

[2003 HUMMER H2](#) | [H2 \(VIN N\) Service Manual](#) | [HVAC](#) | [Preliminary Information](#) | Document ID: 1989063

#PIT4427: Repeat HVAC Actuator Replacements - keywords door cool heat mode temperature - (Jun 15, 2007)

Subject: Repeat HVAC Actuator Replacements

Models: 2003-2007 HUMMER H2, SUT
1999-2007 Chevrolet Silverado Classic
1999 -2007 GMC Sierra Classic
2002-2006 Cadillac Escalade, ESV, EXT
2000-2006 Chevrolet Avalanche, Suburban, Tahoe
2000-2006 GMC Yukon, Yukon Denali, Yukon XL, Yukon Denali XL
2002-2007 Chevrolet Trailblazer Models
2002-2007 GMC Envoy Models
2004-2007 Buick Rainier
2005-2007 Saab 9-7X
1998-2004 Chevrolet S/T Classic Blazer and S10 Pickup
1998-2004 GMC S/T Classic Jimmy and Sonoma
1998-2007 Oldsmobile Bravada
2003-2006 Chevrolet SSR



This PI Being Updated To Add Additional Model Years. Please Discard PI02080.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern:

A replacement HVAC actuators is inoperative or that has worked one time and quit. The HVAC control head learns the stopping points based on how far the HVAC DOOR travels. If the actuator reaches the mechanical stops on the back of the actuator it will be outside of the range that the HVAC control head can learn. If the actuator was not mounted to the HVAC case prior to plugging in its connector, the actuator will go out of range and be inoperative.

Recommendation/Instructions:

Always attach the HVAC actuator to the case before installing the electrical connector.

If an actuator is out of range it may be possible to bring it back into range by following the procedure below:

- Turn ON the ignition, with the engine OFF.

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- Connect a 3 amp fused jumper wire between the actuator control circuit and the 5 volt reference circuit of the actuator connector.
- Remove the jumper wire and actuator connector when the actuator is at the center position.
- If the actuator doesn't move in step 2. Try installing the jumper wire from control circuit and the ground circuit of the actuator.
- With the actuator in the center position, install the actuator to the hvac case and secure the mounting screws and then connect the actuator connector.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

GM bulletins are intended for use by professional technicians, NOT a ""do-it-yourselfer"". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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