

# Tech Tip



*From your friends at New York Bus Sales*

## Blue Bird Vision w/Stoneridge Dash and 2007 Emissions CAT or Cummins Engines

**Complaint -** The Unit Is Displaying a “CHECK ENGINE” Light Followed By an Audible “BEEP”

**Cause / Correction** There has been a failure of sorts with the engine which cause the light to be activated. There of course is programming which is run through a laptop which is used by certified repair facilities to see what the code is BUT there is also the option of gaining access to the code through the dash of the unit. Below are the steps to get the code so that you might repair at your facility or so you have the code to explain when you call for service-

**PLEASE NOTE –** Vehicle should be parked and brakes set, key should be turned to the “on” position and should you have problems or get to a point that you cannot get exactly where you want to go the key can be cycled off and on again to restart the process.

**Step #1 –** Seated in the driver’s seat you will notice the “LCD” screen in the center of the dash which is shown in Figure #1 with the icon for the “check engine”. There also is a light on the gauge portion below the fuel gauge which will illuminate.

**Step #2 –** Locate the 3 buttons on the wiper stalk located on the right side of the steering column as shown in Figure #2

**Button #1 – Escape**

**Button #2 – Enter**

**Button #3 – Scroll**



**Figure #1**



**Figure #2**

**Step #3 – Pressing button #2 once will change the LCD to read as in Figure #3, then pressing button #3 down you will come to the “DIAGNOSTICS” line as shown in Figure #4.**



**Figure #3**



**Figure #4**

**Step #4 – Press button #2 and you will be taken to the next screen where “Fault Diagnostics” will appear as in Figure #5 and pressing button #2 will take you to the listing of electronic controls where you want to choose “Engine ECM” and again press #2**



**Figure #5**



**Figure #6**

**Step #5 – Finally you will have reached the listing which contains the fault code and other important information that will help in the diagnostic procedure and repair. It will tell you if the code is active or in-active as well as how many times the engine has had the code.**



**Figure #7**

Step #6 – Now you can read the code. There are 2 sections to the coding, one being the “SPN” and the other being the “FMI”. Codes for BOTH CAT and Cummins use this format and there are 2 separate code listings which are attached. The engine on the unit used for this has a CAT and as you read the code as shown in Figure #7 you see the SPN=652 and the FMI=7 – Reading from the Quick Reference for CAT (Figure #8) you see the issue is with #2 Injector.

J1939 SPN-FMI	PID/SID-FMI	Diagnostic Code Description
652-6	2-6	Engine Injector Cylinder #02: Current Above Normal
652-7	1-7	Cylinder #2 Injector Not Responding
653-2	3-2	Engine Injector Cylinder #03 Erratic, Intermittent, or Incorrect

**Figure #8**

**PLEASE NOTE:** With the attachments for BOTH Cummins and CAT attached you will see that CAT has a direct cross to the SPN-FMI numbers whereas Cummins does not. In the attachment of the Cummins codes to the right you will see numbers hand written in which are the listings thus far that we have been able to cross....the first number is the “SPN” and the second is the “FMI”. We will update and we will make that easier to read in the near future.



**Contact Our Service Department With Any Questions**

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