

Actuator Check

The control panel, system actuators and certain components can be checked by simultaneously holding AUTO and FRESH / RECIRC while the vehicle is being started.

Control Panel

All of the panel control LEDs and LCD segments will flash on and off to indicate that each panel circuit is OK. If a LED does not flash, a fault condition in that area of the panel is indicated, or the LED has failed. If a LCD segment does not flash, a fault condition in that area of the panel is indicated, or the LCD segment has failed.

Actuators and Components

Check the actuators by selecting AUTO, then FRESH / RECIRC. Select FACE to cycle through the actuator mode conditions 20 – 27 as shown in the following table. After the check is complete, select PUSH OFF to restore normal system operation.

Actuator Check Chart

Mode	Blower level	Face	Outlet: Foot	Defrost	Cool Air bypass	Fresh / recirc	Compressor	Heater valve	Heater pump
20	0	open	closed	closed	closed	fresh	OFF	closed	OFF
21	1	open	closed	closed	closed	fresh	OFF	closed	ON
22	10	open	closed	closed	open	1/2 open	A/C ON	closed	ON
23	17	bleed	1/2 open	closed	1/2 open	1/2 open	A/C ON	6 sec. pulse*	ON
24	17	bleed	1/2 open	closed	closed	recirc	A/C ON	6 sec. pulse*	ON
25	23	closed	open	bleed	closed	recirc	A/C ON	open	ON
26	23	closed	1/2 open	1/2 open	closed	recirc	A/C ON	open	ON
27	31	closed	closed	open	closed	open	A/C ON	open	ON

* The heater valve operates on a 6 second pulse (3 seconds ON, 3 seconds OFF)

Control Panel Diagnostic Monitoring

The A/CCM can determine incorrect data by the absence of a minimum number of “high” and “low” bits in each data “block” received or sent. The A/CCM continuously checks the data flow between the A/CCM and the control panel. If consistent incorrect data is detected, a DTC is flagged.

EXERCISE

Perform the Actuator Check above on the assigned vehicle. Record any faults below.

OBD II DTCs	Control Panel Code