



**NUMBER:** 24-008-04

**GROUP:** Heating & Air  
Conditioning

**DATE:** December 18, 2004

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***SUBJECT:***

DTC's Are Incorrectly Displayed By Manual Temperature Control Module

***OVERVIEW:***

This bulletin discusses the incorrect display of the climate control diagnostic trouble codes by the Manual Temperature Control (MTC) module.

***MODELS:***

2005                      (WK)                      Grand Cherokee

**NOTE: This bulletin applies to vehicle equipped with a Manual Temperature Control (sales code HAA) built prior to November 28, 2004 (MDH 1128XX).**

***DISCUSSION:***

The Manual Temperature Control (MTC) module, on some early built vehicles, may have software that will display the wrong numeric value for a diagnostic trouble code (DTC). The MTC is not connected to the CAN bus and is not addressable with a scan tool. The MTC module DTC's must be obtained by manually manipulating the MTC front controls (see Entering Display DTC Mode - MTC System in the 2005 Grand Cherokee Technical Information available on TechCONNECT). Each numeric value for the respective DTC is displayed by the MTC by flashing the A/C mode switch LED.

The MTC will display, via the A/C mode switch LED, a numeric code that will consist of two digits. The numeric code will have a tens digit and it will have a ones digit. The ones digit is incorrectly displayed. As an example: a true DTC 47 - Recirc Door Bound will be incorrectly displayed by the MTC module as a "46" fault code, or the MTC module will incorrectly display a "2" fault code when the true fault is a DTC 21 - Blend Door Range Too Large.

**This condition will occur with MTC modules having part number 55111009AF.**

**NOTE: MTC modules are not to be replaced because of this condition. Use the following table to properly identify any DTC's displayed in the MTC for the subject vehicles.**

The following table shows both the incorrectly displayed DTC numeric value along with the corresponding correct DTC value that is published in the service information in TechCONNECT and its description:

MTC Displayed DTC (wrong)	Published TechCONNECT DTC (correct)	Description
1	11	MODE POT OPEN
11	12	MODE POT SHORTED
12	13	TEMP POT OPEN
13	14	TEMP POT SHORTED
17	18	BLEND DOOR RANGE TOO SMALL
2	21	BLEND DOOR RANGE TOO LARGE
21	22	FRONT MODE DOOR RANGE TOO SMALL
22	23	FRONT MODE DOOR RANGE TOO LARGE
23	24	REAR MODE DOOR RANGE TOO SMALL
24	25	REAR MODE DOOR RANGE TOO LARGE
3	31	EVAPORATOR SENSOR OPEN
31	32	EVAPORATOR SENSOR SHORTED
32	33	A/C MODE SWITCH STUCK
33	34	EBL MODE SWITCH STUCK
34	35	FAILED COOL DOWN
35	36	EEPROM CHECKSUM ERROR
36	37	ROM CHECKSUM ERROR
4	41	FRONT MODE OVERCURRENT
41	42	REAR MODE OVERCURRENT
42	43	BLEND OVERCURRENT
43	44	RECIRC OVERCURRENT
44	45	BLEND DOOR BOUND
45	46	FRONT MODE DOOR BOUND
46	47	RECIRC DOOR BOUND
47	48	REAR MODE DOOR BOUND
5	51	RECIRC DOOR RANGE TOO SMALL
51	52	RECIRC DOOR RANGE TOO LARGE
52	53	FRONT MODE DOOR LINKAGE BROKEN
53	54	REAR MODE DOOR LINKAGE BROKEN
54	55	BLEND DOOR LINKAGE BROKEN
55	56	RECIRC DOOR LINKAGE BROKEN
6	61	CONNOR DOOR DRIVER CIRCUIT SHORTED TO GROUND

61	62	COMMON DOOR DRIVER CIRCUIT SHORTED TO IGNITION
62	63	FRONT MODE DOOR DRIVER CIRCUIT SHORTED TO GROUND
63	64	FRONT MODE DOOR DRIVER CIRCUIT SHORTED TO IGNITION
64	65	REAR MODE DOOR DRIVER CIRCUIT SHORTED TO GROUND
65	66	REAR MODE DOOR DRIVER CIRCUIT SHORTED TO IGNITION
66	67	BLEND DOOR DRIVER CIRCUIT SHORTED TO GROUND
67	68	BLEND DOOR DRIVER CIRCUIT SHORTED TO IGNITION
68	69	RECIRC DOOR DRIVER CIRCUIT SHORTED TO GROUND
7	71	RECIRC DOOR DRIVER CIRCUIT SHORTED TO IGNITION
71	72	SHORT TOO COMPLEX
72	73	A/C REQUEST OUTPUT SIGNAL TOO HIGH
73	74	A/C REQUEST OUTPUT SIGNAL TOO LOW
74	75	A/C REQUEST OUTPUT SIGNAL HIGH WHEN DRIVEN LOW
75	76	A/C REQUEST OUTPUT SIGNAL LOW WHEN DRIVEN HIGH
76	77	EBL OUTPUT SHORTED HIGH
8	81	BLOWER NOT ON HIGH AT START OF COOL DOWN TEST
81	82	SENSOR TOO COLD TO START COOL DOWN TEST
82	83	SENSOR FAILED OPEN DURING COOL DOWN TEST
83	84	SENSOR FAILED SHORTED DURING COOL DOWN TEST
84	85	BLOWER NOT ON HIGH DURING COOL DOWN TEST

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