



## TECH TIPS AND ARTICLES

## '03 ONWARDS TOWN CAR EATC SELF TEST

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### Electronic Automatic Temperature Control Module Self-Test

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- The EATC module self-test will not detect concerns associated with data link messages like engine coolant temperature or vehicle speed signals. A scan tool must be used to retrieve these concerns.
- The EATC module self-test will detect concerns in the system control functions and will display hard diagnostic trouble codes (DTCs). Hard DTC's identify faults which are present during the self- test. The vehicle interior/ambient temperature should be between 4-32°C (40-90°F) when carrying out the self-test. If the temperatures are not within the specified ranges, false temperature sensor DTCs will be displayed.
- The self-test can be initiated at any time. Normal operation of the system stops when the self-test is activated.
- To enter the self-test, press the OFF and FLOOR buttons simultaneously and then press the AUTO button within 2 seconds. The display will show the fan speed indicator illuminating from low to high. The test may run as long as 30 seconds. Record all DTCs displayed.
- If any DTCs appear during the self-test, follow the diagnostics procedure given under ACTION for each DTC given.
- If a condition exists but no DTCs appear during the self-test, refer to the Symptom Chart Condition: The EATC System Is Inoperative, Intermittent or Incorrect Operation.
- To exit the self-test and clear all DTCs, press the FRONT DEFROST button. The EATC control assembly will then turn OFF (display blank) and all DTCs will be cleared.
- Always exit the self-test before powering the system down (system turned OFF).

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### Electronic Automatic Temperature Control Module — Display Continuous Codes

- This function will display continuous (intermittent) codes and hard faults that occur during normal operation.

- To display continuous codes, press the OFF and FLOOR buttons simultaneously and then release and within 2 seconds press the RECIRC button.
- To exit the display of continuous codes, press the FRONT DEFROST button. This will exit and clear all DTCs. Press any button except DEFROST to exit without clearing DTCs set before the last ignition cycle.
- Always exit continuous codes display before powering the system down (system turned off).
- Continuous DTCs are saved only after an ignition cycle.
- Continuous DTCs will be deleted after 80 ignition switch ON cycles after the intermittent condition occurs.

### **Rear Redundant Control Module (RRCM) Diagnostic Trouble Code (DTC) Index**

<b>DTC</b>	<b>Description</b>	<b>Action</b>
B113D	Rear climate control switch stuck	INSTALL a new rear climate control switch. TEST the system for normal operation.
B113E	Rear climate control switch circuit short to ground	Go To Pinpoint Test O.
B113F	Rear climate control switch circuit short to battery	Go To Pinpoint Test P.
U1178	SCP (J1850) Invalid or missing data for climate control	REFER to Section 418-00 to diagnose a network concern.

### **ELECTRONIC AUTOMATIC TEMPERATURE CONTROL (EATC) MODULE DIAGNOSTIC TROUBLE CODE (DTC) INDEX**

<b>DTC</b>	<b>EATC Self-Test Faults</b>	<b>Description</b>	<b>Action to take</b>

B2266	2266	Driver side blend door failure or short	Go To Pinpoint Test A.
B2267	2267	Passenger side blend door failure or short	Go To Pinpoint Test A.
B1251	1251	In-vehicle temperature sensor open circuit	Go To Pinpoint Test B.
B1253	1253	In-vehicle temperature sensor short to ground	Go To Pinpoint Test B.
B1255	1255	Ambient temperature sensor open circuit	Go To Pinpoint Test C.
B1257	1257	Ambient temperature sensor short to ground	Go To Pinpoint Test C.
B1259	1259	A/C solar radiation sensor open circuit	Go To Pinpoint Test D.
B1261	1261	A/C solar radiation sensor circuit short to ground	Go To Pinpoint Test D.

B1242	1242	Recirc door short / failure	Go To Pinpoint Test E.
B1263	1263	Panel / defrost door short / failure	Go To Pinpoint Test F.
B1264	1264	Floor door short / failure	Go To Pinpoint Test F.
B2268	2268	Steering wheel auxiliary control switch open circuit	If vehicle is not equipped with steering wheel control switches, ignore this code and continue diagnosis. If vehicle is equipped with steering wheel control switches, Go To Pinpoint Test G.
B2269	2269	Steering wheel auxiliary control switch circuit short to ground	Go To Pinpoint Test G.
U1040	1040	SCP invalid or missing data for function read vehicle speed	If DTCs are present in the powertrain control module (PCM), REFER to Powertrain Control/Emissions Diagnosis (PC/ED) manual and diagnose the DTCs. If DTCs are present in the instrument cluster, REFER to Section 413-01 and diagnose the DTCs. If this DTC is only present in the EATC module, ignore code and continue diagnostics.
U1073	N/A	SCP invalid or missing data for engine coolant	If DTCs are present in the powertrain control module (PCM), REFER to Powertrain Control/Emissions Diagnosis (PC/ED) manual and diagnose the DTCs. If DTCs are present in the instrument cluster, REFER to Section 413-01 and diagnose the DTCs. If this DTC is only present in the

			EATC module, ignore code and continue diagnostics.
U1112	1112	SCP invalid or missing data for interior lamps	GO to Section 417-02, Inspection and Verification to continue diagnosis.
B1342	1342	Module faulted	Button held too long may set DTC. Attempt to clean buttons. If code returns, INSTALL a new EATC module. REFER to Section 412-01.
B1200	1200	Stuck button	INSTALL a new EATC module. REFER to Section 412-01.
B2477	2477	Module not configured — LHD only	CONFIGURE the EATC module. REFER to Section 418-01.
B1676	1676	Voltage out of range	Go To Pinpoint Test H.

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