

Seat Comfort Systems

Universal Seat Heater Installation Instructions

THE **UNIVERSAL HIGH/LOW** seat heater is a heating system that has been designed to be installed in a minimal amount of time with readily available tools. The unique design allows installation into 90% of existing seat designs. The heater also has a dual LED switch which designates high (orange) and low (green) as temperature settings.

Before You Start:

Check and determine that the heaters will fit under the seat trim covers in the desired areas. The universal high/low heater is not designed to be installed over any listing channels or the Velcro hold-downs.

WARNING: The installation instructions have been carefully compiled through actual vehicle installations and to the best of our ability is accurate. However, we do not warrant the accuracy of this information against changes in vehicle design, the use or misuse of this information or typographical errors.

It is the responsibility of the installer to verify the proper wire attachments prior to and after the installation of the Seat Heater System to assure proper operation. We do not accept any responsibility for damage to the vehicle or injury to its occupants caused by the use of this information. Improper installation and/or connection to the incorrect wires could cause Seat Heater System or vehicle **malfunction, component damage and/or personal** injury for you and/or your passengers.

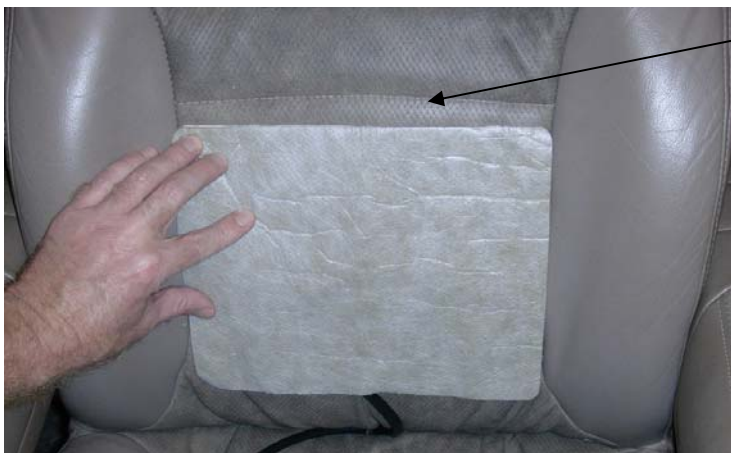
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GENERAL ADVICE:

- The Seat Heater is to be installed under the seat cover. Always check the heater placement on the seat prior to beginning any work. Make sure there are no vertical tie-down seams or any obstacles that would not allow the element to be installed.
- Check for Occupant Detection System in the seat back prior to installing. The lumbar heater cannot be installed over an Occupant Detection System.
- The installer is liable for any damage due to improper installation.
- All steps explained in this manual are to be followed with great care. Installation has to be performed by qualified personnel only. Improper installation will void the limited warranty provided by the manufacturer and may cause physical damage to equipment or people.
- The heating system has to be connected to 12 volt accessory power. It is necessary that the system is capable of driving up to 5 Amps continuous current.
- The heating element has to be installed without any folds.
- The heating element is not to be modified by folding, cutting or in any other way.
- The wire harness has to be fitted to the seat in a way that the full range of movement of the seat is possible without damaging the wire harness.
- Cars fitted with side airbags have to be treated according to the manufacturers fitting manuals. The heating element is only to be attached to the middle of the seat back foam. The connections of the side airbag(s) have to be handled thoroughly and should never be connected to any kind of power supply during the fitting process.

Fitting the Seat Heater: Lay the heating elements on the seat cushion and back and verify the placement of the heater. The element cannot be placed over a trim detail or foam channel.



Foam Channel

Contents

- Back Heat Element
- Cushion Heat Element
- Main Wire Harness
- Switch with 5-inch Wire Harness
- 7.5 amp fuse and fuse holder

Step 1: Dismantling the car seat

- Secure the car on a level surface by enabling the brakes.
- Disconnect the car's battery or ensure that the area to be worked within is grounded. If you have any doubt concerning the layout of the car's wire harness consult the wiring diagram provided by the manufacturer.
- Dismantle the seat that will be fitted with the heater. In most cases stripping the seat cover is easier with a dismantled seat.
- To dismantle the seat, remove the plastic covers and remove the screws. Take the seat completely out of the interior of the car.
- Remove all seat covers in the area you are planning to fit the seat heater and wire harness.

Step 2: Stripping the seat cover

- Separate cushion and back from each other by removing the covers and unscrewing the connecting screws. It is advised to put the seat on a dedicated worktable for the following steps.
- Remove the cover of both the seat cushion and back. Remove and dispose of all upholstery clips. Unhook all other connections using a suitable screwdriver.



- Make sure, that there are no loose metal parts left on the foam. Clean the seat's foam from any other debris.

Step 3: Fitting the cushion heating element:

- Lay the heating element with the thermostats facing the rear of the seat foam. The wires have to be fitted below the foam so they will not be noticed in the finished seat. Fit the heating element and make sure not to fold any of the areas covered with adhesive tape. All areas covered with adhesive tape have to be adhered onto a level surface.
- Remove 2 small sections of foam so the thermostats can sit flush on the foam and not be noticed in the finished seat.
- Place element on foam with thermostats over the 2 cutouts and remove the adhesive release paper and thoroughly adhere to the foam. Make sure the thermostats are in the cutouts.

Step 4: Fitting the back heating element:

- Follow step 3, ignoring the thermostat.

Note:

- **Never cut in areas covered with adhesive tape!**
- **RELEASE PAPER MUST BE COMPLETELY REMOVED. FAILING TO COMPLETELY REMOVE PAPER IS A FIRE HAZARD AND NULLIFIES AND VOIDS WARRANTY**

Step 5: Assembling the wire harness and switch

While running the wire harness you have to pay attention, that the wire cannot be cut, squeezed or damaged in any other way. The wire harness is to be attached to the seat frame securely.

- Reassemble the seat. Plug the open connectors of the wire harness onto the open wires from the seat and back heating element. Fix the wire harness to the seat frame.
- Run the wire harness to the center console or side seat shield. Cut a 20mm hole in the panel, pull the connecting wire through and then plug in the switch and push the switch into the panel.

Step 6: Electrical connection and function test

Connect the red (positive) and ground wires to the car power supply (12 Volt DC). Connect them to accessory power capable of driving 5 A continuous current.

Note:

If you connect the seat heating system directly to the battery, it will be possible to run the seat heater without running the engine. Calculating a power consumption of about 50 Watts per seat this would strain the battery considerably if left with the engine off.

Troubleshooting

If the seat does not feel warm in 5 minutes:

- The elements may not heat up if the sun has been shining on the seat.
- Check the seat heater and accessory fuses. In some installations a fuse tap may have been installed in order to power up the seat heater. This fuse tap clips in with another fuse of 7.5 amps or greater. Be sure this tap is put in on the positive/power side of the fuse or it could blow the fuse in the fuse block when both accessories are turned on at once. The fuse tap may be dislodged accidentally
- Check all the connectors to make sure they are tightly engaged.
- Check the connections to 12 volts and ground. NOTE: The red wire MUST be connected to 12 volts and the black wire to ground.