



Service Update

SU2202

Cluster Software Improvement

Models Affected: Certain 2022-2023 Model Year Blue Bird Vision (BBCV) buses equipped with the new electrical architecture (NEA) or electric powertrain.

Subject: This update provides information on a cluster software improvement to address symptoms of above acceptable parasitic battery loss attributed to CAN devices not going to sleep. This symptom is occasionally accompanied by the cluster flashing on/off on an approx. 3-minute frequency. Additionally, cluster initialization re-cycle has been observed while driving under very specific conditions. Blue Bird and Ametek have developed a cluster software improvement to address these concerns.

Affected Clusters: Part numbers 10072293, 10072294, and 10073741.

WARNING: Always follow all Federal, State, Local and Shop safety standards and use proper safety equipment, and thoroughly read and understand all instructions before performing these procedures. Park bus on level surface, apply parking brake, turn off ignition key, and chock wheels.

Instructions:

Step 1: Verify Cluster is CAN based. See Fig 1 & 2

Step 2: Verify installed software version has an update available-

- 104893-201_V3.2 (10072293/94) or older for combustion engine applications
- 104893-203_V1.0 (10073741/42) or older for EV applications

Step 3: Download the latest version of cluster software from vantage

Step 4: Install cluster software. Click [HERE](#) for download instructions

Step 5: Measure parasitic battery loss per Fig 5/6. Verify measured value is within 5% of Fig 3/4. If outside limits, enter a support ticket via vantage for field service to engage

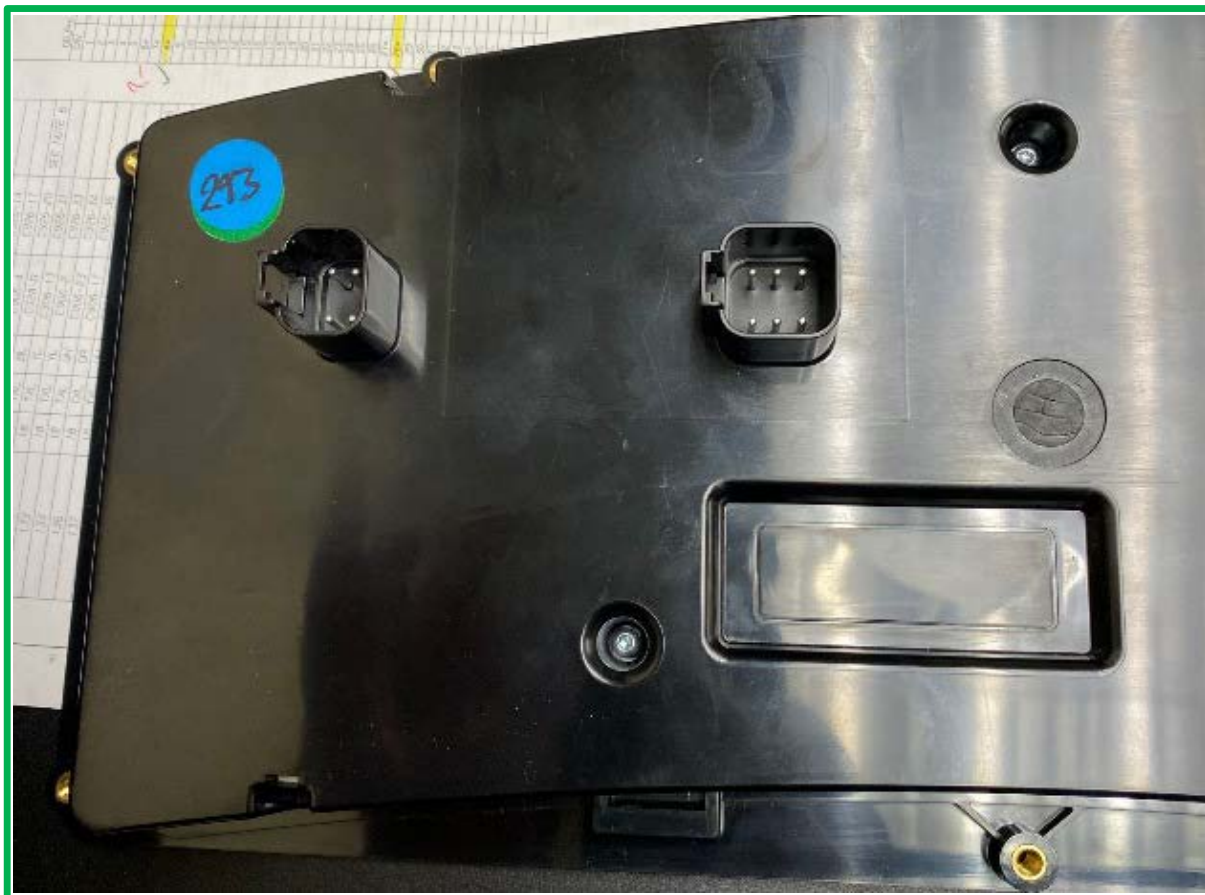


Fig 1

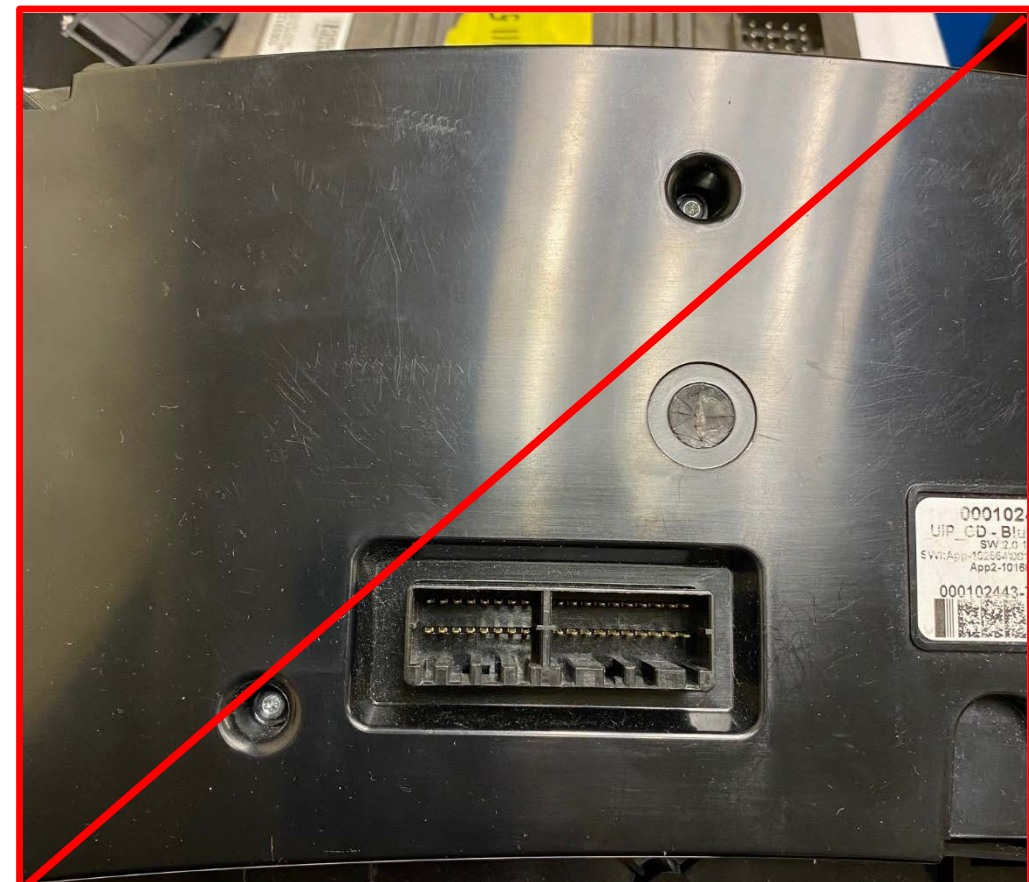


Fig 2



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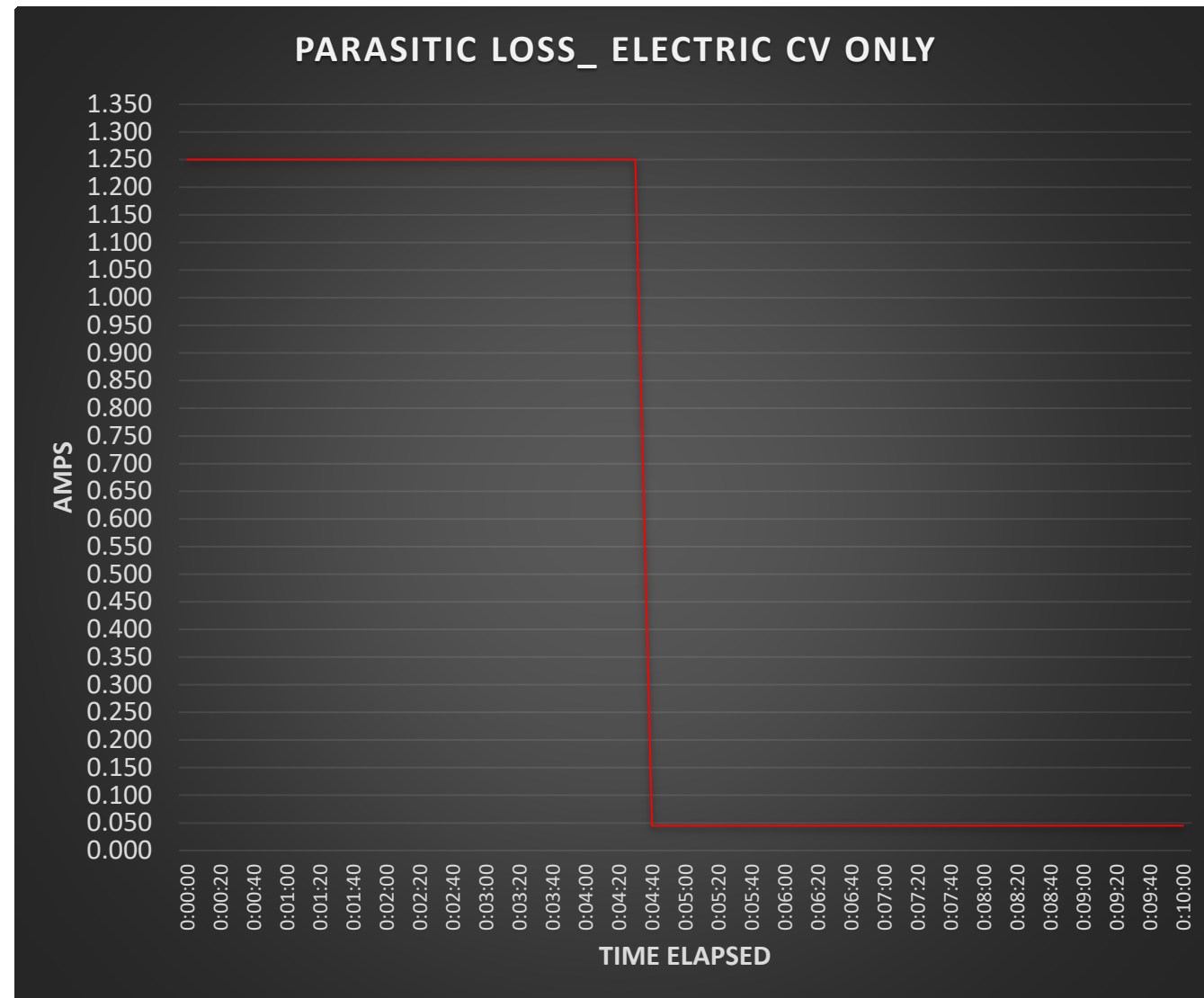


Figure 3

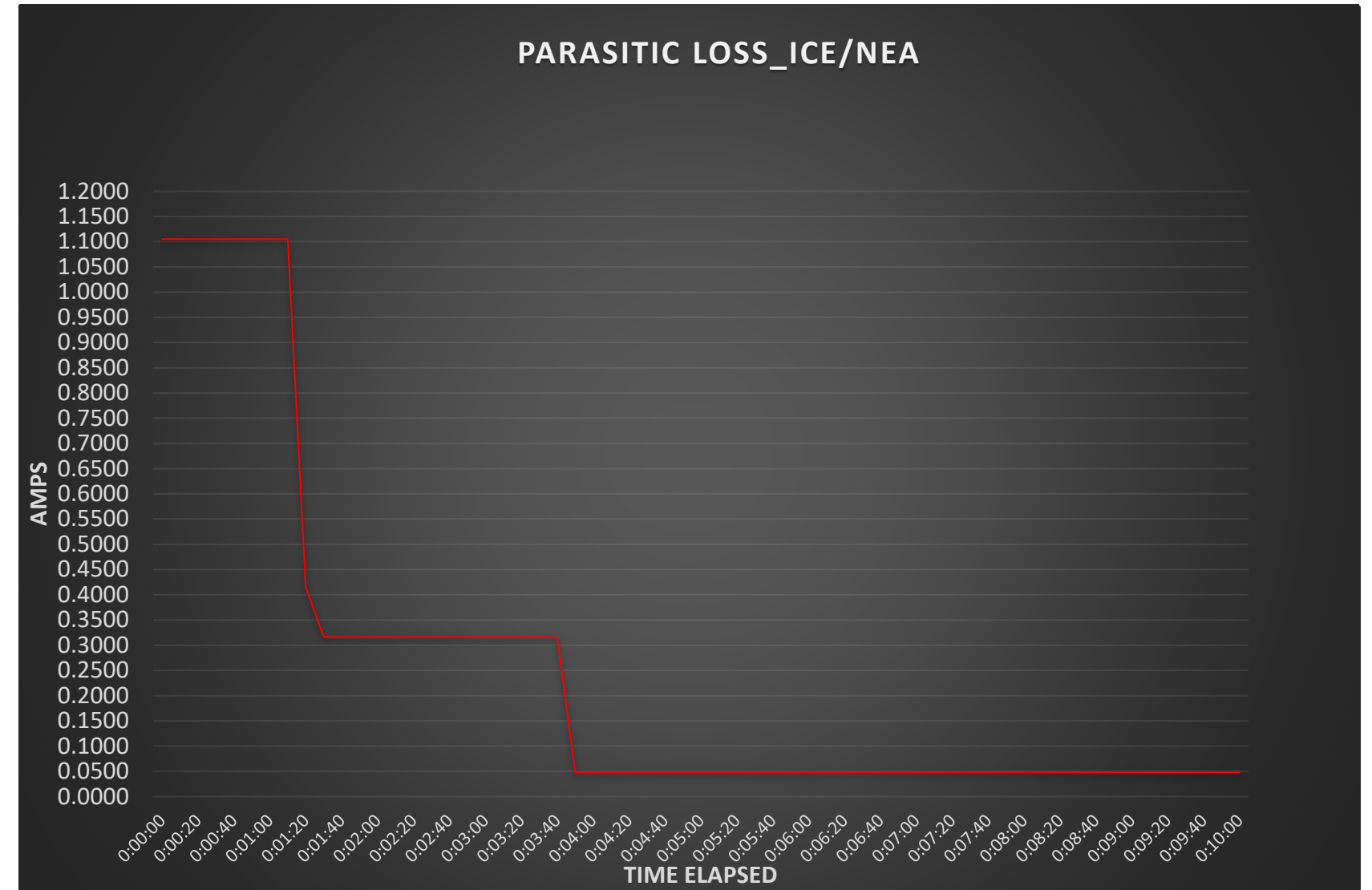


Figure 4

Parasitic Draw Test:

Disconnect negative battery cable from the battery bank. Set DVOM to AMPS(DC) and install in series. Advise to use large jaw clamps as the connections will need to be constant for ~10 minutes.



Figure 5- Disconnect negative terminal



Figure 6- Install DVOM in series