HONDA

ServiceNews Article

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Poor Airflow or Cooling After Extended Highway Driving With A/C On

Currently Applies To: All models with A/C

Got a vehicle in your shop for a complaint of poor airflow from the vents, poor cooling, or both, after extended highway driving with the A/C on? This can be a hard one to duplicate—not to mention troubleshoot—so here's a handy procedure that can help make that job go a little easier:

- 1. Park the vehicle indoors where the A/C condenser has free airflow. To simulate driving conditions, try running a large fan placed as close as possible in front of the vehicle.
- 2. Insert a thermocouple or electronic thermometer in the center vent so you can monitor the center vent temperature from outside the vehicle.
- 3. Start the engine, and use an accelerator pedal jack to set the engine speed between **1,500 and 2,000 rpm**.
- 4. Turn on the A/C, and set it to its lowest temperature and highest fan speed in RECIRC mode. Then close the hood and all the doors. (A cool interior will cause the A/C compressor and the radiator and condenser fans to cycle more often than normal.)
- 5. Monitor the center vent temperature.
 - If the center vent temperature stays **below 34**° **F**, follow normal system troubleshooting in the applicable S/M or in ISIS.
 - If the center vent temperature fluctuates while you're running the test, the expansion valve could be internally freezing and thawing due to moisture in the A/C system. Hook up the R-134a refrigerant recovery/recycling/charging station, and check for a vacuum on the low-pressure side. The pressure will gradually go negative as the moisture freezes and then positive as it thaws. If needed, recover the refrigerant and then pull a deep vacuum (about 500 microns) on the system.
- 6. Rerun this test to check your work.
 - If the center vent temperature is now OK, you're done with this repair.
 - If the center vent temperature is still not right, then continue with normal system troubleshooting.