



INSTRUCTION TO SERVICE

ITS61013		May 6, 2024
SECTION:	260-Charge controller	
SUBJECT:	Software Package Upgrade for EVCC	
ISSUE:	Instructions on how to update the EVCC due to a software release from the Vendor.	
SUMMARY:	The following ITS will provide the instruction on how to update the EVCC module in the field for both Curb side (CS) and Street side (SS).	

ITS61013

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.

PROCEDURE:

⚠ WARNING: Only trained personnel shall supervise and perform High Voltage system testing, checkout and troubleshooting. Two personnel (one called the Checker & the other called Monitor/Recorder) shall perform Checkout Procedures, together, to ensure safety of themselves, others nearby & for the protection of vehicle & property. Refresher training shall be provided to these personnel on a regular basis and when new systems are to be checked by them.

1. Turn the master run switch to the off position and wait 5 minutes before proceeding.
2. Turn the 12/24V battery disconnect and HV Interlock switch to the “OFF” position.
3. Lock and tag the electrical system of the bus out and retain the key. See Figure 1.
4. Use commercially available lockout equipment and tags being sure to follow local regulations.
5. Install a Lockout/Tagout Steering wheel cover as require.

🔑 NOTE: Refer to the Lockout/Tagout Procedure in section 1 of your Preventive Maintenance Manual or section 9 of your Service manual for additional information.

🔑 NOTE: Use commercially available lock out equipment and tags being sure to follow any local laws or workplace procedures.

🔑 NOTE: Refer to New Flyer High Voltage Safety Guidelines and Procedures Document 532295 (Appendix A) when completing installation or service work on high voltage power cables.

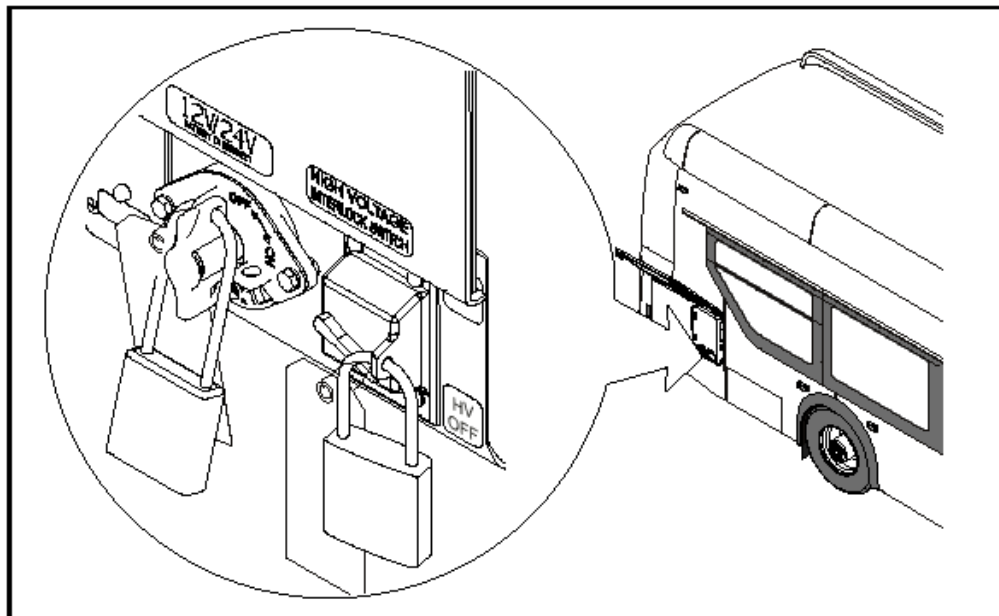


Figure 1 - Lockout tagout location reference.

Note: Addition M12 ethernet cable and software will be provided by TSS. please reach out to TSS Before the update and the kit will be shipped accordingly.

Location

1. The CS EVCC is located at the LV fuse box enclosure assembly attached to the inner fuse box door panel. As shown in figure

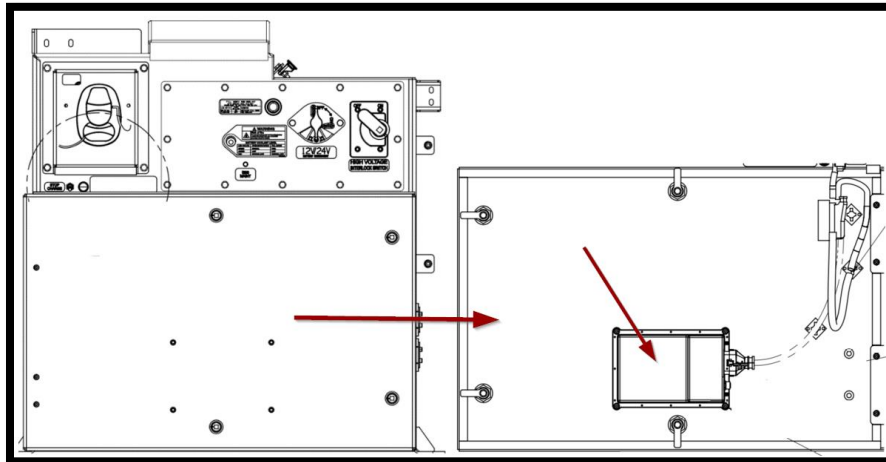


Figure 2 - location of EVCC (CS)

2. The SS EVCC is located at behind the LH corner pillar door. You will need the square key to open the exterior panel, and a short ladder to reach the EVCC M12 port.

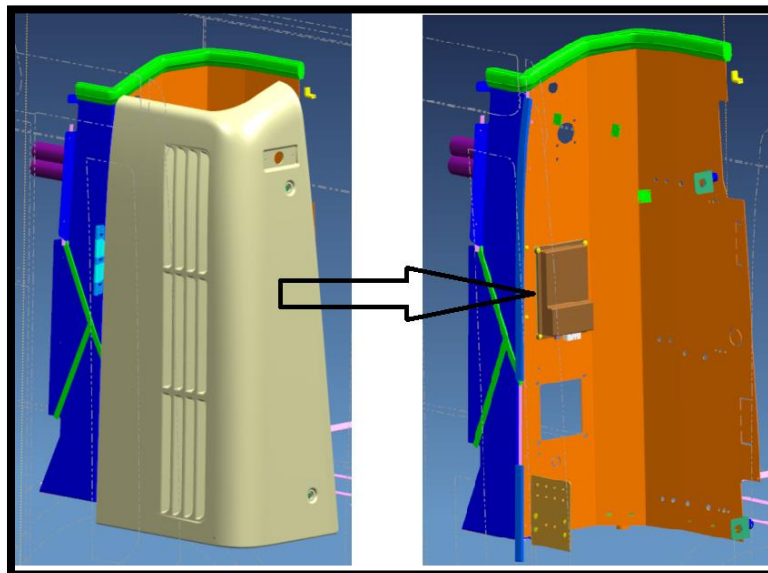
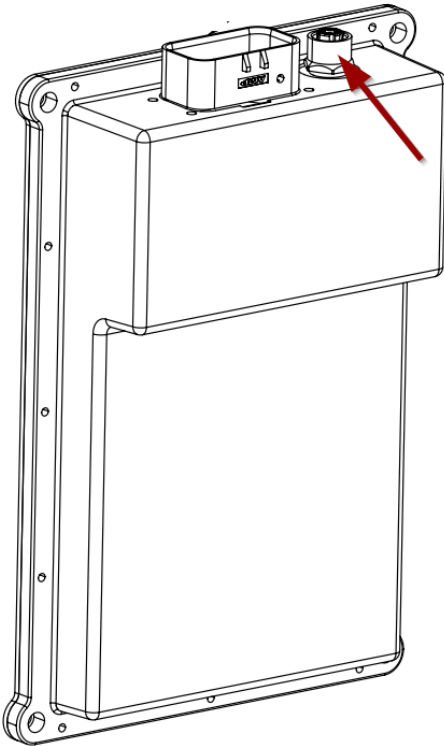


Figure 3 - location of EVCC (SS)

How to Upgrade the EVCC

1. Unscrew the ethernet cable protector.
2. Screw in the M12 to ethernet cable.
3. Connect the ethernet cable to your laptop.



4. Power the EVCC and allow it to boot. About 1 minute.
5. On the laptop, open Control Panel and navigate to Network and Internet.

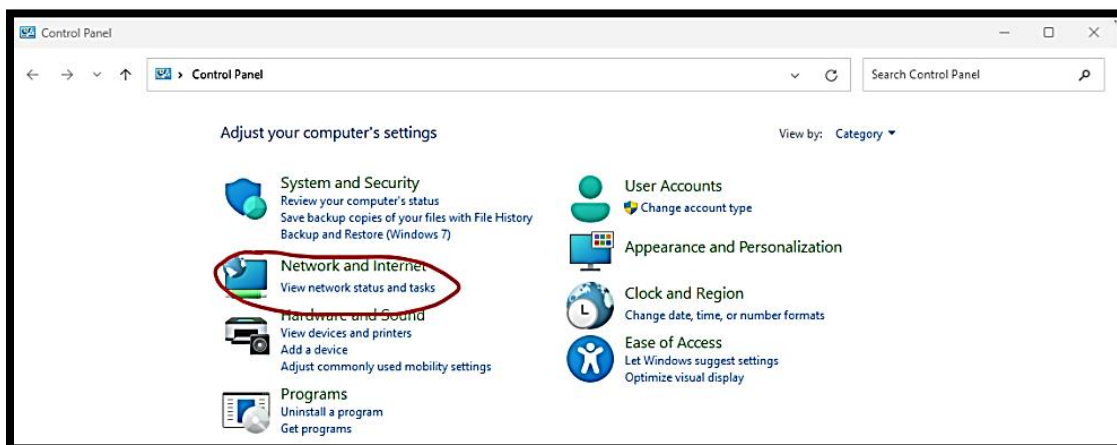
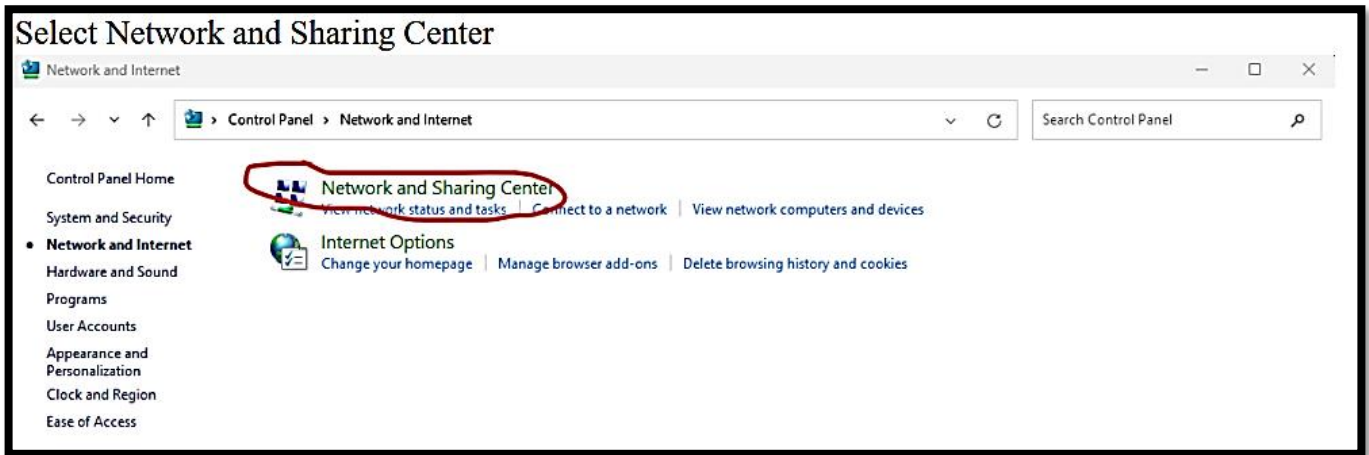
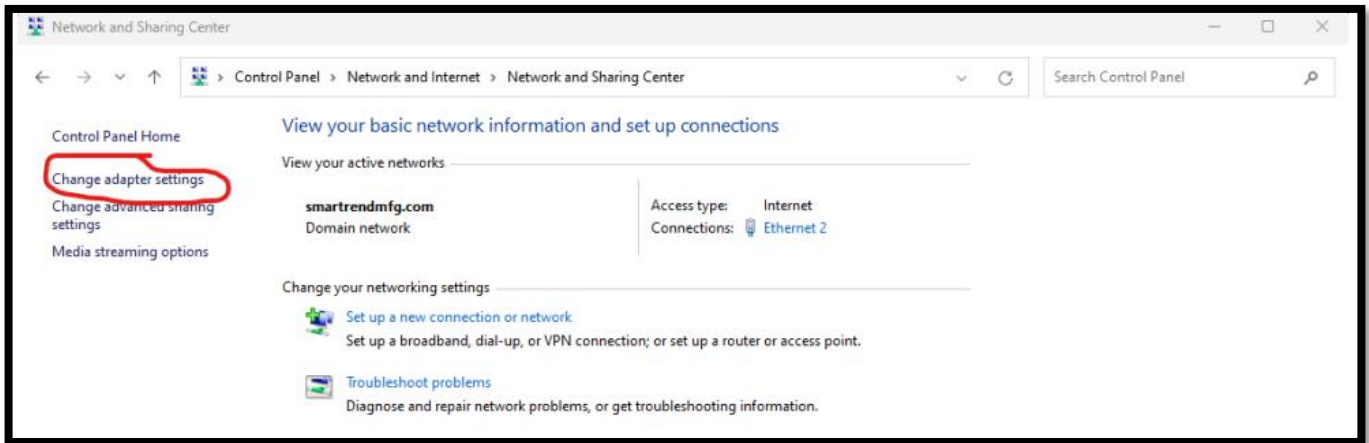


Figure 4 - Network settings

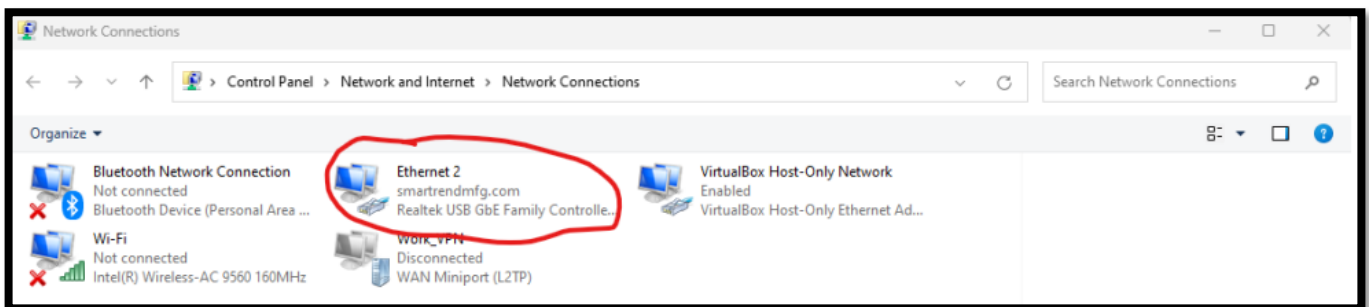
6. Select Network and Sharing Center



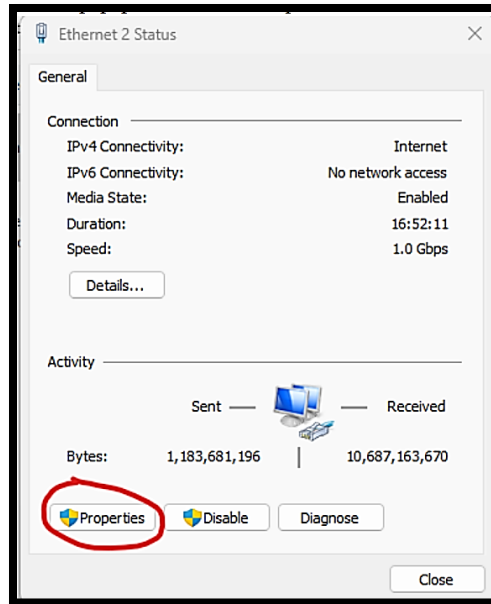
7. Click on Change adapter settings.



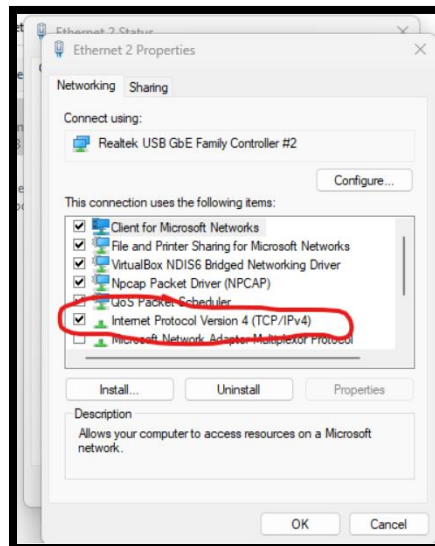
8. Double click your active Ethernet connection. In the example bellow it is Ethernet 2



9. On the popup window click Properties



10. Double click Internet Protocol Version 4 (TCP/IPv4)



11. For the IP address, enter the information shown in figure 5.

NOTE: Make sure to take a picture of this screen before making any changes. You will restore these values later.

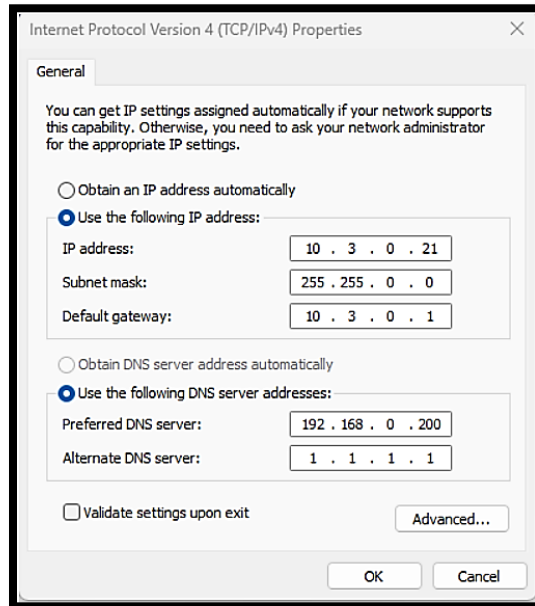


Figure 5 - IP configuration

12. Click OK.
13. Click OK on the Ethernet Properties popup window.
14. Close the Ethernet 2 Status popup window.
15. Open a command prompt by pressing the Window Key + R and type CMD then hit Enter.
16. Test your connection by typing ping 10.3.0.31.
17. Run the command:

```
scp -o StrictHostKeyChecking=no -o UserKnownHostsFile=NUL field_update_1.0.+tar.gz
nfi@10.3.0.31:/usr/evcc/evcc_upgrades;
```

Note: Make sure that the upgrade Zip file is in the same location that the command prompt is pointing to.

If you receive the following type yes to accept the connection

```
C:\Users\michaelminer\Documents\NXP\mfgtools - Latest\Profiles\Linux\OS Firmware\firmware\SMG\LairdCP>scp nfi@10.3.0.88:
/var/evcc_logs/* .
The authenticity of host '10.3.0.88 (10.3.0.88)' can't be established.
ED25519 key fingerprint is SHA256:SgvxAXmBAEQcVphSht9LARC GG1Q7XdPvL0jJ1XU5x9E.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])?
Warning: Permanently added '10.3.0.88' (ED25519) to the list of known hosts.
nfi@10.3.0.88's password:
```

18. when asked for a password enter nfi (it may look like you are not typing but you are).

Note: *You may get the following error on each new bus you connect to*

```
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@  WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!  @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ECDSA key sent by the remote host is
SHA256:uQa5wz5y7xR19yGt7xqzXQ.
Please contact your system administrator.
Add correct host key in /home/user/.ssh/known_hosts to get rid of this message.
Offending ECDSA key in /home/user/.ssh/known_hosts:3
ECDSA host key for 192.168.1.100 has changed and you have requested strict checking.
Host key verification failed.
```

To resolve this issue, navigate to C:\Users\your user name\.ssh. Open the file known_hosts in notepad. Delete all lines with the IP address 10.3.0.31 and repeat step 17.

- 19. The bus should automatically run the system upgrades and reboot when it is complete.
- 20. Follow steps 5 to 15 to restore your original internet address settings.
- 21. Replace the ethernet protective cap.



LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Update EVCC firmware	1	2	2

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1			1	EA	

SPECIAL TOOLS REQUIRED					
Item	Part Number	Description	Qty.	Units	Notes
1		M12 Ethernet cable – provided by SMG	1	EA	Will be provided by TSS
2		Upgrade SW pack	1	EA	Will be provided by TSS