

6. Verify the A/C compressor clutch engages when commanding the ECM A/C Relay output function On and Off with a scan tool.

⇒ **If the A/C compressor clutch does not engage**

Refer to DTC P0645, P0646, or P0647 on page 10-112

⇓ **If the A/C compressor clutch engages**

7. Engine ON.
8. Verify the HVAC control module scan tool A/C Compressor Refrigerant Solenoid Valve Command parameter changes with varying cooling loads.

⇒ **If the parameter does not change**

Refer to DTC B393B on page 10-108

⇓ **If the parameter does change**

9. All OK.

## Repair Instructions

Perform the *Diagnostic Repair Verification* on page 6-151 after completing the repair.

- HVAC Component Replacement Reference on page 10-94
- Control Module References on page 6-3 for HVAC control module replacement, programming and setup

## Afterblow Enabling

The afterblow mode can be enabled using the scan tool. The afterblow mode allows the blower motor to operate after the engine has been turned off. This

operation of the blower motor dries the evaporator core, which reduces the amount of microbial growth which can create undesirable odors.

Use the following procedure in order to enable the afterblow mode:

1. Connect the Scan Tool.
2. Turn ON the ignition, with the engine OFF.
3. Build the vehicle with the scan tool.
4. Select Module Diagnosis.
5. Select Remote Heater and Air Conditioning Control Module.
6. Select Configuration/Reset Functions.
7. Select HVAC Afterblow Configuration.

When afterblow has been enabled by the scan tool the blower motor will operate at 68% blower speed, following the sequence below up to 5 times. This could last up to an hour:

1. The blower motor will be OFF for 7–11 minutes.
2. The blower motor will RUN for 25–30 seconds.

The following conditions must be met for the HVAC module to operate the afterblow:

- The engine must be turned off for at least 30 min.
- The outside air temperature must be at least 21°C (70°F).
- The A/C compressor must have operated for more than 2 minutes before shut down during the latest key cycle.
- The system voltage must be at least 12 V.