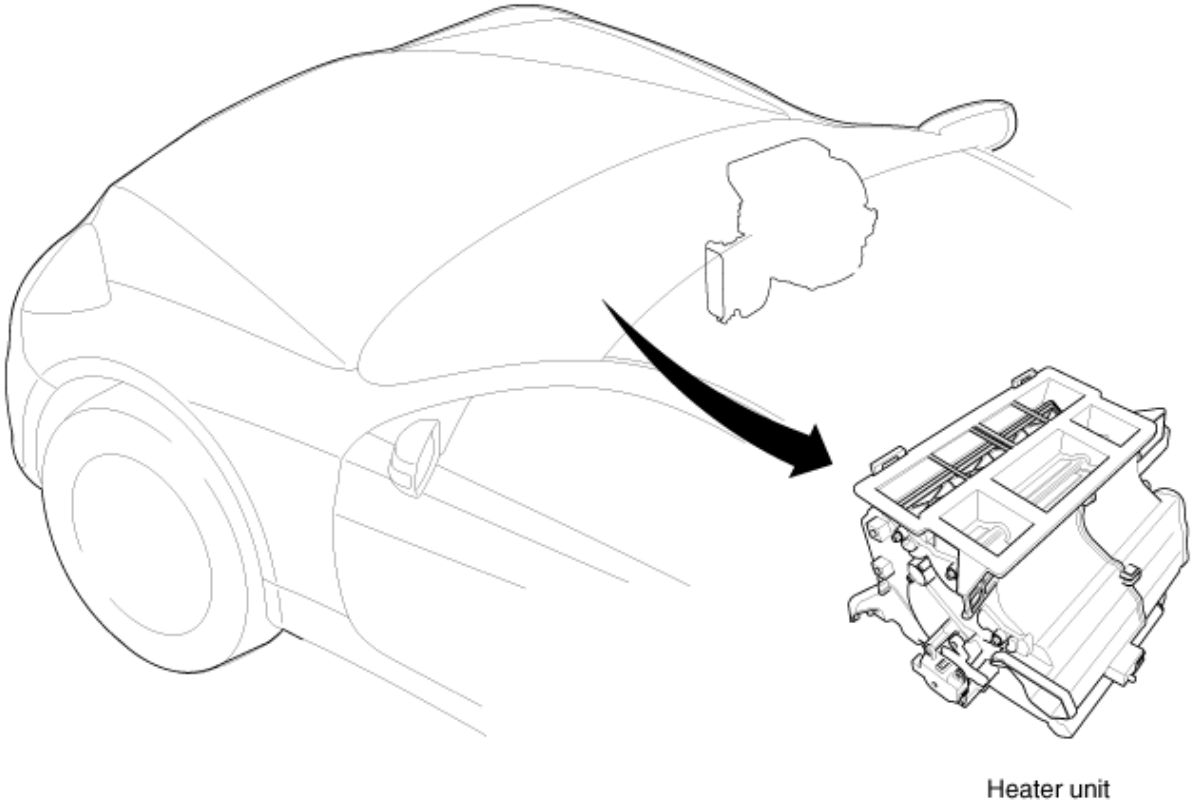
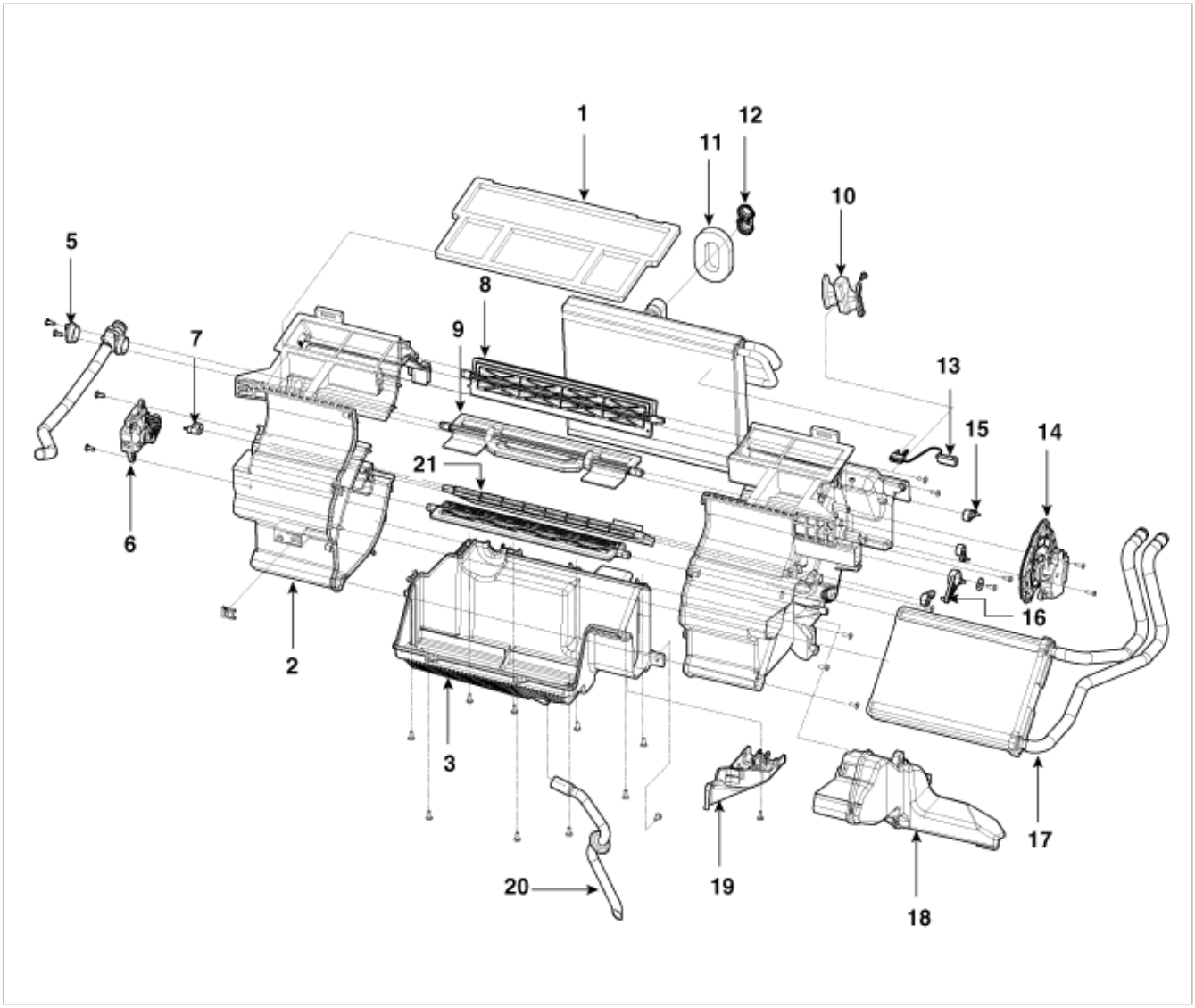
## Component Location



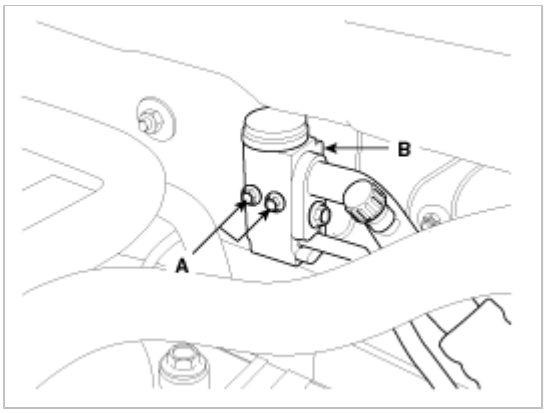

## Compoment



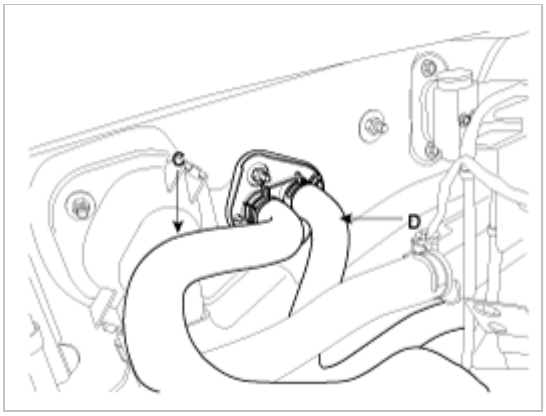

| | | |
|---|---|---|
| 1. Duct | 10. Heater pipe cover | 18. Shower duct |
| 2. Heater case (L) | 11. Flange seal | 19. Heater pipe cover |
| 3. Heater lower case | 12. Flange cap | 20. Drain hose |
| 4. Heater case (R) | 13. Evaporator sensor | 21. Temp door |
| 5. Aspirator hose | 14. Mode actuator | |
| 6. Temp actuator | 15. Vent lever | |
| 7. Temp lever | 16. Sub foot lever | |
| 8. Foot door | 17. Heater core | |
| 9. Vent door | | |

## Replacement

1. Disconnect the negative (-) battery terminal.
2. Recover the refrigerant with a recovery/ recycling/ charging station.
3. When the engine is cool, drain the engine coolant from the radiator.
4. Remove the bolts (A) and the expansion valve (B) from the evaporator core.
   Plug or cap the lines immediately after disconnecting them to avoid moisture and dust contamination.



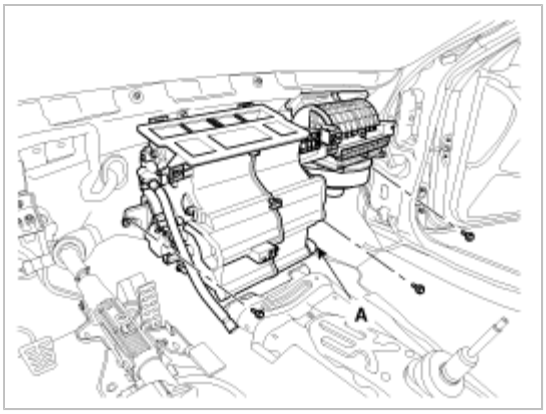

5. Disconnect the inlet (C) and outlet (D) heater hoses from the heater unit.



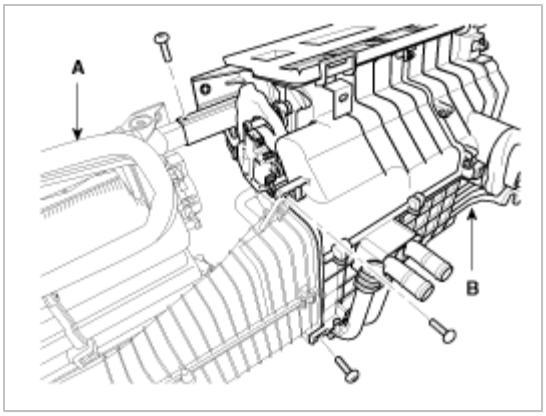

CAUTION

- Engine coolant will spill when the hoses are disconnected; drain it into a clean drip pan. Be sure not to let coolant spill on electrical parts or painted surfaces. If any coolant spills, rinse it off immediately.

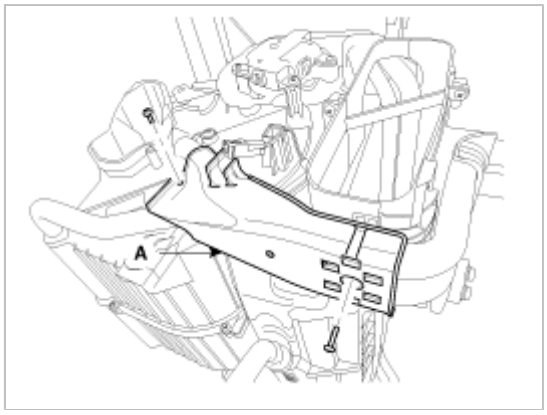
6. Remove the crash pad (Refer to BD group-Crash pad).
7. Remove the cowl cross bar assembly. (Refer to BD group-Crash pad)
8. Remove the heater & blower unit after loosening 3 mounting bolts.

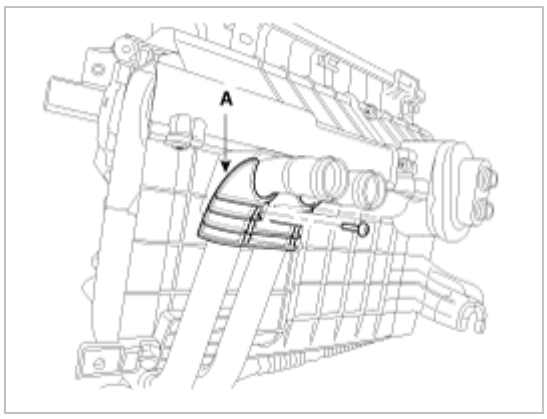



9. Remove the blower unit (A) from heater unit (B) after loosening 2 screws.

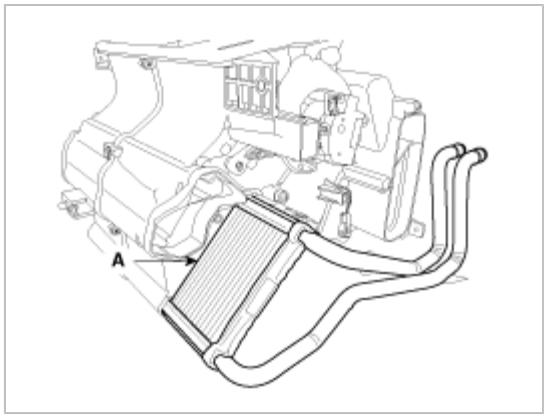



10. Remove the heater core cover after remove the cover (A).

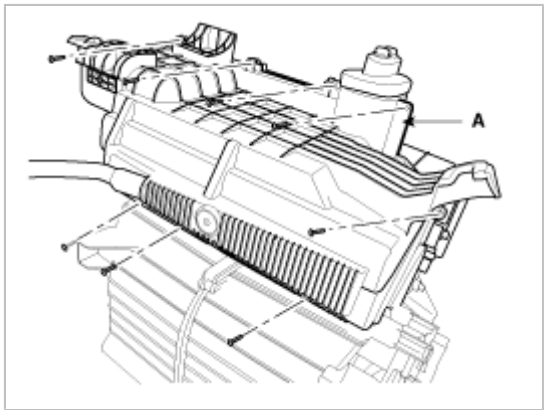


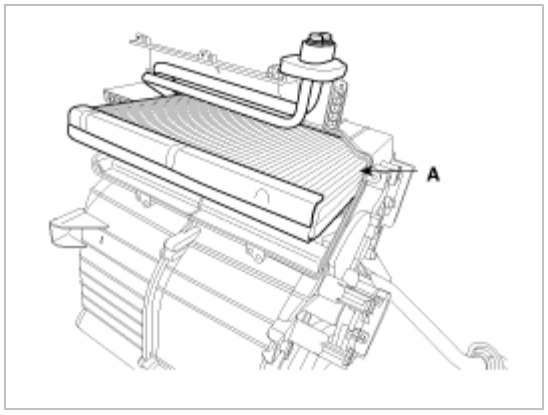

11. Be careful that the inlet and outlet pipe are not bent during heater core removal, and pull out the heater core (A).




12. Remove the heater unit lower case(A).

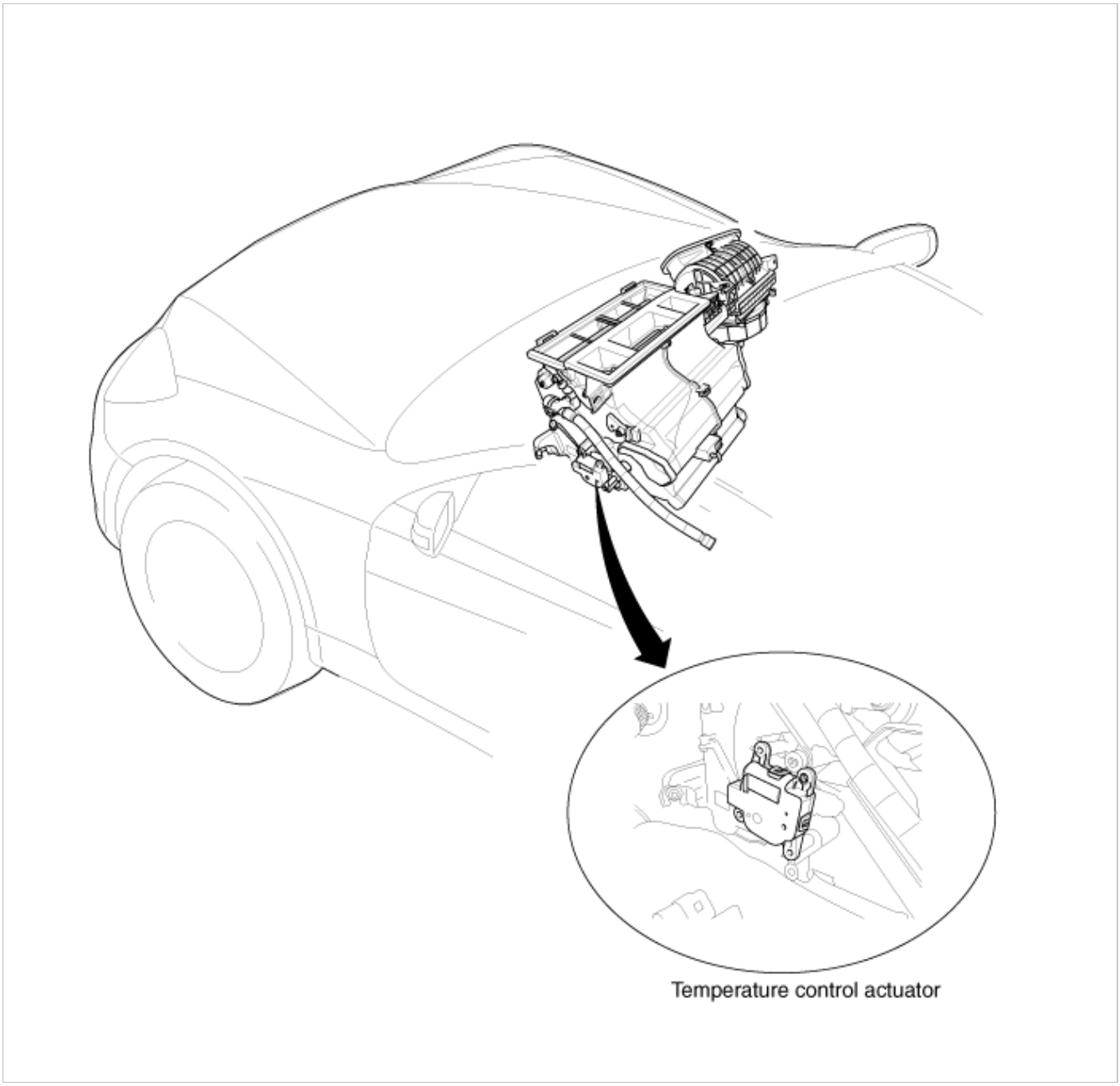



13. Remove the evaporator core(A).




14. Be careful that the inlet and outlet pipe are not bent during heater core removal, and pull out the heater core.
15. Install the heater core in the reverse order of removal.
16. Installation is the reverse order of removal, and note these items :
    A. If you're installing a new evaporator, add refrigerant oil (ND-OIL8).
    B. Replace the O-rings with new ones at each fitting, and apply a thin coat of refrigerant oil before installing. Be sure to use the right O-rings for R-134a to avoid leakage.
    C. Immediately after using the oil, replace the cap on the container, and seal it to avoid moisture absorption.
    D. Do not spill the refrigerant oil on the vehicle ; it may damage paint ; if the refrigerant oil contacts the paint, wash off immediately.
    E. Apply sealant to the grommets.
    F. Make sure that there is no air leakage.
    G. Charge the system and test its performance.
    H. Do not interchange the inlet and outlet heater hoses and install the hose clamps securely.
    I. Refill the cooling system with engine coolant.

## Component Location

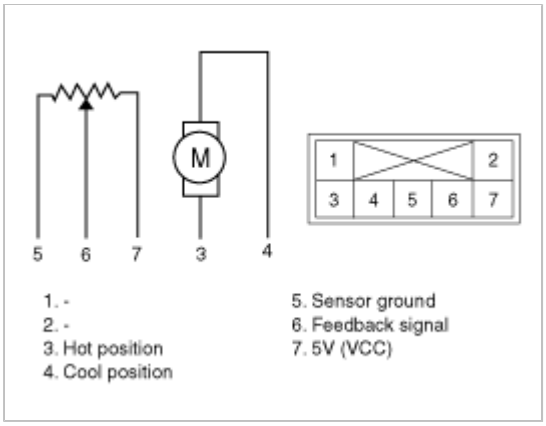


## Description

1. Heater unit includes mode control actuator and temperature control actuator.
2. Temperature control actuator is located at the heater unit. It regulates the temperature by the procedure as follows. Signal from control unit adjusts position of temperature door by operating temperature switch and then temperature will be regulated by the hot/cold air ratio decided by position of temperature door

## Inspection

1. Ignition "OFF"
2. Disconnect the connector of temperature control actuator.
3. Verify that the temperature control actuator operates to the hot position when connecting 12V to the terminal 3 and grounding terminal 4.
   Verify that the temperature control actuator operates to the cool position when connecting in the reverse




4. Check the voltage between terminals 5 and 6.

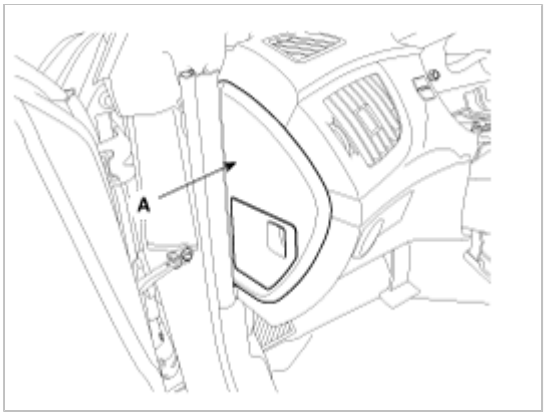
## Specification

| Door position | Voltage (5-6) | Error detecting |
|---|---|---|
| Max. cooling | 0.45 ± 0.15V | Low voltage :0.1V or less |
| Max. heating | 4.55 ± 0.15V | High voltage :4.9V or more |

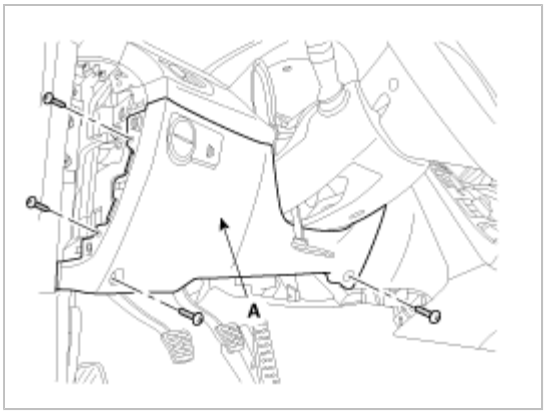
* It will feedback current position of actuator to controls.

## Replacement

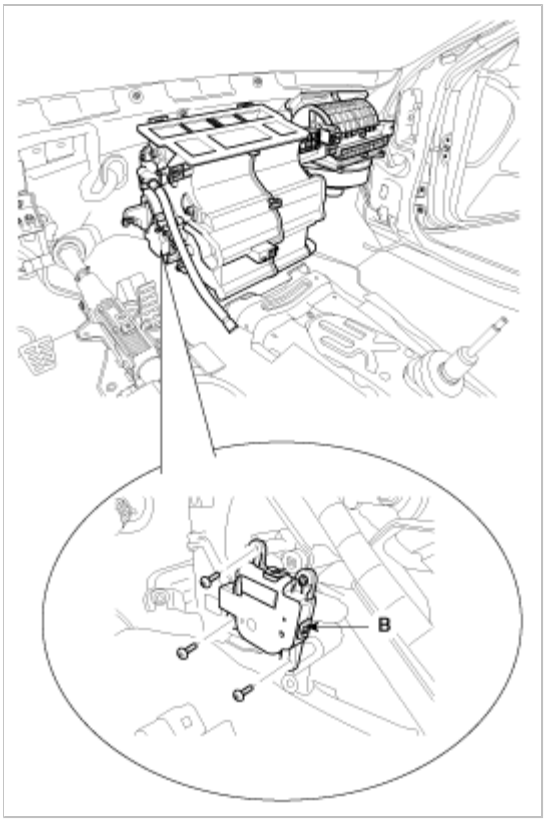
1. Disconnect the negative (-) battery terminal.
2. Remove the crash pad side cover (A).




3. After loosening the crash pad lower panel mounting screws, then remove the lower panel (A).

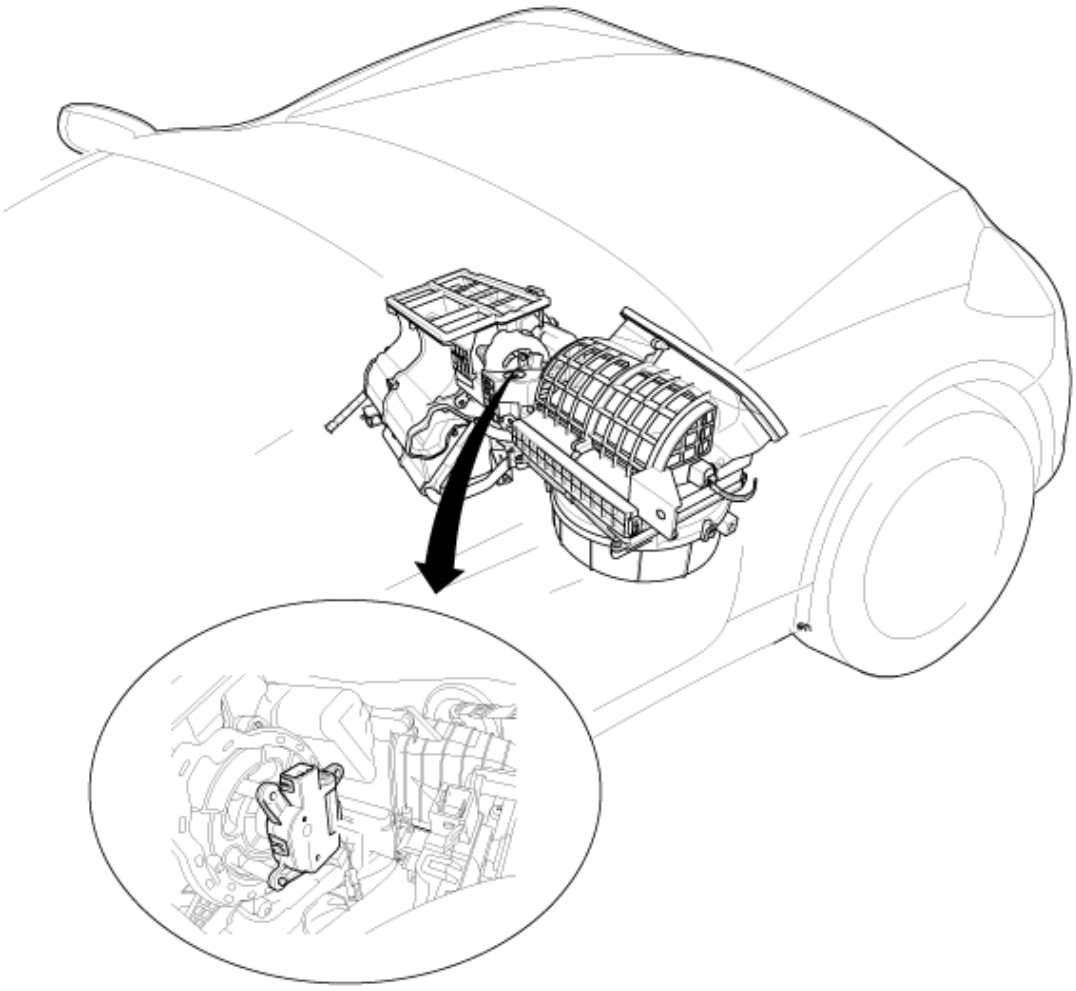



4. Disconnect the temperature control actuator connector after removing the air duct.
5. Loosen the mounting screw and then remove the temperature control actuator (B).




6. Installation is the reverse order of removal.

## Component Location



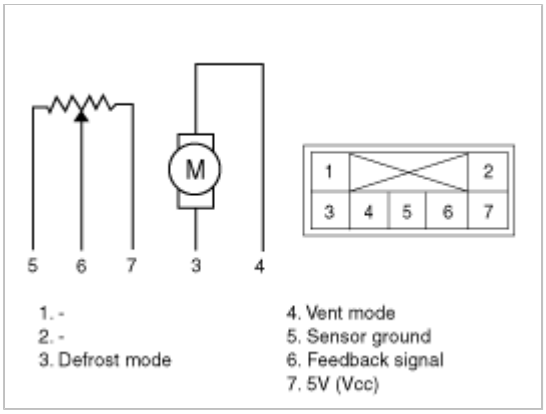
Mode control actuator

## Description

The mode control actuator is located at the heater unit.
It adjusts position of mode door by operating mode control actuator based on signal of A/C control unit. Pressing mode select switch makes the mode control actuator shift in order of vent→ B/L → floor → mix.

## Inspection

1. Ignition "OFF"
2. Disconnect the connector of mode control actuator.
3. Verify that the mode control actuator operates to the defrost mode when connecting 12V to the terminal 3 and grounding terminal 4.
4. Verify that the mode control actuator operates to the vent mode when connecting in the reverse.




5. Check the voltage between terminals 5 and 6.

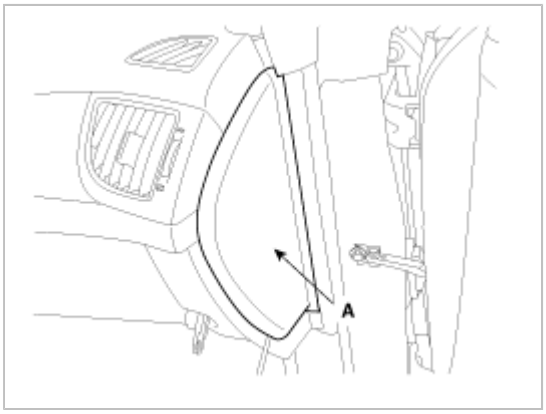
| Door position | Voltage (5-6) | Error detecting |
|---|---|---|
| Vent | 0.45 ± 0.15V | Low voltage :0.1V or less |
| Defrost | 4.55 ± 0.15V | High voltage :4.9V or more |

* It will feedback current position of actuator to controls.

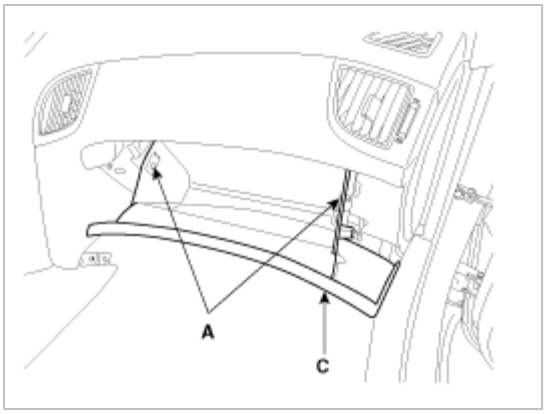
6. If the measured voltage is not specification, substitute with a known-good console temp control actuator and check for proper operation.
7. If the problem is corrected, replace the console temp control actuator.

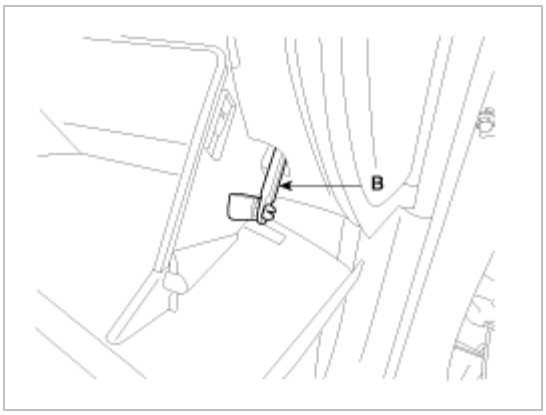
## Replacement

1. Disconnect the negative (-) battery terminal.
2. Remove the crash pad side cover (A).

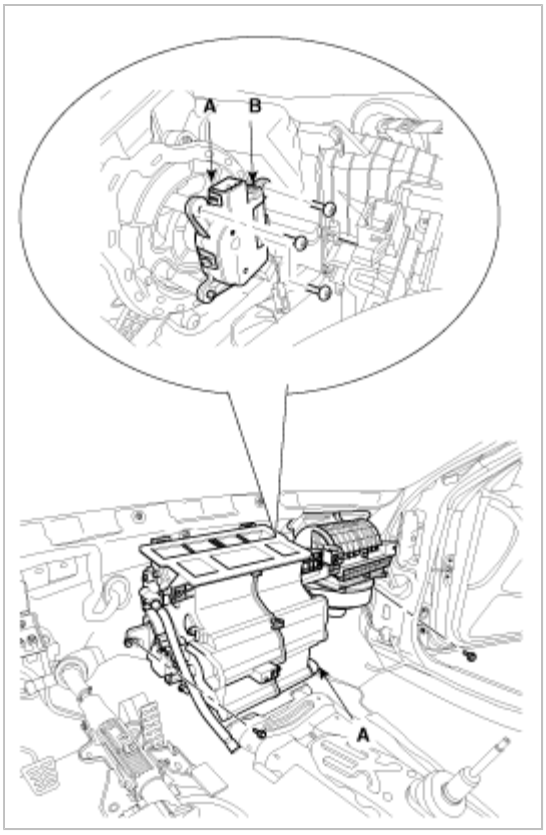



3. Open the glove box. Lower the glove box down completely by removing the glove box damper (A) and lift (B) to the glove box(C).




4. Disconnect the mode control actuator connector (A) after removing the air duct.
5. Loosen the mounting screws and then remove the mode control actuator (B).




6. Installation is the reverse order of removal.