4) Replace with the same size and type: (BUSS # GMC 4) 5 x 20mm-4AMP/125V-TIME LAG

VACATION / LONG TERM STORAGE

If the elevator will not be in use for an extended period of time the unit should be moved 2"-3" away from the lower Charge contacts and the red circuit breaker should be turned off. After the elevator is in this position, the charger should be unplugged from the wall outlet.

DO NOT unplug the charger from the wall outlet unless the circuit breaker has been turned off. This will result in battery discharge or premature battery failure.

TURNING THE UNIT ON

[] To turn the unit back on , turn the circuit breaker on, plug the charger back into the wall outlet.

NOTE: The batteries may need to be recharged before normal use if the elevator was in the `off ' position for an extended period of time. To do so , simply move the unit to the LOWER charge contacts, and re-connect the charger to the wall outlet (circuit breaker `on').



M4 NYLON INSERT
LOCK NUT



M6 NYLON INSERT
LOCK NUT



M8 NYLON INSERT
LOCK NUT



M10 NYLON INSERT
LOCK NUT



M3 HEX NUT
(PLATED)



M6 HEX NUT
(PLATED)



M8 HEX NUT
(PLATED)



M10 HEX NUT
(PLATED)



M12 HEX NUT
(PLATED)



M14 HEX NUT

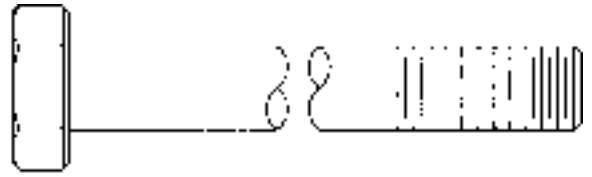
HARDWARE IDENTIFIER



M6 x 16mm



M12 x 220mm



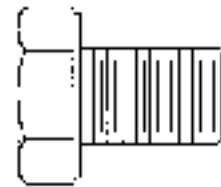
M8 x 20mm



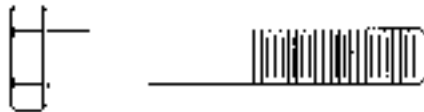
M8 x 45mm



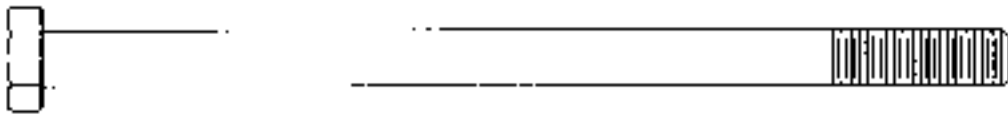
M14 x 20mm



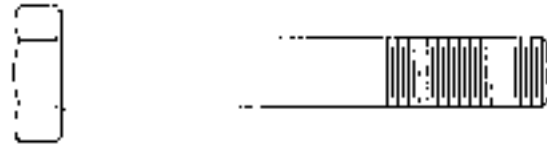
M8 x 55mm



M8 x 140mm



M10 x 70mm



M10 x 130mm





M6 x 1 x 20mm LG
FLAT SOCKET HD CAP SCREW



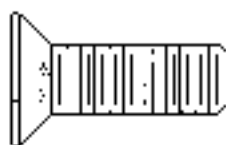
M5 X .8 X 16MM LG
HEX WASHLR HEAD
MACHINE SCREW



M10 x 1.5 x 20mm LG
FLAT SOCKET HD CAP SCREW



1/4-20 x .75" LG
PHILLIPS TRUSS HD
MACHINE SCREW



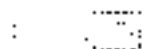
M10 x 1.5 x 30mm LG
FLAT SOCKET HD CAP SCREW



M2.5 x 45 x 16mm LG
PHILL PAN HD MACHINE SCREW



#8 x 3/4" PHILLIPS SHEET METAL
METAL SCREW (ZINC PLATED)



M8 X 15MM X 10MM LG SET SCREW



M6.3 x 50mm SLOTTED
HEX HD SHEET METAL SCREW

HARDWARE IDENTIFIER



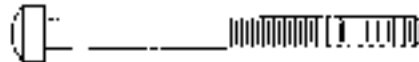
M3 x 25mm PFHMS



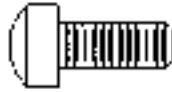
M4 x 15mm PFHMS



M4 x 30mm PFHMS



M4 x 50mm PFHMS



M6 x 15mm PFHMS



M6 x 20mm PFHMS



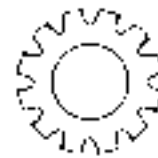
M6 x 25mm PFHMS



M3 EXT.
TOOTH LOCK WASHER



M8 EXT. TOOTH
LOCK WASHER



M10 EXT.
TOOTH LOCK WASHER



M12 INTERNAL TOOTH
LOCK WASHER

M14 SAFETY LOCK WASHER,
BOSSARD BN 1938



UNIT FAILS TO OPERATE

CHECK FUSE, REPLACE IF NECESSARY.

CHECK CIRCUIT BREAKER, RESET IF NECESSARY.

CHECK BATTERY CONNECTIONS.

CHECK FOOTREST SAFETY SWITCHES TO SEE IF ONE OF THESE LIMIT SWITCHES IS DEPRESSED. SLIDING SAFETY TRAY BELOW FOOTREST SHOULD SLIDE FREELY AND SHOULD NOT STICK IN A POSITION WHICH WOULD DEPRESS ONE OF THE SAFETY SWITCHES.

CHECK FOR DISCHARGED BATTERIES. BATTERY VOLTAGE SHOULD BE IN A RANGE OF 16-28 VDC.

UNIT OPERATES SLOWLY, LACKS POWER

CHECK FOR DISCHARGED BATTERIES.

CHECK SETTING OF SPEED CONTROL POTENTIOMETER.

CHECK FOR LOOSE CONNECTIONS.

CHECK TO MAKE SURE CHARGER IS PLUGGED IN AND WORKING.

CONTROLS OPERATE BACKWARDS AND UNIT GOES "UP" SLOWLY AND "DOWN" FASTER

UNIT IS NOT SET UP FOR CORRECT STAIR SIDE OPERATION. MAKE CORRECT CONNECTIONS ACCORDING TO INSTRUCTIONS IN THE INSTALLATION MANUAL.

NOTE: REFER TO PAGE 15 "REVERSING OPERATIONS".

TROUBLESHOOTING

**UNIT OPERATES
ERRATICALLY OR
INTERMITTENTLY
WITH REMOTE
CALL/SEND**

RADIO INTERFERENCE CAN OCCUR IF MORE THAN ONE RADIO CONTROL (OR OTHER RADIO DEVICE) IS OPERATING ON THE SAME FREQUENCY, CAUSING THE SRE-1550 CALL / SEND FUNCTION TO NOT WORK PROPERLY. FOR BEST PERFORMANCE, MAINTAIN A DISTANCE FROM RADIO CONTROL DEVICES ON THE SAME FREQUENCY. RADIO INTERFERENCE CAN ALSO OCCUR NEAR HIGH VOLTAGE ELECTRICAL WIRES, REINFORCED CONCRETE BUILDINGS OR CB RADIOS. EXPERIMENT WITH REPOSITIONING THE ANTENNA FOR THE CALL / SEND RECEIVER ON THE CARRIAGE.

- Change delay setting on the receiver board to the 900 msec. setting
- Reorient or relocate receiving antenna.
- Increase separation between antenna and the back of the carriage.
- Consult your dealer, an experienced technician or call our Technical Service Department at 1-800-882-8768.

**UNIT OPERATES
ERRATICALLY OR
INTERMITTENTLY
WITH A RIDER USING
THE ARMREST
MOUNTED CONTROL
SWITCH**

CHECK TO SEE THAT THE FOOTREST SAFETY TRAY IS NOT DRAGGING ON THE STAIR NOSING OR HITTING DEBRIS ON THE STAIRS, IF NECESSARY, REPOSITION THE STAIR RAIL MOUNTING BRACKETS TO CORRECT THE PROBLEM.

CHECK THE RAIL FOR DEBRIS THAT MAY BUMP SAFETY SWITCHES (FOOTREST AND CARRIAGE PANELS).

**UNIT WILL NOT
OPERATE UNLESS THE
SEAT IS POSITIONED SO
THAT IT FACES THE
OPEN SIDE OF THE
STAIRS**

THIS IS CORRECT LIFT OPERATION, A SAFETY SWITCH IN THE SEAT SWIVEL PREVENTS THE UNIT FROM OPERATING WITH THE SEAT "OUT OF POSITION".

**UNIT WILL NOT
OPERATE WITH
CALL / SEND
REMOTE**

CHECK BATTERIES IN REMOTE CALL / SEND UNIT.

CHECK CONDITION AND POSITION OF THE CALL / SEND ANTENNA ON THE CARRIAGE.

CHECK FOR LOOSE CONNECTION.

TRANSMITTERS MUST BE 'LEARNED' TO RECEIVER.

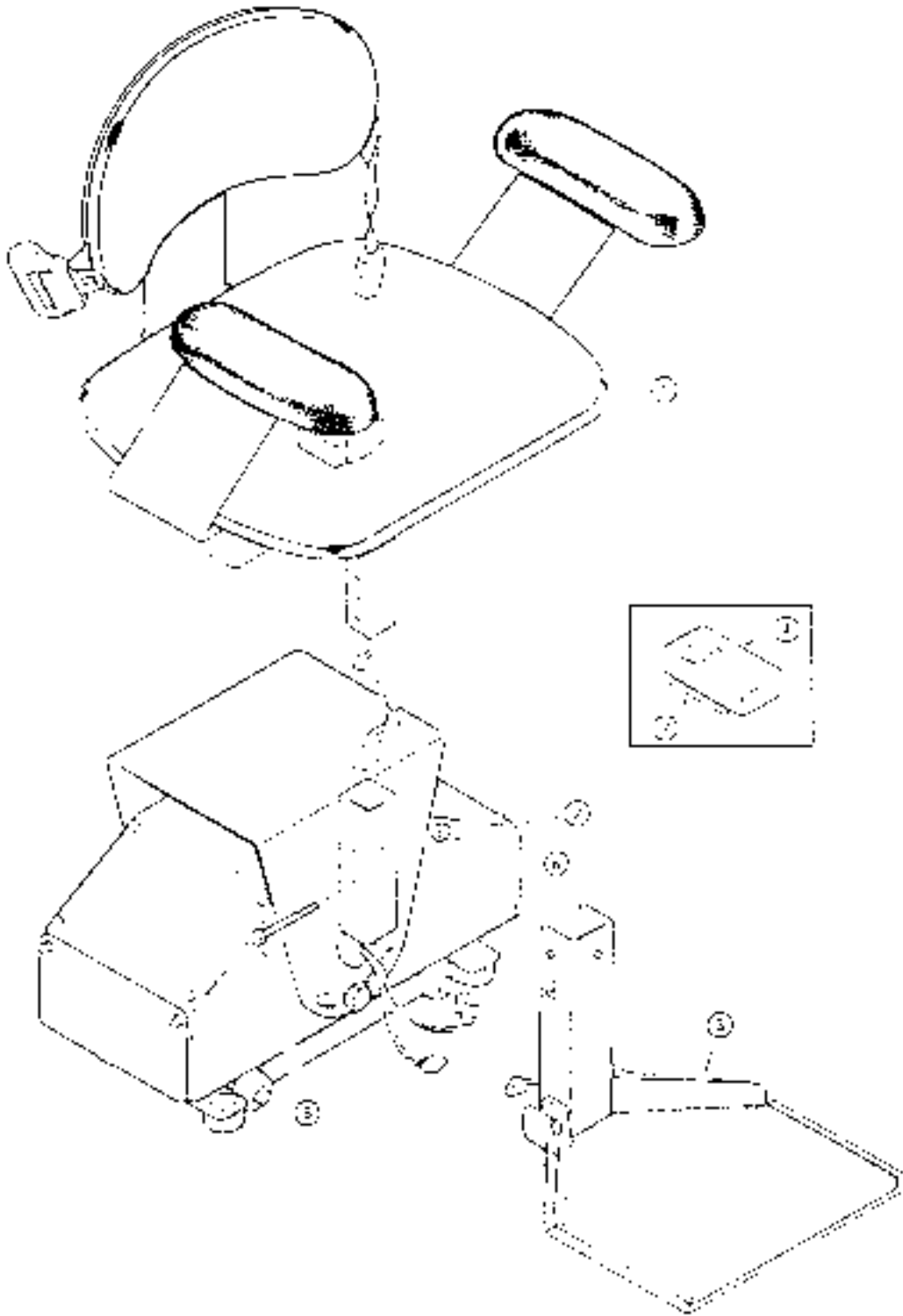
**UNIT DOES NOT SHUT
OFF WHEN IT HITS THE
BUMPER AT THE END
OF THE RAIL**

CONNECTIONS WERE NOT MADE CORRECTLY WHEN CHANGING UNIT FROM LEFT-SIDE TO RIGHT-SIDE OPERATION. CONSULT INSTALLATION MANUAL FOR DIAGRAM OF CORRECT WIRING CONFIGURATION.

CHECK LIMIT SWITCH IN CARRIAGE ASSEMBLY FOR PROPER OPERATION.

EXPLODED VIEW

'ELECTA-RIDE II' ASSEMBLY



'ELECTRA-RIDE II' BILL OF MATERIALS

ITEM	REQD	PART NUMBER	DESCRIPTION
**1	1	SRE-00528*	SEAT ASSEMBLY
**2	1	SRE-00527*	CARRIAGE ASSEMBLY
**3	1	SRE-00529*	FOOTREST ASSEMBLY
4	2	SRE-00055	TRANSMITTER w/DECALS - BRUNO
5	1	MHCS-10002 (SRE-00527*)	M10 X 1.5 X 7Dmm LG HEX HEAD CAP SCREW
6	1	MNSN-10150 (SRE-00527*)	M10 X 1.5 NYLON INSERT LOCK NUT
**7	(2) 2*	V-K-10000 (SEE NOTE)	1" WIDE VELCRO HOOK w/ADHESIVE
		VLP-10000 (SEE NOTE)	1" WIDE VELCRO LOOP w/ADHESIVE

***VELCRO SUPPLIED WITH TRANSMITTERS

SRE-1550

PAGE 1 OF 2

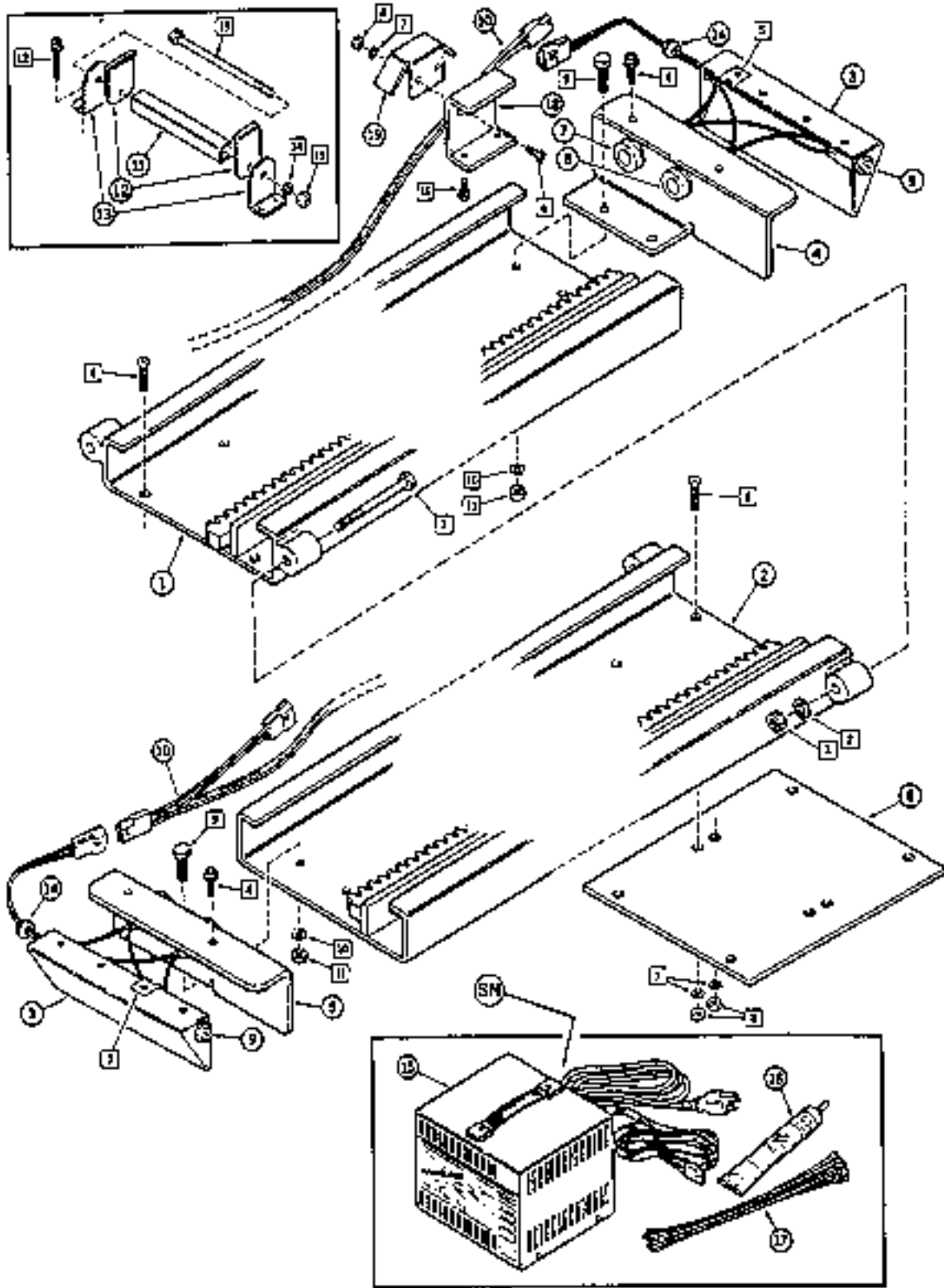
REV. 3 (1515)(8-6-98)(WWB)

**INDICATES CHANGED ITEM(S)

*INDICATES SUB-ASSEMBLY
 *REQUIRES 'D' FOR GRAPHITE GRAY UNITS OR 'A' FOR ALMOND UNITS

EXPLODED VIEW

RECYCLABLE PLASTIC ASSEMBLY



SRE-15
PAGE 2
REV. 2 (ISSUED 9-2)

PARTS LISTING

ELECTRA-RIDE II[®] BILL OF MATERIALS

ITEM	REQD	PART NUMBER	DESCRIPTION
1	1	SRE-0051B* (SRE-K-1558*)	8" UPPER RAIL SECTION
	1	SRE-00524* (SRE-K-1558*)	10" UPPER RAIL SECTION
2	1	SRE-0051B* (SRE-K-1558*)	8" LOWER RAIL SECTION
	1	SRE-00523* (SRE-K-1558*)	10" LOWER RAIL SECTION
3	1	SRE-00429* (SRE-00549*/SRE-00550*)	BUMPER COVER
4	1	SRE-00421R* (SRE-00549*)	RAIL BUMPER (RIGHT HAND)
5	1	SRE-00421L* (SRE-00550*)	RAIL BUMPER (LEFT HAND)
6	1	SRE-00169* (SRE-K-1555*/SRE-K-1558*)	JOINT PLATE
7	1	SRE-00548 (SRE-00549*/SRE-00550*)	RAIL CHARGE BUTTON ASSEMBLY (*)
8	1	SRE-00223 (SRE-00549*/SRE-00550*)	RAIL CHARGE BUTTON ASSEMBLY (-)
9	1	LIT-24001 (SRE-00549*/SRE-00550*)	24V DC LED INDICATOR (1/8" DIA-YELLOW)
10	1	SRE-00221 (SRE-K-1501)	10" RAIL CHARGE LEAD WIRE
	1	SRE-00174 (SRE-K-1521)	20" RAIL CHARGE LEAD WIRE
11	1	SRE-00172* (SRE-00579*)	SPACER TUBE
12	2	SRE-00138* (SRE-00579*)	CLAMP
13	2	SRE-00134* (SRE-00579*)	TALL CLAMP FOOT
14	1	GRR-10001 (SRE-00549*/SRE-00550*)	3/16" ID X 1/2" OD X 5/8" GROOVE DIA RUBBER GROMMET
15	1	SRE-00217	BATTERY CHARGER ASSEMBLY
16	1 (18")	LUB-00102 (SRE-K-1558*)	LUBRIPLATE (#130-4X1.75 OZ. TUBE)
	2 (20")	LUB-00102 (SRE-K-1555*)	
17	10 (16")	WRT-14402 (SRE-K-1558*)	11" LG WIRE T.E. (144" WOTH)
	12 (20")	WRT-14402 (SRE-K-1555*)	
18	1	SRE-00595* (SRE-K-1561*)	FINAL LIMIT SWITCH BRACKET
19	1	SRE-00435* (SRE-K-1561*)	FINAL LIMIT SWITCH RAMP
-	1	SRE-00545* (SRE-K-1555*/SRE-K-1558*)	BUMPER SUB-ASSEMBLY #1
-	1	SRE-00550* (SRE-K-1555*/SRE-K-1558*)	BUMPER SUB-ASSEMBLY #2
-	9 (16")	SRE-00579* (SRE-K-1558*)	TALL CLAMP SET ASSEMBLY
	11 (20")	SRE-00579* (SRE-K-1555*)	
-	1	SRE-K-1501 (SRE-K-1556*)	8" RAIL ELECTRICAL PARTS KIT
-	1	SRE-K-1502* (SRE-K-1555*/SRE-K-1556*)	JOINT PLATE PARTS KIT
-	1	SRE-K-1507 (SRE-K-1555*/SRE-K-1556*)	SHEET METAL SCREWS KIT (38)
-	1	SRE-K-1521 (SRE-K-1555*)	20" RAIL ELECTRICAL PARTS KIT
-	1	SRE-K-1553 (SRE-K-1555*/SRE-K-1558*)	BUMPER ASSEMBLY PARTS KIT
-	1	SRE-K-1555*	20" RAIL KIT
-	1	SRE-K-1556*	16" RAIL KIT
-	1	SRE-K-1561* (SRE-K-1555*/SRE-K-1558*)	FINAL LIMIT SWITCH RAMP ASSEMBLY
HARDWARE			
1	2	MHCS-10002 (SRE-K-1502*)	M10 X 1.5 X 70mm LG HEX HEAD CAP SCREW
2	2	MITW-10001 (SRE-K-1502*)	M10 INTERNAL TOOTH WASHER
3	2	MNPL-10150 (SRE-K-1502*)	M10 X 1.5 HEX NUT (PLATED)
4	2	MHW-05001 (SRE-00549*/SRE-00550*)	M5 X .8 X 16mm LG HEX WASHER HEAD MACHINE SCREW
5	2	MUNT-05001 (SRE-00549*/SRE-00550*)	M5 X .8" U-NUT (BLACK OXIDE)
6	8	MPPM-06001 (SRE-K-1502*)	M6 X 1 X 15mm LG PHILLIPS FLAT HEAD MACHINE SCREW
	2	MPPM-06001 (SRE-K-1561*)	
7	2	METW-06001 (SRE-K-1502*)	M6 EXTERNAL TOOTH WASHER
	2	METW-06001 (SRE-K-1561*)	
8	8	MNPL-06100 (SRE-K-1502*)	M6 X 1" HEX NUT (PLATED)
	2	MNPL-06100 (SRE-K-1561*)	
9	4	MHCS-08002 (SRE-K-1553)	M8 X 1.25 X 20mm HEX HEAD CAP SCREW
10	4	METW-08001 (SRE-K-1553)	M8 EXTERNAL TOOTH WASHER
11	4	MNPL-08125 (SRE-K-1553)	M8 X 1.25 HEX NUT (PLATED)
12	35	MSSM-63001 (SRE-K-1507)	M6 3 X 50mm LG SLOTTED HEX HEAD SHEET METAL SCREW
	8	MSSM-63001 (SRE-K-1555*)	
13	1	MHCS-12001 (SRE-00579*)	M12 X 1.75 X 220mm LG HEX HEAD CAP SCREW
14	1	MITW-12001 (SRE-00579*)	M12 INTERNAL TOOTH WASHER
15	1	MNPL-12175 (SRE-00579*)	M12 X 1.75 HEX NUT (PLATED)
16	2	MHCS-06002 (SRE-K-1561*)	M6 X 1 X 10mm LG HEX HEAD CAP SCREW

SRE-1550

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REV. 2 (ISSUED 9-24-98)

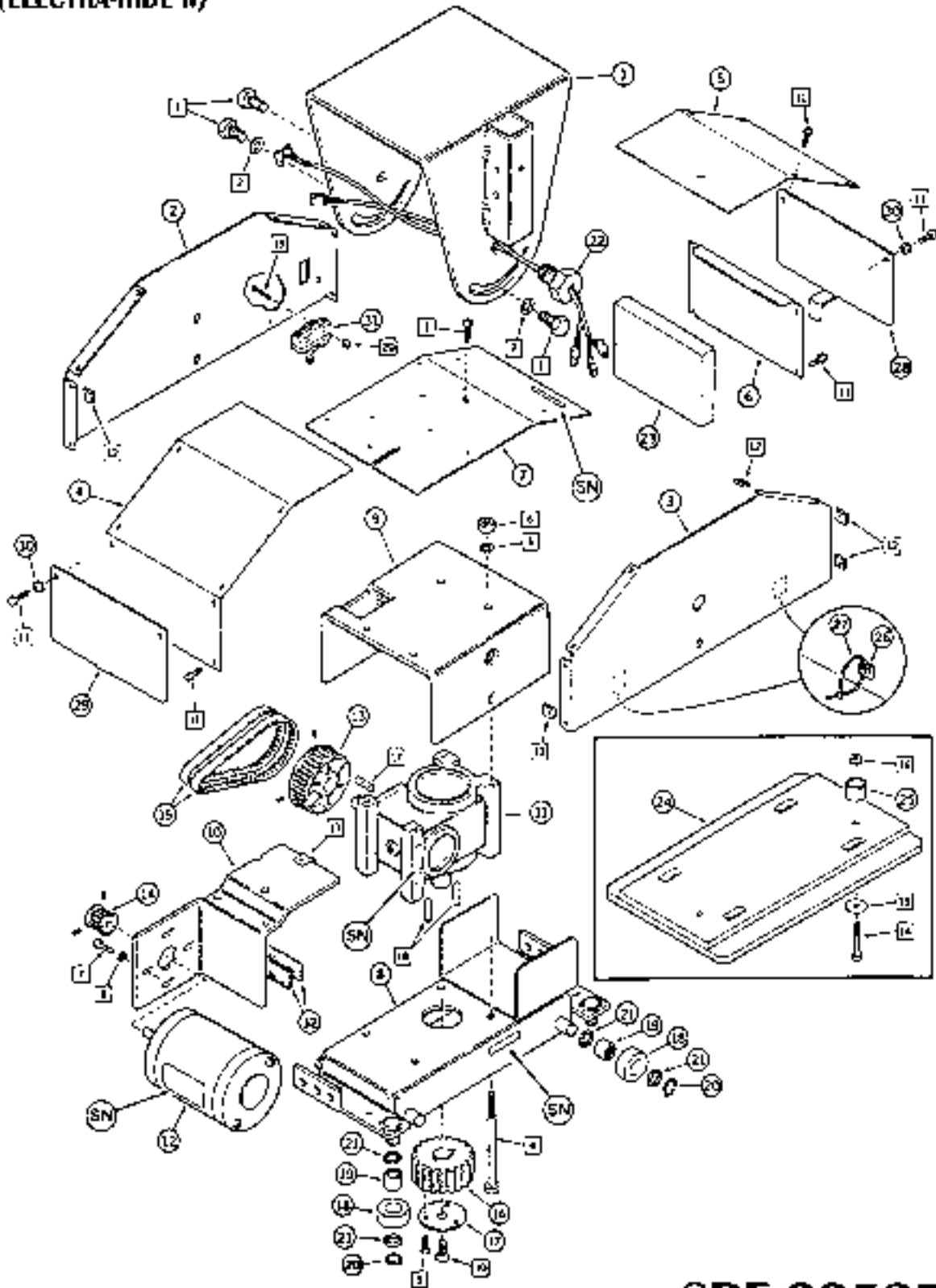
**INDICATES CHANGED ITEM(S)

(*) INDICATES SUB-ASSEMBLY NO

*REQUIRES 'G' FOR GRAPHITE GRAY UNITS OR 'A' FOR ALMOND UNITS

EXPLODED VIEW

CARRIAGE ASSEMBLY (ELECTA-RIDE II)



PAGE 1 OF 2

SRE-00527
REV. 8 (1219)(11-6-97)(RJH)

PARTS LISTING

CARRIAGE ASSEMBLY BILL OF MATERIALS (ELECTRA-RIDE II)

ITEM	REQD	PART NUMBER	DESCRIPTION
1	1	SRE-00450*	ANGLE ADJUSTMENT BRACKET WELDMENT
2	1	SRE-00379*	REAR COVER
3	1	SRE-00416*	FRONT COVER
4	1	SRL-00319*	TOP COVER
5	1	SRE-00504*	UPPER BATTERY ACCESS COVER
6	1	SRE-00505*	LOWER BATTERY ACCESS COVER
7	1	SRE-00600 (SRE-00601)	ELECTRICAL PANEL w/PSM UNITS
8	1	SRE-00449*	CARRIAGE WELDMENT
9	1	SRL-00047*	CARRIAGE BRACKET WELDMENT
10	1	SAC-00377*	MOTOR MOUNT
11	1	SRE-00452	GEARBOX ASSEMBLY
12	1	SRE-00092	MOTOR ASSEMBLY
13	1	TPY-52506	84-5M-25 TIMING PULLEY
14	1	TPY-52501	17-5M-25 TIMING PULLEY
15	2	TR-50904	450-5M-5 TIMING BELT
16	1	SPG-06703	SPUR GEAR
17	1	SRE-00484*	SPUR GEAR END PLATE
18	6	SRE-00431	CARRIAGE WHEEL
19	6	BRG-63003	NUCUL BEARING
20	6	HIR-63001	.63 DIA RETAINING RING
21	12	SNW-63001	NYLON WASHER
22	1	SRE-00032	PIVOT BOLT-PASS THRU HARNESS ASSEMBLY
23	1	STP-00104	.75" X 4" X 6.25" STYROIUM BLOCK
24	1	SRE-00561	SHIPPING FLAT
25	2	SRL-00583	SHIPPING PLATE SPACER
26	2 of 3	WWM-00001	BLACK WIRE TIE MOUNT (SELF-ADHESIVE)
27	2	WRT-14401	6" LG WIRE TIE (.144" WIDE)
28	1	SRE-00551L	LEFT SAFETY PANEL
29	1	SRE-00551R	RIGHT SAFETY PANEL
30	4	GRR-19001	108" ID X 50" OD X 3" 3" GROOVE DIA RUBBER GROMMET
31	1	PCS-00107	FUNCTION SWITCH (SNAP ACTION w/ROLLER FEEL)
32	2	SRL-00611	MOTOR MOUNT STABILIZER
-	1	SRE-00601	ELECTRIC PANEL ASSEMBLY

HARDWARE

1	3	MHC5-14004	M14 X 2.0 X 20mm LG HEX HEAD CAP SCREW
2	2	MSLW-14001	M14 SAFETY LOCK WASHLR
3	1	PSM-08002	#0 X 3/4" PHILLIPS SHEET METAL SCREW
4	4	MHC5-10005	M10 X 1.5 X 130mm LG HEX HEAD CAP SCREW
5	4	MITW-10001	M10 INTERVAL TOOTH LOCK WASHER
6	4	MNP-10150	M10 X 1.5 HEX NUT (PLATED)
7	4	MHC5-06301	M6 X 1.0 X 10mm LG HEX HEAD CAP SCREW
8	4	METW-06001	M6 EXTERNAL TOOTH LOCK WASHER
9	3	MHS-08001	M6 X 1 X 20mm LG FLAT SOCKET HEAD CAP SCREW
10	1	MHS-10001	M10 X 1.5 X 20mm LG FLAT SOCKET HEAD CAP SCREW
11	16	MHW-05001	M5 X .8 X 16mm LG HEX WASHER HEAD CAP SCREW
12	16	MUNT-05001	M5 X .8 "U" NUT
13	1	UNT-08001	#8 "U" NUT
14	2	MCS-01009	5/16-18 X 2.5 LG HEX HEAD CAP SCREW
15	2	FRW-31001	5/16" FENDER WASHER
16	2	KEP-31181	5/16" 8 KEP NUT
17	1	SRE-00182	3/10" SQ. KEY
18	2	SPE-00181	1/4" 50 KEY
19	2	M3M-03001	M3 X .5 X 25mm LG PHILLIPS FILLISTER HEAD MACHINE SCREW
20	2	M3SN-03051	M3 X .5 NYLON INSERT LOCK NUT

SRE-00527

PAGE 1 OF 2

REV. B (1219)(11-8-97)(RJH)

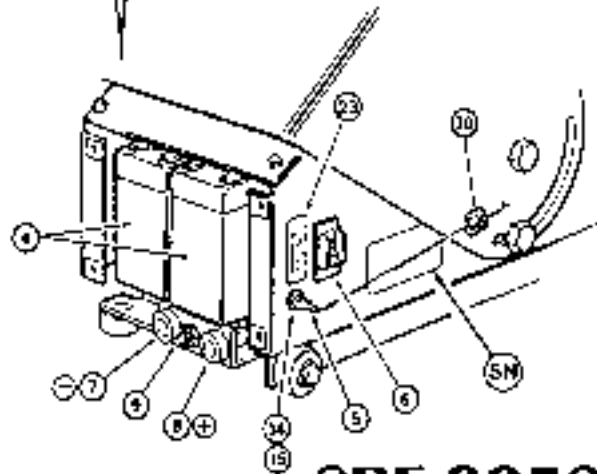
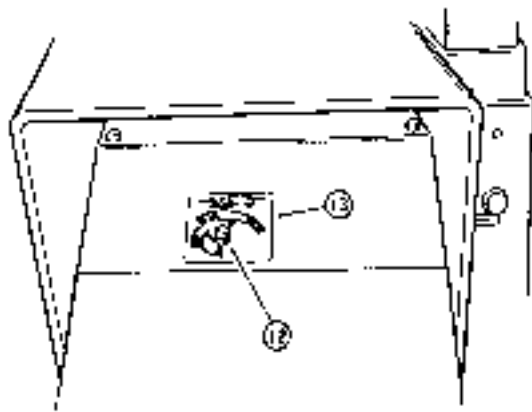
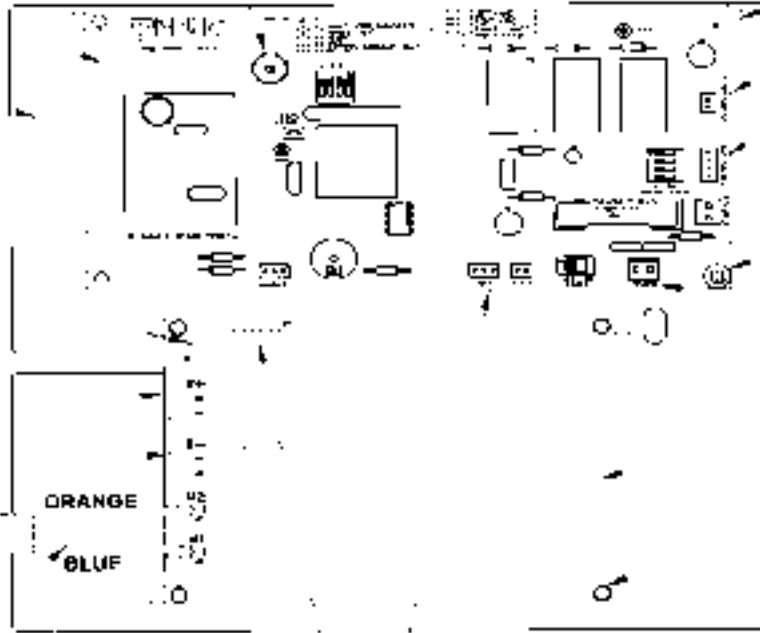
**INDICATES CHANGED ITEM(S)

11 INDICATES SLG ASSEMBLY NO.

*INDICATES CHANGED ITEM(S) FOR ALUMINO UNITS

EXPLODED VIEW

CARRIAGE ASSEMBLY (ELECTA-RIDE II)



SRE-00527

REV. 8 (1515)(8-6-98)(WWB)

PARTS LISTING

CARRIAGE ASSEMBLY BILL OF MATERIALS (ELECTRA-RIDE II)

ITEM	REQD	PART NUMBER	DESCRIPTION
1	1	SRE-00619 (SRE-00618)	ELECTRICAL PANEL ASSEMBLY
2	1	PCB-00047 (SRE-00618)	MOTOR CONTROL PCB BOARD (1513)HIGH RPM)
3	1	PCB-00049 (SRE-00618)	RECEIVER/INTERCONNECT PCB ASSEMBLY
4	2	BTR-12002	12 VDC/6.6 AH BATTERY
5	1	ANT-00102	3.8 MHz WHIP ANTENNA
6	1	CBK-25001	25A CIRCUIT BREAKER (ROCKER)
7	2	SRE-00069	CHARGE CONTACT ASSEMBLY (-)
8	2	SRE-00068	CHARGE CONTACT ASSEMBLY (+)
9	2	PBS-00102	PUSH-BUTTON SWITCH
10	1 of 3	WTM-00001	BLACK WIRE TIE MOUNT (SELF ADHESIVE)
11			
12	1	SRE-00497	SPEED LIMIT POTENTIOMETER HARNESS
13	1	SRE-00248	SPEED LIMIT LABEL
14	1	CCC-00101	COAXIAL CABLE CONNECTOR
15	1	SRE-00103	COAXIAL CABLE ASSEMBLY
16	1	SRE-00011	MOTOR REVERSING HARNESS (1513)
17	1	SHE-00095	BATTERY LEAD (-)
18	1	SHE-00273	POWER HARNESS (PS)
19	1	SHE-00007	CIRCUIT BREAKER HARNESS
20	1	SHE-00090	LIMIT HARNESS
21	1	SHE-00095	CHARGE HARNESS
22	1	SRE-00010	CONTROL HARNESS (1513)
23	1	LBL-00119	SRE CIRCUIT BREAKER LABEL
-	1	SRE-00033	LOWER LIMIT SWITCH HARNESS
-	1	SRE-00034	UPPER LIMIT SWITCH HARNESS
-	1	SRE-00487	BATTERY JUMPER
-	1	SRE-00618	ELECTRIC PANEL ASSEMBLY
-	1	SRE-00605	FINAL LIMIT SWITCH HARNESS #1
-	1	SRE-00606	FINAL LIMIT SWITCH HARNESS #2
-	1	SRE-00508	BATTERY LEAD (+)
-	5	WNT-19501	8" LG WIRE TIE (.195" WOE)
HARDWARE			
1	1	MSFM-04701 (SRE-00618)	M4 X 7 X 12mm LG PHILLIPS PAN HEAD SEMS MACHINE SCREW
2	3	CBH-19001 (SRE-00618)	23" LG CIRCUIT BOARD SUPPORT
3	4	MCBH-06001 (SRE-00618)	METRIC LOCKING CIRCUIT BOARD SUPPORT (6MM H x 4MM x 4.75MM)
4			
5			
6	2	ME*W-04301 (SHE-00610)	M4 EXTERNAL TOOTH WASHER
7	1	ASB-19603 (SRE-00618)	.188" ID X .31" OD X .19" LG ALUMINUM SPACER

SRE-00527

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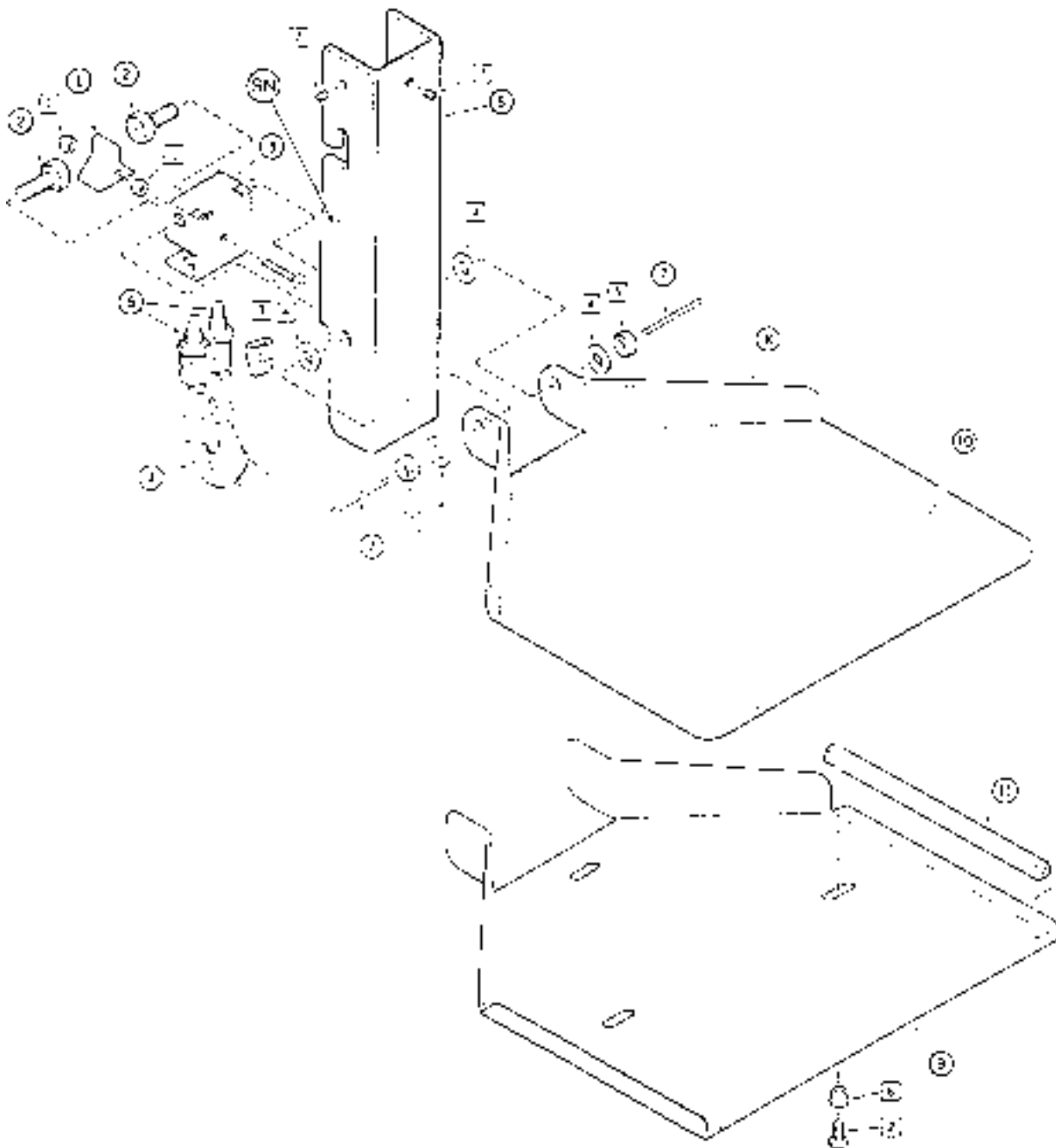
REV. 8 (1515)(8-6-98)(WWB)

*INDICATES CHANGED ITEM(S)

(-) INDICATES SUB-ASSEMBLY NO.

EXPLODED VIEW

FOOTREST ASSEMBLY (ELECTRA-RIDE II)



SRE-00529

REV. 4 (820)(7-22-96)(RJH)

PARTS LISTING

FOOTREST ASSEMBLY BILL OF MATERIALS ('ELECTRA-RIDE II')

ITEM	REQD	PART NUMBER	DESCRIPTION
1	1	SRE-00409	FOOTREST SWITCH ACTUATOR
2	2	SRE-00419	FOOTREST PIVOT BOLT
3	1	SRE-00408*	FOOTREST SWITCH BRACKET
**4	1	SRE-00099	FOOTREST L.M.U. HARNESS
5	2	PRN-00102	PUSH-BUTTON SWITCH
6	1	SRE-00355*	FOOTREST HANDLE
7	2	SRE-00503	FOOTREST SAFETY SWITCH PIN
8	1	SRE-00428*	FOOTREST (111)
9	1	SRE-00410*	FOOTREST SAFETY PAN
10	1	SRE-00514	FOOTREST COVER
11	12 @ 7.5"	G5K-4380P	438" X .406" BLACK FOAM GASKET w/ADHESIVE
HARDWARE			
1	2	M4SN-050R1	M5 X .8 NYLON INSERT LOCK NUT
2	3	MPLM-06000	M6 X 1.0 X 12mm LG PH II PS FILISTER HEAD MACHINE SCREW
3	1	MPLM-05001	M6 X .8 X 25mm LG PH II PS FILISTER HEAD MACHINE SCREW
4	4	SNW-25401	NYLON WASHER (.304" ID X .785" OD X .080" THK) (R. ALK)
5	2	MCLN-10150	M10 X 1.5 HEX CENTER LOCK NUT
6	3	NSW-2540*	.254" DIA NYLON SHOULDER WASHER
**7	2	MSSS-06001	M8 X 1.25 X 10mm LG SET SCREW BR GHT ZINC

*REQD RES 'G' FOR GRAPHITE BRAY UNITS OR 'A' FOR ALUMINO UNITS

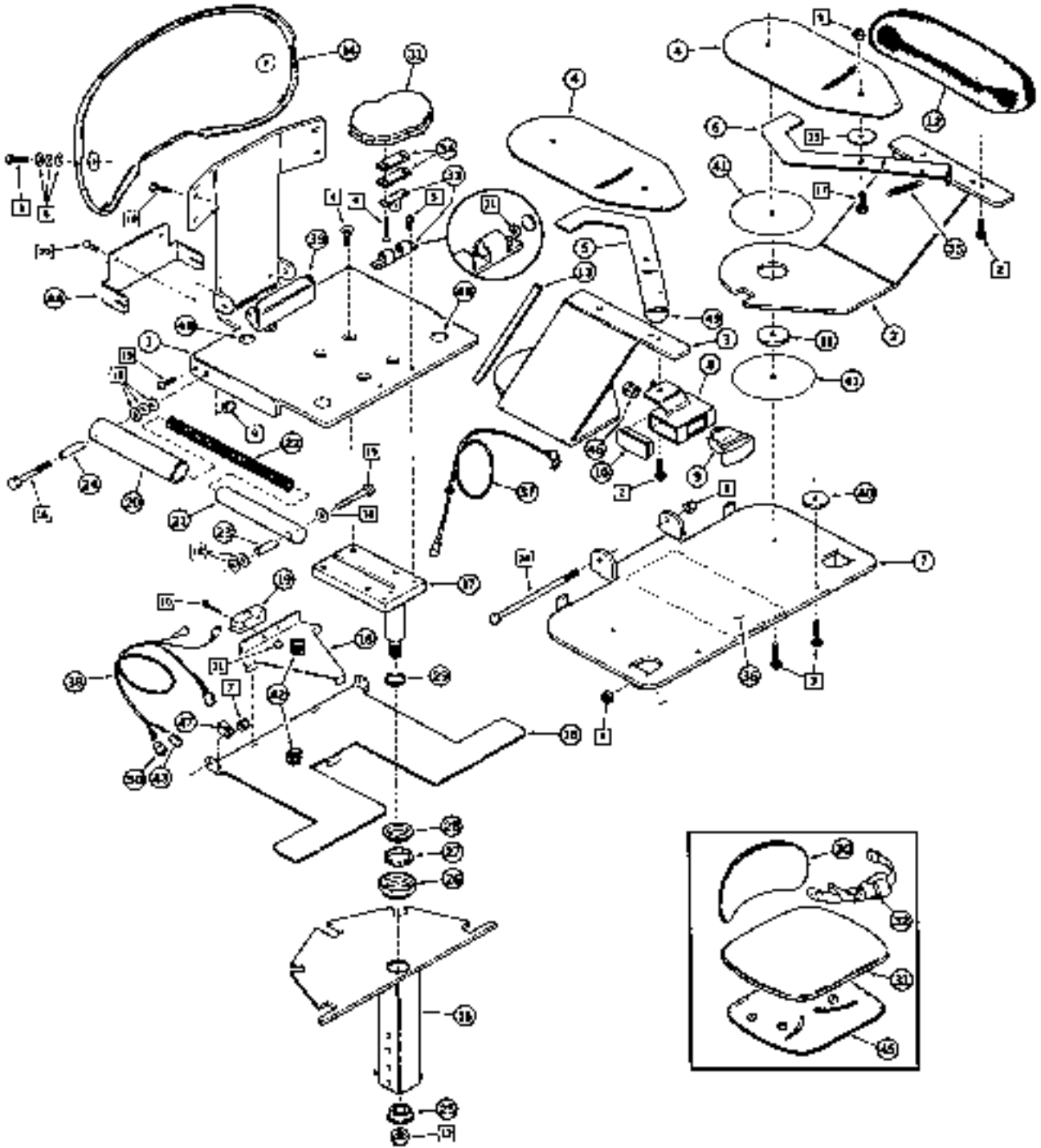
SRE-00529

REV. 4 (820)(7-22-96)(RJH)

**INDICATES CHANGED ITEM(S)

EXPLODED VIEW

SEAT ASSEMBLY (ELECTA-RIDE II)



SRE-00528
REV. 8 (1486)(7-20-98)(RJH)

PARTS LISTING

SEAT ASSEMBLY BILL OF MATERIALS

(ELECTRA-RIDE II)

ITEM	REQD	PART NUMBER	DESCRIPTION
1	1	SRE-00313*	SEAT FRAME
2	1	SRE-00401L*	ARMREST (LEFT HAND)
3	1	SRE-00401R*	ARMREST (RIGHT HAND)
4	2	SRE-00425*	ARM LOCK ADJUSTMENT PLATE
5	1	SRE-00425R*	ARM LOCK (RIGHT HAND)
6	1	SRE-00425L*	ARM LOCK (LEFT HAND)
7	1	SRI-00375*	SLAT BASE PLATE
8	1	SRI-00377 (SRI-00384)	SWITCH HOUSING W/ LAMP #1
9	1	MSW-00034 (SRI-00384)	ROCKER SWITCH
10	2	CHN-00201 (SRE-00425)	1" X 2" RECTANGULAR CAP/PLUG
11	2	SRE-00422	SEAT SHIM (REAR)
12	2	SRE-00423	MOLDED ARM PAD
13	672*	TRM-19000	3"X12" BLACK TRIM
14	1	SRE-00445	HACKNUT REAR COMPRESSION SPRING
15	1	SRI-00448 (SRI-00374)	SEAT ADJUSTMENT LAMP W/ LAMP #1
16	1	SRI-00481*	LATCH PLATE WELDMENT
17	1	SRE-00480*	SWIVEL SHAFT WELDMENT
18	1	SRE-00434*	SWIVEL SWITCH BRACKET
19	1	PBS-00101	PUSH-BUTTON SWITCH
20	1	SRE-00471	OUTER SPRING HOUSING
21	1	SRE-00472	INNER SPRING HOUSING
22	1	SPR-00026	SEAT HOLD-UP COMPRESSION SPRING
23	1	SRI-00475	INNER SPRING HOUSING MOUNTING SPACER
24	1	SRI-00476	INNER SPRING HOUSING MOUNTING SPACER
25	1	HRX-00001	1/2" FLANGE SMALL BEARING
26	1	HRX-00001 (SRI-00024)	BEARING CLIP
27	1	BHS-00105	BEARING
28	1	BHS-00107	HEAD STATIONARY COBE
29	1	TLR-10001	1" CO TOLERANCE RING
30	1	SRE-00535	SEAT BACK ASSEMBLY
31	1	SRE-00536	SEAT CUSHION ASSEMBLY
32	1	PLT-00026	RETRACTABLE LATCH LIT
33	1	SRI-00563	LATCH, THREE-WAY FUNCTION
34	112	SRI-00562	LATCH SHIM
35	2	SRI-00018	SEAT HOUSING DAMPER REAR SPRING
36	1	SRI-00109	SIGNALING LABEL
37	1	SRE-00490 (SRE-00384)	CONTROL HARNESS
38	1	SRE-00307	SEAT INTERCONNECT HARNESS
39	1	SRE-00547	SEAT STOP
40	2	SRE-00556	SEAT SHIM (FRONT)
41	4	SRE-00557	ARM GLIDE
42	2	SPR-00030	SEAT LATCH SWAY PLATE COMPRESSION SPRING
43	1	MEC-00124	3" CIRCULIT (MALLEABLE) CHROME PLATE HOUSING
44	1	SRI-00584	SWIVEL SWITCH LOWER
45	1	SRI-00482	SLAT CUSHION BASE COVER
46	1	BCD-00002 (SRE-00384)	3/8" SNAP BUSHING
47	1	COL-00501	3/8" COBEE CLAMP
48	4	Y-001-114	BOLT COVER
49	2	GRV-19005	1" RED VINYL GRIP (125" X 65" LSI)
50	1	MEC-00123	3" CIRCULIT (MALLEABLE) CHROME PLATE HOUSING
-	-	SRI-00374*	SEAT ADJUSTMENT LAMP W/ LAMP #1 WITH BEARING CLIP
-	-	SRI-00384*	SWITCH HOUSING ASSEMBLY
HARDWARE			
1	2	WHM-08003	M6 X 1.0 X 25mm LG PHILIPS FLUSTRIB HEAD MACHINE SCREW
2	4	TH-25001	1" H-25001
3	4	WLM-08007	M6 X 1.0 X 40mm LG PHILIPS FLUSTRIB HEAD MACHINE SCREW
4	4	WF-S-19007	M10 X 1.5 X 20mm LG FLAT HEAD SOCKET CAP SCREW
5	2	M-WH-05007	M5 X 0.8 X 16mm LG HEX WASHER HEAD CAP SCREW
6	2	DWS-00102	M6 X 1.0 X 25" LG DRYWALL SCREW
7	2	MNSN-08100	M6 X 1.0 X 10mm NYLON INSERT LOCK NUT
8	6	LSW-25001	1/2" FLAT WASHER
9	6	MNSN-08125	M6 X 1.25 NYLON INSERT LOCK NUT
10	2	WFLM-08001	M3 X 0.5 X 25mm LG PHILIPS FULL STAR HEAD MACHINE SCREW
11	2	MNSN-08051	M3 X 0.5 NYLON INSERT LOCK NUT
12	1	JNT-30132	1/2-19 NYLON INSERT JAM NUT
13	2	FRW-31001	5/16" FENDER WASHER
14	1	M-05-00503	M6 X 1.25 X 16mm LG HEX HEAD CAP SCREW
15	1	M-05-00504	M6 X 1.25 X 40mm LG HEX HEAD CAP SCREW
16	1	M-05-00505	M6 X 1.25 X 50mm LG HEX HEAD CAP SCREW
17	2	M-05-00507	M6 X 1.25 X 70mm LG HEX HEAD CAP SCREW
18	6	SNW-28401	NYLON WASHER (28410 X 1/2" H X 1/2" CIRC DIA)
19	6	WHM-08001	M6 X 1.0 X 25mm LG PHILIPS FLUSTRIB HEAD MACHINE SCREW
20	2	WHF-08001	M6 X 1.0 X 20mm LG FLAT HEAD SOCKET CAP SCREW
21	2	ABW-13001	1/2" X 3/8" ALUMINUM BACK-UP WASHER

SRE-00528

Rev. 8 (1486)(7-20-98)(RJH)

*INDICATES CHANGED ITEM(S)

() INDICATES S.I.R. ASSEMBLY NO

*REQUIRES 'G' FOR GRAPHITE GRAY UNITS OR 'A' FOR ALUMINUM UNITS

OVERSPEED ADJUSTMENT FOR COMMERCIAL UNITS

NOTE:
INSTALLATION OF
CALL/SEND MAY VARY
BY LOCAL CODE.
PLEASE REFER TO
LOCAL CODES FOR
INSTALLATION GUIDE-
LINES.

THE SEAT KEY SWITCH
AND ROCKER SWITCH
ARE LOCATED UNDER
THE RIGHT ARM PAD.
(ON YOUR RIGHT AS
YOU ARE SITTING IN
THE SEAT.) SHOULD
THE INSTALLATION
REQUIRE A LEFT HAND
INSTALLATION FOL-
LOW THE INSTRUCTIONS
FOR REVERSING
OPERATIONS ON PAGE
15.

ADJUST OVERSPEED FOR COMMERCIAL UNITS ONLY

- [] Before installing the carriage the overspeed cam must be adjusted to line up with the overspeed housing.
- [] Looking at the end of the carriage, line the white mark on the cam with the white mark on the over speed housing.
- [] Slide carriage on rail making sure not to move the alignment.

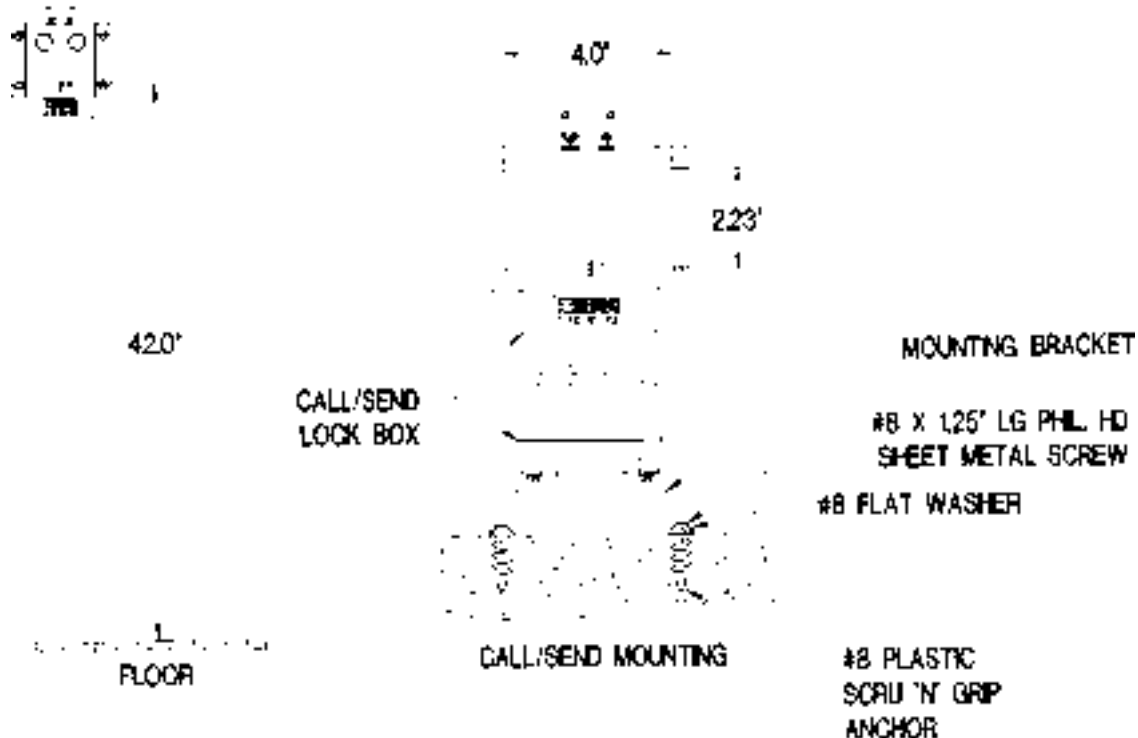
RESETTING OVERSPEED

- [] If the overspeed should be tripped while servicing or installing. The cam may be reset by rotating the cam back to its detent position. By bypassing the overspeed switch and running the drive unit up, the cam can be rotated in by hand.
- [] Should a failure occur which would activate the overspeed, the complete drive unit will have to be removed from the rail and returned to the dealer or the manufacture to determine the reason for the failure. Repairs would then have to be completed before unit could be used again.

MOUNTING CALL/SEND LOCK BOX

- [] Install call/send lock boxes as shown below. The key switch should be approximately 42" from floor. One box should be installed at the top of the stairs and one at the bottom.

FIGURE 24



Bruno Independent Living Aids, Inc., warrants to the original purchaser the "*ELECTRA-RIDE II*™ STAIRWAY ELEVATOR" manufactured by us to be free from defects in material and workmanship under normal use and service for a period of one year. Our obligation under this warranty shall be limited to the repair or exchange of any part or parts which may thus prove defective under normal use and which our examination shall disclose to our satisfaction to be defective.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART, AND WE NEITHER ASSUME, NOR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, INCIDENTAL AND CONSEQUENTIAL DAMAGES.

THIS WARRANTY SHALL NOT APPLY TO ANY PART OF THE PRODUCT WHICH HAS BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, ALTERATION, ABUSE OR MISUSE. WE MAKE NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES OR PARTS NOT SUPPLIED BY US. NO WARRANTY IS MADE EXCEPT TO THE ORIGINAL PURCHASER. THE TERM "ORIGINAL PURCHASER," AS USED IN THIS WARRANTY, SHALL BE DEEMED TO MEAN RETAIL CUSTOMERS TO WHOM THE PRODUCT IS ORIGINALLY SOLD OR RENTED. THIS WARRANTY SPECIFICALLY EXCLUDES LABOR AND SERVICE CALLS AND DEFECTS CAUSED BY UNAUTHORIZED WORK PERFORMED ON THE ELEVATOR.

For repair or replacement under this limited warranty, the product must be returned, freight prepaid, to Bruno Independent Living Aids, Inc., 1780 Executive Drive, Oconomowoc, Wisconsin, 53066. Attention: Service Department. After warranty service, the product will be returned freight collect. No warranty will be honored unless the customer can show proof of purchase (with date of purchase) and unless notice is given to Bruno Independent Living Aids, Inc., within 10 working days of the date of purchase. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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REGULATORY INFORMATION

FCC REGULATIONS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

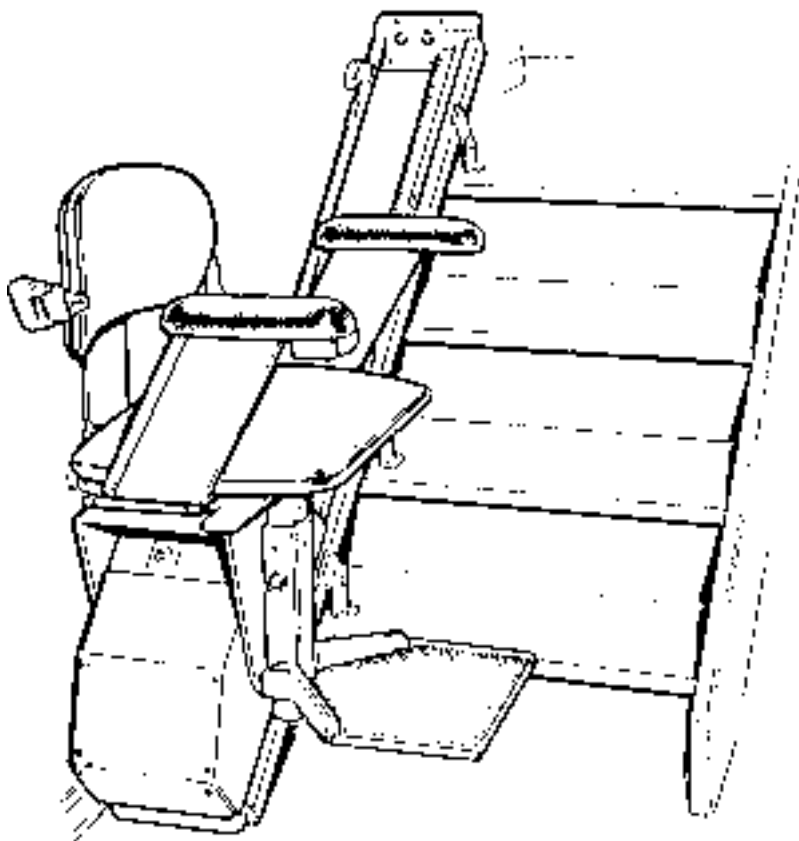
- Reorient or relocate receiving antenna.
- Increase separation between equipment and receiver.
- Consult your dealer or an experienced radio/TV technician.



BRUNO

INDEPENDENT LIVING AIDS

SRE-1550 ELECTRA-RIDE II STAIRWAY ELEVATOR™



INSTALLATION MANUAL

1780 EXECUTIVE DR., P.O., BOX 84

OCONOMOWOC, WI 53066

(414) 567-4990

FAX: (414) 567-4341

TECHNICAL SERVICE NUMBER: 1-800-882-8768

SALES & CUSTOMER SERVICE NUMBER: 1-800-882-8183

ARE BOTH GOOD THROUGHOUT THE U.S.
AND CANADA

MAN-1550-1
REVISED 08-10-98