

Hello Idle Free Technician,

Our June edition of Tech Tips will highlight two topics; securing batteries and our new diagnostic tool.



Battery Hold-down Bar and Bolts

Image 1 below depicts the bottom portion of a series 1000 eAPU (side view). This area of the Series 1000 eAPU is where the AGM batteries are housed and secured by a hold-down bar (image 2) and 5 bolts (image 3).

Every time you work on an eAPU, check to make sure all 5 bolts are in place and tight. History indicates these bolts may loosen over time causing the batteries to shift and damage the battery interconnect cables.

If the bolts are loose or missing, apply Loctite 248 (blue) to the bolt threads (image 3) and torque each bolt in sequence (image 1) to 50 in-lbs, plus an additional ½ turn (image 1). The bolt heads are located on the bottom of the APU making this a quick and easy check.

STEP 6-e Use torque wrench with 1/2 hex socket to first set cap screws in this sequence A, B, C, D, E to 50 in-lbs., then an additional 180 degree turn on each screw.

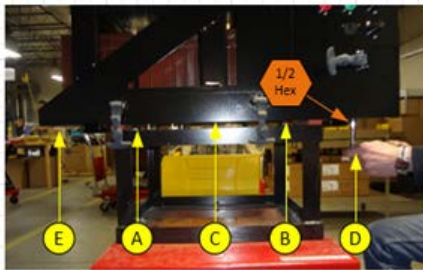


Image 1

STEP 5-a Insert battery hold down (1) with tabs on top from bulkhead end. Adjust end battery position to have equal clearance for both sides.



Image 2

STEP 5-b Select 5 cap screws (2) and install an SAE washer (3) onto each one, as shown below, then apply Loctite 248 (4) to each bolt for half of the thread length. Start all bolts by hand.

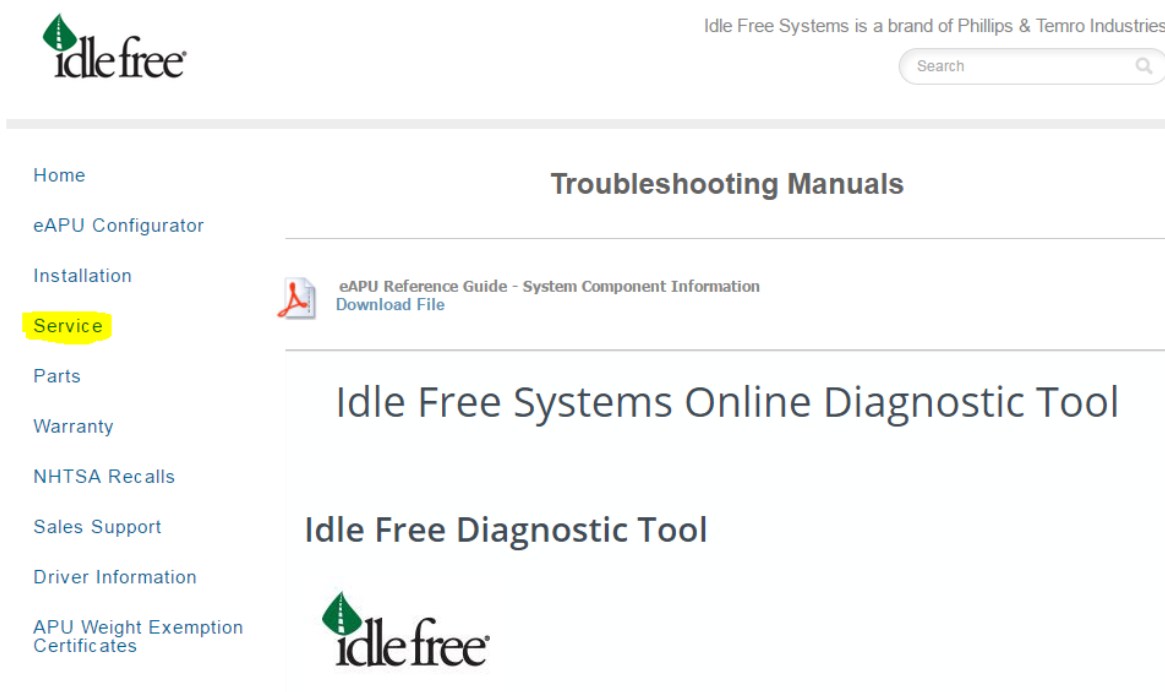


Image 3

new Diagnostic Tool

In the dealer portal, click on SERVICE, and then TROUBLESHOOTING. This will direct you to our new, interactive diagnostic tool. Use this tool to quickly arrive at root cause issues with our eAPU products.

When you have finished using the tool please complete the feedback form. This information will help us make the tool even better.

A screenshot of the Idle Free Systems website. The top left features the "idle free" logo. The top right states "Idle Free Systems is a brand of Phillips & Temro Industries" and includes a search bar. A left sidebar lists navigation links: Home, eAPU Configurator, Installation, Service (highlighted in yellow), Parts, Warranty, NHTSA Recalls, Sales Support, Driver Information, and APU Weight Exemption Certificates. The main content area is titled "Troubleshooting Manuals" and contains a link for "eAPU Reference Guide - System Component Information" with a "Download File" button. Below this, the "Idle Free Systems Online Diagnostic Tool" is prominently displayed, followed by the "Idle Free Diagnostic Tool" section which includes the "idle free" logo.

As always, our technical support team is available to help you with any issues or questions you have. Please call us at (920) 206-9333 or email us at techsupport@idlefreesystems.com