



PROTERRA



TECHNICAL SERVICE BULLETIN

ISSUE DATE:	1/17/2023
SERVICE BULLETIN SUBJECT:	ZX5A01 Valeo Software Update
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	SC-23-7
LABOR OPERATION CODE:	VA53Z

NOTICE! It is expected that this process may require up to one hour per bus. Please schedule appropriately to minimize vehicle downtime.

ZX5A01 VALEO SOFTWARE UPDATE

Description:

The procedure describes the process the process of updating the VALEO HVAC unit to the latest version to adjust software voltage limits to match Proterra system requirements. This will prevent software from disabling the HVAC unit when the bus is fully charged

Tools/Parts Required:

Tools and Supplies Required:

- Laptop Computer
- PN: 173-6964 - HARNESS, CAN DIAGNOSTIC
- PN: 005329 - ADAPTER, SERIAL, RS232, USB
- PN: 008907 - PCAN INTERFACE, PEAK IPEH-002022

Software Files Required / Preparation:



IMPORTANT: NEVER access the software from the USB memory device, ALWAYS copy the software files to your computer hard drive and access the software from this location. Secure the bus with the Vehicle Master Disconnect in the rear on.

Component	Part Number
HV SOFTWARE, VALEO HVAC	063393

It is recommended that you copy the entire “service bulletin files” folder to your local machine in order to more effectively keep track of the software versions you are deploying:
<\\bus.local\files\Engineering\Service Bulletins\Service Bulletin Files for SC-23-7>

Connecting to the Vehicle:

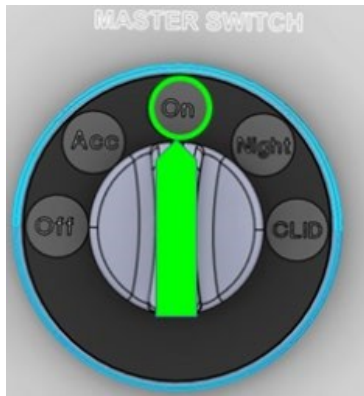
1. Power up and login to the Proterra-Supplied laptop or a comparable PC
2. Turn on the 12/24V rear Vehicle Master Disconnect located at the curbside rear charge port access panel.



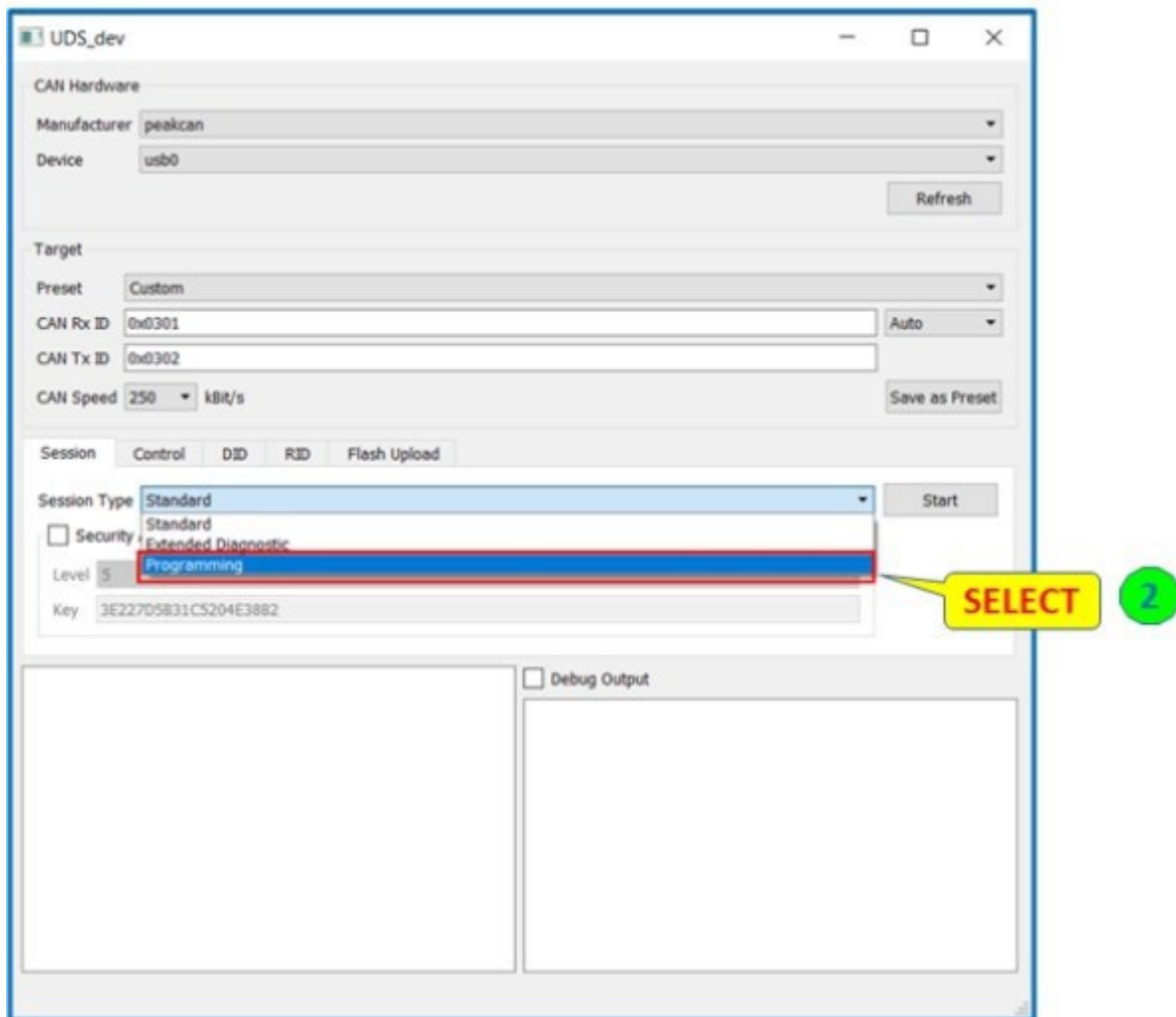
3. Connect the "CAN Breakout Harness" to the diagnostic port in the driver's workplace.



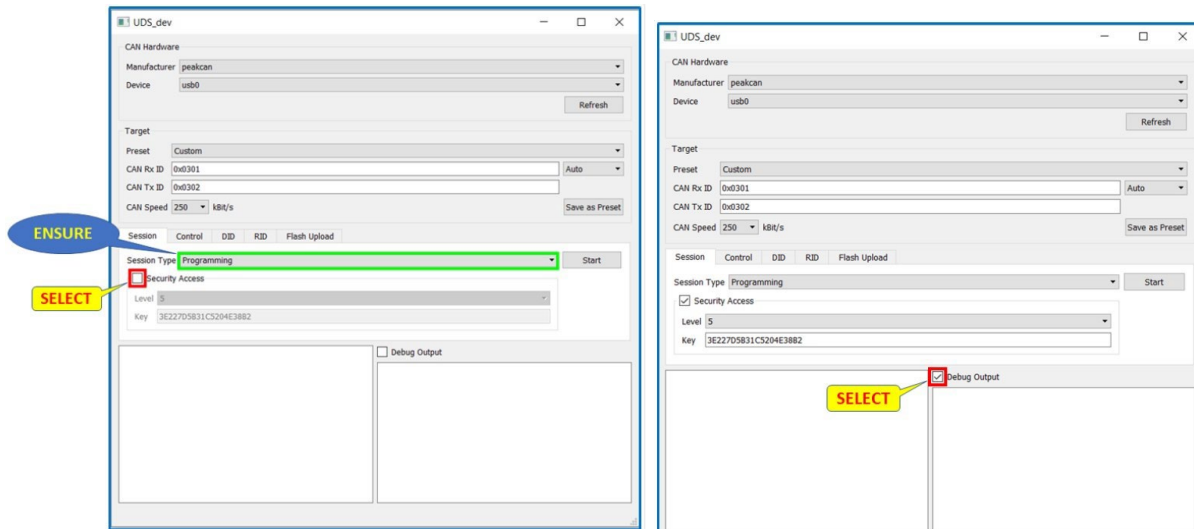
4. In the driver's workplace, ensure that the bus is powered on.



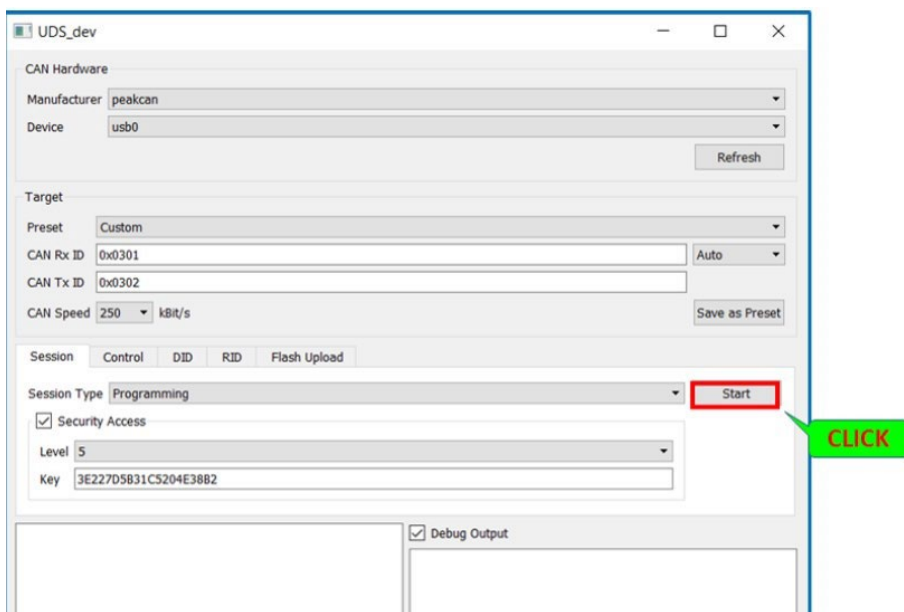
5. On the laptop, navigate to the following folder.
<\\bus.local\files\Engineering\Service Bulletins\Service Bulletin Files for SC-23-7\UDS Development>
6. Double click the file named "UDS_dev" to start the programming software.
7. Set the session type to "Programming as shown in the following illustration.



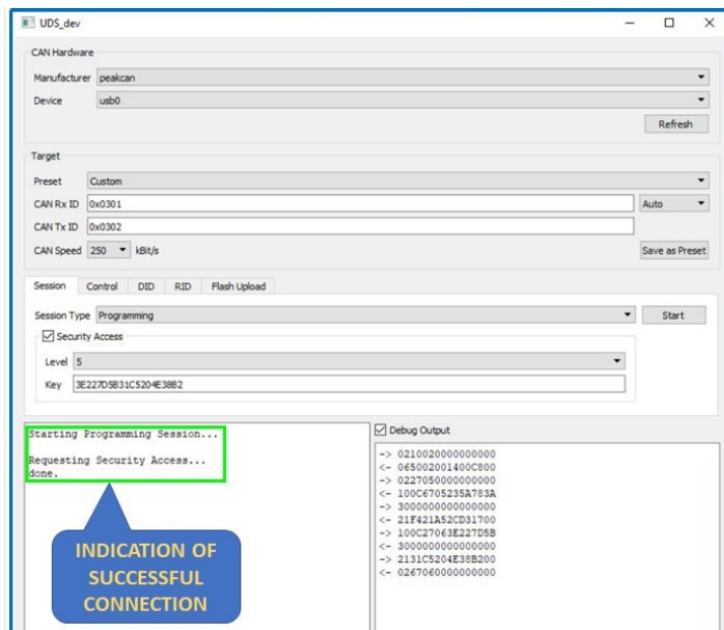
8. Check the “Security Access” and “Debug Output” checkboxes as shown in the following illustrations.



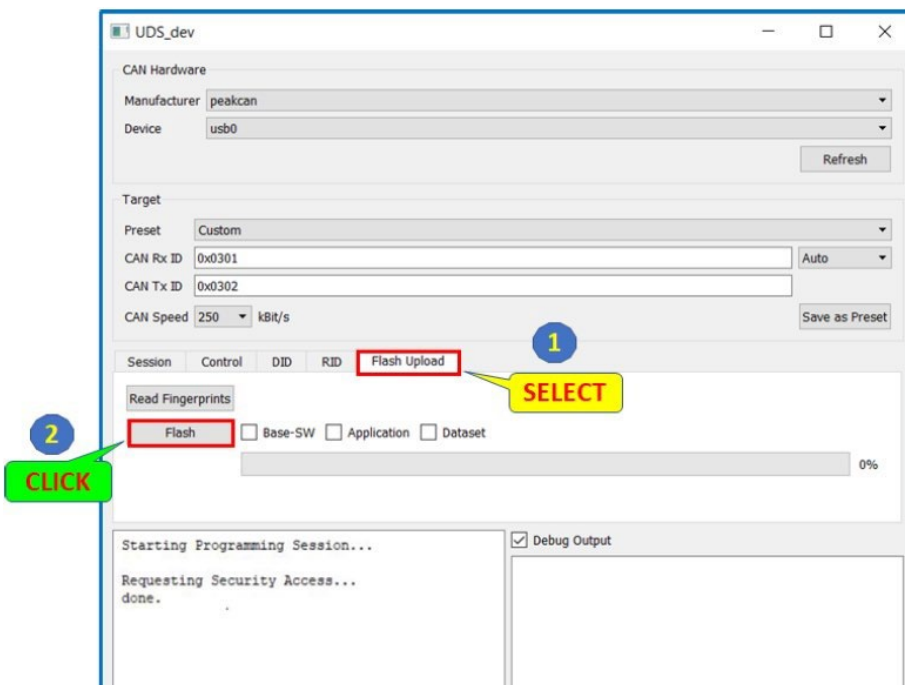
9. Press the “Start Button” as shown in the following illustration.



10. A successful connect is shown in the following illustration. If you do not successfully connect during the first attempt, cycle the bus power and try again until a successful connection is achieved.

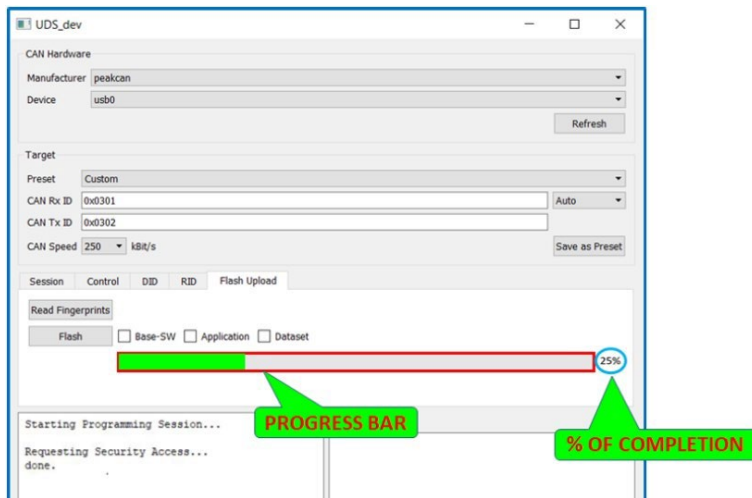


When a successful connection is made, press the “Flash Upload” button shown in the following illustration.

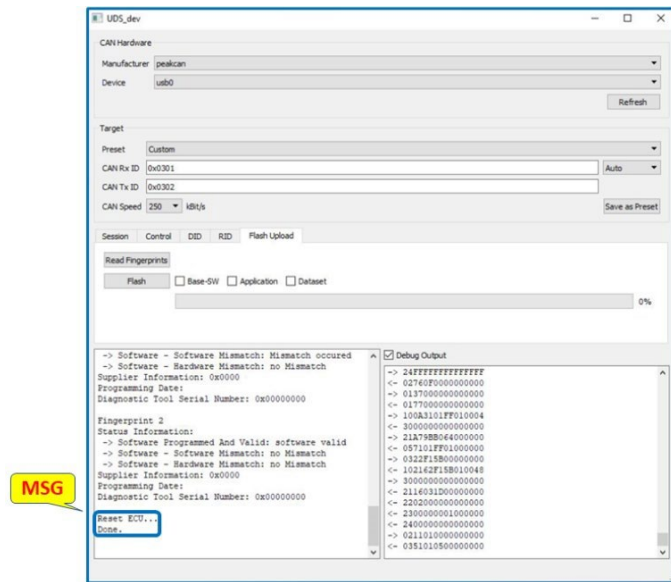


11. The software will prompt you to load a file. Navigate to the location where the files were saved earlier in the procedure. This location is <\\bus.local\files\Engineering\Service Bulletins\Service Bulletin Files for SC-23-7>. Select the file named “063393.hex”.
12. Click the “Open” button.
13. Click on the “Flash” button shown in the previous illustration.

14. The software update will begin. Monitor the Progress bar shown in the following illustration.



15. When the update completes, the following screen will appear.



16. Power the bus off and then back on to complete the process.