

# **Component Procedures: Control Module HVAC**

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# Component Procedures: Control Module HVAC

## Parts and Labor (itype\_189)

### Parts

Qualifier	Part #	Name	Price	Note
Control Module	13501703	Control Module	48.80	

### Blower Motor Control Module Replacement (Article 12729)

Callout Component Name

Preliminary Procedures Remove the I/P Compartment. Refer to Instrument Panel Compartment Replacement .  
Reposition any wiring or hoses to gain access to blower motor control.

Preliminary Procedures

- Remove the I/P Compartment. Refer to Instrument Panel Compartment Replacement .
- Reposition any wiring or hoses to gain access to blower motor control.

1 Blower Motor Control Module Screw (Qty: 2) Caution: Refer to Fastener Caution . Tighten 2 Nm (17 lb in)  
2 Nm (17 lb in)

2 Blower Motor Control Module Procedure Disconnect the wiring connector.

Procedure

Disconnect the wiring connector.

### Blower Motor Control Module Programming and Setup (Article 10724)

- DO NOT program a control module unless directed to by a service procedure or a service bulletin. If the ECU is not properly configured with the correct calibration software, the ECU will not control all of the vehicle features properly.

- Ensure the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or ECU damage may occur.

- Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. Install the EL-49642 - SPS Programming Support Tool to maintain system voltage. If not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply. DO NOT connect a battery charger.

- Turn OFF or disable systems that may put a load on the vehicles battery such as; interior lights, exterior lights (including daytime running lights), HVAC , radio, etc.

- During the programming procedure, follow the SPS prompts for the correct ignition switch position.

- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to NO.

Replace and Program Blower Motor Control Module or Reprogram Blower Motor Control Module

This ECU does not require SPS programming or any setup procedures.

Unsuccessful Programming Recovery

In the event of an interrupted or unsuccessful programming event, perform the following steps:

- DO NOT turn the ignition OFF. Ensure that all ECU, DLC and programming tool connections are secure and the TIS terminal operating software is up to date.

- Attempt to reprogram the ECU.

- If the ECU can still not be programmed, turn the ignition OFF for at least one minute.

- Turn the ignition ON and attempt to reprogram the ECU. The ECU should program.

- If the ECU still cannot be programmed, replace the ECU.

### HVAC System Control Module Programming and Setup (Article 10740)

- DO NOT program a control module unless directed to by a service procedure or a service bulletin. If the ECU is not properly configured with the correct calibration software, the ECU will not control all of the vehicle features properly.

- Ensure the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or ECU damage may occur.

- Turn OFF or disable systems that may put a load on the vehicles battery such as; interior lights, exterior lights (including daytime running lights), HVAC , radio, etc.

- During the programming procedure, follow the SPS prompts for the correct ignition switch position.

- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to NO.

Replace and Program HVAC Control Module or Reprogram HVAC Control Module

To program a replacement or an existing HVAC control module, perform the following procedure:

- Access the Service Programming System (SPS) and follow the on-screen instructions.
- On the SPS Supported Controllers screen, select Remote Heater and Air Conditioning Control Module – Programming and follow the on-screen instructions.
- At the end of programming, choose the “Clear All DTCs” function on the SPS screen.

#### Unsuccessful Programming Recovery

In the event of an interrupted or unsuccessful programming event, perform the following steps:

- DO NOT turn the ignition OFF. Ensure that all ECU, DLC and programming tool connections are secure and the TIS terminal operating software is up to date.
- Attempt to reprogram the ECU.
- If the ECU can still not be programmed, turn the ignition OFF for at least one minute.
- Turn the ignition ON and attempt to reprogram the ECU. The ECU should program.
- If the ECU still cannot be programmed, replace the ECU.