

**DATE:** 11/28/2023

**TO:** Thomas McKegney  
Paul Vaughn  
Justin Lamar  
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**FROM:** Seth Kenney

**RE:** KIRA CV60/1 Field Service Programming Instructions Rev 3

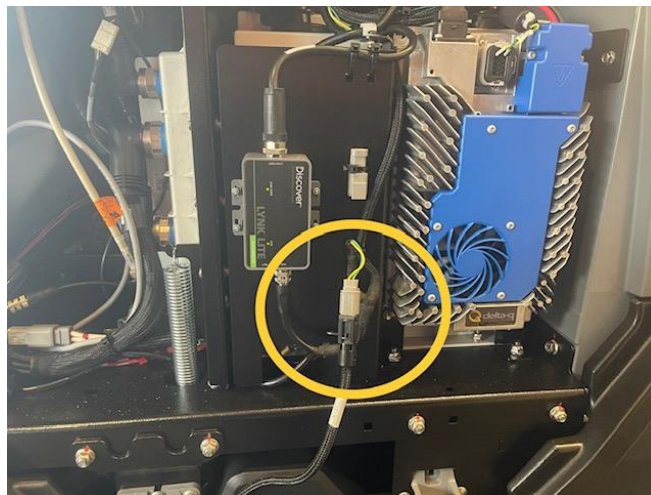
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This memo details the process for updating the firmware on the Kira CV60/1. This does not cover process for updating the Deluxe CV60/1 (see [Deluxe CV60/1 Field Service Programming Instructions.pdf](#))

This document is supporting documentation for detailing programming instructions for CV60/1 machines that will be used with the Karcher Machine Interface Suite.

### **Updating Firmware**

1. Turn on the main breaker and reset the e-stop. Turn the key switch off.
2. Connect the service harness (8.645-398.0) to the service port (B-C32) inside the left door (see figure 16).



[Figure 16: B-C32 - Service Harness Connected to the Service Port]

3. Connect the PEAK USB CAN tool (8.645-399.0) to the service harness and computer.
4. From the main Karcher MIS menu make sure CV60/1 is selected in the drop-down box.
5. Make sure that CV60/1 is selected in the drop-down box and verify that the "PEAK 81" tool is recognized by the program. Press Connect (see figure 17).

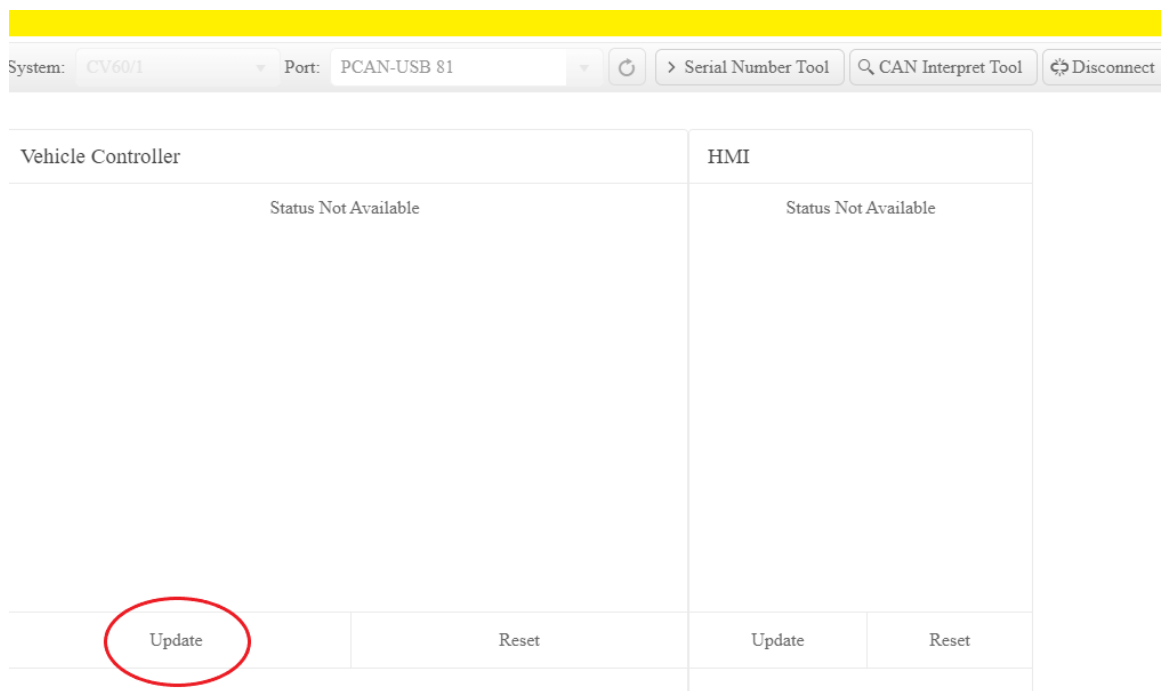
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[Figure 17: Connect the PEAK USB CAN Tool in Software]

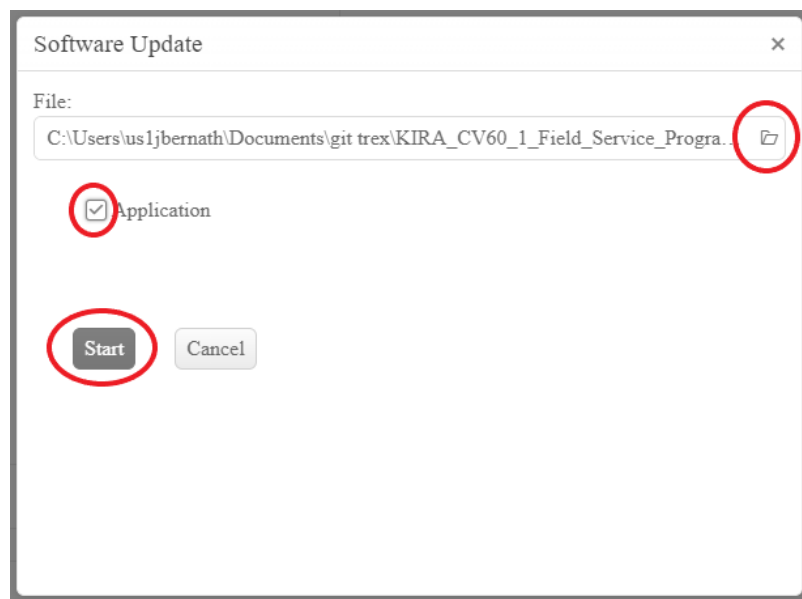
6. In the Vehicle Controller Pane, select Update (see figure 18).



[Figure 18: Vehicle Controller Update ]

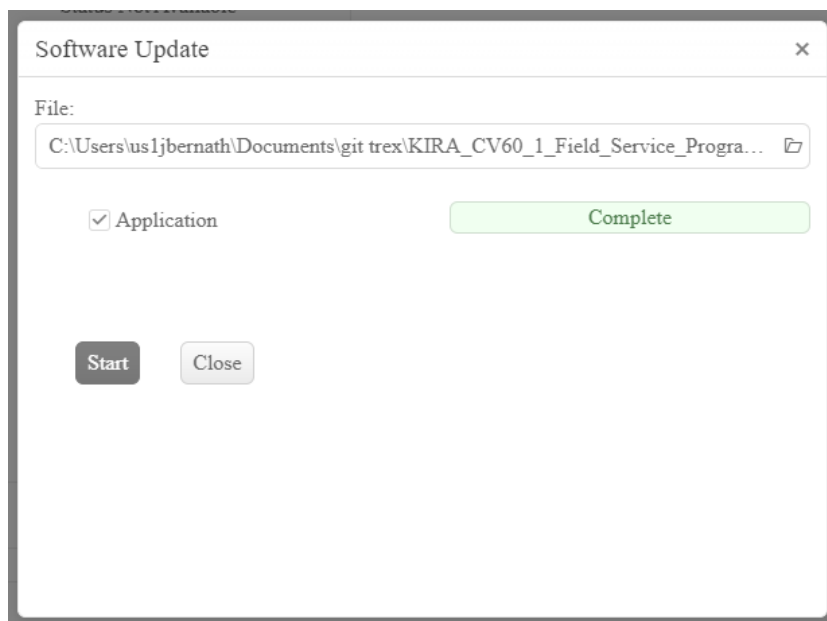
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7. In the File: dialog box file (see figure 19), open the following.  
*Karcher-MIS-main\Karcher-Floor-Care-Karcher-MIS-xxxxxxx\Trex\_Firmware\Trex\_VCM\_Application\_3\_4\_13\manifest.json*
8. Check the Application box (see figure 19).
9. Press Start (see figure 19).



[Figure 19: Program VCM ]

10. If programming was completed successfully, "Complete" will be displayed in the progress bar (see figure 20).



[Figure 20: Successful Programming Message]

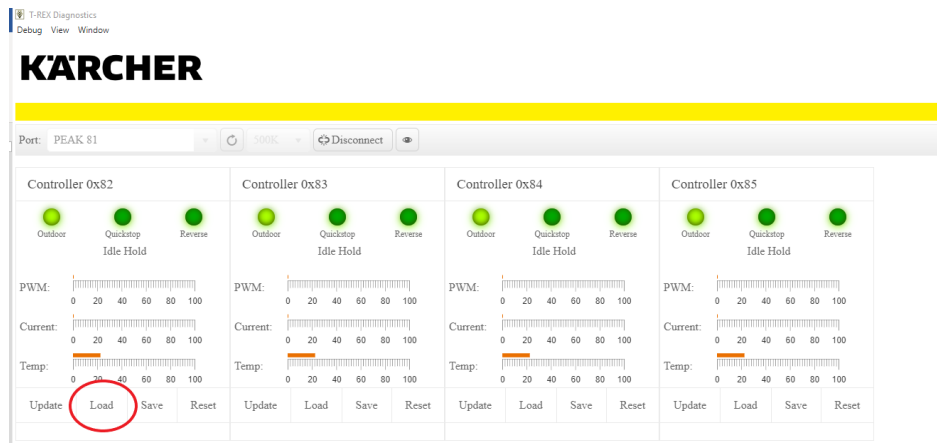
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11. Turn the key switch on.
12. Select Load in the Controller 0x82 Pane (see figure 21) and open the following.

Karcher-MIS-main\Karcher-Floor-Care-Karcher-MIS-xxxxxxx\TREX Firmware\Trex\_DMC Configurations\_3\_4\_13\SWEE000340B\_EE\_59\_tract\_82.ee

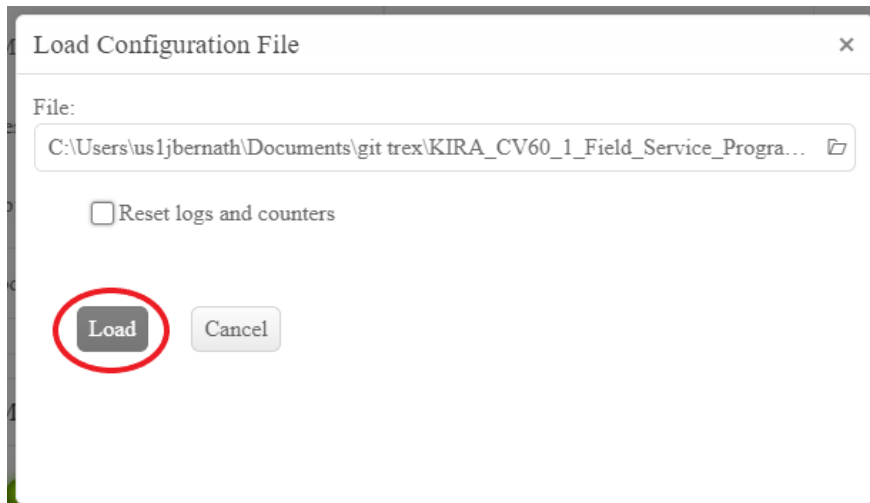
**Warning: The controllers are not always displayed in order from lowest to highest.**

**Each controller must be programmed with the correct setting.**



[Figure 21: Motor Controller Load]

13. Press Load (see figure 22).



[Figure 22: Load Motor Controller Settings]

14. If programming was completed successfully "Configuration loaded from file" will be displayed in the lower right corner (see figure 23). Ignore the error message.

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⊗ Error inspecting Controller 0x82: No response was received from the slave in the specified time.

✓ Configuration loaded from file

[Figure 23: Successful Programming Message]

15. Repeat step 11-14 for Controller 0x83, Controller 0x84 and Controller 0x85. Use the following files for each.

### **Controller 0x83**

Karcher-MIS-main\Karcher-Floor-Care-Karcher-MIS-xxxxxxx\Trex Firmware\Trex DMC Configurations 3 4 13\SWEE000341B EE 59 br ush 83.ee

### **Controller 0x84**

Karcher-MIS-main\Karcher-Floor-Care-Karcher-MIS-xxxxxxx\Trex Firmware\Trex DMC Configurations 3 4 13\SWEE000342B EE 59 va c 84.ee

### **Controller 0x85**

Karcher-MIS-main\Karcher-Floor-Care-Karcher-MIS-xxxxxxx\Trex Firmware\Trex DMC Configurations 3 4 13\SWEE000343B EE 59 si de br 85.ee

16. The Firmware has been successfully updated.

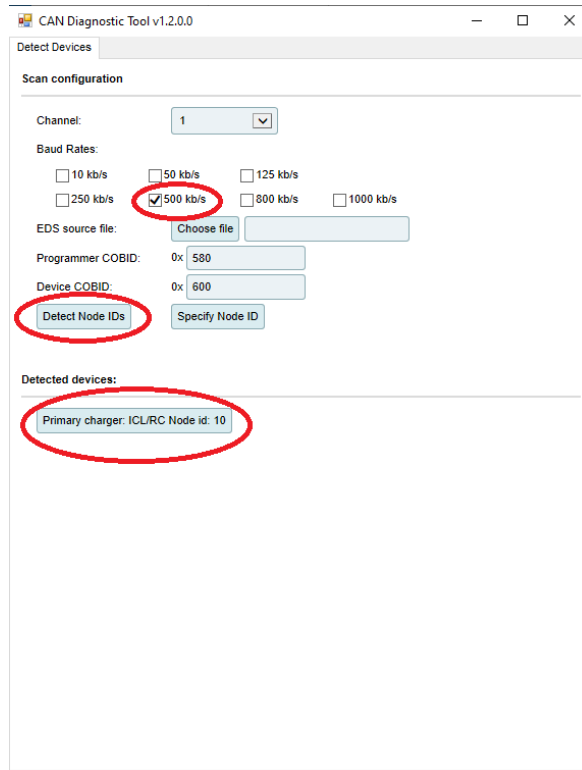
## **Updating Charger Configuration**

17. Turn off the main breaker and turn the key switch off.
18. Plug the charger into AC power.
19. Connect the service harness (8.645-398.0) to the service port (B-C32) inside the left door (see figure 16).
20. From the Charger CAN Diagnostics tool v1.2.0 package that was downloaded by clicking the "Download Documentation" button open the following:

Karcher-MIS\Charger CAN Diagnostics tool v1.2.0\RC1\CAN Diagnostic Tool.exe

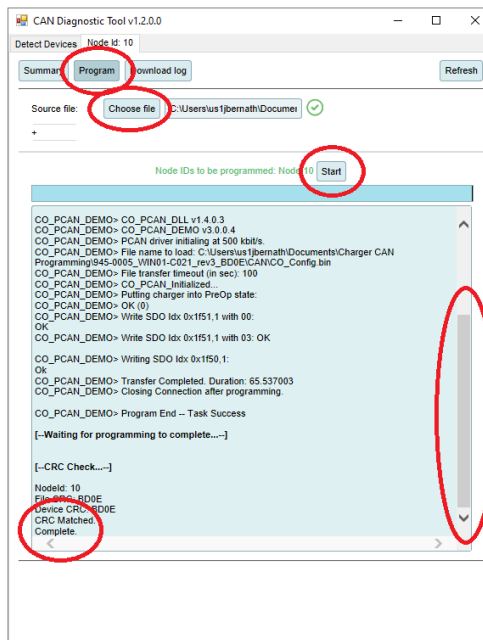
21. Set the Baud Rate: to 500Kb and press Detect Node IDs (see figure 24).
22. After the charger has been detected, it will show up in the Detected devices: window (see figure 24). Select it.

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[Figure 24: Charger CAN Diagnostic Tool – Connect to Charger]

23. Press Program to use the programming Window (see figure 25).



[Figure 25: Charger CAN Diagnostic Tool – Charger Programming]

24. Select Chose file, open the following and press start (see figure 25).

Karcher-MIS-main\Karcher-Floor-Care-Karcher-MIS-xxxxxx\TREX\_Firmware\Trex\_Charger\_Configuration\CANICO\_Config.bin

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25. If programming was completed successfully "Complete" will be displayed at the bottom of the status window (see figure 25). Scroll down to view the bottom of the window.