

# **Component Procedures: Seat Temperature Control Module**

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# Component Procedures: Seat Temperature Control Module

## Parts and Labor (itype\_189)

### Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Heated Seats > Control Module, R&R > One Side	B	0.6	0.5

## Seat Heating and Cooling (Article 13417)

### Non Standards

- Front Seat Heater Control Module Replacement (13418)

## All Technical Service Bulletins (itype\_100)

### Tsbs

- Interior - Heated Seats Inoperative, DTC U0209 Set (PIC5954, 2014/02/06)

## Repair Tips (itype\_110)

### Tsbs

- Interior - Heated Seats Inoperative, DTC U0209 Set (PIC5954, 2014/02/06)

## Seat Heating Control Module Programming and Setup (Article 10754)

The seat heating control module must be programmed with the proper calibration software. The module stores and utilizes this information however if it is not properly configured with the correct calibration software, the seat heating control module will not control all of the vehicle features properly.

Ensure that the following conditions exist in order to prepare for seat heating control module programming:

- The battery is fully charged.
- The MDI data link connectors are secure.
- The scan tool is loaded with the most current software version.
- All disconnected modules and devices are reconnected securely.
- This entire procedure has been reviewed before proceeding.

Do not reprogram the seat heating control module unless directed by a service procedure or a service bulletin.

### Seat Heating Control Module Programming

To program and setup an existing or new replacement seat heating control module, perform the following procedure:

- Access the Service Programming System ( SPS ) and follow the on-screen instructions. Refer to Service Programming System (SPS) .
- On the SPS Supported Controllers screen, select HVSMF Front Seat Heating Control Module - Programming and follow the on-screen instructions.

If the HVSMF Front Seat Heating Control Module fails to accept the program, verify all scan tool and seat heating control module connections are secure.

- Turn the ignition OFF for 10 seconds.
- Open and close the door.
- Connect the scan tool to the data link connector.
- Ignition ON, engine OFF.
- Clear all DTCs from all modules.

## Driver Seat and Passenger Seat Heater Control Module Scan Tool Information (Article 10775)

### Parameter Expected Value Description

#### Operating Conditions: Engine Running

Driver Seat Cushion Heating Command Inactive The scan tool displays Inactive or Active. This parameter displays the commanded output from the seat heating control module to the seat heater elements.

Driver Seat Cushion Temperature Sensor Varies The scan tool displays 0 – 5 V. The voltage displayed is an input to the seat heating control module from the seat cushion temperature sensor. Higher voltage readings indicate cooler seat temperatures while lower voltage readings indicate warmer seat temperatures.

Driver Seat Heating/Venting/Cooling Level Off The scan tool displays Off, Low Medium, or High. When the heated seat is active, this parameter displays the selected temperature setting.

Driver Seat Heating/Venting/Cooling Mode Off The scan tool displays Off, Back & Cushion Heat, or Vent. This parameter indicates the heated or vented seat mode of operation.

Passenger Seat Cushion Heating Command Inactive The scan tool displays Inactive or Active. This parameter displays the commanded output from the seat heating control module to the seat heater elements.

Passenger Seat Cushion Temperature Sensor Varies The scan tool displays 0 – 5 V. The voltage displayed is an input to the seat heating control module from the seat cushion temperature sensor. Higher voltage readings indicate cooler seat temperatures while lower voltage readings indicate warmer seat temperatures.

Passenger Seat Heating/Venting/Cooling Level Off The scan tool displays Off, Low Medium, or High. When the heated seat is active, this parameter displays the selected temperature setting.

Passenger Seat Heating/Venting/Cooling Mode Off The scan tool displays Off, Back & Cushion Heat, or Vent. This parameter indicates the heated or vented seat mode of operation.

#### Control Functions Description

Driver Seat Cushion Heating This output control is used to command the driver seat heater elements On.

Passenger Seat Cushion Heating This output control is used to command the passenger seat heater elements On.