

in Seat™

# RoadComfort™

## INSTALLATION INSTRUCTIONS



### 1 Required Tools

Permanent Markers	Utility Blade
Tie Wraps	Hog Rings
Cutters	Denier Fiber
3M Foam Spray Glue	1/4" Foam (if necessary)
Motor Cavity Template	Ruler
Scissors	

**NOTE:** Dimensions shown in this manual are suggested for typical installations. Dimensions may change depending on seat structure.

### 2 Seat Back Cushion 6 Mtr System Installation

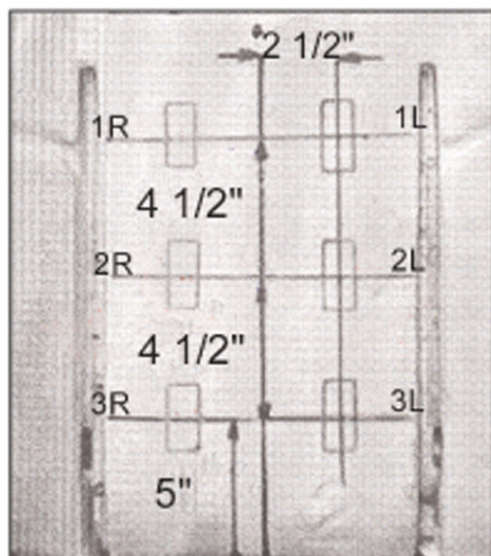


Figure 1

Remove cover from back seat to expose foam. With ruler draw a center line and locate motors with template as shown in (figure 1). Using template, cut motor cavi-

ty 1 1/2" deep\* (figures 2). Place motor onto cavity with the corresponding motor in the corresponding zone. Feed the motor wire through the foam, pulling the wire from the back, to hold the motor in



Figure 2



Figure 3

place. Be sure the motor wire connection faces toward the top of the seat cushion (figure 3).

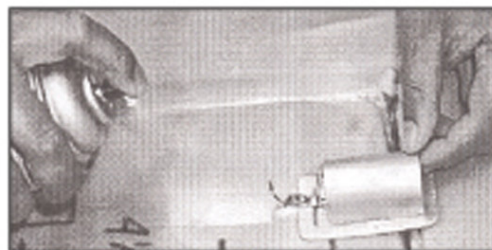


Figure 4

Lift the motor plate, and using spray glue, apply spray glue into the foam cavity and onto the sides on the motor plate avoiding the motor ends (figure 4), after 10 seconds, place motor back in the cavity and apply pressure to the top of the plate and hold it against the foam by 10 seconds.

### 2.1 Seat Back Cushion 4 Mtr System Installation

If you are installing 4 motors on the back cushion (and 2 or 4 on the seat cushion), just eliminate the two motors located at the top of the cushion and install motors per figure 5.

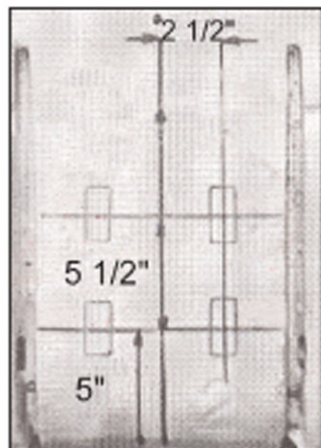


Figure 5

### 3 Seat Cushion 4 Mtr System Installation

Remove seat cushion cover to expose foam; With a ruler draw a centerline on seat cushion (figure 6).

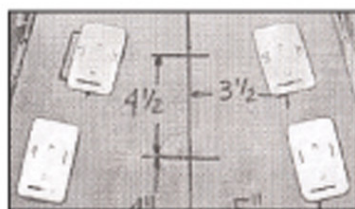


Figure 6

Using the template, trace and cut motor cavity 1 1/2" deep\* (figure 2 and 3); Place motor in the corresponding zone (figure 5); Feed the motor wire through the foam, pulling the wire from behind, to hold the motor in place; Be sure the motor connection faces toward the front of the seat cushion.

Lift the motor from the plate, and using spray glue, apply into the foam cavity and onto the sides of the motor plate avoiding the motor end (figure 4). After 10 seconds, place motor back in the cavity and apply pressure to the top of the plate and hold it against the foam for 10 seconds.

**\*If the cushion has any additional accessories like heater, airbag, etc., you may have to remove it before cutting the holes to avoid any damage. Replace accessories when finished installing motors.**

### 3.1 Seat Cushion 2 Mtr System Installation

Just eliminate the rear two motors, and proceed with the installation on the first two motors in the front.

### 4 Denier Fiber (Needle Punch)

Once you have the motors installed (figures 6 and 7), to ensure the proper comfort, there must be sufficient padding between the motor and the seat cover.

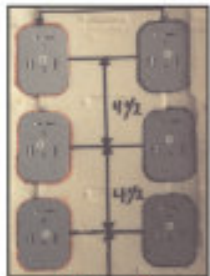


Figure 7

In most cases, the cover has an integrated plus pad attached (usually 1/2"), but if your cover does not have it, you should add 1/4" open cell foam with the same density as the foam pad that will be glued on top of the needle punch.

Place the needle punch over the motor area (figure 8) and trace enough area to cover all motors. Assure



Figure 8

that size of needle punch is large enough to eliminate edges, that could be felt through the cover, for example, use down channels for edges. Using scissors, cut the needle punch at the size required and adhere to the surface using foam spray glue.

Same procedures applies to the seat back and seat cushion.

### 5 Heat Pad Installation

With a ruler draw a centerline on the seat back and measure 4" from the seat cushion and draw a 2 1/2" vertical line, cut it 1" deep (figure 9). This will be used to locate the heater pad thermostat.



Figure 9

Locate the heat pad with the thermostat over the slit. With the utility blade, slice through the needle punch and through the foam at the side of the foam cushion. Pass the heater wire through the back cushion. (figure 10)



Figure 10

Apply the spray glue on the needle punch material and to the heat element. Apply pressure to the heat pad and hold against the mat for 20 seconds. (figure 11)



Figure 11

**WARNING!** You must install a needle punch layer over motor plates before installing Heat Pad

### 6 Attaching Motor Wires to Printed Board

Matching the corresponding number on the motor wire to the number on the printed circuit board is going to provide the perfect connection.

The PCB is provided with a gray plastic shell cover. To work with the PCB remove the plastic cover and when you finish replace it, being sure to apply a small piece of tape to secure the cover opening. Never install the PCB with out the Plastic Shell Cover.

### 7 Printed Circuit Board Placement

On the BACK CUSHION: Cut out a 3" x 1 3/4" x 3/4" deep square into the foam and glue in the PCB. Look for an area with enough space to locate the PCB without interference from any component from the seat frame and tie wrap the PCB by the two holes on the plastic shell.

Cover the entire area with needle punch and adhere it with spray glue to add extra protection. Organize the remaining wires.



Figure 12

On the SEAT CUSHION, locate the PCB out of the weight impact area (sitting area); this usually is at the very end area. And repeat procedure used on the back cushion. (figure 12)

The system has a main control box (black) with numbers 1 and 2 on the top, marking the place where the two wire bundles exit

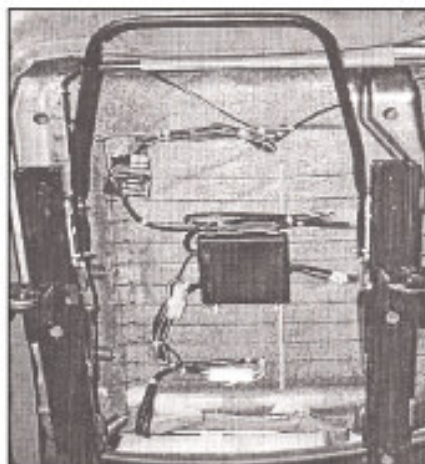


Figure 13

the box with connectors on the end of these bundles (plastic square), 9 pin for the back and 6 pin for the seat; that is in order to make the installation more easier

### 8 Control Box Installation

Attach the controller box to the seat frame components. Use tie wraps and connect all the wiring and the control wand. Bundle and organize loose wiring with tie wraps. (figure #13)

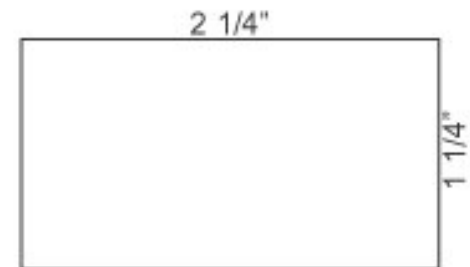
### 9 Power Connection

If the vehicle is equipped with Anti Theft Radio, or other device that requires full time power, check your owner's manual before disconnecting the battery.

1. Disconnect the NEGATIVE battery cable before connecting the massage system.
2. Run the power harness under carpet toward the fuse box.
3. Use any accessories power (the system uses 1.5 amps only)
4. Install the negative wire (black) to the OEM ground screw and secure in place.
5. If POWER SEAT, is available, connect the red wire (positive) to the power seat mechanism power wire.

### For Technical Support:

1-877-946-7328 ext.216



MOTOR TEMPLATE

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