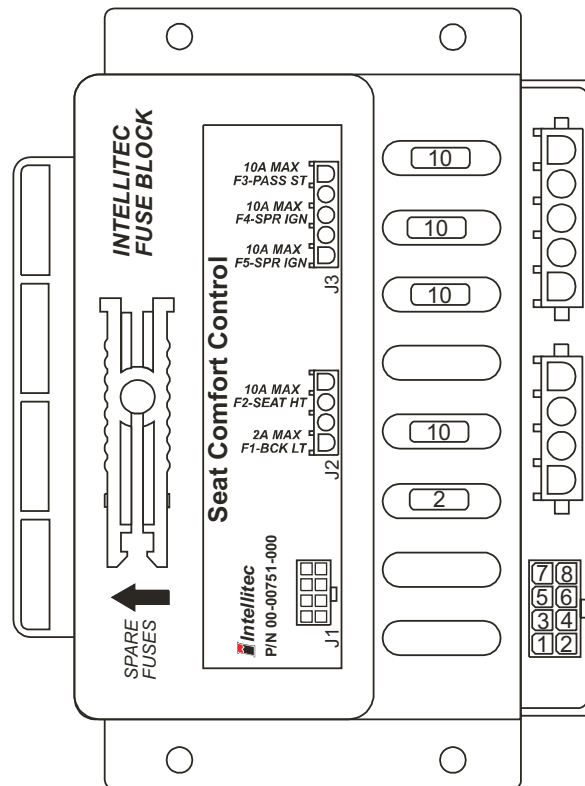


Seat Comfort Control

SERVICE MANUAL



Seat Comfort Control
P/N 00-00751-000

CAUTION

Note: The Seat Comfort Control is a centralized power switching, fusing, and distribution center. Power from the ignition is fed into the control. The power of the battery is available at this box. Inadvertent shorts at this box could result in damage and/or injury. All servicing of this box should be done only by a qualified Service Technician.

Tools required: Low current Test Light, Accurate Voltmeter (digital read-out preferred)

Intellitec

131 Eisenhower Lane North
Lombard, IL 60148
630.268.0010 / 1.800.251.2408

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PRODUCT DESCRIPTION

The **Seat Comfort Control** operates in conjunction with a remote switch panel to control the functions of a vehicle seat to control the heat, the lumbar support and the massage motor.

Seat Heat - The seat heat function works with a seat heater from the Check Corporation. This heater includes a temperature sensor that allows accurate temperature control when used with a controller.

Lumbar Support - The lumbar support portion of the control operates the lumbar support motor and the dump valve with push to operate buttons.

Massage - The massage function is a push on/push off type of switching.

HOW IT WORKS

The **Seat Comfort Control** - When the power is first applied, the unit is off. At the first press of the HEAT button, full power is applied to the heating element and the switch panel mounted LED will illuminate dimly. The seat will heat to the pre-set LOW level (105 F). The power will then be removed and re-applied as necessary to maintain the temperature.

At the next press of the button, full power is applied to the heating element and the switch panel mounted LED will illuminate brightly. The seat will heat to the pre-set HIGH level (113 F). The power will then be removed and re-applied as necessary to maintain the temperature. At the last press of the button, the heat will be turned off.

The control includes circuitry to be sure the temperature sensor is connected to prevent over heating. It does this by being sure the resistance of the sensor is in the acceptable range. If it is not, the heat will not work. The control also includes a timer that automatically shuts the power off in one hour after the last button press.

Lumbar Support - When the Lumbar UP button is pressed, the lumbar pump motor output will turn on, supplying power to the pump motor. The lumbar support will inflate. When the button is released, the power to the pump motor is turned off.

When the Lumbar DOWN button is pressed, the lumbar release valve output will turn on, supplying power to the lumbar release valve. The lumbar support will deflate. When the button is released, the power to the release valve is turned off.

Massage - When the Massage button is pressed, power is applied to the massage motor. When the button is pressed a second time, the power is turned off.

Circuit Protection - Circuit protection for the outputs is provided through a fuse mounted on the control. The heat, lumbar, and massage outputs are all protected by fuse F2, 10 Amp. Fuse F1, 2 Amp, provides power to the back lighting of switch panel.

There are two other fuses on the module that are used to pass current to other loads as selected by the installer. These are also 10 amp fuses. These fuses should always be replaced with ones of the same rating. Failure to do this could result in a hazardous condition.)

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TROUBLE SHOOTING

SEAT HEAT

Seat Heater is not heating.

Check for 12 volt power to the module at J3-1.

Seat Heater is not working. Panel LED is on.

Check fuse F2-10 amp

Check for power at J1-2 when UP button is pressed and J1-3 when DOWN button is pressed. If OK, replace seat. If not, replace module

LUMBAR FUNCTION

The Lumbar function doesn't operate.

Check for 12 volt power to the module at J3-1.

Check fuse F2-10 amp

MASSAGE

The Massage motor doesn't operate.

Check for +12 volts at J1-4 when pressing the MASSAGE button on and off. If the voltage is present, replace the seat motor. If not, replace the module.

Check for 12 volt power to the module at J3-1.

Check fuse F2-10 amp

Be sure plug to heater is connected.

Measure voltage at Heat Ground for zero volts.
If not replace module.

Check resistance of temperature sensor at 10,000 ohms and heater at 3 ohms.

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TYPICAL WIRING DIAGRAM

