TT396: 1125R Instrument Cluster Software Changes

November 24, 2008

Electrical

APPLIES TO	SYMPTOMS
2008 Buell 1125R Models	• Intermittent or Erratic Electrical Operation • Part Availability, Installation or Fitment Updates

1125R Instrument Cluster Software Changes

Buell 1125R models with symptoms of excessive battery draw while parked may require an instrument cluster replacement. A software issue was identified that can keep the security system awake, causing excessive key-off battery draw. The affected clusters were installed on 1125R models produced from October 29, 2007 to May 16, 2008.

If you are diagnosing a parasitic draw complaint, complete normal charging system checks, and key-off draw tests, to verify system function. It can be very difficult to verify a draw because the issue is likely to be intermittent. Keep in mind that ALL batteries if not charging are discharging. Be sure to distinguish between normal battery drain over time, and abnormal parasitic draw.

After verifying that the vehicle's charging system and battery are within specification, it will be necessary to verify the instrument cluster software level.

Early instrument clusters only display the software level on the rear of the module. (see image below) A software version of 5.1.1 includes upgrades to prevent the abnormal draw and should NOT be replaced for draw related issues.

If you are unable to locate a draw on the vehicle and the cluster software version is below 5.1.1, i.e. 4.1, 4.2, 4.3..., the instrument cluster should be replaced.
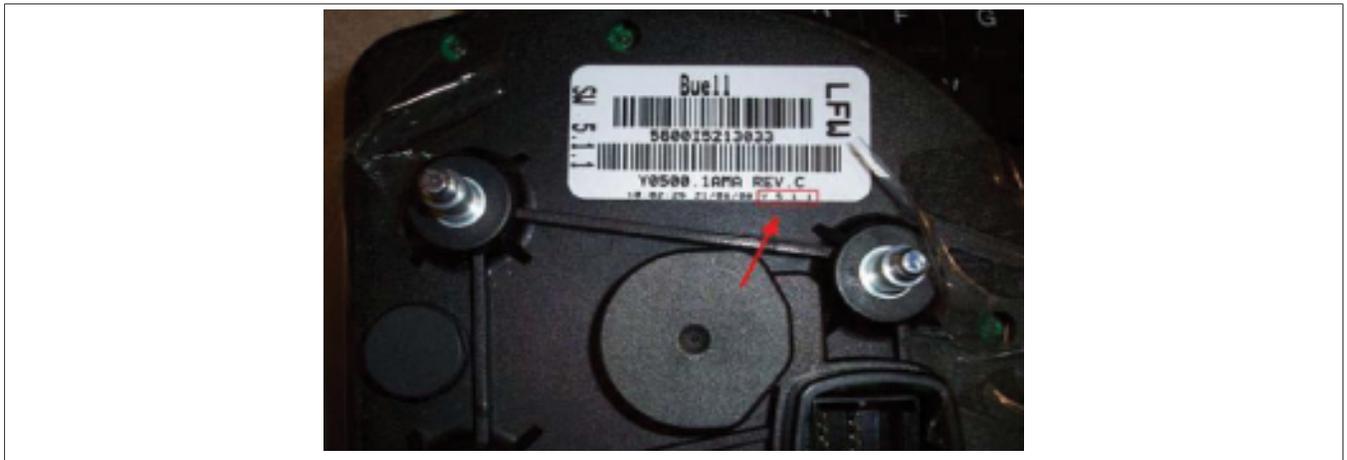
Figure 1.

Later instrument clusters allow you to verify software level on-board via the diagnostic menu. To get into the diagnostic menu, key-on while holding the Toggle and Mode buttons simultaneously. A quick reminder though that if the instrument cluster is new and has not yet been powered up for 30 minutes to synchronize, you can NOT enter the diagnostic menu. The last screen of Live Data items will be the software level. (see image below)

**Figure 2. A Software Level of 6.0**
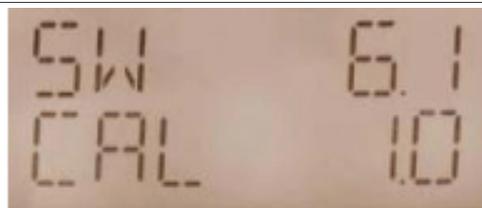
Figure 3. A Software Level of 6.1

Inaccurate Low Fuel Warning Light

Verify the software version as well if you are diagnosing inaccurate low fuel warning lights. Issues were identified with the Software Version 5.1.1 and 6.0 that could lead to a low fuel light coming on intermittently with adequate fuel levels.

Follow the Diagnostic Flow Chart in the Electrical Diagnostic Manual for the correct diagnostic path. Note: there is a misprint in both the MY08 & MY09 electrical diagnostic menu for the Low Fuel Light Always On flow chart. When measuring the resistance between terminals D and A of the fuel pump connector [86B], the resistance measured should be between 850-1400 ohms.